



КАТАЛОГ, часть 2



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INDIVIDUAL AND MADE TO MEASURE



**SERVICE AND MAINTENANCE —
OUT AND ABOUT FOR YOUR SAFETY**



asecos is uncompromising when it comes to safety.

Our expertise as developers and manufacturers of technical safety products is also reflected in the range of services we offer. Seamless, professional maintenance can prevent serious damage in critical cases, and is also required by law in many countries.

A selected number of sales partners around the world have undergone a special certification process and are able to provide professional services where asecos cannot be present personally. Ask us for more information.

With the asecos services you are always on the safe side. asecos fulfils these requirements: Inspection and maintenance carried out by our specialised service technicians ensures your safety storage cabinet functions properly. Concluding an asecos service agreement extends your warranty to up to 10 years.

During safety technology inspections, our service experts check all safety-relevant elements such as fire protection and ventilation seals, insulation, door closures, fusible links, ventilation openings for proper function and effectiveness.





The asecos service: Your advantages at a glance

The protective function of your safety storage cabinet (serving as a fire bulkhead for stored hazardous materials in case of a fire) is permanently ensured, extending the service life of your system.

1

You have our guarantee as experts familiar with all regulations, guidelines, and cabinet design requirements.

2

You enjoy up to a 10 year manufacturer warranty, depending on the service rate you select.

3

The asecos team monitors your service date schedule and tells you about upcoming inspections.

4

Complete, consistent documentation and availability of all spare parts (min. 10 years).

5

Our safety technology inspection fulfils the requirements of EG directive 89/391/EC.

6

Comprehensive service network

7

We can carry out 98% of all the repairs in case of manufactured products within the scope of the deadline for the safety-related inspection – this means just one visit to you and saves money too.

8

Lithium-ion batteries

LITHIUM-ION BATTERIES – HOW PROFESSIONALS AND INSURERS RECOMMEND HANDLING BATTERIES

Ever more frequently, private individuals, tradespeople, and companies are using lithium-ion batteries classified as being in the moderate performance class according to VdS 3103. It is important to keep safety in mind when doing so. If you do not store and/or charge these batteries properly, they can pose hazards and safety risks.

Insurers, associations, and professionals have drawn attention to this issue.

Property insurers recommend using available protective equipment (such as type 90 safety storage cabinets) to minimise risks and avoid damage.

Property insurers recommend the use of safety storage cabinets for the following reasons:

"If lithium ion batteries are required at production facilities, then measures and safety precautions such as (...) storing them in fire-resistant cabinets should be considered".

IMK Ber. No. 192
Dipl.-Ing. Jürgen Kunkelmann
Section 2.2, last updated 10/2017

"Lithium batteries should generally be treated as a hazardous material."

Publication VdS 3103 : 2019-06 (03)
General Association of the German Insurance Industry
published by VdS Schadenverhütung GmbH

"Areas with medium power batteries should be spatially (at least 5 m) or structurally separated from other areas with fire-resistant structures."

Publication VdS 3103 : 2019-06 (03)
General Association of the German Insurance Industry
published by VdS Schadenverhütung GmbH

"Fire-resistant safety storage cabinets (type 90) with smoke detector monitoring offer particular protection, as batteries can be both stored and charged there in a protected manner. "

Provincial Flyer – E-Bikes handling lithium safely, last updated 06/2020

"Larger quantities, or more powerful LIB must be stored at a safe distance from flammable materials. If they are stored inside buildings, then a clearance of 2.5m from other goods must be maintained, or the LIB must be stored in a separate area secured by fire protection technology (like a safety storage cabinet or container)!"

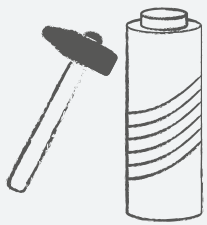

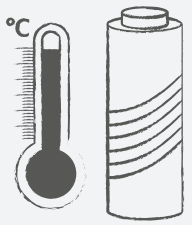
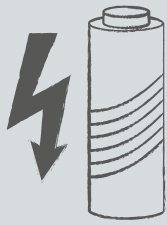
LIB= Lithium-ion batteries
DGUV Information 205-041
Fire protection when handling lithium-ion batteries
Last updated 02/2024



Lithium-ion batteries

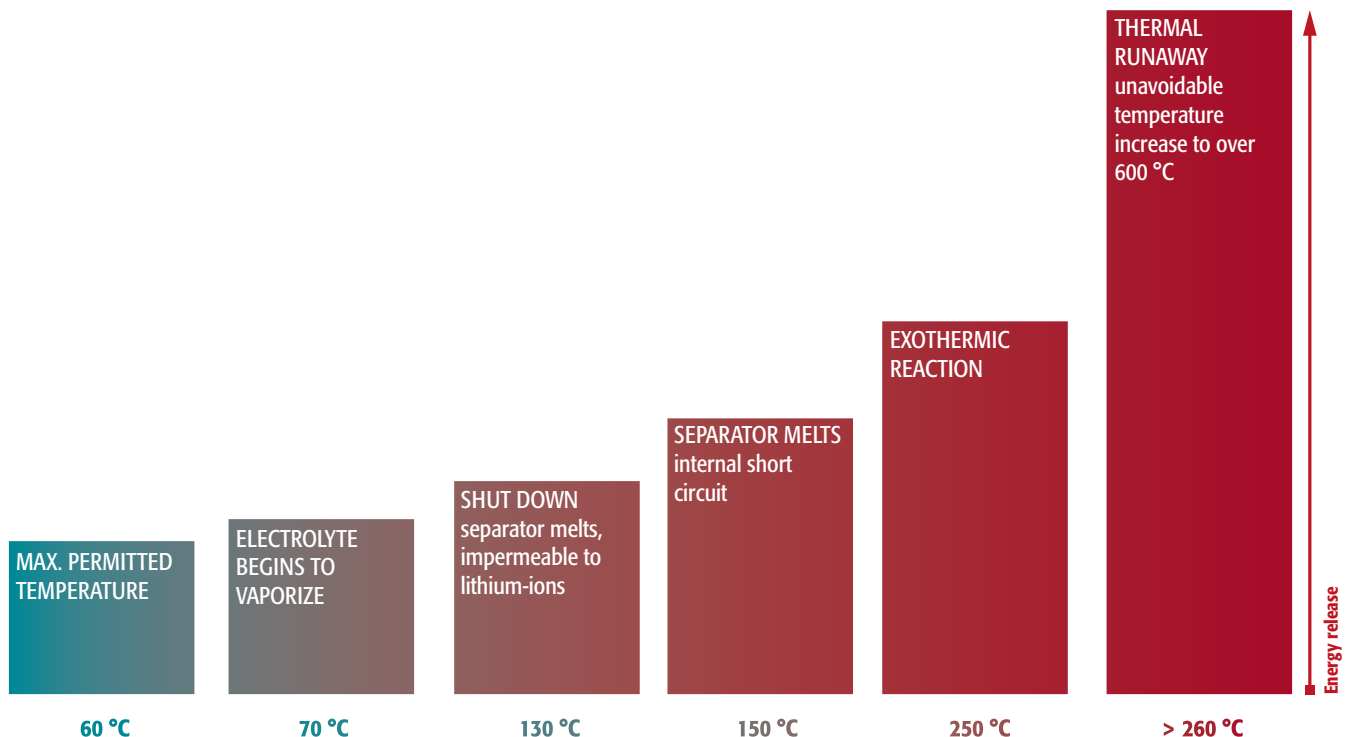
IMPROVED SAFETY THROUGH FIRE PROTECTION – CHARGING AND STORING BATTERIES CORRECTLY

Lithium-ion batteries can cause a fire. Causes include:

Mechanical damage	Deep discharge	Thermal overload	Electrical overload
In combination with the high energy density of the battery	Unstable cell	Caused by external heat or energy sources	During charging and discharging
			

Always store and charge lithium-ion batteries in a safety storage cabinet. Handle batteries properly and appropriately to reduce hazards such as the risk of fire. Lithium-ion batteries offer many advantages. They are long-lasting, offer high energy density, have a low level of self-discharge, and can be used in a wide range of different applications. Using lithium-ion batteries is safe. However, according to the VDE they are safe only when handled properly. Technical defects or improper handling can cause a fire. If a lithium-ion battery

discharges its energy in an uncontrolled manner, the heat released may exceed the melting point of the lithium. This will result in a chain reaction. Professionals call this "thermal runaway". The battery can explode as it burns. Because of this, it is important to understand and comply with the safety regulations for moderate performance batteries. It is best to store and charge lithium-ion batteries in an asecos safety storage cabinet.



SAFETY REGULATIONS FOR MEDIUM POWER CLASS BATTERIES

(Based on VdS 3103, Provincial flyer 06/2020)



SAFETY REGULATIONS

- ▶ Comply with the manufacturer's specifications, and follow the information provided on technical product sheets.
- ▶ Protect the poles of the batteries from short circuiting.
- ▶ Protect the batteries from mechanical damage.
- ▶ Do not expose the batteries directly or continuously to high temperatures or heat sources, such as direct sunlight
- ▶ Store the batteries in a location structurally or spatially separate from other flammable materials if there is no automatic extinguishing system available: minimum distance 2.5 m
- ▶ Remove damaged or defective batteries from your warehouse and production areas immediately; store them temporarily until their disposal at a safe distance away, or in an area separated using fire protection technology.
- ▶ Only store batteries that have a testing certificate in accordance with UN 38.3; store prototypes only in exceptional cases and with a risk assessment.
- ▶ Only store batteries in separate, fire-resistant areas or at a safe distance of 5 m
- ▶ Do not store batteries with other products that can act as accelerants to a fire
- ▶ **Monitor the storage areas where your batteries are located using suitable sensors with connection to a permanently staffed alarm receiving office**
- ▶ With fire extinguishing systems, observe the information in the product data sheets for the batteries on suitable extinguishing agents.

Conclusion

Store and charge lithium-ion batteries in a safety storage cabinet!



ION-LINE

CORE, PRO AND ULTRA –CUSTOMISED AND SAFE

The asecos ION-LINE offers three different safety levels for secure active and passive storage of lithium ion batteries.

CORE: Comprehensive fire protection with the proven asecos evacuation and alarm forwarding concept.

PRO: Expanded protection when handling lithium-ion batteries with improved monitoring.

ULTRA: Improved fire protection, active smoke gas management, and expanded monitoring are useful even in sensitive areas with the highest safety requirements.



	ULTRA	PRO CHARGE	PRO STORE
<i>Fire resistance from the outside</i>			
<i>Fire resistance from the inside</i>			
<i>GS certified fire resistance</i>			
<i>Store</i>			
<i>Charge</i>			
<i>Evacuatable from site</i>			
<i>Smoke detector</i>			
<i>Potential-free alarm contact</i>			
<i>Temperature sensor</i>			
<i>Fire suppression system</i>	*		
<i>Smoke-tight</i>			
<i>Alarm differentiation</i>		*	*
<i>Pressure relief opening in the head section</i>			
<i>Locker system</i>			
	from page 240	from page 246	from page 246

*optional

OUR asecos ION-LINE SAFETY CONCEPT

ION-LINE safety storage cabinets offer you the safety you need for storing and charging lithium-ion batteries. The CORE, PRO and ULTRA models immediately detect any fires that occur in the cabinet. This allows employees to evacuate the building quickly if an alarm sounds.

Connecting the cabinet to a continuously staffed building control system allows first responders:

- **to receive an alarm and be on site quickly.**
- **to immediately take further measures, for instance evacuating the building, to minimise subsequent damage caused by smoke or extinguishing water.**

ION-LINE cabinets are equipped with a transport base and quick-release power supply for safe evacuation. When the cabinet is removed from the setup location, this plug connection disconnects independently.

INCIDENTS	Warning MESSAGE 1	ALARM LEVEL 1	ALARM LEVEL 2
CORE		<ul style="list-style-type: none"> • Smoke detector detects incipient smoke development 	
SYSTEM REACTIONS PRO	<ul style="list-style-type: none"> • Interior temperature >50 °C <p>Possible causes:</p> <ul style="list-style-type: none"> • Temperature build-up due to battery charging processes • Ventilation system failure 	<p>Possible reasons:</p> <ul style="list-style-type: none"> • Smoke detection without simultaneous temperature rise 	<ul style="list-style-type: none"> • Alarm level 1 has been triggered • Interior temperature >70 °C <p>Possible reasons:</p> <ul style="list-style-type: none"> • Fire development
ULTRA	<ul style="list-style-type: none"> • The warning light (red LED) is activated and lights up permanently, the function indicator (green LED) goes out. • Alarm triggers with slow sound interval • The socket strips switch off • The potential-free alarm contact forwards an alarm 	<ul style="list-style-type: none"> • Acoustic signalling with medium tone interval • The potential-free switching contact forwards an alarm 	<ul style="list-style-type: none"> • The warning light (red LED) switches from steady light to flashing light • The alarm switches to a fast sound interval • The fire suppression system trips <p>In the PRO CHARGE model</p> <ul style="list-style-type: none"> • Switching off the technical ventilation and power strips
SUBSEQUENT MEASURES	<ul style="list-style-type: none"> • Function indicator changes from green to flashing yellow • Alarm triggers with slow sound interval • The fan increases its speed for a short time • The socket strips switch off • The potential-free alarm contact forwards an alarm 	<ul style="list-style-type: none"> • The function indicator flashes red • Alarm triggers with rapid sound interval • The ventilation flaps close • The fan and the socket strips switch off. • The potential-free alarm contact forwards an alarm 	<ul style="list-style-type: none"> • The function indicator flashes red • Alarm triggers with rapid sound interval • The ventilation flaps close • The fan and the socket strips switch off • The potential-free alarm contact forwards an alarm • The optional fire suppression system trips
	<ul style="list-style-type: none"> • Immediate inspection caused by qualified in-house personnel • At an internal temperature below 50 °C, return to normal operation, the visual and acoustic signalling is switched off 	<p>Immediate inspection caused by qualified personnel (e.g. fire brigade) to initiate further measures if necessary</p> <p>If the smoke detector does not detect any further smoke inside the cabinet, the system can be reset to normal operation caused by briefly disconnecting it from the mains voltage</p>	<p>The overall system can then only be assessed by an authorised asecos service technician and reset to normal operation if possible. At least the fire suppression unit and smoke detector must be exchanged before doing so.</p>

ALARM FORWARDING AS KEY COMPONENT

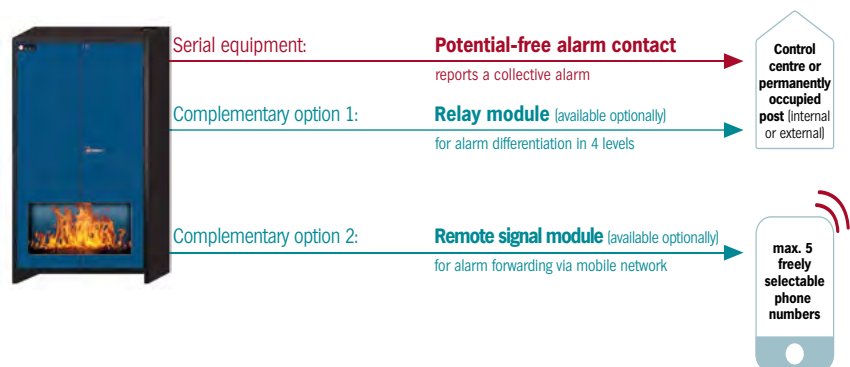
Whenever the cabinet is unattended, especially at night or on weekends, alarm forwarding is indispensable in an emergency. It is the only way to quickly detect the damage and initiate countermeasures.

Manufacturer recommendation & series equipment:

POTENTIAL-FREE SWITCHING CONTACT

All ION-LINE cabinets are equipped at the factory with a potential-free switch contact for forwarding the alarm on site within the building. The most reliable way to transmit the alarm is to connect this contact to a continuously staffed control centre (internal or external). Optional modules can be purchased as an alternative or extension to this system.

Alarm forwarding – These are your options:



Complementary option 1:

RELAY MODULE

By choosing this option, you are opting for alarm differentiation instead of a collective alarm.

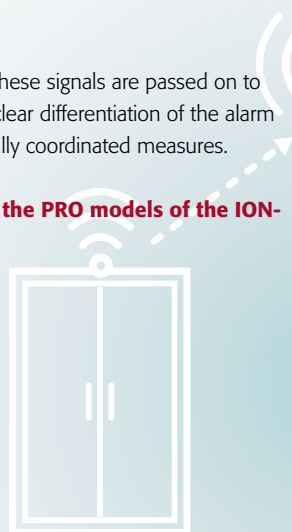
The factory-installed module differentiates between four different warning and alarm levels:

- warning message at a temperature above 50 °C inside the cabinet
- alarm level 1
- alarm level 2
- power failure

Via potential-free alarm contacts, these signals are passed on to a central control centre. With the clear differentiation of the alarm conditions, you can initiate optimally coordinated measures.

The relay module is suited for the PRO models of the ION-LINE.

Order No. 38766



Complementary option 2:

MODULE FOR REMOTE SIGNALLING

The module offers an alarm forwarding via the mobile phone network (SMS/call) and is therefore especially suitable for companies and facilities without a central building management system. In an emergency, the immediate alerting of one or several defined persons is triggered.

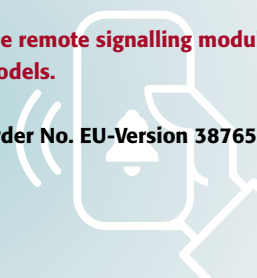
The module is easily installed on-site by the customer via plug (also suitable for retrofitting) and offers the following functions:

- five programmable telephone numbers
- configurable message texts
- collective alarm in case of an emergency or power failure

A SIM card is required for the initial operation of the module, which must be provided by the customer. Alternatively, the included SIM card (for European and UK use only) can be activated via an online portal. A good mobile phone connection is necessary to ensure that the signal can be transmitted.

The remote signalling module is suited for all ION-LINE models.

Order No. EU-Version 38765



ION-LINE ULTRA

Seal of Conformity

The ION-LINE ULTRA is tested and certified in accordance with **GS Principle EK5/AK4 22-01** for testing and certification of safety storage cabinets for active and passive storage of lithium-ion batteries.

The GS mark verifies that ION-ULTRA safety storage cabinets have successfully completed and passed the required, comprehensive set of tests and inspections.

ION-LINE ULTRA: Tested in Germany – safe throughout Europe.



ION-
LINE

ION-LINE | ION-ULTRA-90

*Safe and approved passive and active storage of lithium-ion batteries in working areas
Premium models for the highest safety requirements – how you can benefit from the advantages of the ION-ULTRA-90:*

1

GS-certified fire resistance in accordance with GS test principle EK5/ AK4 22-01. Smoke-tight cabinet construction with pressure relief opening in the head section and self-closing, automatically locking doors.



2

Thanks to an integrated transport base, you can immediately evacuate the cabinet and transport it to a safe location outdoors.



3

An LED indicator and visual/acoustic alarms quickly inform you of fires when they begin, without having to open the doors of the cabinet.



4

Optionally equipped with fire suppression system, which automatically triggers in the event of a fire.



5

Smoke detectors and two temperature sensors detect even incipient fires and can transmit alarms to the building control system quickly.



6

The built-in, temperature-controlled ventilation system prevents heat build-up when charging the batteries.



7

If your work area is not staffed, the standard potential-free switching contacts forward differentiated alarms immediately to a connected control centre. Optional remote signalling module available.



8

Thanks to the adjustable-height shelves with a 75 kg load capacity, you can flexibly adjust the interior of the cabinet.



9

Bottom collecting sump is used to catch any leakage which may occur from burning batteries.





- **Fire resistance of 90 minutes** (type 90), type-tested in accordance with EN 14470-1



- **Fire resistance of 90 minutes from inside to outside** in accordance with EN 1363-1



- **GS-tested** (document EK5/AK4 09-10, ProdSG)



- **CE compliant**



- Extended **manufacturer warranty of up to 10 years** in combination with an asecos service tariff



ION-
LINE



Model IO90.195.120.065.WDAC
Order No. 40559-047-41105

Image shows optional accessories



Model IO90.195.120.065.WDAC
Order No. 40559-047-41112

Image shows optional accessories



Model IO90.195.120.065.WDAC
Order No. 40559-047-40888

Image shows optional accessories




Technical data

		UK version	EU version
External dimensions W x D x H	mm	1193 x 650 x 1953	1193 x 650 x 1953
Internal dimensions W x D x H	mm	1050 x 565 x 1643	1050 x 565 x 1643
Weight without interior equipment	kg	550	550
Maximum load	kg	600	600
Entry width transport base	mm	1120	1120
Entry height transport base	mm	90	90

Total power rating of the power socket strips

		UK version	EU version
Fuse (1-phase)	A	13	16
Power max. (1-phase)	kW	2,99	3,68
Fuse (3-phase)	A	3 x 13	3 x 16
Power max. (3-phase)	kW	8,97	11,04
Number of socket outlets per strip	piece	8	8

Main features

-  Safe storage and charging of batteries
-  Integrated warning system incl. LED display
-  Optional: fire suppression unit



EASY HANDLING WITH COMFORT

Doors stop for safe and convenient operation and close automatically after 10 seconds.



Model	Body colour	Door colour	Order No.
IO90.195.120.065.WDAC	anthracite grey RAL 7016	gentian blue RAL 5010 anthracite grey RAL 7016	40559-047 40559-053

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
		UK version EU version
3x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=2,85L)	powder-coated sheet steel	40888 40878
4x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=2,85L)	powder-coated sheet steel	41105 41102
5x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=2,85L)	powder-coated sheet steel	41109 41106
6x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=2,85L)	powder-coated sheet steel	41112 40921

Accessories	Order No.
	UK version EU version
Power supply cable 400 V (can only be ordered in combination with the cabinet)	3-phase, for further properties see technical data table 38038 38038
Fire suppression unit with hoop guard	40941 40941



ION-
LINE

ION-LINE | ION-PRO-90

Safe and approved passive and active storage of lithium-ion batteries in working areas
Cabinet models for expanded safety requirements – how you benefit from the advantages of the ION-LINE PRO:

1

An LED indicator and visual/acoustic alarms quickly inform you of fires when they begin, without having to open the doors of the cabinet.



2

The fire suppression system triggers automatically if there is a fire in the cabinet.



3

Smoke detectors and a temperature sensor detect even incipient fires and can transmit alarms to the building control system quickly.



4

If your work area is not staffed, the standard potential-free switching contact forwards alarms immediately to a connected control centre. With optional relay or remote signalling module.



5

The ventilation attachment prevents heat build-up when charging the batteries.



6

Convenient cabinet entry – open both doors at the same time with just one hand.



7

Your battery charging process is safe – thanks to high-quality protective contact outlets in the fire safe interior of the cabinet.



8

The automatic 2-point locking mechanism permanently and securely closes the cabinet doors.



9

Thanks to an integrated transport base, you can immediately evacuate the cabinet and transport it to a safe location outdoors.





- **Fire resistance of 90 minutes** (type 90), type-tested in accordance with EN 14470-1



- **Fire resistance of 90 minutes from inside to outside** in accordance with EN 1363-1



- **CE compliant**



- Extended **manufacturer warranty of up to 10 years** in combination with an asecos service tariff



ION-
LINE



Model IO90.195.120.PC.WDC
Order No. 41269-047-41401

Model IO90.195.120.PC.WDC
Order No. 41269-047-41400

Technical data		EU version	UK version
External dimensions W x D x H	mm	1193 x 615 x 2224	1193 x 615 x 2224
Internal dimensions W x D x H	mm	1050 x 522 x 1647	1050 x 522 x 1647
Weight without interior equipment	kg	424	424
Maximum load	kg	600	600
Entry width transport base	mm	1120	1120
Entry height transport base	mm	90	90
Total power rating of the power socket strips			
Fuse (1-phase)	A	16	13
Power max. (1-phase)	kW	3,68	2,99
Fuse (3-phase)	A	3 x 16	3 x 13
Power max. (3-phase)	kW	11,04	8,97
Number of socket outlets per strip	piece	8	8

Main features

- Safe storage and charging of batteries
- Warning and fire suppression system
- Extraction unit and LED display included

PRO-Model incl. fire suppression unit and LED display for a quick indication of emergencies.



Model	Body colour	Door colour	Order No.
IO90.195.120.PC.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41269-047

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
		EU version UK version
3x perforated shelf incl. outlet strips, 1x bottom collecting sump [V=2.6L]	powder-coated sheet steel	41391 41399
4x perforated shelf incl. outlet strips, 1x bottom collecting sump [V=2.6L]	powder-coated sheet steel	41392 41400
5x perforated shelf incl. outlet strips, 1x bottom collecting sump [V=2.6L]	powder-coated sheet steel	41393 41401
6x perforated shelf incl. outlet strips, 1x bottom collecting sump [V=2.6L]	powder-coated sheet steel	41394 41402

Accessories	Order No.	
	EU version UK version	
Power supply cable 400 V (can only be ordered in combination with the cabinet)	3-phase, for further properties see technical data table	38038 38038
Module for remote signalling	alarm transmission to a mobile of your choice	38765 39221
Relay module	potential-free forwarding of 4 different alarm states	38766 38766

Service	Order No.
Service (UK only)	SER90018



Model IO90.195.120.PS.WDC
Order No. 41429-047-41388

Model IO90.195.120.PS.WDC
Order No. 41429-047-41389

Technical data		IO90.195.120.PS.WDC	
External dimensions W x D x H	mm	1193	615 x 1953
Internal dimensions W x D x H	mm	1050	522 x 1647
Weight without interior equipment	kg	424	
Maximum load	kg	600	
Entry width transport base	mm	1120	
Entry height transport base	mm	90	

Main features	
	Store batteries safely
	Warning and fire suppression system
	LED display included

EXPERT TIP

Lithium-ion batteries with **obvious damage** should generally **not be stored inside buildings**:

Dispose of them **promptly in appropriate disposal containers** suitable for transportation, **outside of buildings**.

Improper or irregular inspection of safety-related equipment, not only risks the **loss of insurance cover** but also threatens your **personal liability** - you can be held personally responsible for damage or injury.

Increase the service life and improve the operational safety of your ION-LINE cabinets with the **asecos original service**.

ONE-HAND OPERATION

Are you looking for a comfortable storage solution for your Lithium-ion Batteries?

Operate **two doors with one hand!**

Model	Body colour	Door colour	Order No.
IO90.195.120.PS.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41429-047

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
		EU version UK version
3x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41386 41386
4x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41387 41387
5x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41388 41388
6x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41389 41389

Accessories	Order No.
	EU version UK version
Module for remote signalling	alarm transmission to a mobile of your choice 38765 39221
Relay module	potential-free forwarding of 4 different alarm states 38766

Service	Order No.
Service (UK only)	SER90017

ION-LINE | ION-CORE-90

*Safe and approved passive and active storage of lithium-ion batteries in working areas
Cabinet models for comprehensive safety requirements – how you can benefit from the advantages of the ION-CORE-90:*

1

Storing lithium-ion batteries safely in cabinets with 90 minutes fire resistance.



2

Convenient cabinet entry – open both doors at the same time with just one hand.



3

Smoke detectors detect even incipient fires and can transmit alarms to the building control system quickly.



4

If your work area is not staffed, the standard potential-free switching contact forwards alarms immediately to a connected control centre. Optional remote signalling module available.



5

Your battery charging process is safe – thanks to high-quality protective contact outlets in the fire safe interior of the cabinet.



6

Thanks to an integrated transport base, you can immediately evacuate the cabinet and transport it to a safe location outdoors.



7

The automatic 2-point locking mechanism permanently and securely closes the cabinet doors.





- **Fire resistance of 90 minutes** (type 90), type-tested in accordance with EN 14470-1



- **Fire resistance of 90 minutes from inside to outside** in accordance with EN 1363-1



- **CE compliant**



- Extended **manufacturer warranty of up to 10 years** in combination with an asecos service tariff





Model IO90.195.060.CC.WDC
Order No. 41302-047-41370



Model IO90.195.060.CC.WDC
Order No. 41302-047-41375

Technical data




		IO90.195.060.CC.WDC
External dimensions W x D x H	mm	599 x 615 x 1953
Internal dimensions W x D x H	mm	450 x 522 x 1647
Weight without interior equipment	kg	265
Maximum load	kg	600
Entry width transport base	mm	526
Entry height transport base	mm	90

Total power rating of the power socket strips

Fuse (1-phase)	A	13
Power max. (1-phase)	kW	2,99
Fuse (2-phase)	A	2 x 13
Power max. (2-phase)	kW	5,98
Number of socket outlets per strip	piece	8 *

* EU 41366/UK 41370: A minimum of 3 power sockets available per shelf.
EU 41373/UK 41375: Each locker has access to a minimum of 1 power socket.

Main features

-  Safe storage and charging of batteries
-  Integrated smoke detector for fire detection
-  Accessible transport base

EXPERT TIP

Lithium-ion batteries with **obvious damage** should generally **not be stored inside buildings**.
Dispose of them promptly in appropriate disposal containers suitable for transportation, **outside of buildings**.



Model	Body colour	Door colour	Order No.
IO90.195.060.CC.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41302-047

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
7x metal locker with perforated shelf incl. outlet strips, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel	EU version 41373 UK version 41375
4x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel	41366 41370

Accessories	Order No.
Power supply cable 400 V (can only be ordered in combination with the cabinet)	EU version 38038 UK version 38038
Module for remote signalling	38765 39221

Service	Order No.
Service (UK only)	SER90019



Model IO90.195.120.CS.WDC
Order No. 41426-047-41387



Model IO90.195.120.CS.WDC
Order No. 41426-047-41389






Model IO90.195.060.CS.WDC
Order No. 41419-047-41363

Technical data

		IO90.195.120.CS.WDC	IO90.195.060.CS.WDC
External dimensions W x D x H	mm	1193 x 615 x 1953	599 x 615 x 1953
Internal dimensions W x D x H	mm	1050 x 522 x 1647	450 x 522 x 1647
Weight without interior equip.	kg	424	265
Maximum load	kg	600	600
Entry width transport base	mm	1120	526
Entry height transport base	mm	90	90

Main features

-  Store batteries safely
-  Integrated smoke detector for fire detection
-  Accessible transport base

ION-LINE

Model	Body colour	Door colour	Order No.
IO90.195.120.CS.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41426-047
IO90.195.060.CS.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41419-047

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
IO90.195.120.CS.WDC		
3x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	EU version 41386 UK version 41386
4x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41387 41387
5x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41388 41388
6x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41389 41389
IO90.195.060.CS.WDC		
3x perforated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	EU version 41362 UK version 41362
4x perforated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	41363 41363
5x perforated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	41364 41364
6x perforated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	41365 41365

Accessories	For cabinet width	Order No.
Perforated shelf	1200	EU version 41293 UK version 41293
Perforated shelf	600	41313
Module for remote signalling	alarm transmission to a mobile of your choice	38765 39221

Service	Order No.
Service (UK only)	SER90016

ION-LINE | ION-CHARGE-90

Safe and approved passive and active storage of lithium-ion batteries in working areas
Cabinet models for customer-specific safety requirements – how you can benefit from the advantages of the ION-CHARGE-90:

1

Your battery charging process is safe – thanks to high-quality protective contact outlets in the fire safe interior of the cabinet.



2

Smoke detectors detect even incipient fires and can transmit alarms to the building control system quickly.



3

If your work area is not staffed, the standard potential-free switching contact forwards alarms immediately to a connected control centre. Optional remote signalling module available.



4

The under bench cabinet can be flexibly integrated under worktops due to a height of 78 cm.



5

Fire-safe locked compartments reduce the spread of fires inside the cabinet. You can remove the locked compartments individually in case of a fire.



6

Protect yourself from unauthorised access and theft with the lockable drawer.



7

The temperature sensor detects fires in each locked compartment. This allows alarms to be indicated and forwarded immediately via LED and acoustic/visual alarms.



8

The integrated transport base and optional rollers allow for easy transport and immediate evacuation to a safe location outdoors in case of damage.





- **Fire resistance of 90 minutes** (type 90), type-tested in accordance with EN 14470-1



- **Fire resistance of 90 minutes from inside to outside** in accordance with EN 1363-1



- **CE compliant**



- **Excellent products with special manufacturer warranty**
- Extended **manufacturer warranty of up to 10 years** in combination with an asecos service tariff



ION-LINE | ION-CHARGE-90



Model IO90.078.059.057.U9.S
Order No. 39354-247-39489






Model IO90.078.059.057.U9.S
Order No. 39354-247-39489

Picture shows castors optional

Technical data		EU version	UK version
External dimensions W x D x H	mm	593 x 574 x 780	593 x 574 x 780
Internal dimensions W x D x H	mm	470 x 452 x 582	470 x 452 x 582
Weight without interior equip.	kg	130	130
Maximum load	kg	300	300
Entry width transport base	mm	548	548
Entry height transport base	mm	95	95
Total power rating of the power socket strips			
Fuse	A	16	13
Power max.	kW	3,68	2,99
Number of socket outlets per strip	piece	4 *	4 *

* 4 power sockets available per drawer.

Main features

-  Safe storage and charging of batteries
-  Perfect for installation under work surfaces
-  Optionally available with castor set for the transport base



MOBILE

Optionally available castors with integrated locking mechanism, easy moving of the cabinet

Model	Body colour	Door colour	Order No.
IO90.078.059.057U9.S	anthracite grey RAL 7016	gentian blue RAL 5010	39354-247
Interior equipment packages (can only be ordered in combination with the cabinet)			Order No.
1x drawer (load capacity = 50 kg) incl. socket strip, 1x second level drawer (load capacity = 25 kg) incl. socket strip		powder-coated sheet steel	EU version UK version 39368 39489
Accessories			Order No.
Castor set for plinth		can only be ordered in combination with cabinet	EU version UK version 39374 39374
Module for remote signalling		alarm transmission to a mobile of your choice	38765 39221
Service			Order No.
Service (UK only)			SER90019






Model IO90.195.060.L8.WDC

Order No. 39409-047

Technical data		EU version	UK version
External dimensions W x D x H	mm	599 x 615 x 1953	599 x 615 x 1953
Internal dimensions W x D x H	mm	450 x 522 x 1647	450 x 522 x 1647
Weight without interior equip.	kg	265	265
Maximum load	kg	600	600
Entry width transport base	mm	526	526
Entry height transport base	mm	90	90
Total power rating of the power socket strips			
Fuse	A	16	13
Power max.	kW	3,68	2,99
Number of socket outlets per strip	piece	2 *	2 *

* Each locker has access to a minimum of 2 power sockets.


Main features

-  Safe storage and charging of batteries
-  Fire-protected lockers
-  Temperature sensor for fire detection

ION-LINE

FIRE RESISTANT LOCKERS

prevent the spread of fire throughout the entire interior of the cabinet by removing them individually and protect stored batteries from flame spread.

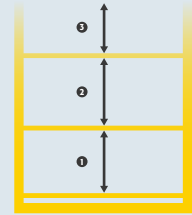


Model	Body colour	Door colour	Order No.
IO90.195.060.L8.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	39409-047
Interior equipment packages (can only be ordered in combination with the cabinet) Material			Order No.
5x fire-protected lockers incl. outlet strips, 1x bottom collecting sump (V=2.0L), 1x, 1x, 6x, 6x			EU version UK version 39413 41119
Accessories			Order No.
Module for remote signalling			EU version UK version alarm transmission to a mobile of your choice 38765 39221
Service			Order No.
Service (UK only)			SER90018

Storage heights

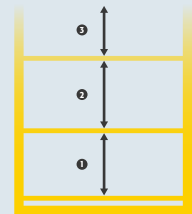
IO90.195.120.065.WDAC

Shelves/number	6	5	4	3
Distance ⑥ (mm)	250			
Distance ⑤ (mm)	245	300		
Distance ④ (mm)	245	295	380	
Distance ③ (mm)	245	295	375	515
Distance ② (mm)	245	295	375	510
Distance ① (mm)	245	295	375	510



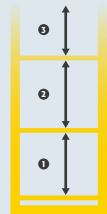
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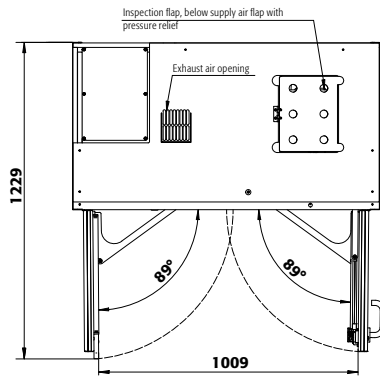
Shelves/number	6	5	4	3
Distance ⑥ (mm)	240			
Distance ⑤ (mm)	235	305		
Distance ④ (mm)	235	300	435	
Distance ③ (mm)	235	300	360	500
Distance ② (mm)	235	300	360	520
Distance ① (mm)	235	300	360	520



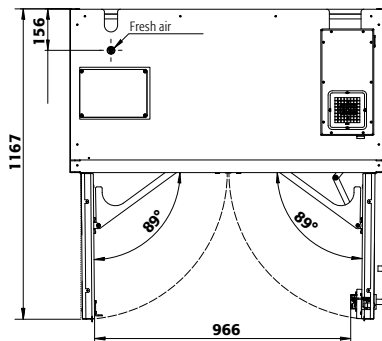
IO90.195.60.XX.WDC

Shelves/number	6	5	4	3
Distance ⑥ (mm)	240			
Distance ⑤ (mm)	235	305		
Distance ④ (mm)	235	300	435	
Distance ③ (mm)	235	300	360	500
Distance ② (mm)	235	300	360	520
Distance ① (mm)	235	300	360	520

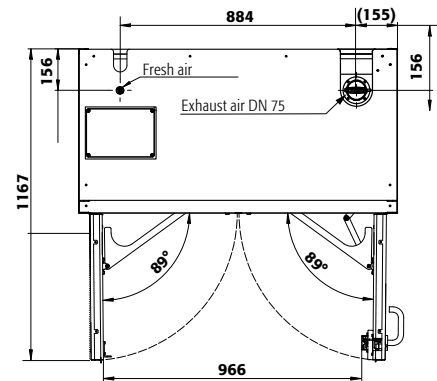




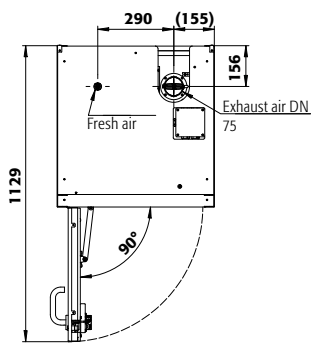
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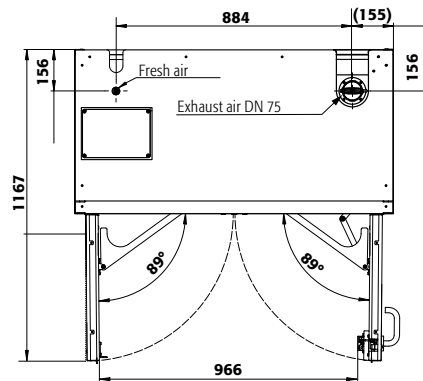
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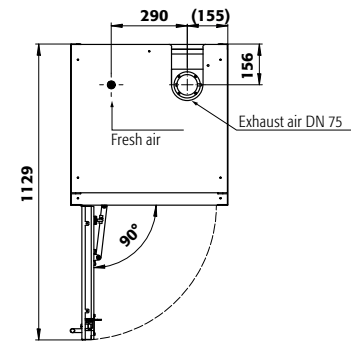
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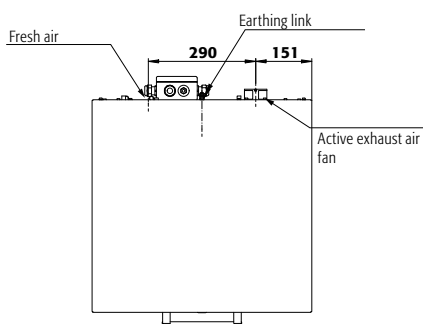
IO90.195.060.CC.WDC
IO90.195.060.CS.WDC



IO90.195.120.CS.WDC



IO90.195.060.L8.WDC



IO90.078.059.057.U9.S

Service and maintenance

DO NOT **COMPROMISE** WHEN IT COMES TO **SAFETY**

Make yourself secure - safety for employees, work equipment and buildings

Have your safety systems, such as safety cabinets, serviced regularly, properly and in accordance with manufacturer's guidelines from the asecos experts. This will ensure greater safety in your workrooms or workshop. If you do not maintain and service your safety equipment, or do so improperly or inadequately, you may lose your insurance cover as the operator in the event of damage. This is often associated with costs, e.g. caused by a plant shutdown or closure.

Therefore, focus on safety. More security for your staff or employees, your buildings and everything inside them. Our ION-LINE safety storage cabinets are categorised as fire protection and therefore safety systems.

According to "Health and Safety at Work Act 1974 section 2 (d)", these must be properly maintained and checked for functionality at regular intervals by a competent person. We support you in this!

Benefit from our asecos original service to maintain the full functionality of your safety storage cabinets and your insurance cover. Our service technicians are qualified persons as defined by TRBS 1203 and offer you legal security. Contact us now!

Our proposal (for UK only) - tailored to your individual needs:



BASICPlus



The regular inspection according to EC-directives 89/391/EEC

Inspection

- Visual inspection including ventilation test
- Error analysis

Legal Certainty Inspectorate

- Control of stored goods, legal marking, checking the documentation, installation conditions

Immediate maintenance

- Measures to delay wear and tear
- Functional test
- Feedback of maintenance work

Immediate repair

- Replacement of parts to a value of £5 are included in the service.
- Immediate repair in 98% of cases for manufactured products

Signed entry in the asecos service booklet / inspection sticker / inspection record





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Safe storage of hazardous materials

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Safe storage of hazardous materials

SERVICE

asecos Ltd.
www.asecos.co.uk
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RISKS AND HAZARDS

Gases are indispensable in all industrial sectors, in testing and welding technology, but also in medicine and research. Therefore, it is important to know the specific hazards for all activities involving gases, and thus also for the storage of gases to take them into account and to consider them in the risk assessment.

When flammable gases, but also other gases, are stored in pressurised gas containers – e.g. in pressurised gas cylinders, pressurised gas cartridges and aerosol dispensers – in workrooms, the risk of fire and explosion must be assessed as part of the risk assessment.

The primary protection goal is to protect all containers for gases under pressure from excessive heating and the associated danger of bursting due to pressure build-up in the event of a fire. Furthermore, it must be assessed whether and to what extent explosion protection measures may be required in addition to fire protection.

To realise these protection goals, safety storage cabinets with a defined fire resistance type according to the state of the art have proven themselves for years.

What are the particular hazards of gases under pressure?

1. Gases that are heavier than air behave similarly to liquids and can flow and spread into shafts and/or cellars when they escape.
2. Cryogenic or liquefied gases can cause cold burns or injuries.
Note: Wear specified personal protective equipment when handling these gases.
3. Gas containers under pressure can burst when heated above the permissible temperature ($> 70\text{ °C}$).

What are the consequences and effects?

- ››› Pressure increase of the gas
- ››› The cylinder valve or the steel jacket of the gas cylinder can no longer withstand the increased internal pressure
- ››› Leakage of contents (flammable, oxidising, toxic, etc.)
- ››› Gas escapes uncontrollably, with high pressure and recoil, the gas cylinder can whirl around unmanageably
- ››› Uncontrolled detonation due to bursting of the cylinder at a temperature of approx. 310 °C
- ››› When bursting due to fire or damage, gas cylinders can become destructive projectiles that can travel several hundred metres

➤ **Highest danger for all persons in the building and for rescue forces, who have to enter the building!**

Why must attention be paid to securing pressurised gas cylinders against falling over when storing them?

Compressed gas cylinders can, especially the screwed-in cylinder valve, be mechanically damaged.

Possible consequences:

- ››› **Unnoticed gas leakage** – even a quite „harmless“ gas such as nitrogen can displace oxygen from the room and lead to **asphyxiation**.
- ››› Flammable gases can cause **explosive gas mixtures** in cellar rooms, for example, which can be very easily ignited, e.g. by activating a light switch.
- ››› If the **cylinder valve is torn off**, the pressurised gas cylinder, driven by the highly pressurised gas, flies **off/around**.



Mechanical hazards



Health hazards



Fire and explosion hazards



Legal basis / information

The following apply to the storage of compressed gases, among others:

- »» Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR)
- »» Health and Safety Executive (HSE)
- »» HSE – Drum and Cylinder Handling Guidelines
- »» UKLPG – Storage of Full and Empty LPG Cylinders and Cartridges – Code of Practice No. 7
- »» NERC – Guidance to Safe Storage and Installation of Gas Cylinders

Definition

A „gas“ or „gaseous substance“ is one of the three states of matter, the other two being „solid“ and „liquid“.

Gases, general definition

Gases are materials or material mixtures/preparations that

- »» have a vapour pressure of over 300 kPa (3 bar) at 50°C or
- »» are completely gaseous at 20°C and a standard pressure of 101.3 kPa (1 bar).

Pressurised gases

Pressurised gases are gases that

- »» are contained in a vessel under at least 200 kPa pressure (overpressure) or more,
- »» are liquefied or are liquefied and frozen.

This includes compressed, liquefied, dissolved and frozen liquefied gases.



The term critical temperature is important in this context. The critical temperature is the temperature above which a pure gas can no longer be liquefied depending on its pressure, or can no longer change its state of matter.

Gases under pressure are divided into four groups according to the GHS/CLP Regulation Annex 1, taking into account the state of aggregation and the critical temperature T_k (critical temperature T_k above which a pure gas can no longer be liquefied).

Compressed gas	A gas that is gaseous when filled under pressure at 50°C, including all gases with a critical temperature ≤ -50 °C.
Liquefied gas	A gas that is partially liquefied when filled under pressure at temperatures above -50 °C. We can differentiate between: <ul style="list-style-type: none"> ▪ Gas liquefied under high pressure – a gas whose critical temperature is between -50 °C and +65 °C ▪ Gas liquefied under low pressure – a gas whose critical temperature is over +65 °C
Frozen, liquefied gas	A gas that is partially liquefied when filled upon gas extraction due to its low temperature
Dissolved gas	A gas that is dissolved under pressure in a liquid solvent when packaged

Gases are divided into four major groups according to their properties:

Properties	Examples
Flammable gases	Hydrogen, Methane, Ethane, Acetylene, Propane, Butane, Special forming and Test gases
Oxidising gases	Oxygen /Air nitrogen oxide mixtures (laughing gas)
Toxic and corrosive gases	Arsenic, Phosphine, Carbon monoxide, Ammonia, Hydrogen sulphide, Sulphur dioxide, Chlorine
Inert gases	Nitrogen , Inert gases, Shielding gases (welding)



Compressed gases

How can gases be identified?

Gases and gas mixtures can endanger users due to their chemical properties, and gases and gas mixtures that are under pressure can cause compressed gas cylinders to burst. Most gases are invisible, and some are even odourless. Hazardous materials labelling requirements are uniform worldwide under the GHS system, which is implemented in Europe by the CLP Regulation.

Compressed gases are labelled with the pictogram GHS 04 (gas cylinder) and with the H statements H220, H221, H270, H280 or H281 depending on their chemical properties.



The following are also labelled:

- >>> Aerosols in aerosol packaging with H222 or H223
- >>> Gases in compressed gas cartridges with H220 or H221

Labelling gas cylinders

The hazardous materials sticker on the shoulder of the container is conclusive.

The most important information is stated first: The colour of the label on the gas cylinder is not always correct; instead, it is an initial aid and is meant to be visible from far away. Only the hazardous material sticker on the shoulder of the cylinder is conclusive.

Where can I find the label on the gas cylinder?

The colour designation is placed on the shoulder of the cylinder. The cylinder jacket also bears the colour designation. Medical gases are the only exception, for which the cylinder is white. If the cylinder contains a gas mixture, then both colours are coded alternatively as rings.

Basic colours for gas cylinders or cylinder bodies

The basic gas cylinder colours indicated here are not mandatory; however, in practice the industry has by and large agreed to use the following classifications:

- >>> High-purity medical gases (see also, for example, our entry on oxygen):
White cylinder body
- >>> Industrial gases: Grey cylinder body or same colour as the cylinder shoulder (but not white)
- >>> No specialised gases stipulated



Liquefied gas cylinders (such as propane or butane gas) are red, grey, and other colours. However, these colours do not designate the content and its properties, but rather who owns the cylinders: In this case, red (or green) indicate a returnable cylinder, grey indicates an owned cylinder (these can vary in other European countries). However, there are also some differences between these cylinders.

General rule for labelling gas cylinders

There is a general colour label for all gases that are not specifically stipulated. This indicates that the content poses a primary hazard. The previous possible division into two for gas mixtures does not apply here.

The following colours are used for general labelling of gas cylinders:

- >>> Yellow: poisonous and/or corrosive (to human tissues) – such as Ammonia, Chloride, Carbon monoxide
- >>> Red: flammable – Ethylene, Methane, Hydrogen
- >>> Light blue: oxidising – Laughing gas mixtures
- >>> Bright green: asphyxiating (inert) – Techn. compressed air, Krypton, Neon, Xenon



- | | |
|--|--|
| 1 Hazards and precautions | 5 EC number for single substances, may be omitted for gas mixtures |
| 2 Hazard diamonds | 6 UN number and gas name |
| 3 Gas manufacturer | 7 Gas manufacturer notes |
| 4 Information on gas mixture or purity | 8 Contact information |
| | 9 Signal word |

Please observe local legislation and regulations.



STORAGE OF COMPRESSED GASES

Storage is keeping materials for future use. It includes the provision for transport, if the transport does not take place within 24 hours after provision or on the following working day. If the working day is a Saturday, the period ends upon expiry of the next working day.

The quantities of hazardous materials provided must be limited to the quantity required for that day/shift; all quantities beyond these must be stored. If small quantities are required regularly, the smallest standard container size can be provided.

If activities such as decanting, removal, or maintenance work are carried out in the storeroom, a separate risk assessment should be carried out.



If you want to store a larger quantity than required for that day directly at your workplace, you need a fire resistant safety storage cabinet.

Storing cylinders together

Materials are **stored together** if different materials are located in

- >>> one storage section,
- >>> one container,
- >>> one **safety storage cabinet** or
- >>> one collecting chamber.

Can gases be stored together with other hazardous materials?

If there are no other properties that take priority and must be taken into consideration according to the process, then gases formally fall under storage class 2 A. If gases are stored together with other hazardous materials, then certain regulations and values apply, and must be observed above a total quantity of 400 kg (maximum 200 kg for each storage class).

Gases may only be stored together with

- >>> non-flammable, corrosive materials (storage class 8B) and
- >>> non-flammable liquids (storage class 12),
- >>> other flammable and non-flammable materials (storage class 13).

What is important to note when storing different gases together?

Generally, no restrictions apply when gases are stored together outdoors.

The following may be stored together in the same storage area:

	Flammable	Oxidising	Highly poisonous	Inert
Flammable	Any	Up to 150 cylinders, plus any number of cylinders containing inert gases	Max. 15 cylinders containing highly poisonous gases	Any
Oxidising	Up to 150 cylinders, plus any number of cylinders containing inert gases	Any	Max. 15 cylinders containing highly poisonous gases	Any
Highly poisonous	Max. 15 cylinders containing highly poisonous gases	Max. 15 cylinders containing highly poisonous gases	Any	Any
Inert	Any	Any	Any	Any

A distance of at least two metres must be maintained between compressed gas cylinders containing flammable and oxidising gases.



RESPONSIBLE STORAGE IN SAFETY STORAGE CABINETS

What is the purpose of storing compressed gas cylinders in safety storage cabinets?

By storing gas bottles in safety cabinets with a defined fire resistance, the basic safety requirements for fire load minimisation are fulfilled. Safety cabinets must be designed, installed, operated and maintained in a way that guarantees the safety of employees and third parties.

What are the advantages of storing in safety storage cabinets?

Safety storage cabinets with a fire resistance of 90 minutes are considered a separate fire compartment. Thus, storage in these cabinets offers the following advantages:

- >>> Fire and explosion protection requirements are met
- >>> Easy and flexible installation in workrooms
- >>> Reduction of in-house transport of hazardous substances and the associated risks
- >>> Installation in corridors is possible after consultation with the local fire brigade, provided the width of the escape route is observed

What types of gas cylinder storage cabinets are there?

There are two types:

1. Fire-resistant safety storage cabinets for compressed gas cylinders:

Safety storage cabinets in accordance with EN 14470-2 for the storage of pressurised gas cylinders, pressurised gas cartridges and aerosol packages.

For more information, see p. 254

2. Single-walled safety storage cabinets for compressed gas cylinders:

For the storage of compressed gas cylinders located outdoors.

For more information, see p. 268

How are safety storage cabinets classified?

Safety storage cabinets are classified according to their fire resistance in a fire chamber test as follows:

Measured time for temperature rise in the fire chamber test	Type of safety storage cabinet	
	Safety storage cabinet for flammables* EN 11470-1	Safety storage cabinets for compressed gas cylinders** EN 14470-2
30 minutes	Type 30	G 30
60 minutes	Type 60	G 60
90 minutes	Type 90	G 90

State of the art

* Flammable liquids: Measured time for temperature rise by 180 K, measured inside the cabinet

** Compressed gas cylinders: Measured time for the temperature rise by 50 K, measured on the surface of the gas cylinder valve holder

Safety storage cabinets with a certified fire resistance of 90 minutes are designated as state of the art. As a result, they are considered a separate fire compartment or storage section.



How can the fire resistance of safety cabinets be recognised and what other markings are there?

The fire resistance in minutes must be stated on the front of the safety storage cabinet.

The number on the sticker indicates the resistance in minutes. (e.g. G90 or G30).

In addition, the following warning and prohibition symbols, among others, are also required:

- »» Prohibition sign P003 „No open flame; fire, open source of ignition and smoking prohibited“
- »» Warning sign W029 „Warning of gas cylinders“



What safety requirements must be met when installing safety storage cabinets for compressed gas cylinders with various fire resistance classes?

The safety demands on the quality of safety storage cabinets for gas cylinders are considered to be fulfilled if they have a fire resistance of at least 90 minutes and meet further requirements according to EN 14470-2. They can be installed in unlimited numbers.

In principle, the storage of compressed gas cylinders in safety storage cabinets with a fire resistance of 90 minutes (state of the art) should be aimed for.

What prohibitions on combined storage must be observed in safety storage cabinets for gases?

In safety storage cabinets, compressed gas containers of different gases may be stored and connected for draining at the same time. There is no restriction on the number of containers. In this regard, when flammable and oxidising gases (e.g. acetylene and oxygen) are stored in a safety cabinet, the otherwise mandatory safety distance does not have to be observed.

What is the total volume of compressed gas cylinders allowed in the cabinets?

The maximum total volume is 220 litres – compressed gas cylinders for purging gases are included in this specification.

Is it possible to extract gases from pressurised gas cylinders that are stored in a safety storage cabinet?

Yes, piping and electrical wiring may be led outside of safety cabinets. This is usually done through the cabinet ceiling and does not require any further fire protection measures. This means that gases can be withdrawn from the pressurised gas cylinders via appropriate pressure reducers and pipelines. When installing the pipes, it is essential to follow the manufacturer's instructions and to ensure that they are installed professionally and in accordance with the standards.

What and how many pipelines and cables may be installed out of the asecos gas cylinder cabinet without losing the type G90 classification?

In general, the following applies according to the requirements of EN 14470-2:

The number of lead-throughs must be kept to a minimum, and unused lead-throughs and drill holes must be sealed off according to manufacturer specifications.

The following applies to installing pipelines (for operational compressed gas cylinders):

- »» Maximum of three pipe lead-through per gas cylinder (gas lines).
- »» The three lead-throughs may each have a diameter not exceeding 10 mm

The following applies to installing electrical lines / cables (if applicable):

- »» Max. two lead-throughs per gas cylinder (electrical lines)
- »» The two lead-throughs may each have a diameter not exceeding 20 mm

What material may be used for the piping?

Basically, pipes made of copper or stainless steel can be used.

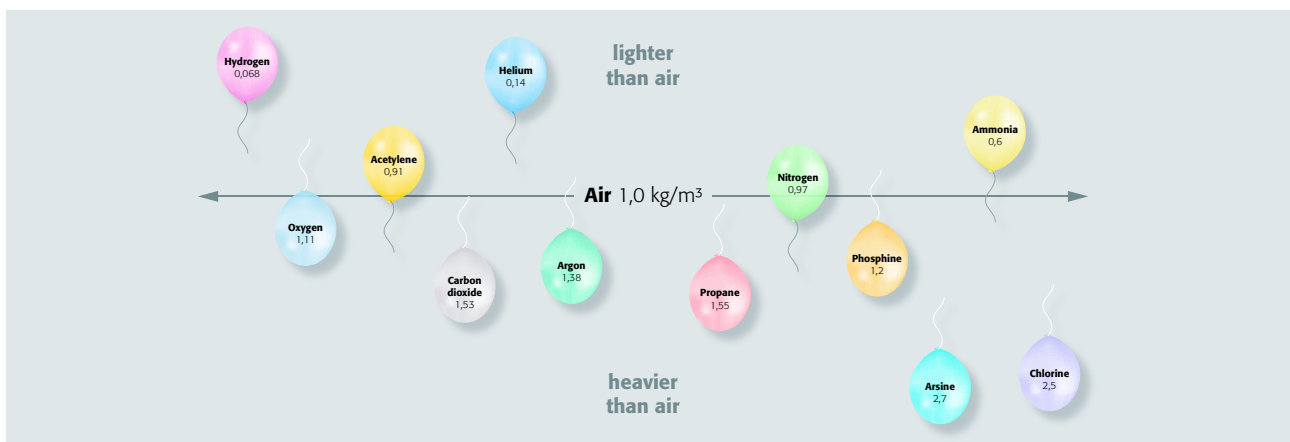
Note: According to EN 14470-2, it is recommended that the pipes are made of stainless steel or a material with similar thermal conductivity (maintaining the fire resistance determined and specified during testing).



Compressed gases

SHOULD SAFETY STORAGE CABINETS IN ACCORDANCE WITH EN 14470-2 BE CONNECTED TO TECHNICAL VENTILATION?

Yes – Gases may form hazardous explosive atmospheres or mixtures harmful to health. Potential hazards can be prevented by continuous technical ventilation of the safety storage cabinet. Reaching the lower explosion limit can be prevented for oxidising and flammable gases by a 10-fold air exchange/hour. Acutely toxic gases must be extracted at an air exchange rate of 120 air exchanges/hour to prevent the operational exposure limit from being reached. Gases are heavier or lighter than air, depending on their type. Therefore, a uniform distribution in the interior can be assumed.

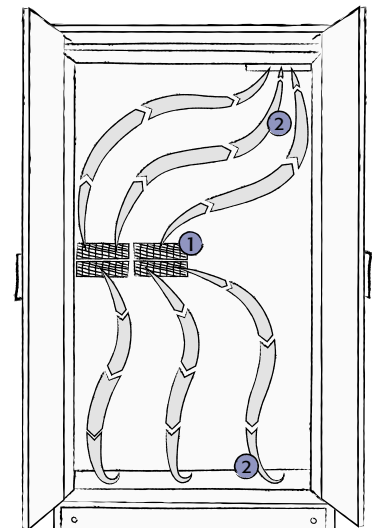


The effective extraction in the lower and upper area of the cabinet or storage room is therefore extremely important.

With their special construction, asecos safety storage cabinets are ready for the connection (NW 75) and operation of a technical ventilation system. The **supply air** in the rear wall of the centre of the cabinet (1) and **exhaust air** in the upper and lower cabinet areas (2) successfully eliminate escaping gases. These are led to the technical exhaust air duct via the cabinet ceiling. There, the exhaust air can be connected to an on-site exhaust air system (exhaust air ducted to a safe location outdoors).

YOUR ADVANTAGES:

- » No health hazards for the employees
- » No or less EX zones in and around the safety storage cabinet required
- » Occupational exposure limits (OEL) are safely complied with



asecos G90 compressed gas cylinder cabinets meet the following requirements:

- » The pressure drop must not exceed 150 Pa, even in conjunction with a 120-fold air exchange in the cabinet.
- » The ventilation system must create a negative pressure in the cabinet.
- » Ventilation shall be provided in the top and bottom of the cabinet.
- » The exhaust air flow must ensure that gases escaping in small quantities are extracted.
- » The pressure drop and air exchange rate have been chosen to ensure efficient purging.

asecos G90 compressed gas cylinder cabinets achieve a high efficiency of over 85 %. The entire interior of the safety storage cabinets is ventilated – escaping gas leaks in the cabinet that are hazardous to health are quickly and effectively extracted.

The consequences of incorrect, untested information on pressure loss values: Only when the system is put into operation on site, the user will notice that the required 120 air changes per hour are not achieved. The use of toxic gases in such cabinets is therefore fundamentally not permissible.

Please observe local legislation and regulations.



Safety cabinets for the storage of compressed gas cylinders must always be operated with technical ventilation. The following applies:

- »» Oxidising gases (labelled H270, H 271 or H 272) or flammable gases (labelled H220 or H221) may only be stored in safety cabinets that have at least a 10-fold air exchange/hour.
- »» Acutely toxic gases of categories 1 to 3 (labelled H330 or H331) may only be stored in safety cabinets which have at least a 120-fold air exchange/hour.

As part of the risk assessment, danger zones must be defined around compressed gas cylinders for flammable and acutely toxic gases. The danger zones are spatial areas in which the release of gases cannot be ruled out as a result of leaks at connections and fittings or as a result of operating errors. In the case of storage in the cabinet, the entire safety storage cabinet and the ventilation ducts must be provided as hazardous areas. Hazardous areas in which hazardous explosive atmospheres may occur are potentially explosive atmospheres. If a hazardous area is identified around compressed gas cylinders for flammable gases, it must be classified as zone 2.

The following zoning must be carried out in the safety cabinet for compressed gas bottles with flammable gases:

Conditions	Zone classification
a) Storage and keeping ready of compressed gas cylinders in an unopened state or checked for technical leakage after use	No zone
b) Safety storage cabinet with 120-fold air exchange in a technically ventilated room No dangerous explosive atmosphere during the exchange of pressurised gas cylinders	No zone, but ignition source avoidance during bottle change
c) as b), but <ul style="list-style-type: none">▪ hazardous explosive atmosphere not excluded when changing cylinders▪ no special seals	Zone 2 inside the cabinet (avoid ignition sources when changing bottles)
d) as b), but <ul style="list-style-type: none">▪ no special seals (see EX-RL 1.2.1.1.2)▪ safety storage cabinet with 10-fold air exchange only	
e) as b), but <ul style="list-style-type: none">▪ installation of the safety storage cabinet in a room with natural ventilation	

*Health protection through compliance with workplace limits must always be ensured when handling hazardous substances. Dangerous substances can be safely transferred and processed in hazardous material workplaces.
Further information can be found in the chapter „Hazardous material workplaces“ from page 336.*





GAS SUPPLIES

– CENTRALISED VS. DECENTRALISED

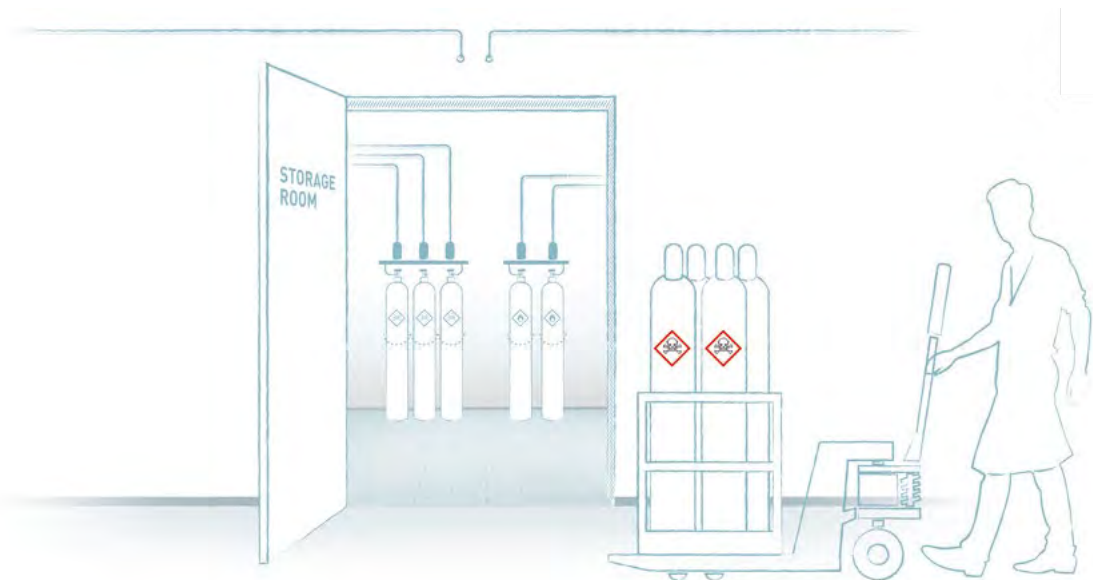
Gas supply systems, particularly for specialised gases, pose unique requirements for components used in storage, distribution, regulation and monitoring.

Central gas supply

- ››› Can generally be differentiated into outdoor installation and installation in a warehouse
- ››› Required gas cylinders are placed centrally in one location
- ››› Permanently installed pipeline systems are used to deliver gases to the point of extraction

Before constructing new, or expanding existing gas supply systems, the advantages and disadvantages of different potential supply concepts must be considered:

- ››› System user / operator – analysis of application
- ››› Planner / architect – Assessment of the construction project in consideration of safety technology and monetary aspects



ADVANTAGES

- ››› No unprotected placement of gas cylinders in the direct vicinity of work stations
- ››› Exclusion of different sources of danger due to improper handling and storage of gas cylinders caused by tipping over, leaking poisonous, flammable or toxic gases
- ››› No high-pressure fittings in work areas
- ››› Cylinder exchanges are coordinated centrally by authorised personnel
- ››› Time required for cylinder exchanges reduced to a fraction
- ››› Efficient dispensing of compressed gas cylinders
- ››› Lower costs due to savings for cylinder rent
- ››› Improved, controlled monitoring of gas supplies through a central monitoring / controlling system (decentralised also available)
- ››› Extraction points only at the individual work stations – more active work space available

DISADVANTAGES

High costs due to

- ››› Long pipelines / pipeline network to extraction points in the building / work area
- ››› Stainless steel lines, primarily when using corrosive gases
- ››› Significant increase in flushing gas consumption
- ››› Maintenance and testing required for pipelines
- ››› Rooms in the building can only be used for storing / placing gas cylinders
- ››› Rooms must be separated with at least flame-retardant partitions (walls and doors)
- ››› No flammable liquids can be stored in the room



Decentralised gas supply

Consists of small, individual supply units which are set up directly at or in the immediate vicinity of the consumption point (generally inside buildings).

A central gas supply set up in a warehouse differs only in where the gas cylinders are stored. An internal storage room is required, with at least flame-retardant partitions.

G90 safety storage cabinets allow for the decentralised use of compressed gas cylinders with a comparable level of protection (type class G90) as for safety storage cabinets (type 90) for flammable liquids.



Decentralised delivery and extraction of compressed gases in safety storage cabinets in accordance with EN 14470-2

ADVANTAGES

- ››› Is often the less expensive option
- ››› Reduces the required pipeline length to a minimum
- ››› Greatly reduces the consumption of flushing gases
- ››› Offers good flexibility for on site use with a small pipeline network
- ››› Easy to retrofit in existing buildings (without available central storage rooms)
- ››› Guarantees legal security for all areas of responsibility
- ››› Flexible, easy to adjust to increasing requirements
- ››› Ideal for buildings, for instance, where structural modifications cannot be made because they are historically preserved
- ››› Ideal for temporary rentals of research facilities and temporary requirements
- ››› Simple control / process / gas shortage display monitoring



Please observe local legislation and regulations.



Which approval documents and certificates should be available from the manufacturer of a safety storage cabinet?

To ensure high quality and functionality in a worst case scenario, a safety storage cabinet that conforms to the standards should have the following approval documents:

- »» Fire test report from an independent materials testing institute as proof of fire resistance
- »» GS certificate as proof of compliance with ProdSG §21 Para. 1 on the basis of ZLS EK5/AK4 and proof of conformity in accordance with EN 16121 and EN 16122 (requirements and test procedures for safety, strength, durability and stability)
- »» EC declaration of conformity as proof of compliance with product-relevant EU directives and national standards



The GS mark – An important addition to fire protection:

The GS test certificate of an independent test body proves that the safety storage cabinet is in compliance with the requirements of the Equipment and Product Safety Act (§7 Para. 1) with respect to the guarantee of safety and health.

- »» EN 14470-2 primarily specifies the criteria for fire protection, testing and documentation.
- »» The tests for the GS mark adopt, specify and increase these requirements.
- »» EN 16121 & EN 16122 – Furthermore, asecos G90 gas cylinder cabinets are tested in accordance with the testing requirements of EN 16121:2013+A1:2017 (Non-domestic storage furniture – Requirements for safety, strength, durability and stability) and EN 16122:2012 (Domestic and non-domestic storage furniture – Test methods for the determination of strength, durability and stability) based on the highest test level 2.

What is tested, and how are tests conducted?

- »» Long-term function – one key aspect is tests for long-term functioning of the safety storage cabinets and thus for the safety of the user.
- »» Endurance test – mechanical components (such as doors) are subject to an endurance test under max. load.
- »» Opened and closed 80,000 x – the requirements of EN 16121/16122 are only fulfilled in accordance with testing level 2 if the cabinet can be opened/closed 80,000 times without damage.
- »» Fire test – Temperature measuring stations must be additionally installed during the fire test in the furnaces and on the cabinet base (important e.g. for cabinet designs with a roll-under base).
- »» In case of tests in accordance with EN 14470-2, the connection between the compressed gas cylinder and the stainless steel tube used in the fire area will be designed as a direct connection, i.e. without a pressure regulator and without a spiral coil.
- »» PAK-free – Verification that all operating components of the cabinet are free from toxic/carcinogenic/polycyclic aromatic hydrocarbons (PAH).



asecos safety storage cabinets in accordance with EN 14470-2 for the safe storage of compressed gas cylinders in buildings and workrooms – ...

- » are considered to be a storage section (storage section = part of a warehouse that is separated from other storage sections or neighbouring rooms).
- » are special facilities for storing and holding and emptying compressed gas cylinders in working spaces.
- » enable compressed gas cylinders of different gases to be stored in the cabinet or to be connected or made available for emptying. Compliance with protective distances can be omitted.
- » ensure the highest possible protection of the compressed gas cylinders against critical heating (max. temperature increase on the surface of the cylinder valve holder of 50 K up to 90 minutes).



asecos safety storage cabinets in accordance with EN 14470-2 offer you:



Legal certainty in procurement and use

- » Standardised, tested product with complete approval documentation: Fire test certificate, GS certification with conformity according to the requirements of EN 16121/16122, EC Declaration of Conformity



Long-term safety and risk minimisation

- » Fulfilment of the elementary requirements of fire and explosion protection
- » Minimisation of unprotected storage
- » Reduction of fire loads in the building
- » Protection of employees from fire and explosion hazards as well as harmful vapours (technical ventilation)



Saving time and money

- » In principle, the safety cabinet is immediately ready for operation after delivery and installation. No further approval procedures or individual permits are necessary.
- » There is no need for complex modifications, as the cabinet can be easily integrated into the local conditions.
- » Reduces the required pipeline length to a minimum.
- » Greatly reduces the consumption of flushing gases.
- » Simple control / process / gas shortage display monitoring.



Flexibility

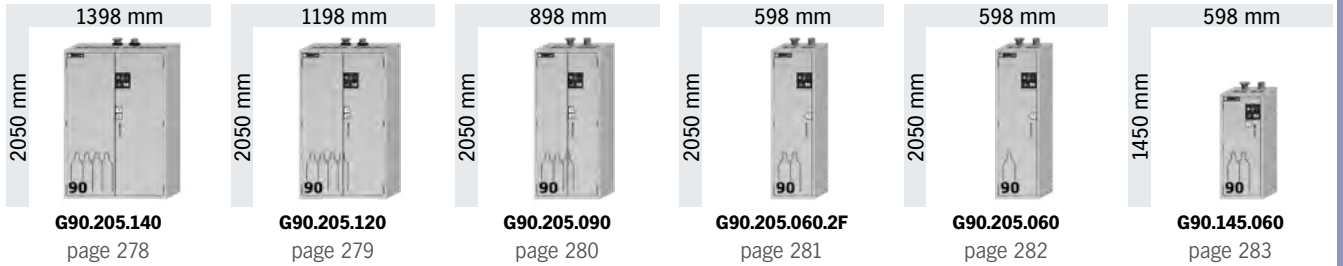
- » Flexible choice of storage locations within buildings - the cabinet simply moves to the new location.
- » Offers the option – as it is fire-resistant – to be installed in corridors if, for example, this does not restrict the width of the escape route (in consultation with the fire brigade or fire protection authorities).
- » High flexibility for local use with small pipe network.
- » Simple retrofitting in existing buildings (without existing central storage rooms).
- » Thanks to a large product portfolio with a multitude of models and interior equipments, the safety storage cabinet can be optimally adapted to your applications and bottle sizes.



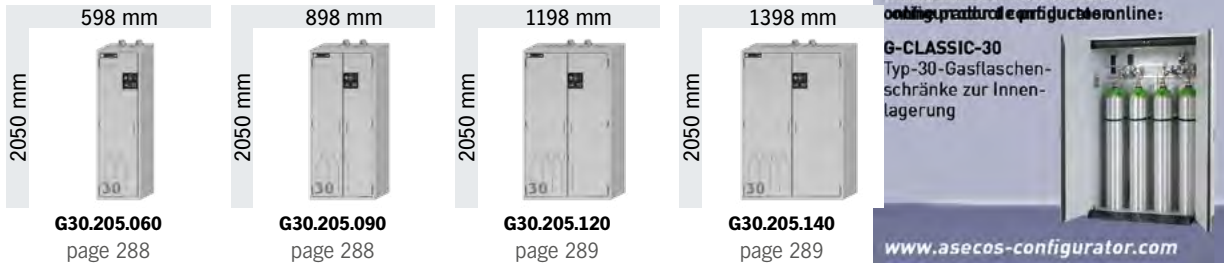
Overview

Gas cylinder cabinets for indoor storage

G-ULTIMATE-90 | model class with wing doors

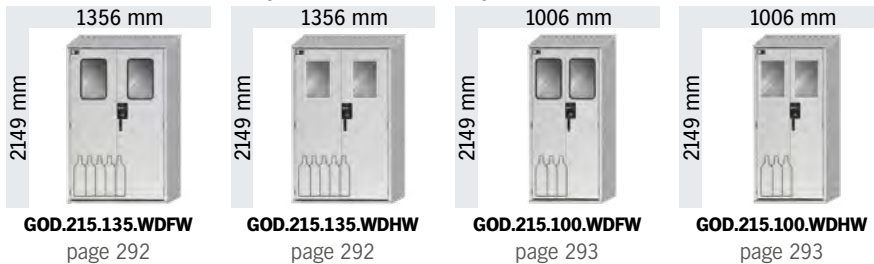


G-CLASSIC-30 | model class with wing doors

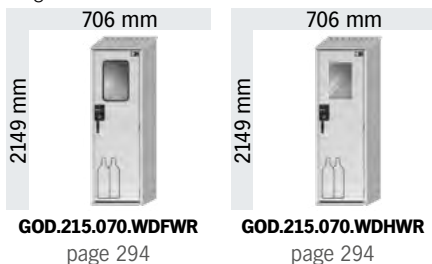


Gas cylinder cabinets for outdoor storage

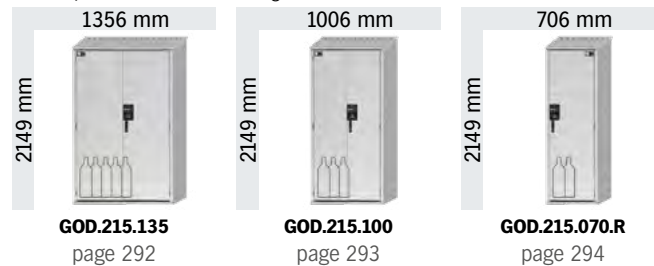
G-OD | model class with wing doors with fixed or hinged window



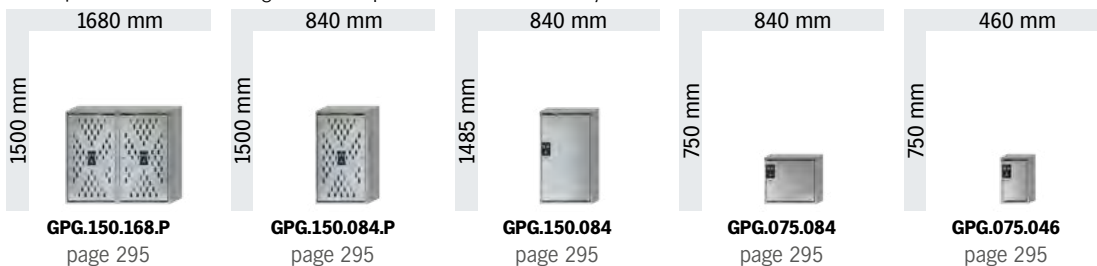
G-OD | model class with wing doors with fixed or hinged window



G-OD | model class with wing doors



G-PG | model class with wing doors and perforated or closed body



G-LINE | G-ULTIMATE-90

Compressed gas cylinder cabinets for the storage of pressurised gas cylinders in working areas

1

Ventilation

Even ventilation and extraction of the entire cabinet interior. Integrated air ducts ready for connection (DN 75) to a technical exhaust system. The potential formation of explosive atmospheres or harmful vapours is safely prevented.



2

Cylinder lock

Door lockable with cylinder lock, the cabinets can be integrated by the customer into an existing locking system.



3

Pipe lead-throughs

Large area for flexible lead-through possibilities on the top of the cabinet, no additional insulation of piping necessary



4

Space-saving talent

Unique on the market: gas cylinder cabinet with a 60 cm width for the storage of two 50 litre steel gas cylinders or two 40 litre aluminium gas cylinders with a diameter of 230 mm



5

Easy monitoring

Optionally, the wing door of model G90.205.060.2F can be equipped with a glass cutout. The level and pressure of the stored cylinders can be conveniently monitored without opening the door.



6

The standard interior equipment

Includes mounting rails, cylinder retainers with matching tension belts and a rolling ramp. The integrated, manually operated rolling ramp facilitates the storage and removal of compressed gas cylinders. With the comfort interior, the rolling ramp is conveniently operated by a lever.



7

Shelves

In different versions, can also be installed at an angle for the storage of small gas cylinders





- **Fire resistance 90 minutes** (type G90), type-tested in accordance with EN 14470-2



- **GS-tested** (document EK5/AK4 09-10, ProdSG)



- Conformity in accordance with the requirements of **EN 16121** and **16122**
- Requirements and test methods for safety, strength, durability and stability.



- **Excellent products with special manufacturer warranty**
- Extended **manufacturer warranty of up to 5 years** in combination with the asecos BASICPlus tariff
- Further information from page 512



G-LINE | G-ULTIMATE-90



Model G90.205.140
Order No. 30641-001-30642



Model G90.205.140
Order No. 30641-005-30642

Technical data

External dimensions W x D x H	mm	1398 x 615 x 2050
Internal dimensions W x D x H	mm	1245 x 400 x 1858
Weight without interior equip.	kg	690
Air change 10 times	m ³ /h	9
Diff. pressure (air change 10 times EK5/AK4)	Pa	5
Air change 120 times	m ³ /h	111
Diff. pressure (air change 120 times EK5/AK4)	Pa	143

Main features



Up to 4 x 50-litre gas cylinders



Maximum fire resistance of 90 minutes



Optionally available with comfort interior equipment

You will find technical drawings for these cabinet models from page 296




LATERAL CYLINDER RETAINER

Practical accessory for storing additional 10-litre gas cylinders. Optionally available in a tool-free height-adjustable version.

Model	Information / equipment	Colour	Order No.
G90.205.140	without interior equipment	light grey RAL 7035 laboratory white (sim. RAL 9016)	30641-001 30641-005

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
1x standard interior equipment gas cylinders	sheet steel galvanised and powder coated	30642
1x comfort interior equipment gas cylinders	sheet steel galvanised and powder coated	30643
4x shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	40181
5x shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	40182

Interior equipment	Material	W x D x H (mm)	 1)	Order No.
Shelf	powder-coated sheet steel RAL 7035	1235 x 241 x 25*	75.00	30644
Shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	1235 x 372 x 28*	75.00	30399
Grid as storage level	steel galvanised	1233 x 280 x 30	180.00	30645
Cylinder retainer on the sidewall	powder-coated sheet steel RAL 7035	350 x 175 x 175	75.00	30647
Cylinder retainer on the sidewall height adjustable without tools	powder-coated sheet steel RAL 7035	350 x 175 x 175	75.00	30648
Cylinder retainer for storage of small bottles (2 and 3 litres) on inclined shelves	powder-coated sheet steel RAL 7035			30847

Accessories	Order No.
Ermeto-fitting	5981
Preparation for lead-through with female thread	30649
Tension belt	13181
Gas cylinder trolley, 1x 50-litre gas cylinders (ø 230 mm) or 2x 10-litre gas cylinders (ø 140 mm)	26294
Document holder DIN A5	30793
Door arresting device for one hinged door	29818

* usable storage space W x D (mm) / 1) load capacity (kg)



Model G90.205.120
Order No. 30657-001-30658






Model G90.205.120
Order No. 30657-005-30658

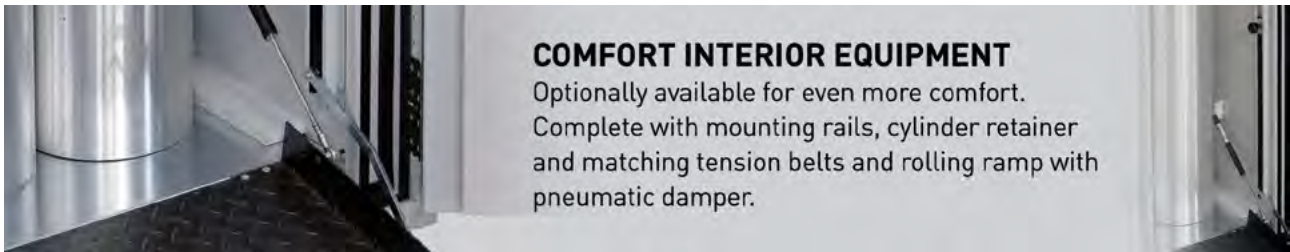
Technical data

External dimensions W x D x H	mm	1198 x 615 x 2050
Internal dimensions W x D x H	mm	1045 x 400 x 1858
Weight without interior equip.	kg	610
Air change 10 times	m ³ /h	8
Diff. pressure (air change 10 times EK5/AK4)	Pa	5
Air change 120 times	m ³ /h	93
Diff. pressure (air change 120 times EK5/AK4)	Pa	103

Main features

-  Up to 4 x 50-litre gas cylinders
-  Maximum fire resistance of 90 minutes
-  Optionally available with comfort interior equipment

You will find technical drawings for these cabinet models from page 296




COMFORT INTERIOR EQUIPMENT

Optionally available for even more comfort. Complete with mounting rails, cylinder retainer and matching tension belts and rolling ramp with pneumatic damper.

Model	Information / equipment	Colour	Order No.
G90.205.120	without interior equipment	light grey RAL 7035	30657-001
		laboratory white (sim. RAL 9016)	30657-005

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
1x standard interior equipment gas cylinders	sheet steel galvanised and powder coated	30658
1x comfort interior equipment gas cylinders	sheet steel galvanised and powder coated	30659
4x shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	40179
5x shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	40180

Interior equipment	Material	W x D x H (mm)	 ¹⁾	Order No.
Shelf	powder-coated sheet steel RAL 7035	1035 x 241 x 25*	75.00	30660
Shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	1040 x 432 x 30*	75.00	30771
Grid as storage level	steel galvanised	1033 x 280 x 30	180.00	30661
Cylinder retainer on the sidewall	powder-coated sheet steel RAL 7035	350 x 175 x 175	75.00	30647
Cylinder retainer on the sidewall height adjustable without tools	powder-coated sheet steel RAL 7035	350 x 175 x 175	75.00	30648
Cylinder retainer for storage of small bottles (2 and 3 litres) on inclined shelves	powder-coated sheet steel RAL 7035			30847

Accessories	Order No.
Ermeto-fitting	5981
Preparation for lead-through with female thread	30649
Tension belt	13181
Gas cylinder trolley, 1x 50-litre gas cylinders (ø 230 mm) or 2x 10-litre gas cylinders (ø 140 mm)	26294
Document holder DIN A5	30793
Door arresting device for one hinged door	29818

* usable storage space W x D (mm) / 1) load capacity (kg)

G-LINE | G-ULTIMATE-90



Model G90.205.090
Order No. 30667-001-30668



Model G90.205.090
Order No. 30667-005-30669

Technical data

External dimensions W x D x H	mm	898 x 615 x 2050
Internal dimensions W x D x H	mm	745 x 425 x 1858
Weight without interior equip.	kg	490
Air change 10 times	m ³ /h	6
Diff. pressure (air change 10 times EK5/AK4)	Pa	5
Air change 120 times	m ³ /h	66
Diff. pressure (air change 120 times EK5/AK4)	Pa	147

Main features



Up to 3 x 50-litre gas cylinders

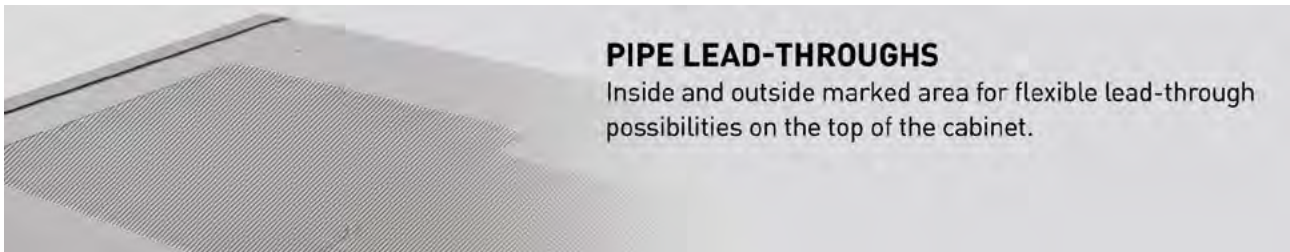


Maximum fire resistance of 90 minutes



Optionally available with comfort interior equipment

You will find technical drawings for these cabinet models from page 296




PIPE LEAD-THROUGHS

Inside and outside marked area for flexible lead-through possibilities on the top of the cabinet.

Model	Information / equipment	Colour	Order No.
G90.205.090	without interior equipment	light grey RAL 7035 laboratory white (sim. RAL 9016)	30667-001 30667-005

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
1x standard interior equipment gas cylinders	sheet steel galvanised and powder coated	30668
1x comfort interior equipment gas cylinders	sheet steel galvanised and powder coated	30669
4x shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	40177
5x shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	40178

Interior equipment	Material	W x D x H (mm)	 ¹⁾	Order No.
Shelf	powder-coated sheet steel RAL 7035	735 x 241 x 25*	75.00	30670
Shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	740 x 432 x 30*	75.00	30787
Grid as storage level	steel galvanised	733 x 280 x 30	180.00	30671
Cylinder retainer on the sidewall	powder-coated sheet steel RAL 7035	350 x 175 x 175	75.00	30647
Cylinder retainer on the sidewall height adjustable without tools	powder-coated sheet steel RAL 7035	350 x 175 x 175	75.00	30648
Cylinder retainer for storage of small bottles (2 and 3 litres) on inclined shelves	powder-coated sheet steel RAL 7035			30847

Accessories	Order No.
Ermeto-fitting	5981
Preparation for lead-through with female thread	30649
Tension belt	13181
Gas cylinder trolley, 1x 50-litre gas cylinders (ø 230 mm) or 2x 10-litre gas cylinders (ø 140 mm)	26294
Document holder DIN A5	30793
Door arresting device for one hinged door	29818

* usable storage space W x D (mm) / 1) load capacity (kg)



Model G90.205.060.2F
Order No. 30678-001-30682






Model G90.205.060.2F
Order No. 30678-884-30682

Technical data

External dimensions W x D x H	mm	598 x 615 x 2050
Internal dimensions W x D x H	mm	477 x 425 x 1858
Weight without interior equip.	kg	365
Air change 10 times	m ³ /h	4
Diff. pressure (air change 10 times EK5/AK4)	Pa	5
Air change 120 times	m ³ /h	45
Diff. pressure (air change 120 times EK5/AK4)	Pa	76

Main features

-  Up to 2 x 50-litre gas cylinders
-  Maximum fire resistance of 90 minutes
-  Optionally available with glass cut-out

You will find technical drawings for these cabinet models from page 296

F90 GLASS-FRONTED WING DOOR

Comfortable control over fill level and pressure.



Model	Information / equipment	Colour	Order No.
G90.205.060.2F	without interior equipment, left hinged, for 2x 50 liter cylinders	light grey RAL 7035	30678-001
		laboratory white (sim. RAL 9016)	30678-005
		with F90 glass window, light grey RAL 7035	30678-884
		with F90 glass window, laboratory white (sim. RAL 9016)	30678-885
G90.205.060.2FR	without interior equipment, right hinged, for 2x 50 liter cylinders	light grey RAL 7035	30679-001
		laboratory white (sim. RAL 9016)	30679-005

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
1x standard interior equipment gas cylinders	sheet steel galvanised and powder coated	30682

Accessories	Order No.
Ermeto-fitting	5981
Preparation for lead-through with female thread	30649
Gas cylinder trolley, 1x 50-litre gas cylinders (ø 230 mm) or 2x 10-litre gas cylinders (ø 140 mm)	26294
Document holder DIN A5	30793
Door arresting device for one hinged door	29818

G-LINE | G-ULTIMATE-90



Model G90.205.060
Order No. 30676-001-30680






Model G90.205.060
Order No. 30676-001-30681

Technical data

External dimensions W x D x H	mm	598 x 615 x 2050
Internal dimensions W x D x H	mm	445 x 425 x 1858
Weight without interior equip.	kg	365
Air change 10 times	m ³ /h	4
Diff. pressure (air change 10 times EK5/AK4)	Pa	5
Air change 120 times	m ³ /h	42
Diff. pressure (air change 120 times EK5/AK4)	Pa	85

Main features

-  For 1 x 50-litre gas cylinder
-  Maximum fire resistance of 90 minutes
-  Optionally available with comfort interior equipment

You will find technical drawings for these cabinet models from page 296




LATERAL CYLINDER RETAINER

Practical accessory for storing additional 10-litre gas cylinders. Optionally available in a tool-free height-adjustable version.

Model	Information / equipment	Colour	Order No.
G90.205.060	without interior equipment, left hinged	light grey RAL 7035	30676-001
		laboratory white (sim. RAL 9016)	30676-005
G90.205.060.R	without interior equipment, right hinged	light grey RAL 7035	30677-001
		laboratory white (sim. RAL 9016)	30677-005

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
1x standard interior equipment gas cylinders	sheet steel galvanised and powder coated	30680
1x comfort interior equipment gas cylinders	sheet steel galvanised and powder coated	30681
4x shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	40175
5x shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	40176

Interior equipment	Material	W x D x H (mm)	 ¹⁾	Order No.
Shelf	powder-coated sheet steel RAL 7035	435 x 241 x 25*	75.00	30683
Shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	440 x 432 x 30*	75.00	30788
Cylinder retainer on the sidewall	powder-coated sheet steel RAL 7035	350 x 175 x 175	75.00	30647
Cylinder retainer on the sidewall height adjustable without tools	powder-coated sheet steel RAL 7035	350 x 175 x 175	75.00	30648
Cylinder retainer for storage of small bottles (2 and 3 litres) on inclined shelves	powder-coated sheet steel RAL 7035			30847

Accessories	Order No.
Ermeto-fitting	5981
Preparation for lead-through with female thread	30649
Tension belt	13181
Gas cylinder trolley, 1x 50-litre gas cylinders (ø 230 mm) or 2x 10-litre gas cylinders (ø 140 mm)	26294
Document holder DIN A5	30793
Door arresting device for one hinged door	29818

* usable storage space W x D (mm) / 1) load capacity (kg)



Model G90.145.060
Order No. 30689-001-30691



Model G90.145.060
Order No. 30689-005-30691

Technical data

External dimensions W x D x H	mm	598 x 615 x 1450
Internal dimensions W x D x H	mm	445 x 425 x 1246
Weight without interior equip.	kg	278
Air change 10 times	m ³ /h	2
Diff. pressure (air change 10 times EK5/AK4)	Pa	5
Air change 120 times	m ³ /h	28
Diff. pressure (air change 120 times EK5/AK4)	Pa	42

Main features



Up to 2 x 10-litre gas cylinders



Maximum fire resistance of 90 minutes

You will find technical drawings for these cabinet models from page 296




ROLLING RAMP

For easy, ergonomic storage and removal of compressed gas cylinders.

Model	Information / equipment	Colour	Order No.
G90.145.060	without interior equipment, left hinged	light grey RAL 7035	30689-001
		laboratory white (sim. RAL 9016)	30689-005
G90.145.060.R	without interior equipment, right hinged	light grey RAL 7035	30690-001
		laboratory white (sim. RAL 9016)	30690-005

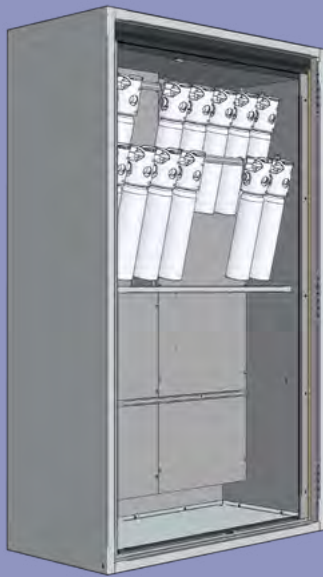
Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
1x standard interior equipment gas cylinders	sheet steel galvanised and powder coated	30691

Interior equipment	Material	W x D x H (mm)	 ¹⁾	Order No.
Shelf inclined for storage of small bottles	powder-coated sheet steel RAL 7035	440 x 432 x 30*	75.00	30788
Shelf	powder-coated sheet steel RAL 7035	435 x 241 x 25*	75.00	30683

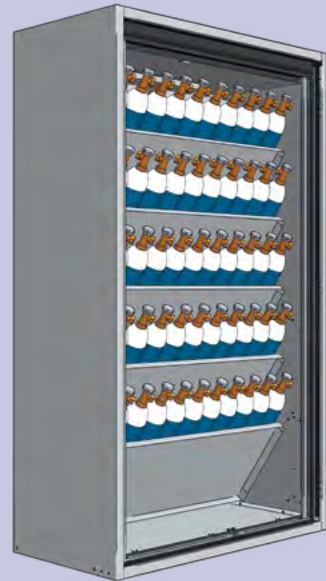
Accessories	Order No.
Ermeto-fitting	5981
Preparation for lead-through with female thread	30649
Tension belt	13181
Document holder DIN A5	30793
Door arresting device for one hinged door	29818

* usable storage space W x D (mm) / 1) load capacity (kg)

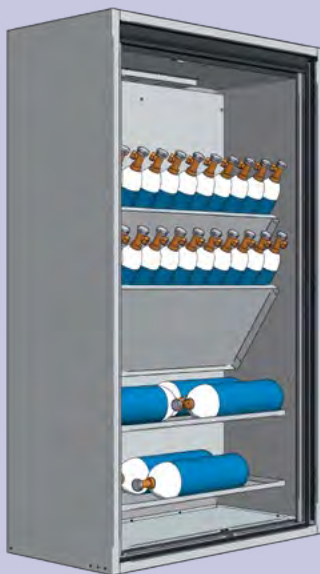
MODEL CLASS G-ULTIMATE-90 — SPECIAL SOLUTIONS



Suspended storage
of special gas cylinders, taking model G90.205.120 as an example



Storage of 2-litre cylinders (max. number)
taking model G90.205.120 as an example, with 5 inclined shelves (Order No. 40180)



Combined storage
of 3 and 5-litre cylinders, taking model G90.205.120 as an example, with 2 inclined shelves (Order No. 30771) and 2 shelves (Order No. 30660)



Combined storage
of 2 and 10-litre cylinders, taking model G90.205.060.R as an example, and 1 inclined shelf with confort interior equipment (Order No. 30681) and 1 inclined shelf (Order No. 30788)

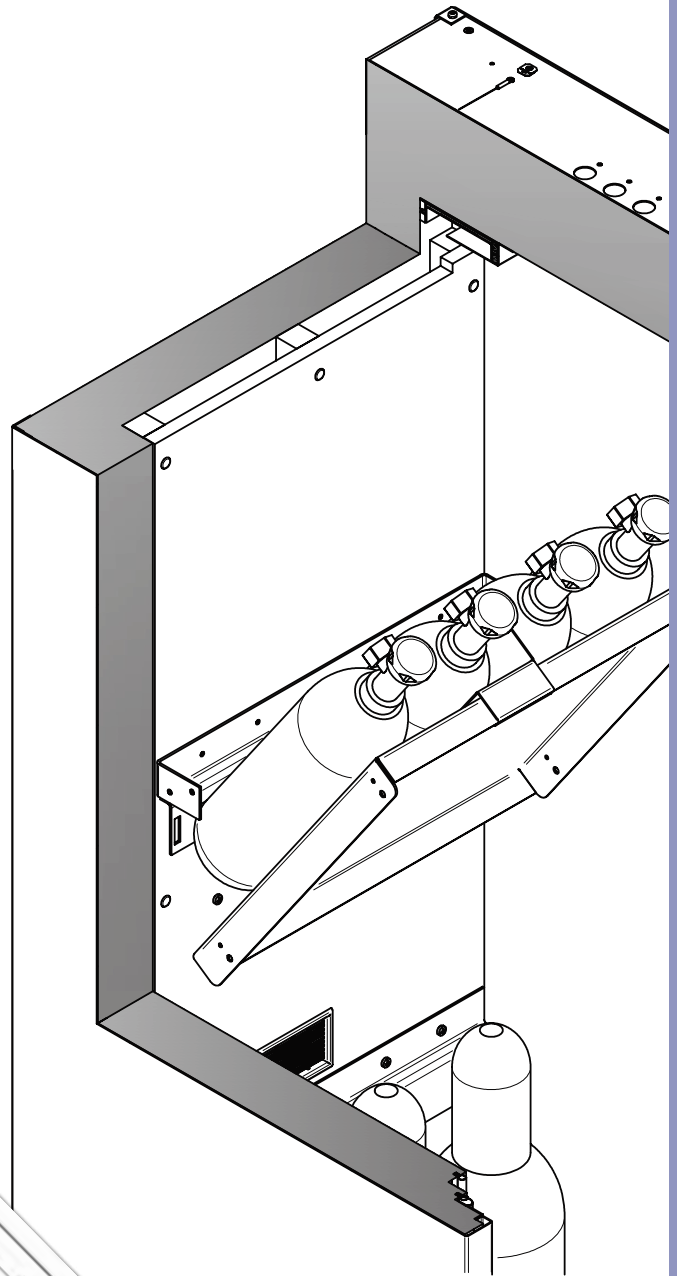
SPECIAL INTERIOR CONFIGURATIONS

Apart from the standard or comfort interior equipment, many more individual interior configurations are possible upon request.

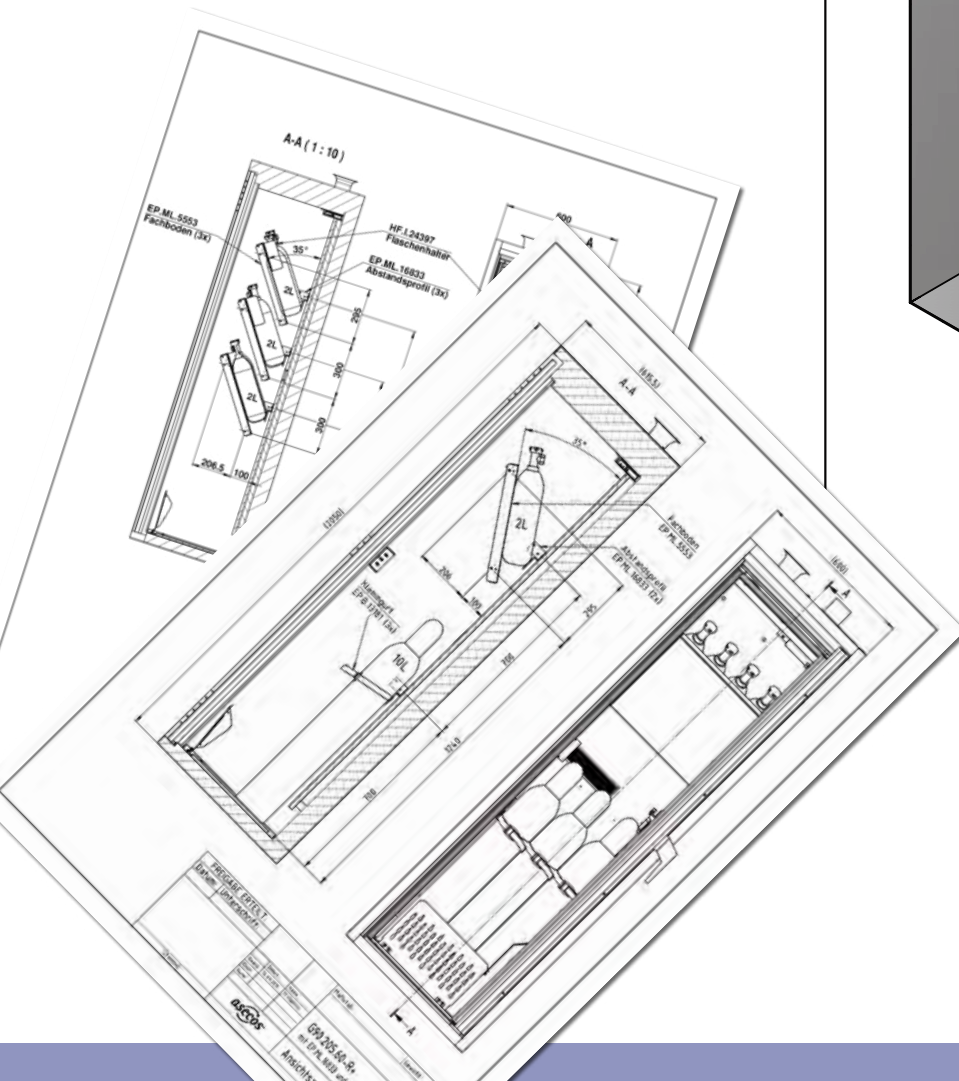
For accommodating small gas cylinders (e.g. 2- or 3-litres) the configuration can be tailored to the cylinder size on multiple storage levels. The storage levels can be installed at an angle depending on the length of the cylinders and the inner rear wall will be equipped with shock absorbers. Each cylinder is inserted from the front, resting on the respective storage level. Additional fixations are available to prevent the cylinders from slipping.

Additional means of mounting (e.g. suspended) can be realized for special cylinders such as medical Oxygen.

For any special configurations, please ask your local dealer or contact the asecos team directly. We will be pleased to assist you. Once your individual requirements are clear you will receive a detailed technical drawing to make sure you get precisely what you need.



G-LINE



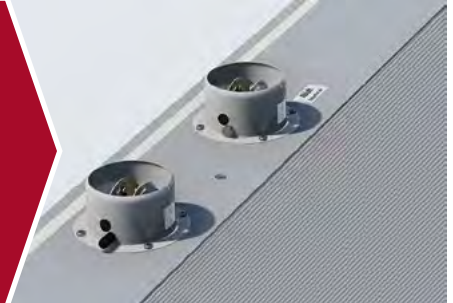
G-LINE | G-CLASSIC-30

Compressed gas cylinder cabinets for the storage of pressurised gas cylinders in working areas

1

Proven technology

G-CLASSIC-30 gas cylinder cabinets convince due to proven technology



2

Cylinder lock

Door lockable with cylinder lock, the cabinets can be integrated by the customer into an existing locking system.



3

Pipe lead-throughs

Large area for flexible lead-through possibilities on the top of the cabinet, no additional insulation of piping necessary



4

Standard interior equipment

Complete with mounting rails, rolling ramp and cylinder retainer



5

Shelves

In different versions





- **Fire resistance 30 minutes** (type G30), type-tested in accordance with EN 14470-2



- Conformity in accordance with the requirements of **EN 16121** and **16122**
- Requirements and test methods for safety, strength, durability and stability.



- **Excellent products with special manufacturer warranty**
- Extended **manufacturer warranty of up to 5 years** in combination with the asecos BASICPlus tariff
- Further information from page 512



G-LINE | G-CLASSIC-30



Model G30.205.140
Order No. 30651-001-30652



Model G30.205.120
Order No. 30663-001-30664

Technical data

		G30.205.120	G30.205.140
External dimensions W x D x H	mm	1198 x 616 x 2050	1398 x 616 x 2050
Internal dimensions W x D x H	mm	1094 x 479 x 1874	1294 x 479 x 1874
Weight without interior equip.	kg	485	545
Air change 10 times	m ³ /h	10	12
Diff. pressure (air change 10 times)	Pa	5	5
Air change 120 times	m ³ /h	118	139
Diff. pressure (air change 120 times)	Pa	103	143

Main features



Up to 4 x 50-litre gas cylinders




Fire resistance of 30 minutes

You will find technical drawings for these cabinet models from page 296

Model	Information / equipment	Colour	Order No.
G30.205.140	without interior equipment	light grey RAL 7035	30651-001
G30.205.120	without interior equipment	light grey RAL 7035	30663-001

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
G30.205.140 1x standard interior equipment gas cylinders	sheet steel galvanised and powder coated	30652
G30.205.120 1x standard interior equipment gas cylinders	sheet steel galvanised and powder coated	30664

Interior equipment	Material	W x D x H (mm)	 ¹⁾	Order No.
G30.205.140				
Shelf	powder-coated sheet steel RAL 7035	1281 x 331 x 25*	75.00	30653
Grid as storage level	steel galvanized	1233 x 280 x 30	180.00	30654
G30.205.120				
Shelf	powder-coated sheet steel RAL 7035	1081 x 331 x 25*	75.00	30665
Grid as storage level	steel galvanized	1033 x 280 x 30	180.00	30666

Accessories	Order No.
Ermeto-fitting	5981
Preparation for lead-through with female thread	30649
Tension belt	13181
Gas cylinder trolley, 1x 50-litre gas cylinders (ø 230 mm) or 2x 10-litre gas cylinders (ø 140 mm)	26294
Cylinder retainer on the sidewall	30647
Cylinder retainer on the sidewall height adjustable without tools	30648

* usable storage space W x D (mm) / 1) load capacity (kg)



Model G30.205.090
Order No. 30673-001-30674





Model G30.205.060
Order No. 30685-001-30687

Technical data

		G30.205.060	G30.205.090
External dimensions W x D x H	mm	598 x 616 x 2050	898 x 616 x 2050
Internal dimensions W x D x H	mm	494 x 479 x 1874	794 x 479 x 1874
Weight without interior equip.	kg	290	340
Air change 10 times	m ³ /h	4	7
Diff. pressure (air change 10 times)	Pa	5	5
Air change 120 times	m ³ /h	53	86
Diff. pressure (air change 120 times)	Pa	85	147


Main features

-  Up to 3 x 50-litre gas cylinders
-  Fire resistance of 30 minutes

You will find technical drawings for these cabinet models from page 296

Model	Information / equipment	Colour	Order No.
G30.205.090	without interior equipment	light grey RAL 7035	30673-001
G30.205.060	without interior equipment, left hinged	light grey RAL 7035	30685-001
G30.205.060.R	without interior equipment, right hinged	light grey RAL 7035	30686-001

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
G30.205.090		
1x standard interior equipment gas cylinders	sheet steel galvanised and powder coated	30674
G30.205.060(.R)		
1x standard interior equipment gas cylinders	sheet steel galvanised and powder coated	30687

Interior equipment	Material	W x D x H (mm)	 ¹⁾	Order No.
G30.205.090				
Shelf	powder-coated sheet steel RAL 7035	782 x 337 x 25*	75.00	30675
Grid as storage level	steel galvanized	733 x 280 x 30	180.00	30789
G30.205.060(.R)				
Shelf	powder-coated sheet steel RAL 7035	482 x 337 x 25*	75.00	30688

Accessories	Order No.
Ermeto-fitting	5981
Preparation for lead-through with female thread	30649
Tension belt	13181
Gas cylinder trolley, 1x 50-litre gas cylinders (ø 230 mm) or 2x 10-litre gas cylinders (ø 140 mm)	26294
Cylinder retainer on the sidewall	30647
Cylinder retainer on the sidewall height adjustable without tools	30648

* usable storage space W x D (mm) / 1) load capacity (kg)

G-LINE | G-OD

Safety storage cabinets for the storage of pressurised gas cylinders in outdoor areas according to TRGS 510

1

Robust, high-quality construction

Perfect for the installation in outside areas, completely galvanised sheet steel construction with plastic laminated structured surface, stainless steel base, sloping roof with supernatant allows water to drain



2

Standard interior equipment

Complete with mounting rails, cylinder retainer and matching tension belts



3

Door variations

Wings doors with large opening angle. Doors also available with fixed or hinged window – all fittings at a glance, even with doors closed.



4

Optionally available rolling ramp

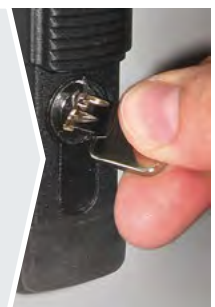
Simple rolling in and removal of the gas cylinders



5

Cylinder lock

Door lockable with cylinder lock, the cabinets can be integrated by the customer into an existing locking system.



6

Lateral cylinder retainer

For two 10-litre cylinders, height-adjustable version (no tools required)





- Conformity in accordance with the requirements of **EN 16121** and **16122**
- Requirements and test methods for safety, strength, durability and stability.



G-LINE



Model GOD.215.135.WDHW
Order No. 30731-015
(rolling ramp optional)






Model GOD.215.135
Order No. 30692-015
(rolling ramp optional)

Technical data

External dimensions W x D x H	mm	1356 x 400 x 2149
Internal dimensions W x D x H	mm	1345 x 370 x 2070
Weight without interior equip.	kg	138
Air change 10 times	m ³ /h	10

Main features

-  Up to 5 x 50-litre gas cylinders
-  Safe outdoor storage
-  Optionally with fixed or hinged window


You will find technical drawings for these cabinet models from page 296

LOCKING

Solid 3-point locking with lockable turning lever handle (optionally available with profile cylinder lock, the cabinets can be integrated into an existing locking system on site).



Model	Information / equipment	Colour	Order No.
GOD.215.135	with standard interior equipment for 5 x 50 litre gas cylinders	light grey RAL 7035	30692-015
GOD.215.135.WDFW	with fixed window and standard interior equipment for 5 x 50 litre gas cylinders	light grey RAL 7035	30730-015
GOD.215.135.WDHW	with hinged window and standard interior equipment for 5 x 50 litre gas cylinders	light grey RAL 7035	30731-015

Interior equipment	Material	W x D x H (mm)	 ¹⁾	Order No.
Mounting kit				30792
Extraction air outlet with flange	PP			30791
Shelf	powder-coated sheet steel RAL 7035	1340 x 340 x 35	75.00	30694
Document holder DIN A5	polystyrene			30793
Handle version turning lever with profile cylinder locking	polyamide			30790
Rolling ramp	sheet steel painted black	1200 x 220 x 50		30693
Cylinder retainer on the sidewall height adjustable without tools	powder-coated sheet steel RAL 7035	312 x 183 x 450*	50.00	30695

* usable storage space W x D (mm) / 1) load capacity (kg)



Model GOD.215.100
Order No. 30697-015






Model GOD.215.100.WDFW
Order No. 30732-015

Technical data

External dimensions W x D x H
Internal dimensions W x D x H
Weight without interior equip.
Air change **10 times**

mm	1006 x 400 x 2149
mm	995 x 370 x 2070
kg	113
m ³ /h	8

Main features

-  Up to 3 x 50-litre gas cylinders
-  Safe outdoor storage
-  Optionally with fixed or hinged window

You will find technical drawings for these cabinet models from page 296


3D

Discover our products in the virtual **3D showroom:**

www.asecos-showroom.com



Model	Information / equipment	Colour	Order No.
GOD.215.100	with standard interior equipment for 5 x 50 litre gas cylinders	light grey RAL 7035	30697-015
GOD.215.100.WDFW	with fixed window and standard interior equipment for 5 x 50 litre gas cylinders	light grey RAL 7035	30732-015
GOD.215.100.WDHW	with hinged window and standard interior equipment for 5 x 50 litre gas cylinders	light grey RAL 7035	30735-015

Interior equipment	Material	W x D x H (mm)	 ¹⁾	Order No.
Mounting kit				30792
Extraction air outlet with flange	PP			30791
Shelf	powder-coated sheet steel RAL 7035	990 x 340 x 35	75.00	30699
Document holder DIN A5	polystyrene			30793
Handle version turning lever with profile cylinder locking	polyamide			30790
Rolling ramp	sheet steel painted black	704 x 225 x 60		30698
Cylinder retainer on the sidewall height adjustable without tools	powder-coated sheet steel RAL 7035	312 x 183 x 450*	50.00	30695

* usable storage space W x D (mm) / 1) load capacity (kg)



Model GOD.215.070.R
Order No. 30701-015






Model GOD.215.070.WDFWR
Order No. 30752-015

Technical data

External dimensions W x D x H	mm	706 x 400 x 2149
Internal dimensions W x D x H	mm	695 x 370 x 2070
Weight without interior equip.	kg	85
Air change 10 times	m ³ /h	5

Main features

-  Up to 2 x 50-litre gas cylinders
-  Safe outdoor storage
-  Optionally with fixed or hinged window


You will find technical drawings for these cabinet models from page 296



ARE YOU LOOKING FOR AN APPROPRIATE STORAGE SOLUTION FOR HAZARDOUS MATERIALS?

Our optimised online product configurator helps you, step by step, to find the suitable safety storage cabinet. Take the test: www.asecos-configurator.com

Model	Information / equipment	Colour	Order No.
GOD.215.070.R	with standard interior equipment for 5 x 50 litre gas cylinders	light grey RAL 7035	30701-015
GOD.215.070.WDFWR	with fixed window and standard interior equipment for 5 x 50 litre gas cylinders	light grey RAL 7035	30752-015
GOD.215.070.WDHW	with hinged window and standard interior equipment for 5 x 50 litre gas cylinders	light grey RAL 7035	30753-015

Interior equipment	Material	W x D x H (mm)	 ¹⁾	Order No.
Mounting kit				30792
Extraction air outlet with flange	PP			30791
Shelf	powder-coated sheet steel	690 x 340 x 35	75.00	30703
Document holder DIN A5	polystyrene			30793
Handle version turning lever with profile cylinder locking	polyamide			30795
Rolling ramp	sheet steel painted black	440 x 225 x 60		30702
Cylinder retainer on the sidewall height adjustable without tools	powder-coated sheet steel RAL 7035	312 x 183 x 450*	50.00	30695

* usable storage space W x D (mm) / 1) load capacity (kg)

Safe and approved outdoor storage of liquid gases

Function / construction:

- **Robust:** high protection against corrosion due to hot-dip galvanised sheet steel (including rear wall and bottom grid), disassembled delivery
- **No unauthorised use:** doors lockable with cylinder locking (integrated in the turning handle) or square lock
- **Ventilation:** natural ventilation through openings in the doors



Propane gas cabinet
G-PG model GPG.150.168.P
 Order No. 2846



Propane gas cabinet
G-PG model GPG.075.046
 Order No. 10185



Propane gas cabinet
G-PG model GPG.150.084.P
 Order No. 2845



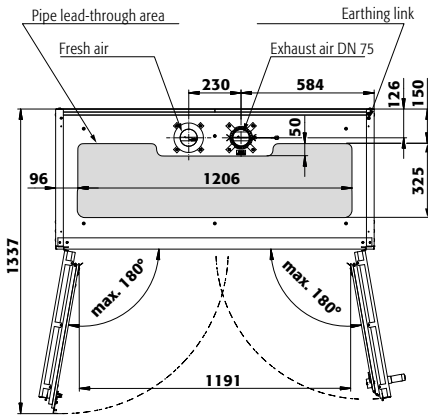
Propane gas cabinet
G-PG model GPG.150.084
 Order No. 10188

	GPG.150.084.P	GPG.150.168.P	GPG.075.046	GPG.150.084	GPG.075.084
Dimensions W x D x H external	840 x 690 x 1500	1680 x 690 x 1500	460 x 400 x 750	840 x 400 x 1485	840 x 400 x 750
Number of doors	1	2	1	1	1
Version	perforated	perforated	closed	closed	closed

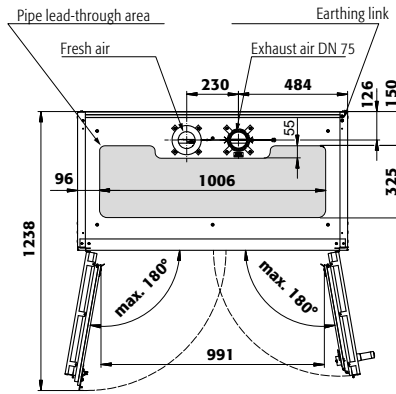
Model	Storage capacity	Order No.
GPG.150.084.P	4 x 33 kg or 10 x 11 kg or 18 x 5 kg	2845
GPG.150.168.P	8 x 33 kg or 20 x 11 kg or 36 x 5 kg	2846
GPG.075.046	1 x 11 kg	10185
GPG.150.084	2 x 33 kg	10188
GPG.075.084	2 x 11 kg	10186

Top views

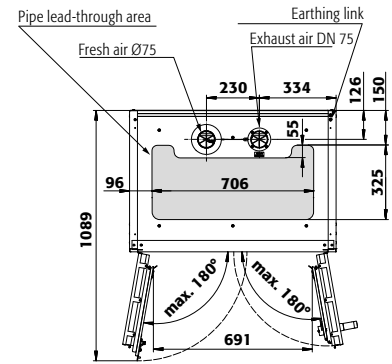
Type 90 gas cylinder cabinets for indoor storage



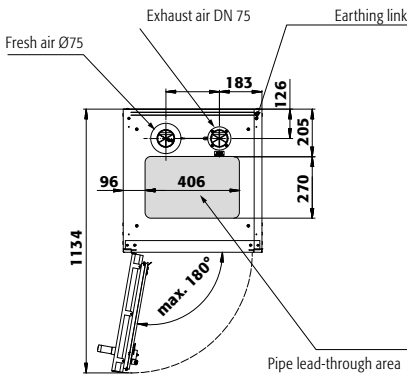
G90.205.140



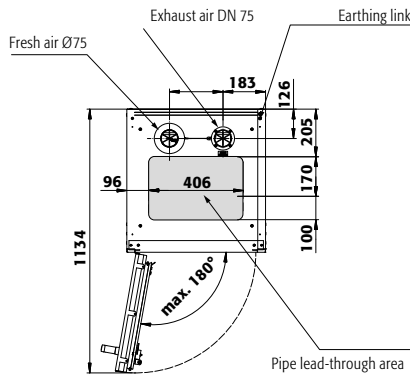
G90.205.120



G90.205.090

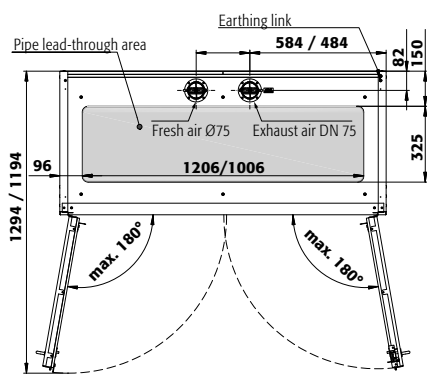


G90.205.060.2F
G90.205.060

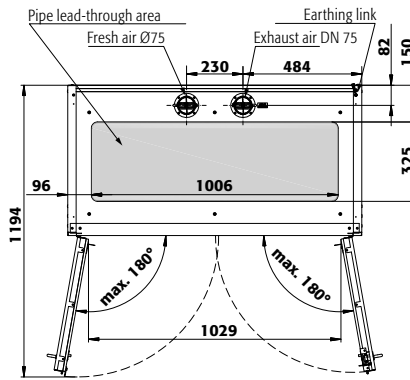


G90.145.060

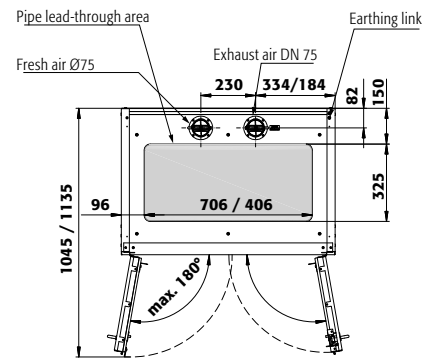
Type 30 gas cylinder cabinets for indoor storage



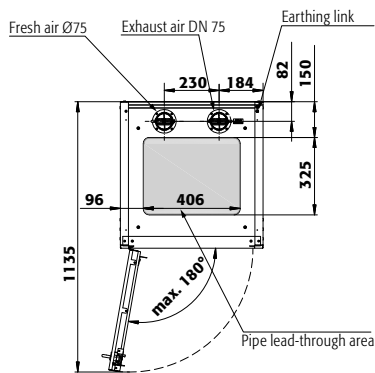
G30.205.140



G30.205.120

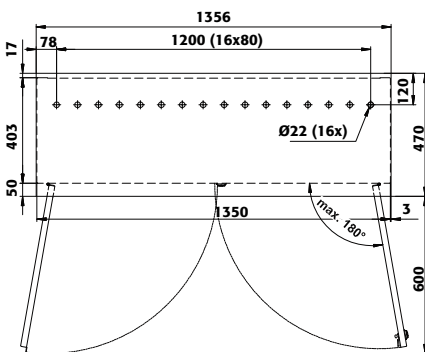


G30.205.090

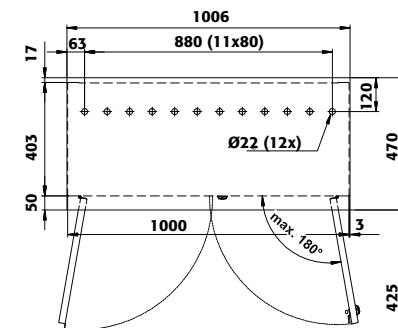


G30.205.060(R)

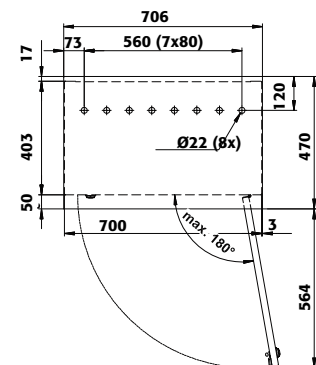
Gas cylinder cabinets for outdoor storage



GOD.215.135
GOD.215.135.WDFW
GOD.215.135.WDHW



GOD.215.100
GOD.215.100.WDFW
GOD.215.100.WDHW



GOD.215.070.R
GOD.215.070.WDFWR
GOD.215.070.WDHW



RISKS AND HAZARDS

The use of acids and alkalis is very versatile. For example, acids are regularly used in household cleaners and food and beverages (citric acid or acetic acid, for example, are good for combating limescale or rust deposits). Acids play an important role in many branches of industry. They are not only used in cleaning agents, but also in food products, for example, where they ensure shelf life. Among the more commonly used acids are hydrochloric acid, sulphuric acid, nitric acid and hydrofluoric acid.

Acids and alkalis pose major health hazards as soon as they are processed and stored in a certain concentration and quantity. Due to their corrosive nature, the substances and their vapours are extremely dangerous, as they cause burns and irritation of the skin and mucous membranes.

In the event of leakage, the corrosive or irritating hazardous substances escape from the containers. This can lead to chemical reactions with the surrounding air or other materials.

Information

For all hazardous substances, i.e. also for acids and alkalis, general protective measures are required as follows:

- »» Limitation of the hazardous substances present in the workplace to the quantity required for the continuation of the activities.
- »» Precautions shall be taken to ensure the safe storage of hazardous substances.
- »» Hazardous substances shall be kept or stored in such a way that they do not endanger human health and the environment.
- »» Misuse or abuse must be prevented.
- »» Prohibition of the storage of chemicals in food containers.

The safe storage of acids and alkalis is an important part of the risk assessment.

To prevent the neutralising effect between acids and alkalis, they should be stored separately.

Characteristics, classification and labelling

Acids are chemical compounds that are able to release protons and react acidically with water (pH value < 7).

Alkalis (bases) are chemical compounds that are able to form hydroxide ions. They react with water in an alkaline way (pH value > 7).

Substances and mixtures that cause inflammation when exposed to living tissue (skin, mucous membranes) are classified as **irritants**.

Substances and mixtures that destroy living tissue are described as **corrosive**.

Acids and alkalis can be solid, liquid, vapour or gaseous or present as aerosols and suspended matter. These substances include inorganic and organic acids and alkalis (bases) as well as substances that react with water in an acidic or basic (alkaline) manner. Oxidising and dehydrating inorganic and organic substances also have an irritating or corrosive effect on living tissue.

In addition to irritant or corrosive properties, substances or mixtures may also have other hazardous properties: e.g. toxic or lethal such as phenol or hydrogen fluoride, flammable such as acetic acid or oxidising such as organic peroxides.



The classification and labelling of these substances and the properties of selected acids and alkalis are shown in the following diagram:

Pictogram	Hazard class	Hazard category	Signal word	H-phrase
	Skin corrosion/irritation	Category 1A, 1B, 1C	Danger	H 314
	Serious eye damage/eye irritation	Category 1	Danger	H 318
	Corrosive to metals	Category 1	Warning	H 290
	Skin corrosion/irritation	Category 2	Warning	H 315
	Serious eye damage/eye irritation	Category 2	Warning	H 319

All concentrated acids, e.g. hydrofluoric acid, sulphuric acid, nitric acid, hydrochloric acid and phosphoric acid as well as formic acid and acetic acid are corrosive.

According to the CLP Regulation, even 5% acids and alkalis must be labelled with the pictogram GHS05 „Corrosivity“. Acids and alkalis can be additionally labelled with other hazardous properties such as acute toxicity or specific organ toxicity, e.g. hydrofluoric acid with these pictograms:



➤ **Attention is drawn to the particular danger of hydrofluoric acid (corrosive, toxic, systemic effect).**

STORAGE REQUIREMENTS

Hazardous materials may only be stored together if there is no increase in the risks involved. This may be possible, for example, because of the risk assessment or the limitation of quantities.

The Health and Safety Executive (HSE) provides guidance for segregation through HSG71 and offers very detailed guidance for the storage of chemical groups (please see Table 2 on page 16). The chemical groups are used to determine the possibilities for joint storage and this formal classification serves to control the joint storage of different hazardous materials.

The segregation of chemicals provides very distinct advantages to the user or provider of hazardous materials as it:

- »» Allows clear definition of the materials present
- »» Ensures more adequate management of chemicals at the site
- »» Contributes towards positive management of storage and procurement
- »» Prevents potential chemical reactions which could lead to accidents
- »» Prevents exposure of staff to harmful substances
- »» Puts you in control of all harmful substance

HSG71 should be used in conjunction with the safety data sheet (SDS), which clearly defines how compatible one substance is to another. For example, Section 10 of the SDS may advise that flammable liquids should not be stored with strong corrosives. The SDS also defines how to assess co-located storage.



RESPONSIBLE STORAGE IN SAFETY

STORAGE CABINETS

In workrooms, acids and alkalis should be stored separately – in special, so-called „**acid-alkali cabinets**“ made of largely corrosion-resistant material.

Because of the aggressiveness, especially of acid vapours or smoke or mists, which can escape from vessels and lead to reactions in the air (e.g. ammonia vapours + hydrochloric acid vapours = ammonium chloride mist), storage must be organised in such a way that both humans and the environment (water protection) are not endangered.

With regard to the required storage cabinets, there are currently no EN standards in which the technical design is described, but the requirements are based on various legal regulations.

In summary, the requirements are as follows:

- ››› Equipment with bottom collecting sumps capable of holding 10% of the quantity stored or at least the contents of the largest container.
- ››› The corrosion resistance and the compatibility of the materials used with the stored acids and alkalis must be given.
- ››› The cabinet must be connected to an exhaust air ventilation system that continuously discharges the escaping vapours into the open air in a safe place.
- ››› Strong acids and alkalis must be stored and extracted in separate cabinet areas (separate from each other) because their vapours/mists can react and generate heat.

Recommendation: Hydrofluoric acid should generally be stored separately and under lock and key due to the high hazard. Existing restrictions on materials for storage containers should be observed

Hydrofluoric acid is toxic and rapidly penetrates the skin, destroys deeper tissue layers and can lead to acutely threatening metabolic disorders or disturbances of liver or kidney function by inhibiting vital enzymes. It is therefore marked with the acute toxicity pictogram in addition to the corrosive pictogram.

In principle, the storage of acids or alkalis is also possible in safety cabinets according to EN 14470-1. However, the storage of the substances should be checked and minimised in each individual case because of the corrosiveness of the vapours. Concentrated formic acid and acetic acid should be stored in ventilated safety cabinets because of their relatively low flash points (~40°C).

Bottom collecting sumps made of synthetic material in safety cabinets in accordance with EN 14470-1 and other storage cabinets.

The use of containment systems is possible in safety cabinets according to EN 14470-1 and in other storage cabinets without a mark of conformity or general building authority approval, unless other country-specific regulations apply.

CONCLUSION

The use of tested containment systems in safety and other storage cabinets offers the following advantages and safety aspects:

- ››› Exemption from the possible obligation to test the tank system under water law or to upgrade the installation room.
- ››› Complete proof in case of leakage can lead to the fulfilment of the concern principle according to the Water Resources Act.
- ››› Universal installation and use of the cabinets without additional testing.



asecos safey storage cabinets for the storage of acids and alkalis in buildings and workrooms

The main objective of acid and alkali cabinets is to store aggressive acids and alkalis safely and protected from unauthorised access. asecos cabinets provide protection for people and the environment thanks to their particularly robust and high-quality construction and their safety features.

In all consequence this means that

- ››› valid rules and laws are observed
- ››› You as an entrepreneur are not personally liable
- ››› no persons are harmed

High quality and long lasting

- ››› The tall cabinets have an outer body made of epoxy-coated sheet steel and an inner body made of highly resistant melamine-coated special boards.
- ››› The underbench cabinets are made entirely of highly resistant melamine-coated special boards and are optionally available with metal housing.
- ››› All cabinets are GS-tested (conformity according to EN 16121/16222)

Interior equipment

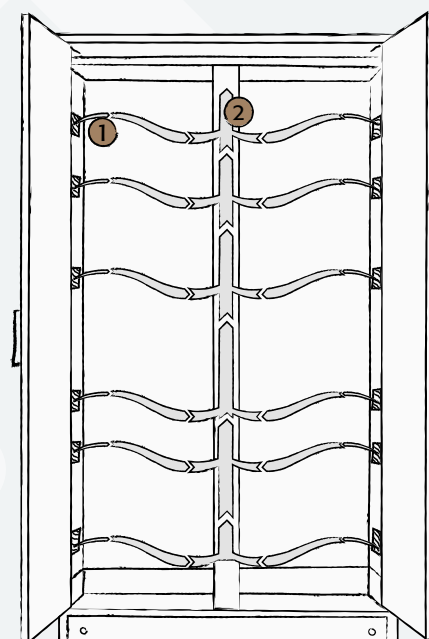
- ››› All cabinets contain pull-out drawers incl. approved bottom collecting sumps made of polyethylene.
- ››› Optionally available with a compartment for storing hydrofluoric acid inside the cabinet. This is separately lockable and is also extracted via the technical ventilation of the cabinet.

Safe separate storage

- ››› The vertical or horizontal dividing wall creates two hermetically separated storage compartments.

Ventilation

With their special construction, the cabinets are prepared for connection to a technical ventilation system. Through the **supply air** in the outer walls (1) and **exhaust air** in the centre partition (2), the vapours are directly extracted at each storage level in both storage compartments. The technical ventilation can be carried out e.g. via a suitable exhaust air system on site (exhaust air ducting to a non-hazardous location outdoors) or recirculating air filter modules.



ADVANTAGES:

- ››› No health hazards for the employees
- ››› Occupational exposure limit values (OEL) are safely complied with

The following products can be used independently of this:

- ››› Acid and alkali cabinets with integrated recirculating air filter module



Health protection through compliance with workplace limits must always be ensured when handling hazardous substances. Dangerous substances can be safely transferred and processed in hazardous material workplaces. Further information can be found in the chapter „Hazardous material workplaces“ from page 336.

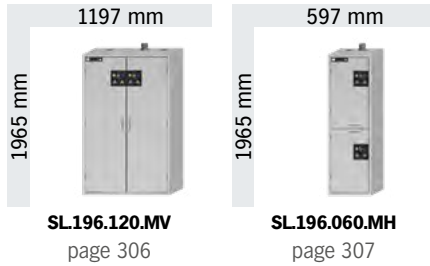




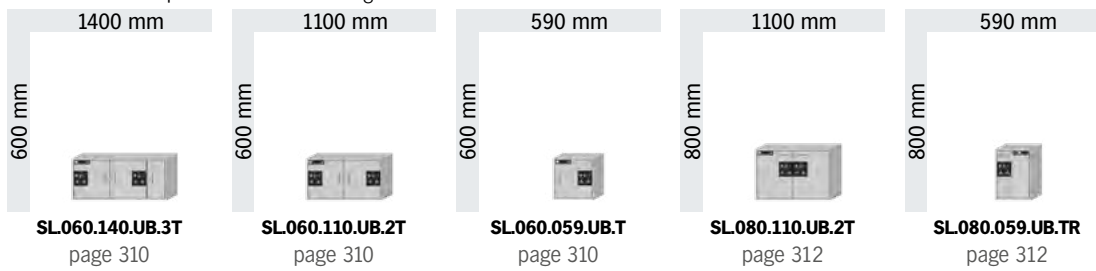
Overview

Cabinets for acids and alkalis

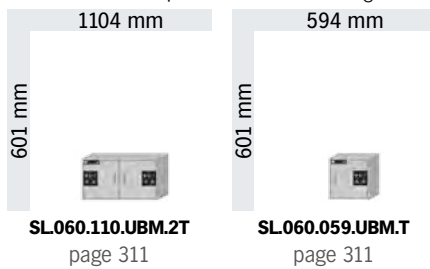
SL-CLASSIC | model class with wing doors



SL-CLASSIC-UB | model class with wing doors

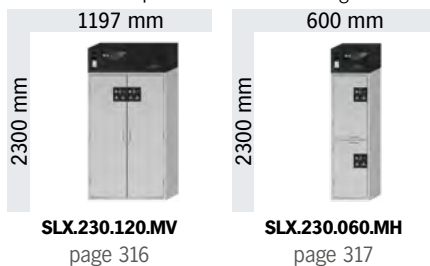


SL-CLASSIC-UB | model class with wing doors and metal cladding



SLX-LINE – recirculating air filter storage cabinets

SLX-CLASSIC | model class with wing doors and recirculating air filter system



SL-LINE | SL-CLASSIC

Safety storage cabinets for the storage of aggressive and non-flammable hazardous materials in working areas according to TRGS 510, DGUV-I 213-850, Ordinance on Hazardous Substances

1

Robust construction and longevity

Tall cabinet with body made of powder-coated sheet steel and interior space made of melamine resin and flame retardant special plates. Under bench cabinets completely made of melamine resin and flame retardant special plates.



2

Safe, separate storage

Acids and alkalis can be stored safe and separately. Two hermetically divided storage compartments, vertical or horizontal dividing wall. Integrated aeration and venting system, corrosion resistance of the metal-free air ducts.



3

Cylinder lock

Door lockable with cylinder lock, the cabinets can be integrated by the customer into an existing locking system.



4

Ventilation

Integrated air ducts ready for connection (DN 75) to a technical exhaust system can be used for the extraction of hazardous materials vapours. The potential formation of harmful vapours is safely prevented.



5

Pull-out shelves

Equipped with pull-out shelves incl. highly resistant sumps made of plastic. The pulled-out shelf provides a quick overview of all stored hazardous substances. In case of leakage the tray can be easily removed and quickly emptied and cleaned.



6

Separately lockable storage box

(Optionally available) for hydrofluoric acid including corrosion-resistant polypropylene sump



7

Interior equipment

Optionally available with PE tray shelves (V = 33 L) or bottom collecting sumps (V = 68 L) as storage levels for bulk packs.





- **GS-tested** (document EK5/AK4 09-10, ProdSG)



- Conformity in accordance with the requirements of **EN 16121** and **16122**
- Requirements and test methods for safety, strength, durability and stability.



- **Excellent products with special manufacturer warranty**
- Extended **manufacturer warranty of up to 5 years** in combination with the asecos BASICPlus tariff
- Further information from page 512



SL-
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Model SL.196.120.MV
Order No. 30606-001-30608



Model SL.196.120.MV
Order No. 30606-001-37224

Technical data

External dimensions W x D x H	mm	1200 x 605 x 1970
Internal dimensions W x D x H	mm	all compartments: 485 x 570 x 1869
Weight without interior equip.	kg	215
Extraction air	DN	75
Air change 30 times	m ³ /h	31
Diff. pressure (air change 30 times)	Pa	10

Main features



Highly resistant surfaces






Optionally with separate storage box for hydrofluoric acid

You will find technical drawings and adjustment heights for these cabinet models from page 318

Model	Information / equipment	Colour	Order No.
SL.196.120.MV	without interior equipment, with vertical dividing wall	light grey RAL 7035	30606-001
		laboratory white (sim. RAL 9016)	30606-005

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
Left: 4x pull-out shelf with plastic sump [V=11.0L] Right: 4x pull-out shelf with plastic sump [V=11.0L]	panel melamine resin-coated/PP grey	30607
Left: 6x pull-out shelf with plastic sump [V=11.0L] Right: 6x pull-out shelf with plastic sump [V=11.0L]	panel melamine resin-coated/PP grey	30608
Left: 4x pull-out shelf with plastic sump [V=11.0L], 1x storage box for hydrofluoric acid [V=70L] Right: 4x pull-out shelf with plastic sump [V=11.0L]	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37223
Left: 4x pull-out shelf [V=11.0L], 1x storage box for hydrofluoric acid [V=70L] Right: 5x pull-out shelf [V=11.0L]	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37224
Left: 5x pull-out shelf [V=11.0L], 1x storage box for hydrofluoric acid [V=70L] Right: 6x pull-out shelf [V=11.0L]	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37225

Interior equipment	Material	W x D x H (mm)	 1)	 2)	 3)	Order No.
Sump pallet with grid	PE	454 x 538 x 314*	70.00	68.00	61.82	30611
Sump pallet on shelf with grid	PE	427 x 541 x 167*	70.00	33.50	30.45	30610
Pull-out shelf with plastic sump	panel melamine resin-coated/PP grey	407 x 468 x 80*	25.00	11.00	10.00	30609
Document holder DIN A5	polystyrene					30793

Accessories	Order No.
Extraction unit without exhaust air monitoring	14218

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)



Model SL.196.060.MH
Order No. 30612-001-30615





Model SL.196.060.MH
Order No. 30612-005-37218

Technical data

External dimensions W x D x H	mm	597 x 603 x 1965
Internal dimensions W x D x H	mm	top: 485 x 570 x 914 bottom: 485 x 570 x 833
Weight without interior equip.	kg	136
Extraction air	DN	75
Air change 30 times	m ³ /h	14
Diff. pressure (air change 30 times)	Pa	4




Main features

-  Highly resistant surfaces
-  Optionally with separate storage box for hydrofluoric acid

You will find technical drawings and adjustment heights for these cabinet models from page 318

Model	Information / equipment	Colour	Order No.
SL196.060.MH	without interior equipment, left hinged, with horizontal dividing wall	light grey RAL 7035 laboratory white (sim. RAL 9016)	30612-001 30612-005
SL196.060.MHR	without interior equipment, right hinged, with horizontal dividing wall	light grey RAL 7035 laboratory white (sim. RAL 9016)	30613-001 30613-005

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
Top: 2x pull-out shelf with plastic sump (V=11.0L) Bottom: 2x pull-out shelf with plastic sump (V=11.0L)	panel melamine resin-coated/PP grey	Door hinge: left right 30614 30614
Top: 3x pull-out shelf with plastic sump (V=11.0L) Bottom: 3x pull-out shelf with plastic sump (V=11.0L)	panel melamine resin-coated/PP grey	30615 30615
Top: 1x pull-out shelf (V=11.0L), 1x storage box for hydrofluoric acid (V=70L) Bottom: 2x pull-out shelf (V=11.0L)	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37217 37220
Top: 1x pull-out shelf (V=11.0L), 1x storage box for hydrofluoric acid (V=70L) Bottom: 3x pull-out shelf (V=11.0L)	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37218 37221
Top: 2x pull-out shelf (V=11.0L), 1x storage box for hydrofluoric acid (V=70L) Bottom: 3x pull-out shelf (V=11.0L)	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37219 37222

Interior equipment	Material	W x D x H (mm)	 1)	 2)	 3)	Order No.
Sump pallet with grid	PE	454 x 538 x 314*	70.00	68.00	61.82	30611
Sump pallet on shelf with grid	PE	427 x 541 x 167*	70.00	33.50	30.45	30610
Pull-out shelf with plastic sump	panel melamine resin-coated/PP grey	407 x 468 x 80*	25.00	11.00	10.00	30609

Accessories	Order No.
Extraction unit without exhaust air monitoring	14218

* usable storage space W x D (mm)
1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

SL-LINE | SL-CLASSIC-UB

Safety storage cabinets for the storage of aggressive and non-flammable hazardous materials in working areas according to TRGS 510, DGUV-I 213-850, Ordinance on Hazardous Substances

1

Fits perfectly under fume cupboards
Cabinet makes perfect use of the space available under the fume cupboard.



2

Robust construction and longevity

Tall cabinet with body made of powder-coated sheet steel and interior space made of melamine resin and flame retardant special plates. Under bench cabinets completely made of melamine resin and flame retardant special plates.



3

Safe, separate storage

Acids and alkalis can be stored safe and separately. Two hermetically divided storage compartments, vertical or horizontal dividing wall. Integrated aeration and venting system, corrosion resistance of the metal-free air ducts.



4

Ventilation

Integrated air ducts ready for connection (DN 50) to a technical exhaust system can be used for the extraction of hazardous substances vapours. The potential formation of harmful vapours is safely prevented.



5

Pull-out shelves

Equipped with pull-out shelves incl. highly resistant sumps made of plastic. The pulled-out shelf provides a quick overview of all stored hazardous substances. In case of leakage the tray can be easily removed and quickly emptied and cleaned.



6

Construction

Optionally available with metal cladding for uniform integration into existing facilities.



7

Mobile

Optionally available castors with plinth; simple movement of the cabinet. Height adjustable to various laboratory furniture systems due to attachment covers.





- **GS-tested** (document EK5/AK4 09-10, ProdSG)



- Conformity in accordance with the requirements of **EN 16121** and **16122**
- Requirements and test methods for safety, strength, durability and stability.



- **Excellent products with special manufacturer warranty**
- Extended **manufacturer warranty of up to 5 years** in combination with the asecos BASICPlus tariff
- Further information from page 512



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SL-LINE | SL-CLASSIC-UB



Model SL.060.140.UB.3T
Order No. 30616-892-30618



Model SL.060.110.UB.2T
Order No. 30619-892-30621



Model SL.060.059.UB.T
Order No. 30622-892-30625

Technical data		SL.060.140.UB.3T	SL.060.110.UB.2T mm	SL.060.059.UB.T
External dimensions W x D x H	mm	1400 x 570 x 600	1100 x 570 x 600	590 x 570 x 600
Internal dimensions W x D x H	mm	left: 489 x 531 x 562 central: 489 x 531 x 562 right: 281 x 531 x 562	all compartments: 489 x 531 x 562	490 x 530 x 560
Weight without interior equip.	kg	66	53	35
Extraction air	DN	50	50	50
Air change 30 times	m ³ /h	11	9	4
Diff. pressure (air change 30 times)	Pa	3	2	1
Distributed load	kg/m ²	82	93	151
Maximum load	kg	100	100	100

Main features



Perfect for installation under fume cupboards or hazardous materials workplaces






Highly resistant surfaces

You will find technical drawings for these cabinet models from page 318

Model	Information / equipment	Colour	Order No.
SL060.140.UB.3T	without interior equipment, with 3 wing doors	light grey	30616-892
SL060.110.UB.2T	without interior equipment, with 2 wing doors	light grey	30619-892
SL060.059.UB.T	without interior equipment, left hinged, with wing door	light grey	30622-892
SL060.059.UB.TR	without interior equipment, right hinged, with wing door	light grey	30623-892

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
SL.060.140.UB.3T		
Left: 1x pull-out shelf with plastic sump (V=11.0L) Right: 1x pull-out shelf with plastic sump (V=11.0L)	panel melamine resin-coated/PP grey	30617
Left: 2x pull-out shelf with plastic sump (V=11.0L) Right: 2x pull-out shelf with plastic sump (V=11.0L)	panel melamine resin-coated/PP grey	30618
SL.060.110.UB.2T		
Left: 1x pull-out shelf with plastic sump (V=11.0L) Right: 1x pull-out shelf with plastic sump (V=11.0L)	panel melamine resin-coated/PP grey	30620
Left: 2x pull-out shelf with plastic sump (V=11.0L) Right: 2x pull-out shelf with plastic sump (V=11.0L)	panel melamine resin-coated/PP grey	30621
SL.060.059.UB.T		
1x pull-out shelf with plastic sump (V=11.0L)	panel melamine resin-coated/PP grey	30624
2x pull-out shelf with plastic sump (V=11.0L)	panel melamine resin-coated/PP grey	30625

Interior equipment	Material	W x D x H (mm)	 1)	 2)	 3)	Order No.
Pull-out shelf with plastic sump	panel melamine resin-coated/PP grey	407 x 468 x 80*	25.00	11.00	10.00	30770
Document holder DIN A5	polystyrene					30793
Castors with plinth	powder-coated sheet steel RAL 7015	1397 x 60 x 30				31359
Castors with plinth	powder-coated sheet steel RAL 7015	1097 x 60 x 30				31358
Castors with plinth	powder-coated sheet steel RAL 7015	587 x 60 x 30				31360

Accessories	Order No.
Extraction unit without exhaust air monitoring	17178

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

SL-LINE | SL-CLASSIC-UB



Model SL.060.110.UBM.2T
Order No. 38006-001-30621



Model SL.060.059.UBM.T
Order No. 38011-001-30624

Technical data		SL.060.059.UBM.T(R)	SL.060.110.UBM.2T
External dimensions W x D x H	mm	594 x 576 x 601	1104 x 576 x 601
Internal dimensions W x D x H	mm	488 x 531 x 562	all compartments: 489 x 531 x 562
Weight without interior equip.	kg	49	64
Extraction air	DN	50	50
Air change 30 times	m ³ /h	4	9
Diff. pressure (air change 30 times)	Pa	1	2
Distributed load	kg/m ²	151	93
Maximum load	kg	100	100

Main features



Perfect for installation under fume cupboards or hazardous materials workplaces






Highly resistant surfaces



With metal cladding on exterior of doors and body

You will find technical drawings for these cabinet models from page 318

Model	Information / equipment	Colour	Order No.
SL060.110.UBM.2T	without interior equipment, version with metal housing	light grey RAL 7035 laboratory white (sim. RAL 9016)	38006-001 38006-005
SL060.059.UBM.T	without interior equipment, left hinged, version with metal housing	light grey RAL 7035 laboratory white (sim. RAL 9016)	38011-001 38011-005
SL060.059.UBM.TR	without interior equipment, right hinged, version with metal housing	light grey RAL 7035 laboratory white (sim. RAL 9016)	39161-001 39161-005
Interior equipment packages (can only be ordered in combination with the cabinet)		Material	Order No.
SL.060.110.UBM.2T			
Left: 1x pull-out shelf with plastic sump (V=11.0L) Right: 1x pull-out shelf with plastic sump (V=11.0L)		panel melamine resin-coated/PP grey	30620
Left: 2x pull-out shelf with plastic sump (V=11.0L) Right: 2x pull-out shelf with plastic sump (V=11.0L)		panel melamine resin-coated/PP grey	30621
SL.060.059.UBM.T(R)			
1x pull-out shelf with plastic sump (V=11.0L)		panel melamine resin-coated/PP grey	30624
2x pull-out shelf with plastic sump (V=11.0L)		panel melamine resin-coated/PP grey	30625
Interior equipment	Material	W x D x H (mm)	 ¹⁾  ²⁾  ³⁾ Order No.
Pull-out shelf with plastic sump	panel melamine resin-coated/PP grey	407 x 468 x 80*	25.00 11.00 10.00 30770
Document holder DIN A5	polystyrene		30793
Castors with plinth	powder-coated sheet steel RAL 7015	1097 x 60 x 30	31358
Castors with plinth	powder-coated sheet steel RAL 7015	587 x 60 x 30	31360
Accessories			Order No.
Extraction unit without exhaust air monitoring			17178

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

SL-LINE | SL-CLASSIC-UB



Model SL.080.110.UB.2T
Order No. 33200-892-30621



Model SL.080.059.UB.TR
Order No. 33202-892-30625

Technical data		SL.080.110.UB.2T	SL.080.059.UB.TR mm
External dimensions W x D x H	mm	1 100 x 570 x 800	590 x 570 x 800
Internal dimensions W x D x H	mm	all compartments: 489 x 530 x 760	490 x 530 x 760
Weight without interior equip.	kg	68	47
Extraction air	DN	50	50
Air change 30 times	m ³ /h	12	6
Diff. pressure (air change 30 times)	Pa	3	1
Distributed load	kg/m ²	98	157
Maximum load	kg	100	100

Main features






Perfect for installation under fume cupboards or hazardous materials workplaces



Highly resistant surfaces

You will find technical drawings for these cabinet models from page 318

Model	Information / equipment	Colour	Order No.
SL080.110.UB.2T	without interior equipment, with 2 wing doors	light grey	33200-892
SL080.059.UB.T	without interior equipment, left hinged, with wing door	light grey	39808-892
SL080.059.UB.TR	without interior equipment, right hinged, with wing door	light grey	33202-892
Interior equipment packages (can only be ordered in combination with the cabinet)		Material	Order No.
SL.080.110.UB.2T			
Left: 1x pull-out shelf with plastic sump (V=11.0L)		panel melamine resin-coated/PP grey	30620
Right: 1x pull-out shelf with plastic sump (V=11.0L)			
Left: 2x pull-out shelf with plastic sump (V=11.0L)		panel melamine resin-coated/PP grey	30621
Right: 2x pull-out shelf with plastic sump (V=11.0L)			
SL.080.059.UB.T[R]			
1x pull-out shelf with plastic sump (V=11.0L)		panel melamine resin-coated/PP grey	30624
2x pull-out shelf with plastic sump (V=11.0L)		panel melamine resin-coated/PP grey	30625
Interior equipment	Material	W x D x H (mm)	 ¹⁾  ²⁾  ³⁾ Order No.
Pull-out shelf with plastic sump	panel melamine resin-coated/PP grey	407 x 468 x 80*	25.00 11.00 10.00 30770
Document holder DIN A5	polystyrene		30793
Castors with plinth	powder-coated sheet steel RAL 7015	1097 x 60 x 30	31358
Castors with plinth	powder-coated sheet steel RAL 7015	587 x 60 x 30	31360
Accessories			Order No.
Extraction unit without exhaust air monitoring			17178

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

SERVICE AND MAINTENANCE – OUT AND ABOUT FOR YOUR SAFETY

asecos is uncompromising when it comes to safety.

Our expertise as developers and manufacturers of technical safety products is also reflected in the range of services we offer. Seamless, professional maintenance can prevent serious damage in critical cases, and is also required by law in many countries.

A selected number of sales partners around the world have undergone a special certification process and are able to provide professional services where asecos cannot be present personally. Ask us for more information.

With the asecos services you are always on the safe side.

asecos fulfils these requirements: Inspection and maintenance carried out by our specialised service technicians ensures your safety storage cabinet functions properly. Concluding an asecos service agreement extends your warranty to up to 10 years.

During safety technology inspections, our service experts check all safety-relevant elements such as fire protection and ventilation seals, insulation, door closures, fusible links, ventilation openings for proper function and effectiveness.

The asecos service: Your advantages at a glance

<p>The protective function of your safety storage cabinet (serving as a fire bulkhead for stored hazardous materials in case of a fire) is permanently ensured, extending the service life of your system.</p> <p>1</p>	<p>You enjoy up to a 10 year manufacturer warranty, depending on the service rate you select.</p> <p>3</p>	<p>Our safety technology inspection fulfils the requirements of EG directive 89/391/EC.</p> <p>6</p>
<p>You have our guarantee as experts familiar with all regulations, guidelines, and cabinet design requirements.</p> <p>2</p>	<p>The asecos team monitors your service date schedule and tells you about upcoming inspections.</p> <p>4</p>	<p>Comprehensive service network</p> <p>7</p>
	<p>Complete, consistent documentation and availability of all spare parts (min. 10 years).</p> <p>5</p>	<p>We can carry out 98% of all the repairs in case of manufactured products within the scope of the deadline for the safety-related inspection – this means just one visit to you and saves money too.</p> <p>8</p>

SLX-LINE | SLX-CLASSIC

Recirculating air filter storage cabinets for the storage of acids and bases and the extraction and filtration of their vapours

1

Elimination of harmful vapours due to the recirculating air filter unit. Permanent extraction and filtration of hazardous vapours.



2

Multifunctional

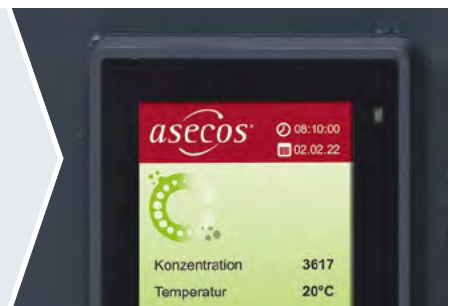
The SLX-CLASSIC recirculating air filter storage cabinets enable the common storage, extraction and filtration of the most diverse aggressive acids, alkalis and further chemicals in one cabinet

Flexibility³

3

Eco-friendly

Long filter lifetimes, environmentally and customer-friendly reusable filter system



4

Robust construction and longevity

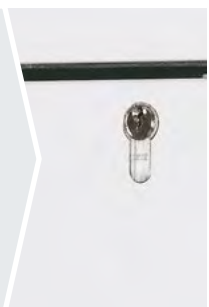
Tall cabinet with body made of powder-coated sheet steel and interior space made of melamine resin and flame retardant special plates. Under bench cabinets completely made of melamine resin and flame retardant special plates.



5

Cylinder lock

Door lockable with cylinder lock, the cabinets can be integrated by the customer into an existing locking system.



6

Pull-out shelves

Equipped with pull-out shelves incl. highly resistant sumps made of plastic. The pulled-out shelf provides a quick overview of all stored hazardous substances. In case of leakage the tray can be easily removed and quickly emptied and cleaned.



7

Low noise level

At approx. 39 dB (A), the unit is extremely quiet and does not produce any perturbing noises. Visual and acoustic signals provide a clear warning in an emergency and, in combination with the potential-free alarm contact, ensure maximum safety.





- **GS-test** of the Q-LINE safety storage cabinets according to the requirements of EN 14470-1 (except model FX-DISPLAY-30)



- Conformity of the Q-LINE safety storage cabinets according to **EN 16121** and **16122** (EN 16121:2013+A1:2017)



- **Excellent products with special manufacturer warranty**
- Extended **manufacturer warranty of up to five years** in connection with an asecos service tariff



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LINE

SLX-LINE | SLX-CLASSIC



Model SLX.230.120.MV
Order No. 32936-001-30608



Model SLX.230.120.MV
Order No. 32936-001-30607

Technical data

External dimensions W x D x H	mm	1 197 x 615 x 2300
Internal dimensions W x D x H	mm	all compartments: 485 x 565 x 1865
Weight without interior equip.	kg	195
Frequency	Hz	50
Nominal voltage	V	230
Max. current consumption	A	0.5
Power consump. in operation	W	120
Power consump. in standby mode	W	50

Main features



Self-sufficient and flexible storage solution



Cabinet incl. recirculating air filter unit

You will find technical drawings and adjustment heights for these cabinet models from page 318

Model	Information / equipment	Colour	Order No.
SLX.230.120.MV	without interior equipment, with vertical dividing wall	light grey RAL 7035	32936-001
Interior equipment packages (can only be ordered in combination with the cabinet)		Material	Order No.
Left: 4x pull-out shelf with plastic sump (V=11.0L) Right: 4x pull-out shelf with plastic sump (V=11.0L)		panel melamine resin-coated/PP grey	30607
Left: 6x pull-out shelf with plastic sump (V=11.0L) Right: 6x pull-out shelf with plastic sump (V=11.0L)		panel melamine resin-coated/PP grey	30608
Left: 4x pull-out shelf with plastic sump (V=11.0L), 1x storage box for hydrofluoric acid (V=70L) Right: 4x pull-out shelf with plastic sump (V=11.0L)		panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37223
Left: 4x pull-out shelf (V=11.0L), 1x storage box for hydrofluoric acid (V=70L) Right: 5x pull-out shelf (V=11.0L)		panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37224
Left: 5x pull-out shelf (V=11.0L), 1x storage box for hydrofluoric acid (V=70L) Right: 6x pull-out shelf (V=11.0L)		panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37225
Interior equipment	Material	W x D x H (mm)	Order No.
Sump pallet with grid	PE	454 x 538 x 314*	30611
Sump pallet on shelf with grid	PE	427 x 541 x 167*	30610
Pull-out shelf with plastic sump	panel melamine resin-coated/PP grey	407 x 468 x 80*	30609
* W x D = usable floor space			
Accessories	Material	W x D x H (mm)	Order No.
Activated carbon replacement filter	activated carbon	270 x 270 x 246	32952



Model SLX.230.060.MH
Order No. 32939-001-30615





Model SLX.230.060.MH
Order No. 32939-001-30614

Technical data

External dimensions W x D x H	mm	600 x 615 x 2300
Internal dimensions W x D x H	mm	485 x 565 x 1865
Weight without interior equip.	kg	152
Frequency	Hz	50
Nominal voltage	V	230
Max. current consumption	A	0.5
Power consump. in operation	W	120
Power consump. in standby mode	W	50

Main features

-  Self-sufficient and flexible storage solution
-  Cabinet incl. recirculating air filter unit

You will find technical drawings and adjustment heights for these cabinet models from page 318

SL-
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LINE

Model	Information / equipment	Colour	Order No.
SLX.230.060.MH	without interior equipment, left hinged, with horizontal dividing wall	light grey RAL 7035	32939-001
SLX.230.060.MH.R	without interior equipment, right hinged, with horizontal dividing wall	light grey RAL 7035	32942-001

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
Top: 2x pull-out shelf with plastic sump [V=11.0L] Bottom: 2x pull-out shelf with plastic sump [V=11.0L]	panel melamine resin-coated/PP grey	30614
Top: 3x pull-out shelf with plastic sump [V=11.0L] Bottom: 3x pull-out shelf with plastic sump [V=11.0L]	panel melamine resin-coated/PP grey	30615
Top: 1x pull-out shelf [V=11.0L], 1x storage box for hydrofluoric acid [V=70L] Bottom: 2x pull-out shelf [V=11.0L]	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37217
Top: 1x pull-out shelf [V=11.0L], 1x storage box for hydrofluoric acid [V=70L] Bottom: 2x pull-out shelf [V=11.0L]	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37220
Top: 1x pull-out shelf [V=11.0L], 1x storage box for hydrofluoric acid [V=70L] Bottom: 3x pull-out shelf [V=11.0L]	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37218
Top: 1x pull-out shelf [V=11.0L], 1x storage box for hydrofluoric acid [V=70L] Bottom: 3x pull-out shelf [V=11.0L]	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37221
Top: 2x pull-out shelf [V=11.0L], 1x storage box for hydrofluoric acid [V=70L] Bottom: 3x pull-out shelf [V=11.0L]	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37219
Top: 2x pull-out shelf [V=11.0L], 1x storage box for hydrofluoric acid [V=70L] Bottom: 3x pull-out shelf [V=11.0L]	panel melamine resin-coated/PP grey, panel melamine resin-coated/PE grey	37222

Interior equipment	Material	W x D x H (mm)	Order No.
Sump pallet with grid	PE	454 x 538 x 314*	30611
Sump pallet on shelf with grid	PE	427 x 541 x 167*	30610
Pull-out shelf with plastic sump	panel melamine resin-coated/PP grey	407 x 468 x 80*	30609

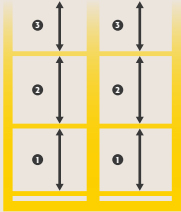
* W x D = usable floor space

Accessories	Material	W x D x H (mm)	Order No.
Activated carbon replacement filter	activated carbon	270 x 270 x 181	32953

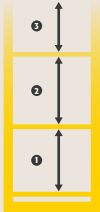
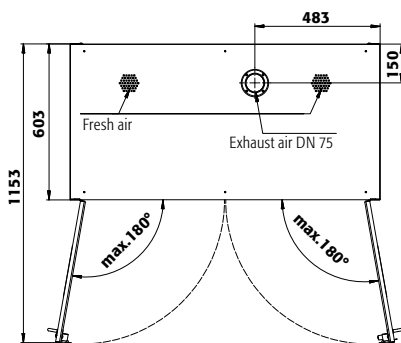
Storage heights | top views

Cabinets for acids and alkalis, recirculating air filter cabinets for acids and alkalis

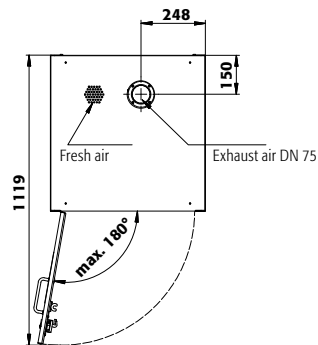
standard storage heights for pull-out shelves		SL.196.120.MV / SLX.196.120.MV		
Pull-out shelves/number		6	5	4
Distance	⑥ (mm)	260		
Distance	⑤ (mm)	280	260	
Distance	④ (mm)	280	280	420
Distance	③ (mm)	310	280	420
Distance	② (mm)	280	470	470
Distance	① (mm)	280	420	420



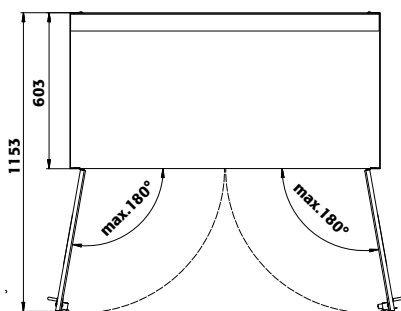
standard storage heights for pull-out shelves		SL.196.060.MH(R) / SLX.196.060.MH		
Pull-out shelves/number		6	5	4
Distance	⑥ (mm)	260		
Distance	⑤ (mm)	280	260	
Distance	④ (mm)	280	280	420
Distance	③ (mm)	165	280	420
Distance	② (mm)	280	325	325
Distance	① (mm)	280	420	420

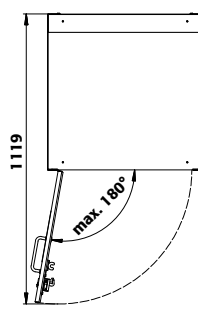
SL.196.120.MV



SL.196.060.MH(R)

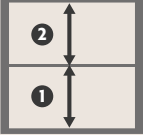


SLX.230.120.MV



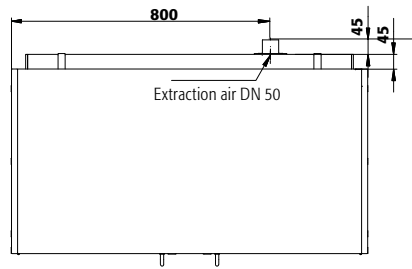
SLX.230.060.MH(R)

Under bench cabinets for acids and alkalis

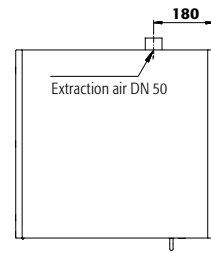
standard storage heights for pull-out shelves	SL.060.140.UB.3T SL.060.110.UB(M).2T SL.060.059.UB(M).T(R)	SL.080.110.UB.2T SL.080.059.UB.T(R)	
Pull-out shelves/number	2 1	2 1	
Distance 2 (mm)	200	330	
Distance 1 (mm)	280 500	345 700	



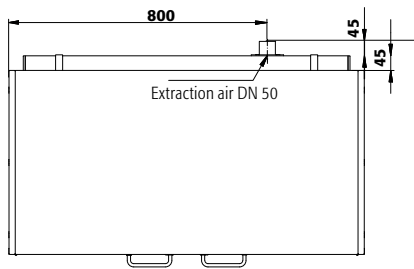
SL.060.140.UB.3T



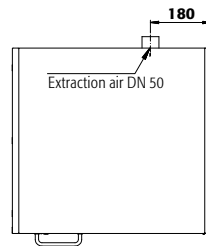
SL.060.110.UB(M).2T



SL.060.059.UB(M).T(R)



SL.080.110.UB.2T



SL.080.059.UB.T(R)



Acute toxic substances

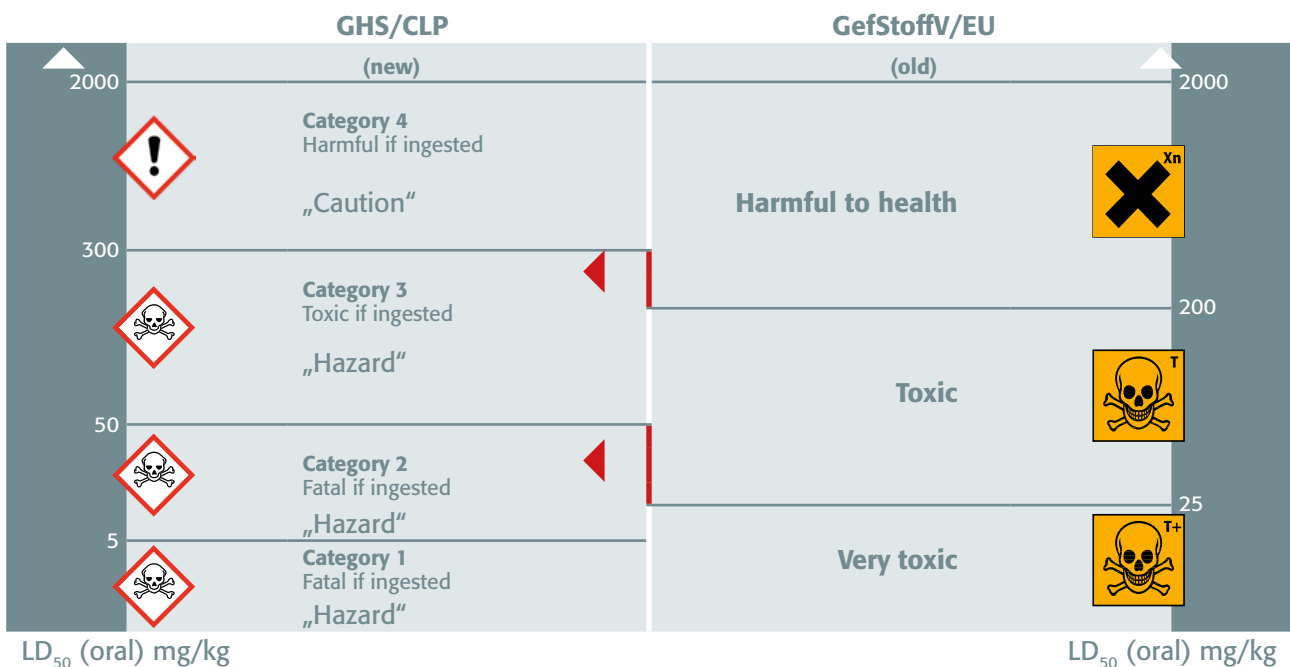
Legal basis

For all hazardous substances, i.e. also for acute toxic substances, the general protective measures require the following:

- »» Regardless of quantity, acutely toxic hazardous substances must be kept under lock and key or stored in such a way that only competent and reliable persons have access.
- »» Hazardous substances present at the workplace must be limited to the quantity required for the continuation of the activities.
- »» Precautions shall be taken to ensure the safe storage of hazardous substances.
- »» Hazardous substances shall be kept or stored in such a way that they do not endanger human health and the environment.
- »» Misuse or abuse shall be prevented.
- »» Prohibit the storage of chemicals in food containers.

Classification and labelling

Acute toxic or toxic and very toxic hazardous substances are classified according to the lethal (fatal) dose LD₅₀. The LD₅₀ concentration values are set for oral, inhalation and dermal intake. The classification and labelling can be seen in the following diagrams.



Pictogram	Hazard Class	Hazard Category	Signal word	H phrase
	Acute toxicity - oral - dermal - inhalative	Category 1	Hazard	H 300 H 310 H 330
	Acute toxicity - oral - dermal - inhalative	Category 2	Hazard	H 300 H 310 H 330
	Acute toxicity - oral - dermal - inhalative	Category 3	Hazard	H 301 H 311 H 331
	Acute toxicity - oral - dermal - inhalative	Category 4	Caution	H 302 H 312 H 332

Please observe local legislation and regulations.



STORAGE REQUIREMENTS

Hazardous materials may only be stored together if there is no increase in the risks involved. This may be possible, for example, because of the risk assessment or the limitation of quantities.

The Health and Safety Executive (HSE) provides guidance for segregation through HSG71 and offers very detailed guidance for the storage of chemical groups (please see Table 2 on page 16). The chemical groups are used to determine the possibilities for joint storage and this formal classification serves to control the joint storage of different hazardous materials.

The segregation of chemicals provides very distinct advantages to the user or provider of hazardous materials as it:

- ››› Allows clear definition of the materials present
- ››› Ensures more adequate management of chemicals at the site
- ››› Contributes towards positive management of storage and procurement
- ››› Prevents potential chemical reactions which could lead to accidents
- ››› Prevents exposure of staff to harmful substances
- ››› Puts you in control of all harmful substance

HSG71 should be used in conjunction with the safety data sheet (SDS), which clearly defines how compatible one substance is to another. For example, Section 10 of the SDS may advise that flammable liquids should not be stored with strong corrosives. The SDS also defines how to assess co-located storage.



Acute toxic or very toxic or toxic flammable liquids (e.g. methanol) must be stored in a safety storage cabinet according to EN 14470-1. Acutely toxic and flammable substances may be stored together in a safety cabinet if they are stored in containers approved for hazardous goods, the risk assessment does not indicate any dangerous reactions and the hazardous substances can be extinguished with the same extinguishing agent.

Suitable storage cabinets for chemicals can be found in a wide range of dimensions in the following chapter.

Particularly in the case of (acute) toxic substances, special attention must be paid to compliance with the workplace limit values. Technical ventilation of safety cabinets can be achieved by:

- ››› Connection to a separate exhaust air duct, which should be discharged into the open air at a hazard-free location
- ››› Integration into an existing exhaust air system

Independently of this, safety storage cabinets with an integrated recirculating air filter module can be used for the storage of hazardous substances.



Recirculating air filter storage cabinets
from p. 314

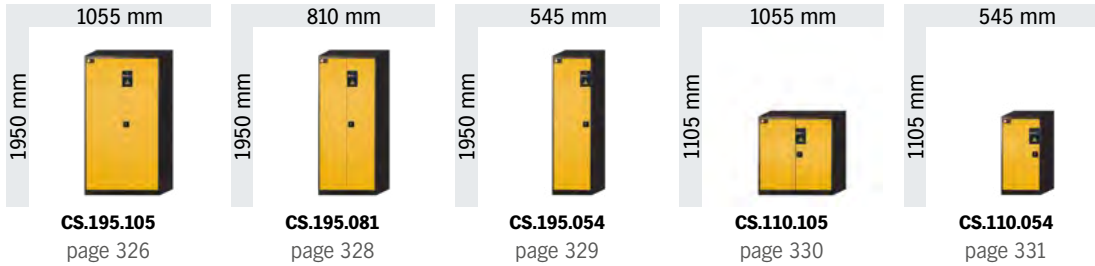
ENUS
STICS



Overview

Cabinets for chemicals

CS-CLASSIC | model class with wing doors



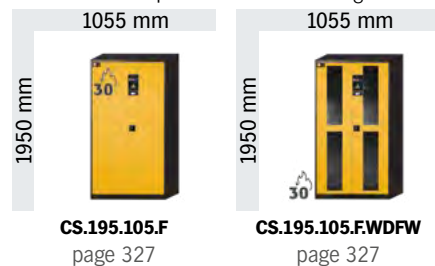
CS-CLASSIC-G | model class with wing doors with glass openings



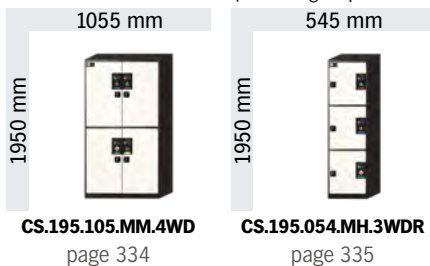
CS-PHOENIX | model class with folding doors



CS-CLASSIC-F | model class with wing doors and type 30-safety box

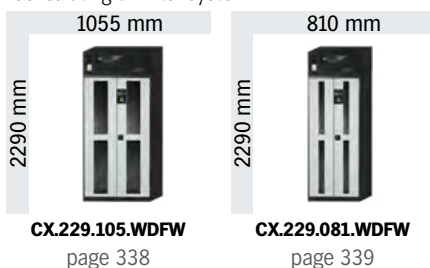


CS-CLASSIC-MultiRisk | Model group with wing doors and centre partitions



CX-LINE – recirculating air filter cabinets

CX-CLASSIC-G | model class with wing doors and recirculating air filter system



CX-CLASSIC-MultiRisk | model class with wing doors, dividing walls and recirculating air filter system



C-LINE | CS-CLASSIC-G

Safety storage cabinets for the storage of toxic and non-flammable hazardous materials in working areas according to TRGS 510

1

Large variation of models

A selection of tall cabinets in two widths and under bench cabinets in three widths and two heights allow the adaption to users requirements and structural conditions. 3 different door variations are available: Wing door, wing door with fixed window, space-saving folding door



2

Type 30 safety box

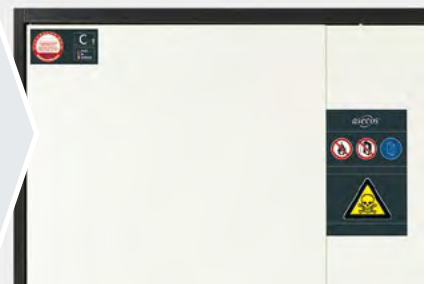
Optionally available with a type 30 safety box for the safe storage of small quantities of flammable hazardous materials.



3

Modern bicolour design

The cabinets bring colour to your workplace: choice of seven door colours at no extra cost, body in modern Anthracite grey



4

No unauthorised use

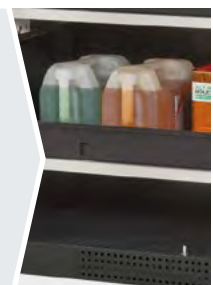
Doors lockable with profile cylinder and cylinder lock.



5

Ventilation

Ready for connection to (DN 75) a technical exhaust system. Natural ventilation at the cabinet bottom.



6

Available with pull-out shelves

Incl. sumps made of plastic. The pulled-out shelf provides a quick overview of all stored hazardous substances. In case of leakage the tray can be easily removed and quickly emptied and cleaned.



7

Interior equipment

Fitted for large containers and canisters with shelves and a bottom collecting sump. The height-adjustable storage levels offer a high load capacity. In combination with a perforated insert, the bottom collecting sump can be used as an additional storage level.





- Conformity in accordance with the requirements of **EN 16121** and **16122**
- Requirements and test methods for safety, strength, durability and stability.



C-LINE | CS-CLASSIC



Model CS.195.105
Order No. 30495-047-30508



Model CS.195.105.FD
Order No. 30497-041-30508



Model CS.195.105.WDFW
Order No. 30496-050-30516

Technical data

		CS.195.105(.WDFW/.FD)
External dimensions W x D x H	mm	1055 x 520 x 1950
Internal dimensions W x D x H	mm	all compartments: 475 x 495 x 905
Weight without interior equip.	kg	75 kg
Extraction air	DN	75 DN
Air change 10 times	m ³ /h	9 m ³ /h
Diff. pressure (air change 10 times)	Pa	2 Pa

Main features



Model WDFW glass-paneled wing doors



Model FD with folding doors

Model	Body colour	Door colour	Order No.
CS.195.105	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30495-040 30495-041
CS.195.105.WDFW	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30496-040 30496-041
CS.195.105.FD	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30497-040 30497-041

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
3x shelf, 1x perforated insert, 1x bottom collecting sump (V=270L)	sheet steel galvanised	30508
3x shelf, 1x perforated insert, 1x bottom collecting sump (V=270L)	powder-coated sheet steel RAL 7035, sheet steel galvanised	30510
4x pull-out shelf with plastic sump (V=33.0L)	sheet steel powder-coated/PP RAL 7035	30516
6x pull-out shelf with plastic sump (V=33.0L)	sheet steel powder-coated/PP RAL 7035	30518

Interior equipment	Material	W x D x H (mm)				Order No.
Shelf	sheet steel galvanised	993 x 492 x 30	100.00			30519
Shelf	powder-coated sheet steel RAL 7035	993 x 492 x 30	100.00			30520
Perforated insert	sheet steel galvanised	976 x 427 x 41	60.00			30521
Bottom collecting sump	sheet steel galvanised	978 x 430 x 85*		2700	24.55	30522
Pull-out shelf with plastic sump	sheet steel powder-coated/PP RAL 7035	888 x 415 x 107*	30.00	33.00	30.00	30525
Box for chemicals	PP blue	410 x 300 x 260				30038

Accessories	Order No.
Extraction unit without exhaust air monitoring	14218

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)



Model CS.195.105.F
Order No. 30848-040-30850



Model CS.195.105.F.WDFW
Order No. 30849-050-30858

Technical data

		CS.195.105.F(WDFW)
External dimensions W x D x H	mm	1055 x 520 x 1950
Internal dimensions W x D x H	mm	all compartments: 475 x 495 x 905
Weight without interior equip.	kg	138 kg
Extraction air	DN	75 DN
Air change 10 times	m ³ /h	9 m ³ /h
Diff. pressure (air change 10 times)	Pa	2 Pa

Main features






Model WDFW glass-paneled wing doors



Type 30 safety box included

Model	Body colour	Door colour	Order No.
CS.195.105.F	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30848-040 30848-041
CS.195.105.F.WDFW	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30849-040 30849-041

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
2x shelf, 1x perforated insert, 1x bottom collecting sump (V=270L)	sheet steel galvanised	30850
2x shelf, 1x perforated insert, 1x bottom collecting sump (V=270L)	powder-coated sheet steel RAL 7035, sheet steel galvanised	30852
3x pull-out shelf with plastic sump (V=33.0L)	sheet steel powder-coated/PP RAL 7035	30858

Interior equipment	Material	W x D x H (mm)	 ¹⁾	 ²⁾	 ³⁾	Order No.
Shelf	sheet steel galvanised	993 x 492 x 30	100.00			30519
Shelf	powder-coated sheet steel RAL 7035	993 x 492 x 30	100.00			30520
Perforated insert	sheet steel galvanised	976 x 427 x 41	60.00			30521
Bottom collecting sump	sheet steel galvanised	978 x 430 x 85*		27.00	24.55	30522
Pull-out shelf with plastic sump	sheet steel powder-coated/PP RAL 7035	888 x 415 x 107*	30.00	33.00	30.00	30525
Box for chemicals	PP blue	410 x 300 x 260				30038

Accessories	Order No.
Extraction unit without exhaust air monitoring	14218

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

C-LINE | CS-CLASSIC



Model CS.195.081
Order No. 30532-048-30542



Model CS.195.081.WDFW
Order No. 30533-041-30550

Technical data

		CS.195.081(.WDFW)
External dimensions W x D x H	mm	810 x 520 x 1950
Internal dimensions W x D x H	mm	751 x 493 x 1835
Weight without interior equip.	kg	68 kg
Extraction air	DN	75 DN
Air change 10 times	m ³ /h	7 m ³ /h
Diff. pressure (air change 10 times)	Pa	1 Pa

Main features



Model WDFW glass-paneled wing doors

Model	Body colour	Door colour	Order No.
CS.195.081	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30532-040 30532-041
CS.110.081.WDFW	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30531-040 30531-041

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
3x shelf, 1x perforated insert, 1x bottom collecting sump (V=28.0L)	sheet steel galvanised	30542
3x shelf, 1x perforated insert, 1x bottom collecting sump (V=28.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised	30544
3x shelf, 1x bottom collecting sump with grid (V=33.0L)	sheet steel galvanised, sheet steel galvanised and coated blue	30546
3x shelf, 1x bottom collecting sump with grid (V=33.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised and coated blue	30547
4x pull-out shelf with plastic sump (V=22.0L)	sheet steel powder-coated/PP RAL 7035	30548
6x pull-out shelf with plastic sump (V=22.0L)	sheet steel powder-coated/PP RAL 7035	30550

Interior equipment	Material	W x D x H (mm)				Order No.
Shelf	sheet steel galvanised	748 x 492 x 30	60.00			30551
Shelf	powder-coated sheet steel RAL 7035	748 x 492 x 30	60.00			30552
Perforated insert	sheet steel galvanised	731 x 412 x 41	60.00			30553
Bottom collecting sump	sheet steel galvanised	736 x 415 x 112*		28.00	25.45	30554
Pull-out shelf with plastic sump	sheet steel powder-coated/PP RAL 7035	644 x 416 x 102*	30.00	22.00	20.00	30556
Box for chemicals	PP blue	410 x 300 x 260				30038

Accessories	Order No.
Extraction unit without exhaust air monitoring	14218

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)



Model CS.195.054
Order No. 30561-041-30573



Model CS.195.054.WDFW
Order No. 30563-040-30579

Technical data

External dimensions W x D x H	mm	545 x 520 x 1950
Internal dimensions W x D x H	mm	486 x 493 x 1835
Weight without interior equip.	kg	51 kg
Extraction air	DN	75 DN
Air change 10 times	m ³ /h	4 m ³ /h
Diff. pressure (air change 10 times)	Pa	1 Pa

CS.195.054(.R/.WDFW/.WDFWR)




Main features



Model WDFW with glass-paneled wing door

Model	Body colour	Door colour	Order No.
CS.195.054	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30561-040 30561-041
CS.195.054.R	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30562-040 30562-041
CS.195.054.WDFW	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30563-040 30563-041
CS.195.054.WDFWR	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30564-040 30564-041

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
3x shelf, 1x perforated insert, 1x bottom collecting sump (V=19.0L)	sheet steel galvanised	30573
3x shelf, 1x perforated insert, 1x bottom collecting sump (V=19.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised	30575
3x shelf, 1x bottom collecting sump (V=19.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised	30576
3x shelf, 1x bottom collecting sump with grid (V=22.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised and coated blue	30578
4x pull-out shelf with plastic sump (V=11.0L)	sheet steel powder-coated/PP RAL 7035	30579
6x pull-out shelf with plastic sump (V=11.0L)	sheet steel powder-coated/PP RAL 7035	30581

Interior equipment	Material	W x D x H (mm)	 ¹⁾	 ²⁾	 ³⁾	Order No.
Shelf	sheet steel galvanised	484 x 486 x 30	50.00			30582
Shelf	powder-coated sheet steel RAL 7035	484 x 486 x 30	50.00			30583
Perforated insert	sheet steel galvanised	464 x 408 x 41	50.00			30584
Bottom collecting sump	sheet steel galvanised	469 x 412 x 118*		19.00	1727	30585
Pull-out shelf with plastic sump	sheet steel powder-coated/PP RAL 7035	370 x 417 x 89*	30.00	11.00	10.00	30587
Box for chemicals	PP blue	410 x 300 x 260				30038

Accessories	Order No.
Extraction unit without exhaust air monitoring	14218

* usable storage space W x D (mm)
1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

C-LINE | CS-CLASSIC



Model CS.110.105.FD
Order No. 30494-041-30498



Model CS.110.105.WDFW
Order No. 30493-050-30507

Technical data

		CS.110.105(.WDFW/.FD)
External dimensions W x D x H	mm	1055 x 520 x 1105
Internal dimensions W x D x H	mm	996 x 493 x 990
Weight without interior equip.	kg	48 kg
Extraction air	DN	75 DN
Air change 10 times	m ³ /h	5 m ³ /h
Diff. pressure (air change 10 times)	Pa	1 Pa

Main features






Model WDFW glass-paneled wing doors



Model FD with folding doors

Model	Body colour	Door colour	Order No.
CS.110.105	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30492-040 30492-041
CS.110.105.WDFW	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30493-040 30493-041
CS.110.105.FD	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30494-040 30494-041

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
2x shelf, 1x perforated insert, 1x bottom collecting sump (V=270L)	sheet steel galvanised	30498
2x shelf, 1x perforated insert, 1x bottom collecting sump (V=270L)	powder-coated sheet steel RAL 7035, sheet steel galvanised	30500
2x pull-out shelf with plastic sump (V=33.0L)	sheet steel powder-coated/PP RAL 7035	30506
3x pull-out shelf with plastic sump (V=33.0L)	sheet steel powder-coated/PP RAL 7035	30507

Interior equipment	Material	W x D x H (mm)	 ¹⁾	 ²⁾	 ³⁾	Order No.
Shelf	sheet steel galvanised	993 x 492 x 30	100.00			30519
Shelf	powder-coated sheet steel RAL 7035	993 x 492 x 30	100.00			30520
Perforated insert	sheet steel galvanised	976 x 427 x 41	60.00			30521
Bottom collecting sump	sheet steel galvanised	978 x 430 x 85*		27.00	24.55	30522
Pull-out shelf with plastic sump	sheet steel powder-coated/PP RAL 7035	888 x 415 x 107*	30.00	33.00	30.00	30525
Box for chemicals	PP blue	410 x 300 x 260				30038

Accessories	Order No.
Extraction unit without exhaust air monitoring	14218

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)



Model CS.110.054
Order No. 30557-041-30565



Model CS.110.054.WDFW
Order No. 30559-040-30572

Technical data

		CS.110.054(.R/.WDFW/.WDFWR)
External dimensions W x D x H	mm	545 x 520 x 1105
Internal dimensions W x D x H	mm	486 x 493 x 990
Weight without interior equip.	kg	31 kg
Extraction air	DN	75 DN
Air change 10 times	m ³ /h	2 m ³ /h
Diff. pressure (air change 10 times)	Pa	1 Pa

Main features



Model WDFW with glass-paneled wing door

Model	Body colour	Door colour	Order No.
CS.110.054	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30557-040 30557-041
CS.110.054.R	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30558-040 30558-041
CS.110.054.WDFW	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30559-040 30559-041
CS.110.054.WDFWR	anthracite grey RAL 7016	warning yellow RAL 1004 light grey RAL 7035	30560-040 30560-041

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
2x shelf, 1x perforated insert, 1x bottom collecting sump (V=19.0L)	sheet steel galvanised	30565
2x shelf, 1x perforated insert, 1x bottom collecting sump (V=19.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised	30567
2x shelf, 1x bottom collecting sump with grid (V=22.0L)	sheet steel galvanised, sheet steel galvanised and coated blue	30569
2x shelf, 1x bottom collecting sump with grid (V=22.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised and coated blue	30570
2x pull-out shelf with plastic sump (V=11.0L)	sheet steel powder-coated/PP RAL 7035	30571
3x pull-out shelf with plastic sump (V=11.0L)	sheet steel powder-coated/PP RAL 7035	30572

Interior equipment	Material	W x D x H (mm)				Order No.
Shelf	sheet steel galvanised	484 x 486 x 30	50.00			30582
Shelf	powder-coated sheet steel RAL 7035	484 x 486 x 30	50.00			30583
Perforated insert	sheet steel galvanised	464 x 408 x 41	50.00			30584
Bottom collecting sump	sheet steel galvanised	469 x 412 x 118*		19.00	1727	30585
Pull-out shelf with plastic sump	sheet steel powder-coated/PP RAL 7035	370 x 417 x 89*	30.00	11.00	10.00	30587
Box for chemicals	PP blue	410 x 300 x 260				30038

Accessories	Order No.
Extraction unit without exhaust air monitoring	14218

* usable storage space W x D (mm)
1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

C-LINE | CS-CLASSIC-MultiRisk

Safety storage cabinets for the storage of toxic and non-flammable hazardous materials in working areas according to TRGS 510

1

Multifunctional

Separated storage of various hazardous materials in up to 4 storage compartments. Labelling system suitable for each stored hazardous material. Every storage compartment can be equipped individually, optimal adaption to the stored containers and user requirements.



2

Cylinder lock

Doors lockable with cylinder lock. Each storage compartment can be operated separately



3

Ventilation

Ready for connection to (DN 75) a technical exhaust system. Natural ventilation at the cabinet bottom.



4

Available with pull-out shelves

Incl. sumps made of plastic. The pulled-out shelf provides a quick overview of all stored hazardous substances. In case of leakage the tray can be easily removed and quickly emptied and cleaned.



5

Interior equipment

Fitted for large containers and canisters with shelves and a bottom collecting sump. The height-adjustable storage levels offer a high load capacity. In combination with a perforated insert, the bottom collecting sump can be used as an additional storage level.





- Conformity in accordance with the requirements of **EN 16121** and **16122**
- Requirements and test methods for safety, strength, durability and stability.



C-LINE | CS-CLASSIC-MultiRisk



Model CS.195.105.MM.4WD
Order No. 30803-050-30806



Model CS.195.105.MM.4WD
Order No. 30803-050-30808



Model CS.195.105.MM.4WD
Order No. 30803-050-31947

Technical data

External dimensions W x D x H	mm	1055 x 520 x 1950
Internal dimensions W x D x H	mm	all compartments: 475 x 495 x 905
Weight without interior equip.	kg	80 kg
Extraction air	DN	75 DN
Air change 10 times	m ³ /h	9 m ³ /h
Diff. pressure (air change 10 times)	Pa	2 Pa




Main features



Dividing walls providing separate storage compartments

Model	Body colour	Door colour	Order No.
CS.195.105.MM.4WD	anthracite grey RAL 7016	pure white RAL 9010	30803-050

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
4x shelf, 2x bottom collecting sump (V=19.0L), 4x perforated insert, 2x bottom collecting sump (V=19.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised	30805
4x shelf, 2x bottom collecting sump (V=19.0L), 4x perforated insert, 2x bottom collecting sump (V=19.0L)	sheet steel galvanised	30806
Top: 2x shelf, 2x perforated insert, 1x bottom collecting sump (V=19.0L), 1x bottom collecting sump (V=19.0L) Bottom: 4x pull-out shelf (V=11.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised, sheet steel powder-coated/PP RAL 7035	30807
Top: 2x shelf, 1x bottom collecting sump (V=19.0L), 2x perforated insert, 1x bottom collecting sump (V=19.0L) Bottom: 4x pull-out shelf (V=11.0L)	sheet steel galvanised, sheet steel powder-coated/PP	30808
8x pull-out shelf for cabinets with vertical dividing wall (V=11.0L)	sheet steel powder-coated/PP RAL 7035	31947

Interior equipment	Material	W x D x H (mm)	 ¹⁾	 ²⁾	 ³⁾	Order No.
Shelf	sheet steel galvanised	474 x 486 x 30	50.00			30838
Shelf	powder-coated sheet steel RAL 7035	474 x 486 x 30	50.00			30837
Perforated insert	sheet steel galvanised	464 x 408 x 41	50.00			30584
Bottom collecting sump for cabinets with vertical dividing wall	sheet steel galvanised	469 x 412 x 118*		19.00	1727	30840
Bottom collecting sump with grid for cabinets with vertical dividing wall	powder-coated sheet steel blue	466 x 406 x 136*		22.00	20.00	30841
Pull-out shelf for cabinets with vertical dividing wall	sheet steel powder-coated/PP RAL 7035	370 x 417 x 89*	30.00	11.00	10.00	30839
Box for chemicals	PP blue	410 x 300 x 260				30038

Accessories	Order No.
Extraction unit without exhaust air monitoring	14218

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)



Model CS.195.054.MH.3WDR
Order No. 30804-050-30810



Model CS.195.054.MH.3WDR
Order No. 30804-050-31945



Model CS.195.054.MH.3WDR
Order No. 30804-050-31946

Technical data

External dimensions W x D x H	mm	545 x 520 x 1950
Internal dimensions W x D x H	mm	486 x 493 x 1835
Weight without interior equip.	kg	51 kg
Extraction air	DN	75 DN
Air change 10 times	m ³ /h	4 m ³ /h
Diff. pressure (air change 10 times)	Pa	1 Pa




Main features



Dividing walls providing separate storage compartments

Model	Body colour	Door colour	Order No.
CS.195.054.MH.3WDR	anthracite grey RAL 7016	pure white RAL 9010	30804-050

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
3x shelf, 3x bottom collecting sump (V=19.0L), 3x perforated insert	powder-coated sheet steel RAL 7035, sheet steel galvanised	30809
3x shelf, 3x bottom collecting sump (V=19.0L), 3x perforated insert	sheet steel galvanised	30810
Top: 1x shelf, 1x bottom collecting sump (V=19.0L), 1x perforated insert Central: 2x pull-out shelf (V=11.0L) Bottom: 2x pull-out shelf (V=11.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised, sheet steel powder-coated/PP RAL 7035	31944
Top: 1x shelf, 1x bottom collecting sump (V=19.0L), 1x perforated insert Central: 2x pull-out shelf (V=11.0L) Bottom: 2x pull-out shelf (V=11.0L)	sheet steel galvanised, sheet steel powder-coated/PP	31945
6x pull-out shelf with plastic sump (V=11.0L)	sheet steel powder-coated/PP RAL 7035	31946

Interior equipment	Material	W x D x H (mm)	 ¹⁾	 ²⁾	 ³⁾	Order No.
Shelf	sheet steel galvanised	484 x 486 x 30	50.00			30582
Shelf	powder-coated sheet steel RAL 7035	484 x 486 x 30	50.00			30583
Perforated insert	sheet steel galvanised	464 x 408 x 41	50.00			30584
Bottom collecting sump	sheet steel galvanised	469 x 412 x 118*		19.00	1727	30585
Bottom collecting sump with grid	sheet steel galvanised and coated blue	466 x 406 x 136*		22.00	20.00	30586
Pull-out shelf with plastic sump	sheet steel powder-coated/PP RAL 7035	370 x 417 x 89*	30.00	11.00	10.00	30587
Box for chemicals	PP blue	410 x 300 x 260				30038

Accessories	Order No.
Extraction unit without exhaust air monitoring	14218

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

CX-LINE | CX-CLASSIC

Recirculating air filter storage cabinets for the storage of non-flammable and toxic hazardous materials and the extraction and filtration of their vapours

1

Elimination of harmful vapours due to the recirculating air filter unit. Permanent extraction and filtration of hazardous vapours.



2

Multifunctional

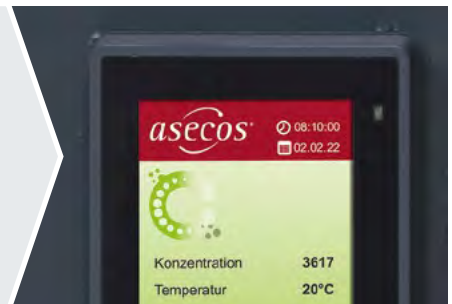
The CX-LINE recirculating air filter storage cabinets enable the common storage, extraction and filtration of the most diverse hazardous materials in one cabinet

Flexibility³

3

Eco-friendly

Long filter lifetimes, environmentally and customer-friendly reusable filter system



4

No unauthorised use

Doors lockable with profile cylinder and cylinder lock.



5

The CX-LINE is based on the CS-CLASSIC and CS-CLASSIC-MultiRisk cabinets.



6

Low noise level

At approx. 39 dB (A), the unit is extremely quiet and does not produce any perturbing noises. Visual and acoustic signals provide a clear warning in an emergency and, in combination with the potential-free alarm contact, ensure maximum safety.





- Conformity of the Q-LINE safety storage cabinets according to **EN 16121** and **16122** (EN 16121:2013+A1:2017)



- **Excellent products with special manufacturer warranty**
- Extended **manufacturer warranty of up to five years** in connection with an asecos service tariff



CX-LINE | CX-CLASSIC



Model CX.229.105.WDFW
Order No. 32925-041-30508



Model CX.229.105.WDFW
Order No. 32925-050-30516



Model CX.229.105.WDFW
Order No. 32925-041-30518

Technical data

External dimensions W x D x H	mm	1055 x 520 x 2290
Internal dimensions W x D x H	mm	996 x 493 x 1835
Weight without interior equip.	kg	105
Frequency	Hz	50
Nominal voltage	V	230
Max. current consumption	A	0.5
Power consump. in operation	W	120
Power consump. in standby mode	W	50

Main features



Self-sufficient and flexible storage solution



Cabinet incl. recirculating air filter unit

Model	Body colour	Door colour	Order No.
CX.229.105.WDFW	anthracite grey RAL 7016	light grey RAL 7035	32925-041
		pure white RAL 9010	32925-050

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
3x shelf, 1x perforated insert, 1x bottom collecting sump (V=270L)	sheet steel galvanised	30508
3x shelf, 1x perforated insert, 1x bottom collecting sump (V=270L)	powder-coated sheet steel RAL 7035, sheet steel galvanised	30510
4x pull-out shelf with plastic sump (V=33.0L)	sheet steel powder-coated/PP RAL 7035	30516
6x pull-out shelf with plastic sump (V=33.0L)	sheet steel powder-coated/PP RAL 7035	30518

Interior equipment	Material	W x D x H (mm)	1)	2)	3)	Order No.
Shelf	sheet steel galvanised	993 x 492 x 30	100.00			30519
Shelf	powder-coated sheet steel RAL 7035	993 x 492 x 30	100.00			30520
Perforated Insert	sheet steel galvanised	976 x 427 x 41	60.00			30521
Bottom collecting sump	sheet steel galvanised	978 x 430 x 85*		27.00	24.55	30522
Bottom collecting sump big with grid	sheet steel galvanised and coated blue	984 x 382 x 175*		66.00	60.00	30524
Pull-out shelf with plastic sump	sheet steel powder-coated/PP RAL 7035	888 x 415 x 107*	30.00	33.00	30.00	30525
Box for chemicals	PP blue	410 x 300 x 260				30038

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

Accessories	Material	W x D x H (mm)	Order No.
Activated carbon replacement filter	activated carbon	270 x 270 x 246	32952



Model CX.229.081.WDFW
Order No. 32929-050-30542



Model CX.229.081.WDFW
Order No. 32929-041-30548





Model CX.229.081.WDFW
Order No. 32929-041-30550

Technical data




External dimensions W x D x H	mm	810 x 520 x 2290
Internal dimensions W x D x H	mm	751 x 493 x 1835
Weight without interior equip.	kg	93
Frequency	Hz	50
Nominal voltage	V	230
Max. current consumption	A	0.5
Power consump. in operation	W	120
Power consump. in standby mode	W	50

Main features

-  Self-sufficient and flexible storage solution
-  Cabinet incl. recirculating air filter unit

Model	Body colour	Door colour	Order No.
CX.229.081.WDFW	anthracite grey RAL 7016	light grey RAL 7035	32929-041
		pure white RAL 9010	32929-050

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
3x shelf, 1x perforated insert, 1x bottom collecting sump (V=28.0L)	sheet steel galvanised	30542
3x shelf, 1x perforated insert, 1x bottom collecting sump (V=28.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised	30544
3x shelf, 1x bottom collecting sump with grid (V=33.0L)	sheet steel galvanised, sheet steel galvanised and coated blue	30546
3x shelf, 1x bottom collecting sump with grid (V=33.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised and coated blue	30547
4x pull-out shelf with plastic sump (V=22.0L)	sheet steel powder-coated/PP RAL 7035	30548
6x pull-out shelf with plastic sump (V=22.0L)	sheet steel powder-coated/PP RAL 7035	30550

Interior equipment	Material	W x D x H (mm)	 ¹⁾	 ²⁾	 ³⁾	Order No.
Shelf	sheet steel galvanised	748 x 492 x 30	60.00			30551
Shelf	powder-coated sheet steel RAL 7035	748 x 492 x 30	60.00			30552
Perforated Insert	sheet steel galvanised	731 x 412 x 41	60.00			30553
Bottom collecting sump	sheet steel galvanised	736 x 415 x 112*		28.00	25.45	30554
Bottom collecting sump with grid	sheet steel galvanised and coated blue	739 x 411 x 129*		33.00	30.00	30555
Pull-out shelf with plastic sump	sheet steel powder-coated/PP RAL 7035	644 x 416 x 102*	30.00	22.00	20.00	30556
Box for chemicals	PP blue	410 x 300 x 260				30038

* usable storage space W x D (mm)
1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

Accessories	Material	W x D x H (mm)	Order No.
Activated carbon replacement filter	activated carbon	270 x 270 x 181	32953

CX-LINE | CX-CLASSIC-MultiRisk



Model CX.229.105.MM.4WD
Order No. 32933-050-30806



Model CX.229.105.MM.4WD
Order No. 32933-050-30808



Model CX.229.105.MM.4WD
Order No. 32933-050-31947

Technical data

External dimensions W x D x H	mm	1055 x 520 x 2290
Internal dimensions W x D x H	mm	996 x 493 x 1835
Weight without interior equip.	kg	98
Frequency	Hz	50
Nominal voltage	V	230
Max. current consumption	A	0.5
Power consump. in operation	W	120
Power consump. in standby mode	W	50

Main features






Self-sufficient and flexible storage solution



Cabinet incl. recirculating air filter unit

Model	Body colour	Door colour	Order No.
CX.229.105.MM.4WD	anthracite grey RAL 7016	pure white RAL 9010	32933-050

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
4x shelf, 2x bottom collecting sump (V=19.0L), 4x perforated insert, 2x bottom collecting sump (V=19.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised	30805
4x shelf, 2x bottom collecting sump (V=19.0L), 4x perforated insert, 2x bottom collecting sump (V=19.0L)	sheet steel galvanised	30806
Top: 2x shelf, 2x perforated insert, 1x bottom collecting sump (V=19.0L), 1x bottom collecting sump (V=19.0L) Bottom: 4x pull-out shelf (V=11.0L)	powder-coated sheet steel RAL 7035, sheet steel galvanised, sheet steel powder-coated/PP RAL 7035	30807
Top: 2x shelf, 1x bottom collecting sump (V=19.0L), 2x perforated insert, 1x bottom collecting sump (V=19.0L) Bottom: 4x pull-out shelf (V=11.0L)	sheet steel galvanised, sheet steel powder-coated/PP	30808
8x pull-out shelf for cabinets with vertical dividing wall (V=11.0L)	sheet steel powder-coated/PP RAL 7035	31947

Interior equipment	Material	W x D x H (mm)	 ¹⁾	 ²⁾	 ³⁾	Order No.
Shelf	sheet steel galvanised	474 x 486 x 30	50.00			30838
Shelf	powder-coated sheet steel RAL 7035	474 x 486 x 30	50.00			30837
Perforated insert	sheet steel galvanised	464 x 408 x 41	50.00			30584
Bottom collecting sump for cabinets with vertical dividing wall	sheet steel galvanised	469 x 412 x 118*		19.00	1727	30840
Bottom collecting sump with grid for cabinets with vertical dividing wall	powder-coated sheet steel blue	466 x 406 x 136*		22.00	20.00	30841
Pull-out shelf for cabinets with vertical dividing wall	sheet steel powder-coated/PP RAL 7035	370 x 417 x 89*	30.00	11.00	10.00	30839
Box for chemicals	PP blue	410 x 300 x 260				30038

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

Accessories	Material	W x D x H (mm)	Order No.
Activated carbon replacement filter	activated carbon	270 x 270 x 246	32952



E-LINE | E-CLASSIC

Safe and approved storage of water pollutants in working areas

1

Type 30 safety box

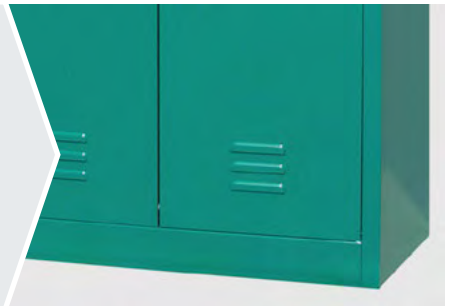
Optionally available with a type 30 safety box for the safe storage of small quantities of flammable hazardous materials.



2

Ventilation

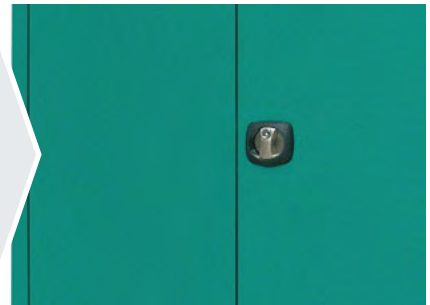
Ready for connection to a technical exhaust system, natural ventilation at the cabinet bottom.



3

No unauthorised use

Doors lockable with profile cylinder and cylinder lock.



4

Interior equipment

Equipped with galvanised tray shelves and bottom collecting sump for large containers and canisters. Leakages are safely collected.





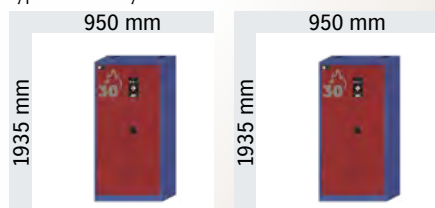
E-CLASSIC | model class with wing doors



E.195.095
page 344

E.140.095
page 344

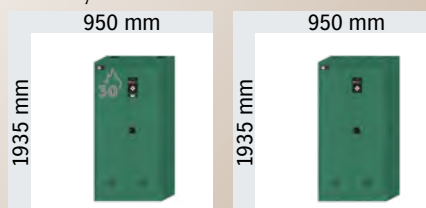
E-CLASSIC-UF | model class with wing doors and type 30-safety box



E.195.095.F
page 345

EM.195.095.F
page 345

E-PSM-UF | model class with wing doors and type 30-safety box



EP.195.095.F
page 346

EP.195.095
page 346

E-LINE | E-CLASSIC



Model E.195.095.2
Order No. 30629-007



Model E.140.095
Order No. 30626-007



Model E.195.095
Order No. 30628-007

Technical data

External dimensions W x D x H
Internal dimensions W x D x H
Weight

mm
mm
kg

E.195.095(.2)

950 x 500 x 1935
945 x 460 x 1845
137

E.145.095(.2)




950 x 500 x 1400
945 x 460 x 1297
87

Main features



Model 095.2 incl. liquid-tight welded tray shelves

Model	Body colour	Door colour	Order No.
E.195.095	gentian blue RAL 5010	light grey RAL 7035	30628-007
E.195.095.2	gentian blue RAL 5010	light grey RAL 7035	30629-007
E.140.095	gentian blue RAL 5010	light grey RAL 7035	30626-007
E.140.095.2	gentian blue RAL 5010	light grey RAL 7035	30627-007

Interior equipment	Material	W x D x H (mm)	 1)	 2)	 3)	Order No.
Tray shelf	sheet steel galvanised	931 x 444 x 50*	50.00	20.00	18.18	30632
Perforated insert	sheet steel galvanised	930 x 440 x 40	75.00			14740
Bottom collecting sump	sheet steel galvanised	932 x 445 x 50*		20.50	18.64	30633
Sump inliner	PP	869 x 378 x 88*		26.50	24.09	8564

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)



Model E.195.095.F
Order No. 30634-006



Model EM.195.095.F
Order No. 30638-006

Technical data

		E.195.095.F	E.195.095.F2	EM.195.095.F
External dimensions W x D x H	mm	950 x 500 x 1935	950 x 500 x 1935	950 x 500 x 1935
Internal dimensions W x D x H	mm	945 x 460 x 1845	945 x 460 x 1845	945 x 460 x 1845
Weight	kg	148	156	133

Main features



Model 095.F incl. type 30 safety box



Model 095.2 incl. liquid-tight welded tray shelves



Model 095.EM can be used as a material cabinet

Model	Body colour	Door colour	Order No.
E.195.095.F	gentian blue RAL 5010	purple red RAL 3004	30634-006
E.195.095.F2	gentian blue RAL 5010	purple red RAL 3004	30635-006
EM.195.095.F	gentian blue RAL 5010	purple red RAL 3004	30638-006

Interior equipment	Material	W x D x H (mm)	1)	2)	3)	Order No.
Shelf	sheet steel galvanised	944 x 456 x 25	50.00			30640
Tray shelf	sheet steel galvanised	931 x 444 x 50*	50.00	20.00	18.18	30632
	powder-coated sheet steel RAL 7035	805 x 383 x 50*	25.00	8.50	7.73	30769
Perforated insert	sheet steel galvanised	930 x 440 x 40	75.00			14740
Bottom collecting sump	sheet steel galvanised	932 x 445 x 50*		20.50	18.64	30633
Sump inliner	PP	869 x 378 x 88*		26.50	24.09	8564

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

E-LINE | E-PSM



Model EP.195.095
Order No. 30630-009



Model EP.195.095.F
Order No. 30636-009

Technical data

		EP.195.095	EP.195.095.2	EP.195.095.F	EP.195.095.F2
External dimensions W x D x H	mm	950 x 500 x 1935	950 x 500 x 1935	950 x 500 x 1935	950 x 500 x 1935
Internal dimensions W x D x H	mm	945 x 460 x 1845	945 x 460 x 1845	945 x 460 x 1845	945 x 460 x 1845
Weight	kg	99	112	147	156

Main features






Model 095.F incl. type 30 safety box



Model 095.2 incl. liquid-tight welded tray shelves

Model	Body colour	Door colour	Order No.
EP:195.095	turquoise green RAL 6016	turquoise green RAL 6016	30630-009
EP:195.095.2	turquoise green RAL 6016	turquoise green RAL 6016	30631-009
EP:195.095.F	turquoise green RAL 6016	turquoise green RAL 6016	30636-009
EP:195.095.F2	turquoise green RAL 6016	turquoise green RAL 6016	30637-009

Interior equipment	Material	W x D x H (mm)	 ¹⁾	 ²⁾	 ³⁾	Order No.
Tray shelf	sheet steel galvanised	931 x 444 x 50*	50.00	20.00	18.18	30632
	powder-coated sheet steel RAL 7035	805 x 383 x 50*	25.00	8.50	7.73	30769
Perforated insert	sheet steel galvanised	930 x 440 x 40	75.00			14740
Bottom collecting sump	sheet steel galvanised	932 x 445 x 50*		20.50	18.64	30633
Sump inliner	PP	869 x 378 x 88*		26.50	24.09	8564

* usable storage space W x D (mm)

1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)

INDIVIDUAL AND MADE TO MEASURE





Extraction of hazardous materials

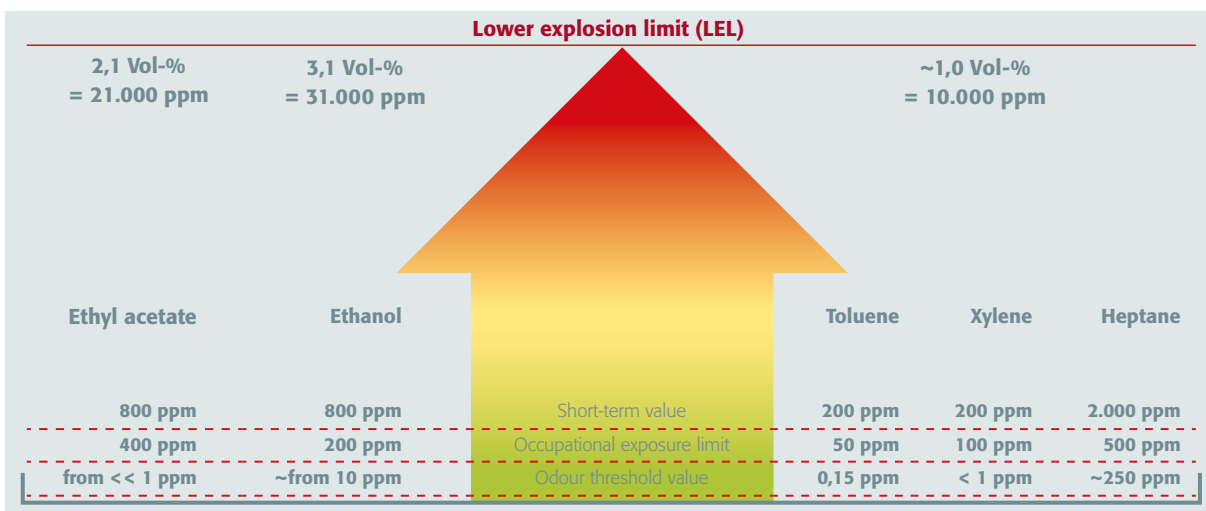
Which limit values are relevant for activities involving hazardous materials?

When working with hazardous substances, employees must be protected from substance-related hazards and damages. For the assessment of health hazards when handling and storing hazardous substances, the following limit values must be observed:

- »» Limit values according to REACH
 - DNEL: Derived No-Effect Level (derived exposure level without effect) (by manufacturers or importers/marketers)
 - DMEL: Derived Minimum Effect Level
 - Risk-based limit values for carcinogenic and germ cell mutagenic substances (not provided for in REACH, only in legally nonbinding ECHA guidelines)
- »» Limit values according to the Ordinance on Hazardous Substances/TRGS 900
 - OEL: Occupational exposure limit vs. MWC: Maximum workplace concentration
- »» Carcinogenic hazardous substances according to TRGS 910
 - ERB: Exposure-Risk Relationships vs. TGC: Technical Guideline Concentration
- »» HSE workplace exposure limits according to EH40/2005
 - WEL's: Workplace exposure limits
 - Are British occupational exposure limits which are set in order to help protect the health of workers. WEL's are concentrations of hazardous substances in the air, averaged over a specified period of time, referred to as a time-weighted average (TWA). Two time periods are generally used:
 - »» long-term (8 hours) and
 - »» short-term (15 minutes)
 - »» The short-term exposure limits (STEL's) are set to help prevent effects such as eye irritation, which may occur following an exposure for a few minutes.

A possible health hazard can also be derived from the odour threshold value. Unpleasant or even annoying odours should always be the first sign of a possible health risk when working with hazardous substances. For the evaluation of possible explosion hazards during activities with flammable hazardous substances, the lower explosion limit (LEL) must also be taken into account.

The concentration ratios between odour threshold value, occupational exposure limit value, short-term value and lower explosion limit are illustrated in the following figure:



The occupational exposure limit value (OEL) as a legally binding threshold value

The occupational exposure limit value (OEL) is the limit value for the time-weighted average concentration of a substance in the air at the workplace in relation to a given reference period. It specifies the concentration of a substance at which acute or chronic harmful effects on health are generally not to be expected. Occupational exposure limit values are shift averages for approx. 8 hours daily exposure five days a week during the working life.



How do I safely comply with these limits?

If it is not possible to substitute the hazardous substances used with a less hazardous material – which must be justified in the risk assessment – technical measures must primarily be taken in accordance with the state of the art. The aim is – first and foremost – to protect the health of employees by avoiding or at least minimising exposure to hazardous substances and thus to prevent accidents and illnesses caused by hazardous substances. If these limit values are complied with, it can be assumed that employees will not fall ill and that their working capacity will be permanently maintained.

In order to achieve this goal and at the same time prevent the formation of hazardous explosive atmospheres, ventilation measures or the extraction of hazardous substances at the point of origin are of outstanding importance.

Technical measures have long been established in practice. However, these must be differentiated depending on the activity, in order to extract hazardous substances safely.

1. Passive storage of hazardous substances

Containers for hazardous substances in the safety cabinet or storage room are tightly closed and are not filled, emptied or opened for any other purposes.

In these applications, technical ventilation of the storerooms can be achieved by connecting to an on-site exhaust air system or recirculating air filter devices. If permanent technical ventilation is not possible, alternative measures must be taken to avoid exposing employees to health risks and to ensure explosion protection.

You will find suitable and supplementary products on the following pages in this catalogue.



2. Active storage of and working with hazardous materials (e.g. decanting, collecting, etc.)

Hazardous substances are stored in transportable containers and used at the place of storage as removal or collection containers or opened for other purposes.

In these cases, a higher risk of exposure to hazardous substances can be assumed. In principle, therefore, no filling should be carried out in a storeroom. In practice, however, this may be necessary for the decanting of smaller quantities or for the disposal of solvents. Such applications should be carried out at technically ventilated safety storage cabinets or – even better – in adequate workplaces for hazardous substances. You will find safe product solutions in this catalogue.



The lower explosion limit of a substance is many times higher than the occupational exposure limit of a substance. Therefore, always ensure adequate ventilation and thus safely comply with both limit values.





Extraction of hazardous materials

Do safety storage cabinets have to be technically ventilated?

1.

The legislative authority has facilitated the operation of safety storage cabinets without technical ventilation on the basis of **TRGS 510**, Annex 3, 2.2. If technical ventilation is not carried out in the long-run, contingency measures must be implemented, which ensure comparable explosion protection. (Applicable for German market).

2.

Please bear in mind that other regulations in addition to **TRGS 510** (Annexe 3) can also make technical ventilation necessary. For example, if corrosive or poisonous substances are stored or there is unpleasant odour for the employees due to the substances stored, a technical ventilation of the safety storage cabinet must be planned as a rule; for this, please refer to the Ordinance on Hazardous Substances or Workplaces Ordinance.

3.

With the **recirculating air filter system UFA.025.030**, it is also possible to ensure a technical ventilation of safety storage cabinets without an expensive exhaust fan and by avoiding explosion protection measures in a cost-effective manner!

Please adhere to the country-specific terms of use binding for you. In case of any doubt, the possible applications must be agreed with the relevant authority having jurisdiction.

What are the possible ventilation options?

Natural ventilation

- + No cost-intensive exhaust air ducts are necessary
- Explosion zones must be permanently ensured around the safety storage cabinet
- Possible health risk to the employees
- Ignition sources must still exist inside the safety storage cabinet

Technical ventilation using Local Exhaust Ventilation (LEV)

- + No health risk to the employees
- + All the hazardous materials (also acid and base vapours) will be eliminated
- Cost-intensive exhaust air ducts with possible wall/ceiling breaks will be necessary
- Installation of the safety storage cabinet becomes inflexible
- Energy consumption due to heat losses in the exhaust air

Technical ventilation using a recirculating air filter system

- + No health risk to the employees/workers
- + No cost-intensive exhaust air ducts are necessary
- + Flexible installation of the safety storage cabinet
- + No energy losses due to exhaust duct outwards
- + Permanent electronic monitoring of the exhaust air volume
- + Tested and certified system
- Only solvent vapours (hydrocarbons) can be filtered



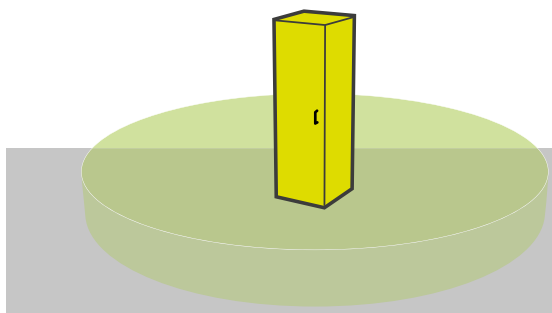
If you have any further questions on ventilation of safety storage cabinets, please contact us. Our employees will be happy to help you.

Please adhere to the country-specific regulations and provisions that are applicable for you.



Area classification for flammable liquids – storage in a safety storage cabinet (DGUV-standard 113-001, collection of examples 2.2.8)

NO AREA CLASSIFICATION



Case A: the LEL (lower explosion limit) is sufficiently below the flashpoint as the flashpoint of the flammable liquid is sufficiently above the storage temperature (refer to TRGS 721 point 3.2 (3))

OR

Case B: the flashpoint is **not** sufficiently above the storage temperature (refer to TRGS 721 point 3.2 (3))

Technical ventilation is available and the following conditions are fulfilled:

- container securely closed, regularly checked for leakage
- sealed containers only (no filling or decanting, no sampling)
- dried containers, no external flammable liquid residue

Protective measures:

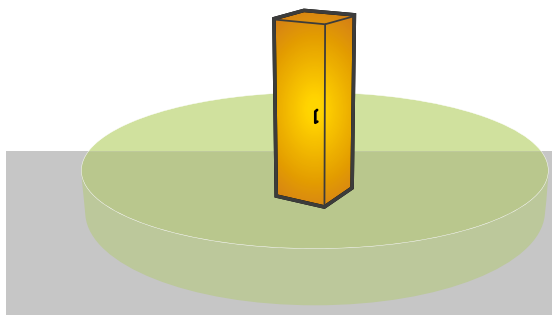
Case A: in accordance with TRGS 722, point 2.3.2

Case B: in accordance with TRGS 722, point 2.4.4.3

Case A and B: in accordance with TRGS 724, none

Area classification ZONE 2 inside the cabinet

No area classification outside the cabinet



the flashpoint is not sufficiently above the storage temperature (refer to TRGS 721, point 3.2 (3))

Case C: technical ventilation is available, the conditions for area classification (**Case B**) are not fulfilled in all points, containers are however tightly closed

OR

Case D: natural ventilation is available and the following conditions are fulfilled:

- container securely closed, regularly checked for leakage
- sealed containers only (no filling or decanting, no sampling)
- dried containers, no external flammable liquid residue

Protective measures:

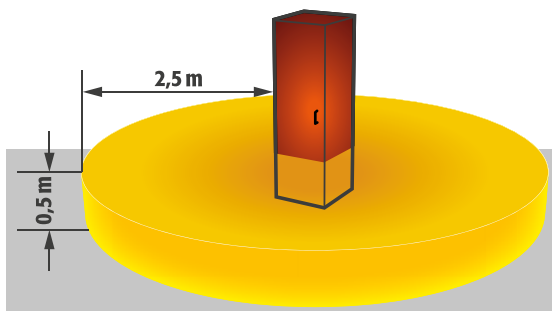
Case C: in accordance with TRGS 722, point 2.4.4.3

Case D: in accordance with TRGS 722, point 2.4.4.2

Case C and D: in accordance with TRGS 724, none

Area classification ZONE 1 inside the cabinet

Area classification ZONE 2 outside the cabinet



the flashpoint is **not** sufficiently above the storage temperature (refer to TRGS 721, point 3.2 (3))

Case E: natural ventilation is available, the conditions for area classification (**Case D**) are not fulfilled in all points, containers are however tightly closed

Protective measures:

Case E: in accordance with TRGS 722, point 2.4.4.2

Case E: in accordance with TRGS 724, none

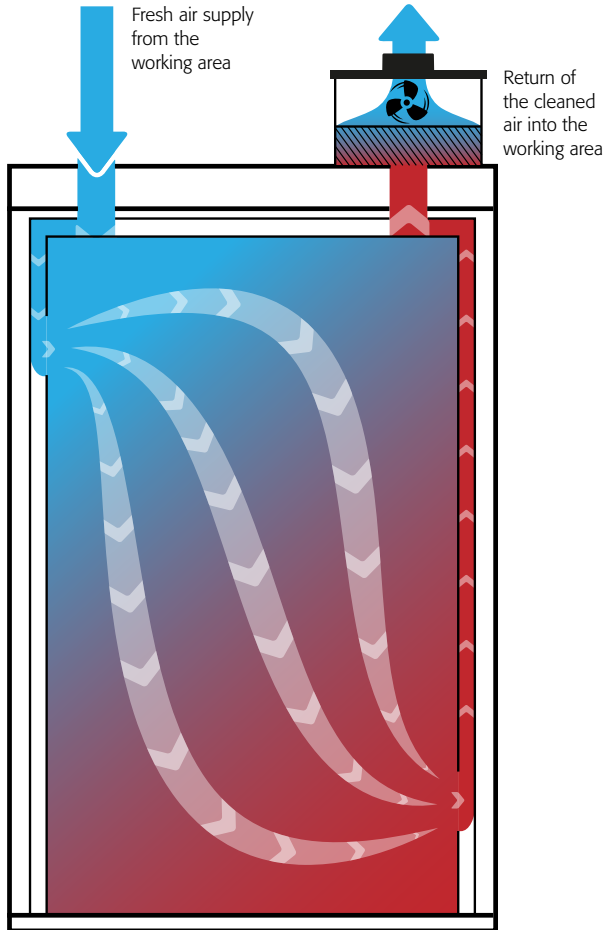
Defining the zones for avoiding ignition sources in accordance with TRGS 723

The inside of the exhaust air duct is to be classified in the same zone as the inside of the safety storage cabinet.



Recirculating air filter systems

The flexible solution for complying with national occupational exposure limits and for avoiding a build-up of explosive atmospheres in solvent safety cabinets



Your advantages

- » Avoid complex wall and ceiling openings and expensive exhaust air ducts
- » High flexibility in choosing the installation location
- » Active personal protection through safe capture of harmful vapours with retention in the filter system
- » Very low noise, only approx. 23 dB (A)
- » Principle avoidance of hazardous area zones inside and around the safety storage cabinet

Product features and commissioning:

Filter technology

- Activated carbon (main filter) and broadband activated carbon (secondary filter) as absorbent filter media
- Filter housing made of reusable plastic (ABS) - used filters are sustainably reprocessed after return
- In the unlikely event of a filter breach, the secondary filter provides additional safety

Exhaust air monitoring

- Permanent, electronic monitoring of the exhaust air volume
- Visual and audible alarm with potential-free alarm contact

Filter monitoring

- Permanent monitoring of the filter saturation
- 2-stage alarm: optical via the display, acoustic via warning tone and with potential-free alarm contact

Assembly, easy and safe in only 2 steps:

- Position the recirculation filter unit on the cabinet ceiling
- Plug in the mains supply
- Use the optional potential-free contact to give an alarm

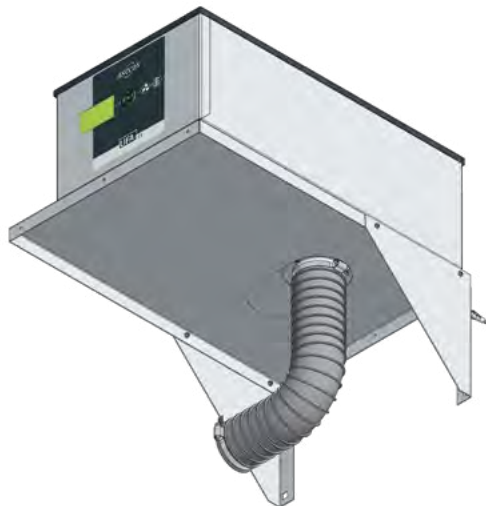




Order No. 39306



Order No. 39306 + 26885



Order No. 39306 + 23458

Please note the country-specific terms of use that are binding for you. In case of doubt, possible uses must be agreed with the competent authority.

Recirculating air filter system – avoid complex wall breakthroughs and expensive exhaust air ducts

- High flexibility in choosing the installation location
- Active personal protection through safe capture of harmful vapours with retention in the filter system
- Very low noise, only approx. 23 dB (A)
- ATEX compliant: **CE II 3/-G Ex ic nA IIB T4 Gc**
- Housing made of sheet-steel powder-coated
- With multi-stage filter system, secondary filter, connection cable and mains plug
- Incl. monitoring electronics for exhaust air and filter monitoring and display for status and error indication
- Key control panel for navigation of the functions and status query
- Optical and acoustic alarm including potential-free alarm contact
- Successfully tested by the certified testing institute



The plug-in recirculating air filter system, type UFA.20.30 is capable of retaining solvent vapours (hydrocarbons) permanently up to a filter saturation of more than 99.999%, under normal operating conditions as well as for a simulated accident in the safety storage cabinet.

Technical data		All models
External dimensions W x D x H	mm	308 x 555 x 256
Nominal voltage	V	85-265
Frequency	Hz	50/60
Max. current consumption	A	0.13
Noise level (approx.)	dB	23.0
Weight	kg	18
Volume flow	m ³ /h	10
Potential-free alarm contact		
Max. continuous current	A	10
Max. nominal voltage AC	V	230
Max. nominal voltage DC	V	30



Model	Order No.
Recirculating air filter system with exhaust air monitoring for tall and underbench cabinets	39306
Recirculating air filter system with exhaust air monitoring for drum cabinets	40259
Accessories	Order No.
Adapter for wall mounting	23458
Adapter as separate housing unit for lateral mounting (suitable for cabinets with depth 574 mm)	26885
New filter (activated carbon)	40202
New secondary filter	40200

Extraction modules



Extraction unit

for wall mounting, with exhaust air monitoring, CE compliant:
 CE Ⓢ II 3/- G Ex ic nA IIC T4, explosion-proof
Order No. 8678

Technical data

HF.EA.8678

External dimensions W x D x H	mm	600 x 375 x 600
Nominal voltage	V	230
Frequency	Hz	50
Max. current consumption	A	0.6
Noise level (approx.)	dB	39.0
Speed	rpm	2780
Weight	kg	25

Extraction module for technical ventilation of up to 4 safety storage cabinets

Safe capturing of escaping vapours and gases at the point where they are released or produced

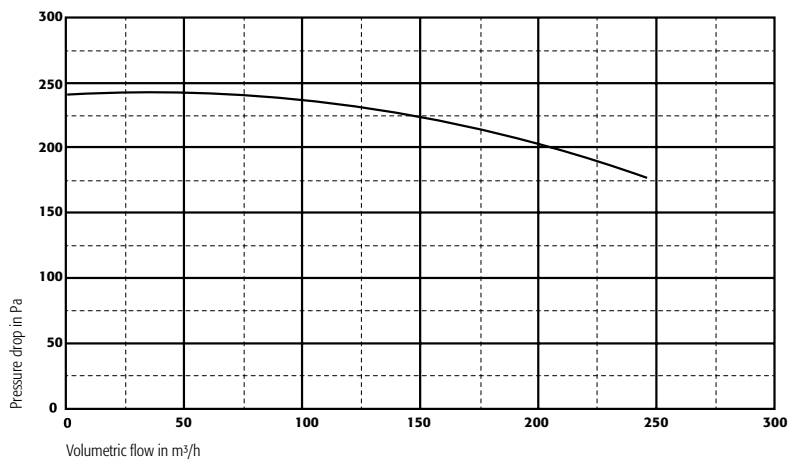
- Suitable for 10 times air change
- Extraction air monitoring with integrated pressure leak detector
- Connecting fitting DN 100/140
- ATEX compliant: CE Ⓢ II 3/- G Ex ic nA IIC T4
- Housing made of sheet steel powder-coated

For wall-mounting

- Including mounting kit



Diagram



Model

Extraction unit with exhaust air monitoring for technical ventilation of up to 4 cabinets

Order No.

8678

Extraction modules



Extraction unit
for installation on the cabinet, for tall cabinets, with exhaust air monitoring, CE compliant: $\text{CE} \text{ II } 3\text{-G Ex ic nA IIC T4}$, explosion-proof, extraction from: EX-Zone 2 / installation: outside any EX-ZONE

Order No. 14220



Extraction unit
for installation on the cabinet, for tall cabinets, CE compliant: $\text{CE} \text{ II } 3\text{-G Ex ic nA IIC T4}$, explosion-proof, extraction from: EX-Zone 2 / installation: outside any EX-ZONE

Order No. 14218

Extraction units/modules for installation on the cabinet or wall mounting – ready to plug-in, easy and quick installation

Safe capturing of escaping vapours and gases at the point where they are released or produced

- Very low noise, ideal for direct installation at the workplace
- With connection cable and power cord
- Connecting fitting DN 75
- ATEX compliant: $\text{CE} \text{ II } 3\text{-G Ex c IIC T4}$

With extraction air monitoring

- Integrated pressure leak detector
- The green LED turns off in case of failure and the red LED lights up

Without extraction air monitoring

- The green LED turns of in case of power failure

Potential free alarm contact

- Additionally available for units with extraction air monitoring

For wall mounting

- Incl. installation bracket, flexible hose, hose clips and installation material

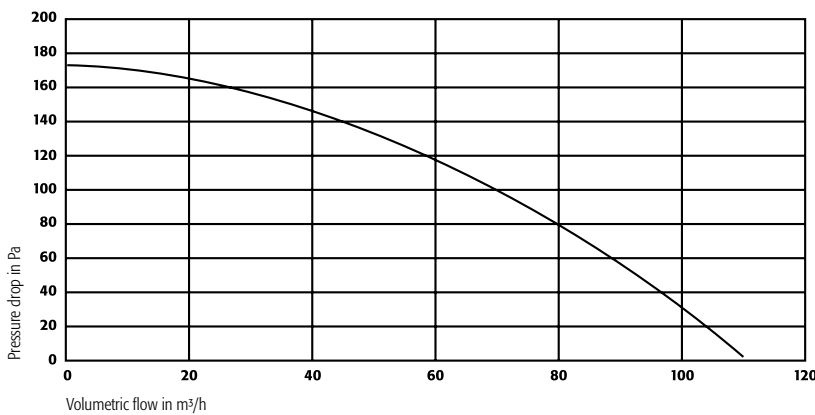


Extraction unit
for wall mounting, for under bench cabinets, with exhaust air monitoring, CE compliant: $\text{CE} \text{ II } 3\text{-G Ex ic nA IIC T4}$, explosion-proof, extraction from: EX-Zone 2 / installation: outside any EX-ZONE

Order No. 24315

Technical data	All models	
External dimensions W x D x H	mm	200 x 400 x 200
Nominal voltage	V	230
Frequency	Hz	50
Max. current consumption	A	0.35
Noise level (approx.)	dB	35.0
Speed	rpm	2400
Weight	kg	11

Diagram



Extraction unit
for wall mounting, CE compliant: $\text{CE} \text{ II } 3\text{-G Ex ic nA IIC T4}$, explosion-proof, extraction from: EX-Zone 2 / installation: outside any EX-ZONE

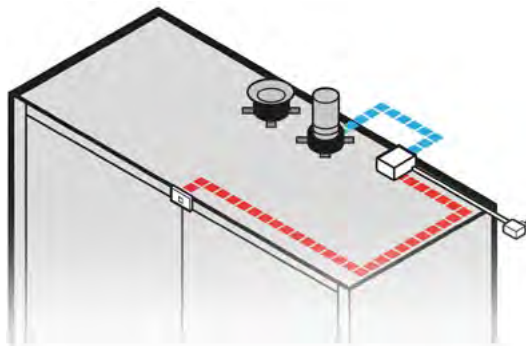
Order No. 17178

Model	Order No.
Extraction unit with exhaust air monitoring	14220
Extraction unit without exhaust air monitoring	17178
Extraction unit with exhaust air monitoring for wall mounting	17177
Extraction unit with exhaust air monitoring	with potential-free alarm contact 16454
Extraction unit with exhaust air monitoring for wall mounting	with potential-free alarm contact 18568
Extraction unit with exhaust air monitoring for wall mounting, for under bench cabinets	24315
Extraction unit with exhaust air monitoring for wall mounting, for under bench cabinets	with potential-free alarm contact 24732
Extraction unit without exhaust air monitoring	14218

Exhaust air monitoring systems



Order No. 39709



Safety Assistance System SAS

for permanent monitoring of **safe and energy-efficient storage** of hazardous substances

- **Maximum safety through permanent monitoring of the technical ventilation (explosion protection and protection of employee health)**
- **High energy efficiency thanks to control of extract air demand according to technical necessity**
- For safety cabinets according to EN 14470-1 as well as gas cylinder cabinets according to EN 14470-2
- Can be installed ex works or retrofitted in existing safety cabinets
- Permanent detection of the exhaust air volume flow by integrated differential pressure measurement with electronic evaluation
- Visual alarm when the minimum exhaust air volume flow is not reached and when doors or pull-outs are not fully closed
- Potential-free alarm contact for central monitoring
- Battery back-up in case of power failure (optional)
- Measuring connection for targeted setting of an energy-efficient extract air volume flow rate

Technical data		SAS
Electronic housing W x D x H	mm	90 x 75 x 45
Nominal frequency	Hz	50/60
Nominal flow	mA	100
Exhaust air volume flow	m ³ /h	10-150



Order No. 14945

Exhaust air monitoring systems – quick installation for a safe and reliable monitoring of the exhaust air

- Electro-pneumatic air exhaust monitoring
- Minimum volume flow 30 m³/h
- With connection cable (3 m) and power cord
- Mounting between cabinet and on-site air exhaust-system
- Connecting fitting DN 75
- Ready to plug-in, quick installation
- ATEX compliant: **CE** II 3/-G Ex n IIC T4

Technical data		APG.26.30-BL
External dimensions W x D x H	mm	300 x 400 x 265
Max. current consumption	A	0.15
Noise level (approx.)	dB	28.0
Weight	kg	10
Min. volume flow	m ³ /h	30

Model	Description	Order No.
SAS for safety cabinets according to EN 14470-1	System for condition monitoring of the min. 10-fold air change with visual display, potential-free switching contact and external differential pressure measuring point	39709
SAS for under bench cabinets according to EN 14470-1	System for condition monitoring of the min. 10-fold air change with visual display, potential-free switching contact and external differential pressure measuring point	39710
SAS for gas cylinder cabinets in accordance with EN 14470-2	System for condition monitoring of the min. 10-fold air change with visual display, potential-free switching contact and external differential pressure measuring point	40174
APG.26.30-BL	Exhaust air monitoring unit with exhaust air monitoring BASIC-LINE	14945



Fan model EH.VE.5794

CE compliant: **CE** II 2/2G Ex h IIB T3 Gb X, explosion-proof, extraction from: EX-zone 1 / installation: EX-zone 1, including shock absorber
Order No. 5794

Fans – powerful and safe ventilation of safety storage cabinets

- Housing and impeller made of polypropylene
- Sealed against gas emission
- Connecting fitting DN 75
- Protection class IP 55
- Air flow 60-250 m³/h
- Total pressure 240-175 Pa
- Incl. PA/GFK console

Technical data **EH.VE.5793**

External dimensions W x D x H	mm	275 x 225 x 312
Nominal voltage	V	230
Frequency	Hz	50
Max. current consumption	A	4.5
Noise level (approx.)	dB	45.0
Speed	rpm	2850
Weight	kg	4.2



Fan

CE compliant: **CE** II 3/_G Ex h IIB T3 Gc X, explosion-proof, extraction from: EX-Zone 2 / installation: outside any EX-ZONE, including shock absorber
Order No. 5793

Technical data **EH.VE.5794**

External dimensions W x D x H	mm	335 x 225 x 312
Nominal voltage	V	3x400
Frequency	Hz	50
Max. current consumption	A	2.9
Noise level (approx.)	dB	45.0
Speed	rpm	2760
Weight	kg	4.8



Hose clamp made from chrome steel, diameter 70–90 mm

Order No. 5797



Butterfly damper made from polyethylene, inner diameter 75 mm

Order No. 5798



Flexible extraction hose made from plastic, inner diameter 75 mm

Order No. 1434



Motor protection switch suitable for fans

Order No. 5799

Model Order No.

Fan EH.VE.5793	5793
Fan EH.VE.5794	5794

Accessories Order No.

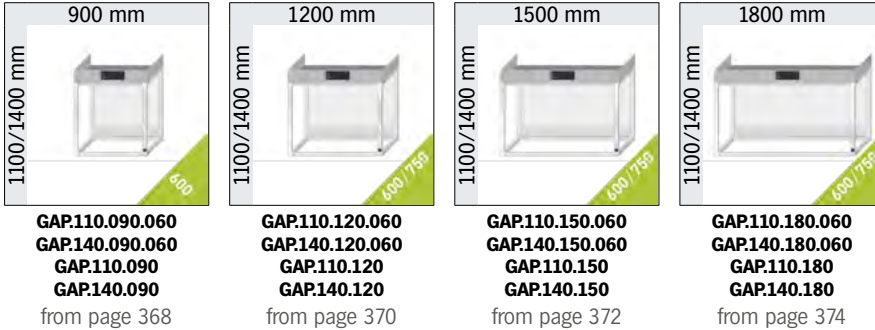
Motor protection switch suitable for fans	5799
Protective housing for motor protection switch	5803
Flexible extraction hose made from plastic, inner diameter 75 mm	1434
T-piece made from PVC, inner diameter 75 mm	8681
Butterfly damper made from polyethylene, inner diameter 75 mm	5798
Hose clamp made from chrome steel, diameter 70–90 mm	5797



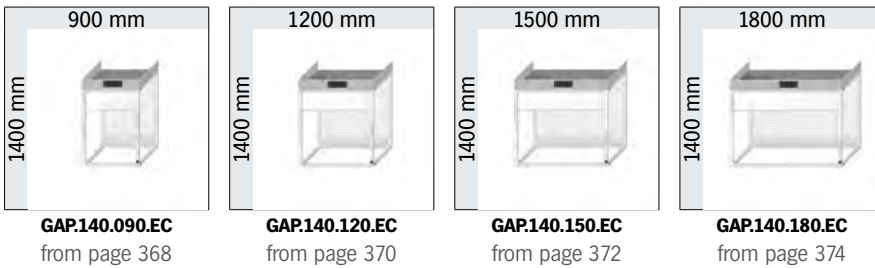


Overview

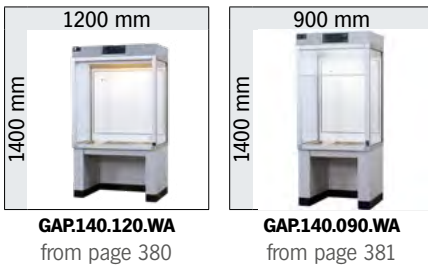
Hazardous material work stations depth 600 mm and 750 mm



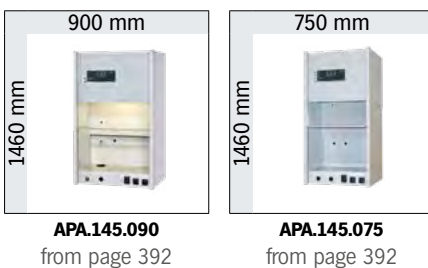
Hazardous material work stations depth 600 mm and 750 mm



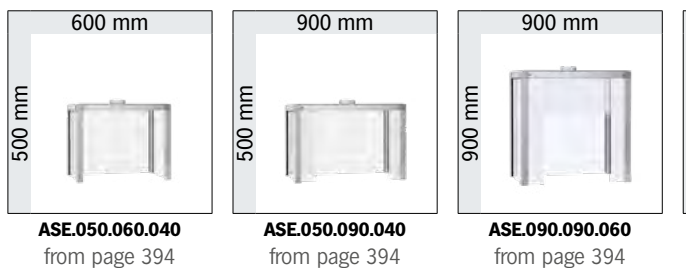
Weighing work stations



Pharmaceutical exhaust



Suction hoods



Are you working with hazardous materials at your workplace?

Legal requirements for employers have steadily increased in recent years and although these are tending towards **deregulation**, they do, however, confer with them a **higher degree of responsibility**.

Air is a suitable medium to move hazardous materials from one hazardous area to another such as, for example all types of filters or to areas of higher dilutions. The primary aim is, above all to protect personnel against harmful vapours.

A wide range of applications.

Along with traditional laboratories, such as those mentioned in the guidelines "Working Safely in Laboratories", (German regulations BGI 850-0), there are many other workplaces where hazardous materials are handled in some form or another. These are, for example:

- machines (for cooling, grinding, dust, chips ...)

- storage (solvents, chemicals...)
- workshops (with soldering, welding, bonding, cleaning, painting, grinding areas...)
- working with solvents (cleaning, decanting, adhesive bonding, painting)
- or medical pathology

The following diagram provides the user and employer (at the workplace) with an overview to quickly find practical solutions to work-related issues.



effectiveness

- Fume cupboard according to EN 14175-3
- Hazardous material work station with volume flow monitoring, tested in accordance with EN 14175-3
- Pharmaceutical exhaust according to EN 12924 part 4: 2012
- Suction hoods without volume flow monitoring, tested in accordance with EN 14175-3
- Spot and source extraction
- Various bench extraction systems

Technical solutions are always preferable to organisational and personal measures!

The solutions

How does the asecos hazardous materials work station work?

The capacity of the hazardous material work station to hold pollutants in check depends to a large extent on the air speeds achieved by the device's inlet air.

Increasing the inlet air flow increases the exhaust air flow at the same time. High air speeds are needed in the area of the front opening in order to capture pollutants optimally and direct them elsewhere.

It is only this interaction that can prevent the possibility of pollutants "rebounding" from the rear wall and being pushed forwards out of the hazardous material work station.

Fresh air curtain

Thanks to the optimised exhaust air ducts, and to the use of fresh air curtains in the upper and lower parts of the front opening, the asecos hazardous material work station can satisfy the requirements described above:

- Air supply to the fresh air curtain through a powerful radial fan
- Air required is sucked in from the work area
- Fresh air transported through the aluminium frame sections jointed at corner nodes
- Excess pressure developed in the tubular frame feeds the fresh air nozzles, which point inwards at 45°
- Hazardous materials (gases, vapours or suspended solids) present or being generated in the working area are securely captured and transported back towards the rear wall
- For optimised evacuation, efficient capture of the hazardous materials through the suction slots and transfer to the exhaust air system, the hazardous material work station must always be connected to a suitable exhaust air system

Secure function

- Permanent display of the air system parameters through monitoring equipment fitted as standard
- Monitoring the air in the exhaust and supply ducts through pressure measurement
- Integrated pressure cells with adjustable nominal value, adjusted for the required (minimum) quantities
- Alarm signal (audible and visible) given if the parameters drift outside a 10% tolerance from the specified figures. The

visual alarm only stops when the nominal values are reached again.

- Optional isolated alarm contact for signaling to a central control point
- Integrated back-up battery to maintain function of the monitoring unit in the event of a power failure

Secure pollutant capture

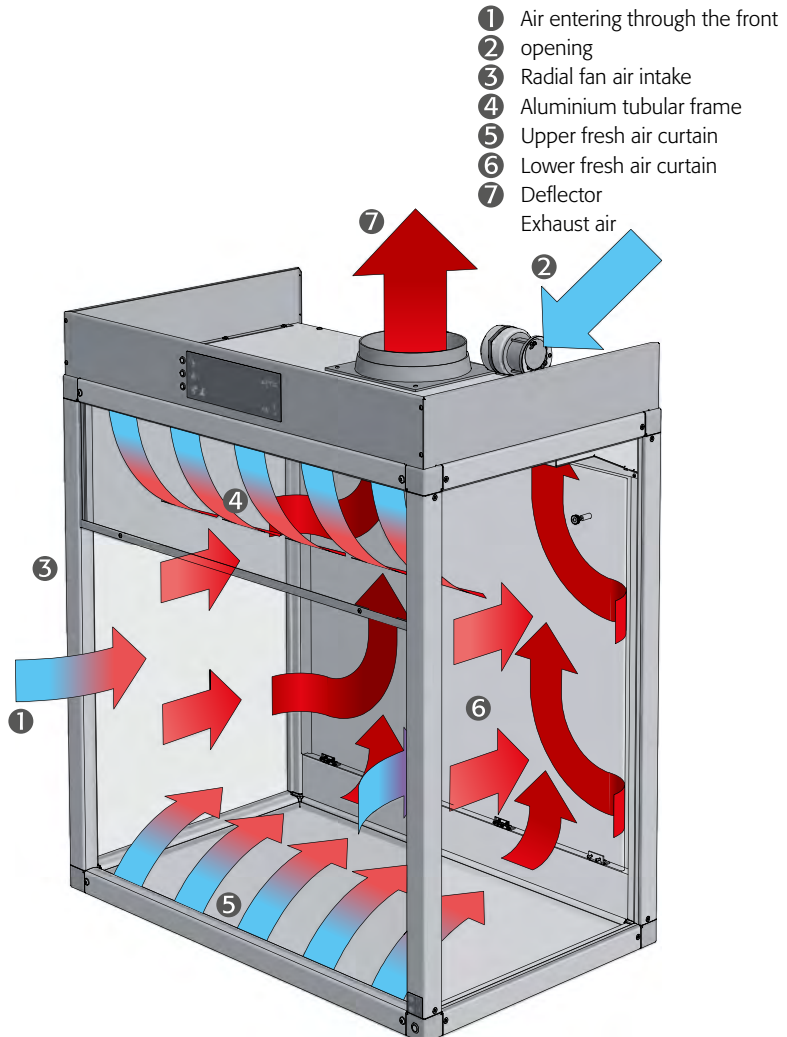
The hazardous material work station offers the user a highly efficient form of pollutant capture through blowing carefully directed fresh air curtains at the front, and through a vacuum at the rear wall.

Conclusion

The hazardous material work stations from asecos offer

- › optimal matched fresh air curtains in the region of the front opening
- › optimised exhaust air ducts
- › equipment to monitor the air parameters as standard

and so guarantee the user the highest levels of safety and protection against hazardous substances.



Ventilation testing in accordance with EN 14175 – Part 3

What does that mean?

EN 14175 consists of the following parts:

Part 1: Terms

Part 2: Requirements for safety and capacity

Part 3: Type test methods

Part 4: On-site test procedure

Part 5: Recommendations for installation and servicing

Part 6: Exhausts with regulated volume flow rates

Part 7: Fume cupboards for special application with high thermal load and/or acidic load

Aim:

The aim of Part 3 of the European standard EN 14175 is to specify the type testing procedure for evaluating the safety and the airflow capacity of exhaust equipment.

In accordance with the hazardous materials regulations and the workplace regulations, hazardous vapours, gases or suspended solids that are released must be fully captured at the place where they emerge or where they are created before they can damage health or the environment.

The asecos hazardous material workplace is a highly effective way of ensuring that no vapours, gases or suspended solids involved in handling hazardous working materials (for instance when filling containers, gluing, cleaning, preparing, weighing etc.) pollute the breathable air.

This has been proven in tests that accord with EN 14175 Part 3, Type Testing Procedure for Exhausts, paragraph part 5.4.4 (Robustness of the retention capacity), if properly used they also ensure that no explosive gas-air mixtures accumulate inside the device (proven by an additional test according with DIN 12924 Part 1, Concentration of hazardous gases inside devices).

Comment:

The lowest known explosion limits are around 6000 ppm (the lower explosive limit (LEL) of hydrogen). Testing in accordance with DIN 12924 Part 1 for the maximum pollutant concentration in the interior of the device defines a maximum permissible concentration of 2000 ppm of pollutant (which represents a safety factor of at least 3). In this test it has been clearly demonstrated that the maximum pollutant concentration in the asecos hazardous material workplace has not exceeded 320 ppm. This offers the user a safety level that is 20 times higher and thereby far exceeds the requirements of DIN 12924 Part 1.

All tests have been carried out by recognised and certified test institutes.

Test setup:

- In order to test the robustness of the retention capacity, nine samplers are positioned on a grid directly in front of the hazardous material workstation in a measuring plane that is parallel to the front opening (refer also here to figure 2).
- In addition, a flat, rectangular board with a height of 1900 mm and a width of 400 mm (movable along a line parallel to the front opening) is constructed in front of the hazardous material workstation.
- When testing the robustness of the capture capacity, the board is moved back and forth at a speed of 1 m/s transverse to the front side, across the full width of the hazardous material work station.
- A mixture of sulphur hexafluoride (SF₆) and nitrogen (N₂) is used as a test gas, in which the proportion of SF₆ by volume is 10%.

Test procedure:

- The board which is vertical and oriented at a right angle to the workplace, is moved back and forth at a speed of 1 m/s transverse the front face.

- At each side the board is moved to a point at least 600 mm beyond the total width of the workplace.
- Thirty seconds elapse between each transit. The concentration of test gas is measured and recorded.
- The movement of the plate is started after 60 s and six complete transits are carried out.
- The gas analyser continues to measure the signal for a further 30 s.
- The test gas outlet is shut off, and the data evaluated.

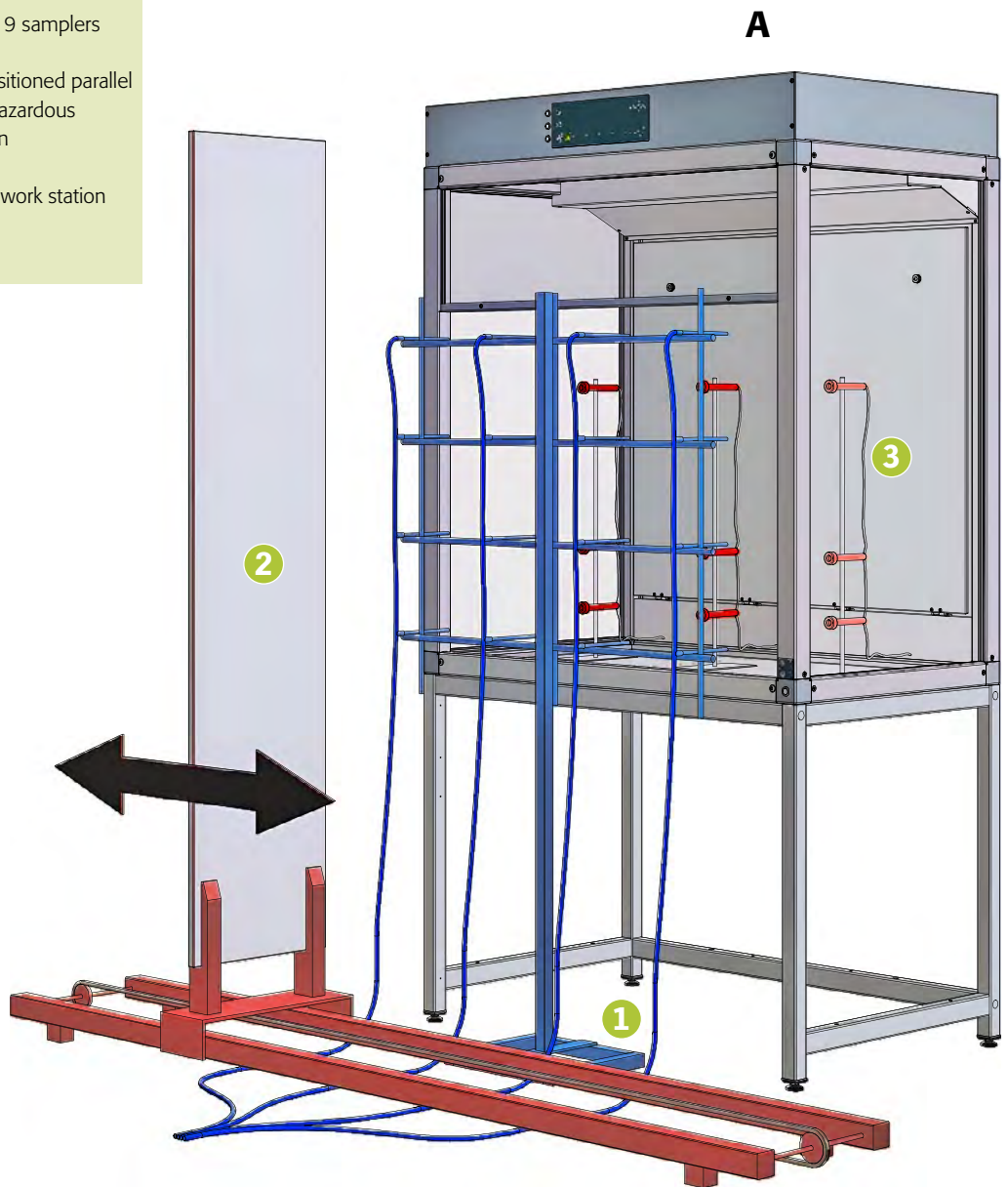
All the evaluated measurements are collected and listed on the test report. The test is considered passed if the test limit value of 0.65 ppm is not exceeded.

The results achieved in the tests underline the outstanding performance of the asecos hazardous material work stations.

CONCLUSION:

If the hazardous material work station is used properly, the resulting pollutant concentrations are far below the levels permitted by DIN 12924 Part 1, thus preventing the formation of explosive gas-air mixtures!

- 1 Measuring grid with 9 samplers
- 2 Moveable board positioned parallel to the front of the hazardous material workstation
- 3 Hazardous material workstation



GAP-LINE

The best possible protection for daily work with hazardous substances: Even more sustainable and comfortable GAP-LINE hazardous substance workstations from asecos

Many work processes require individual solutions for the handling of hazardous materials. The right product can be found easily with the optimised asecos GAP-LINE hazardous substance workstations.

These updates make the new asecos hazardous substance workstations even more efficient:



Optimised airflow

...due to significantly enlarged exhaust air nozzles, through which the hazardous substance vapours are sucked up. With the enlargement of the exhaust air spigot from 160 mm to 250 mm and the reduction to a single exhaust air spigot, the pressure loss is reduced by more than 50%, meaning the on-site fan can be smaller, less powerful and thus more energy-efficient.



Less is more

In the course of the energy optimisation of the GAP models, LEDs illuminate the work surface. Compared to the previously used fluorescent tubes, power consumption is significantly reduced and the brightness of the work surface is more than doubled at the same time (> 500 lux).



Improved ease of use

Thanks to the optimised design of the indicator lights and the head, the display is now easier to read. As soon as the appliance is switched on, a white indicator light signals that the appliance is ready for operation.



More safety through small changes

... is guaranteed by built-in digital pressure monitoring. The air volumes in the supply and exhaust air ducts are controlled by precise pressure measurement. Defined deviations from target values are indicated by an optical and acoustic signals. The asecos service app now makes it easy to check pressure loss values and air volumes. Manual intervention in the exhaust air duct is not necessary.



Convenient working

The larger work surfaces make working even more comfortable. The media supply can be integrated into the hazardous substance workstation as usual.



ECO hazardous substance workstation

In addition to the facelift of the asecos GAP-LINE, an ECO version of the hazardous substance workstation is now available: ECO-GAP features an internal height of 1,110 mm for high apparatus but is significantly more economical than comparable units because the height of the front opening is reduced to 830 mm by a transparent panel to optimise ventilation. The minimum volume flow is greatly reduced by the panel.

	Previous GAP.125.180	New GAP.140.180	New GAP.140.180.EC
Amount of air ducts	2	1	1
Diameter of air ducts	160 mm	250 mm	250 mm
Volumetric flow rate (minimum)	980 m ³ /h	980 m ³ /h	650 m ³ /h
Differential pressure	228 Pa [2x114 Pa]	116 Pa	50 Pa

Hazardous material work stations with fresh air curtain

1 Extraction air monitoring

- With optical and acoustic alarm
- With potential-free switching contact as standard, e.g. for controlling existing exhaust air units
- Potential-free alarm contact optional



2 Glare-free lighting

- Modern bright LED lamp, glare-free arrangement
- LED light 4000 K neutral white (min. 500 lux on the working surface)
- Lighting starts when the hazardous substance workstation is safe to operate and ready for use



3 Aluminium tubular frame design

- Robust, rigid design, low weight, low floor stress
- Anodised surface, chemically resistant
- Integrated on/off switch



4 Electrical sockets with earthing contact

- Splash-proof IP 54, integrated into the media duct as standard (min. 2)
- Additional sockets by request (sockets also possible without media duct)



5 Transparent side panes

- Optimum brightness in the hazardous material work station, transparent side panes made from 5 mm toughened safety glass
- Closed version also available as an option, special material boards coated in melamine resin



6 Deflector

- Easily dismantled for optimum cleaning
- Easy cleaning throughout the interior
- A transparent version of the rear wall and deflector is optionally available, ideal for placement in the middle of a room



7 Media duct

- Optional, for fitting a wide range of media supplies such as water, gas, compressed air etc.



8 Working surfaces

- Choose, according to need, from: special material board coated in melamine resin, 1.4301 stainless steel or technical ceramic (high resistance to many acids and alkalis)
- Also available without a working surface, ideal for mounting on existing working surfaces



9 Support frames

- Can be chosen for standing or sitting work
- Strong tubular frame design, material strength 4 mm, light grey powder-coated (similar to RAL 7035)
- Height can be set by means of adjustable feet, covers optionally available



10 Perfectly complemented with type 90 safety storage under bench cabinets

- Safely store and dispose of required hazardous materials directly at the point of use





GAP-
LINE

GAP-LINE | width 90 cm



GAP.110.090



GAP.140.090.EC

OUR HAZARDOUS SAFETY STORAGE UNDER BENCH CABINETS

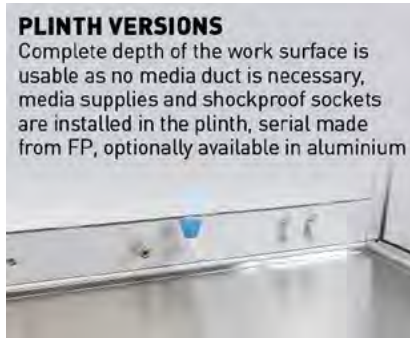
... can be found on the pages of the chapter **UB-LINE** in this catalogue.



Further information on these models from page 220

PLINTH VERSIONS

Complete depth of the work surface is usable as no media duct is necessary, media supplies and shockproof sockets are installed in the plinth, serial made from FP, optionally available in aluminium



DIFFERENT WORKING SURFACES

Choose, according to need, from: special material board coated in melamine resin, 1.4301 stainless-steel or technical ceramic

Basic model*	W x D x H (mm)	Nominal volume flow (m3/h)	Exhaust air spigot	Pressure drop in Pa	Order No.
GAP.110.090.060	900 x 600 x 1100	550	1	82	40563
GAP.140.090.060	900 x 600 x 1400	720	1	140	40581
GAP.110.090	900 x 750 x 1100	550	1	82	40564
GAP.140.090	900 x 750 x 1400	720	1	140	40582
GAP.140.090.EC	900 x 750 x 1400	550	1	82	41042

Package article based on	with the following components	Order No.
GAP.110.090.060	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40563-901
GAP.140.090.060	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40581-901
GAP.110.090	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40564-901
GAP.110.090	working surface incl. sink no. 9 (200 x 400 x 170 – L x W x H in mm) and 1 1/2" outlet (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40564-902
GAP.140.090	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40582-901
GAP.140.090	working surface incl. sink no. 9 (200 x 400 x 170 – L x W x H in mm) and 1 1/2" outlet (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40582-902

Hazardous material work station

Basic model*	Order No.
GAP.110.090.060	40563
GAP.140.090.060	40581
GAP.110.090	40564
GAP.140.090	40582
GAP.140.090.EC	41042

* basic model = without any further option, only for installation on existing working surfaces.

GAP.110.090.060

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32409
Working surface	brushed stainless steel	790 x 490	32826
Working surface	ceramic	790 x 490 x 8	32836
Working surface	panel melamine resin-coated RAL 7035	790 x 490 x 10	32064
Aluminium base	aluminium anodised		32853
Media duct with working surface with 2 sockets	aluminium / stainless steel		16478
Media duct with working surface with 2 sockets	aluminium / ceramic		16479
Support frame for seated activities	powder-coated steel RAL 7035	900 x 600 x 685	41053
Support frame for standing activities	powder-coated steel RAL 7035	900 x 600 x 865	41054
Support frame for standing activities with cover; for cabinet width 59 cm	steel powder-coated / panel melamine resin-coated RAL 7035	900 x 600 x 865	41070
	PVC		41046

GAP.140.090.060

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32892
Working surface	brushed stainless steel	790 x 490	32826
Working surface	ceramic	790 x 490 x 8	32836
Working surface	panel melamine resin-coated RAL 7035	790 x 490 x 10	32064
Aluminium base	aluminium anodised		32853
Media duct with working surface with 2 sockets	aluminium / stainless steel		16478
Media duct with working surface with 2 sockets	aluminium / ceramic		16479
Support frame for seated activities	powder-coated steel RAL 7035	900 x 600 x 685	41053
Support frame for standing activities	powder-coated steel RAL 7035	900 x 600 x 865	41054
Support frame for standing activities with cover; for cabinet width 59 cm	steel powder-coated / panel melamine resin-coated RAL 7035	900 x 600 x 865	41070

GAP.110.090

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32409
Working surface	brushed stainless steel	790 x 640 x 15	32830
Working surface	ceramic	790 x 640 x 8	32840
Working surface	panel melamine resin-coated RAL 7035	790 x 640 x 10	32822
Aluminium base	aluminium anodised		32853
Media duct with working surface with 2 sockets	aluminium / stainless steel		16334
Media duct with working surface with 2 sockets	aluminium / ceramic		16335
Support frame for seated activities	powder-coated steel RAL 7035	900 x 750 x 685	41055
Support frame for standing activities	powder-coated steel RAL 7035	900 x 750 x 865	38593
Support frame for standing activities with cover; for cabinet width 59 cm	steel powder-coated / panel melamine resin-coated RAL 7035	900 x 750 x 865	41071
	PVC		41046

GAP.140.090 / GAP.140.090.EC

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32409
Working surface	brushed stainless steel	790 x 640 x 15	32830
Working surface	ceramic	790 x 640 x 8	32840
Working surface	panel melamine resin-coated RAL 7035	790 x 640 x 10	32822
Aluminium base	aluminium anodised		32853
Media duct with working surface with 2 sockets	aluminium / stainless steel		16334
Media duct with working surface with 2 sockets	aluminium / ceramic		16335
Support frame for seated activities	powder-coated steel RAL 7035	900 x 750 x 685	41055
Support frame for standing activities	powder-coated steel RAL 7035	900 x 750 x 865	38593
Support frame for standing activities with cover; for cabinet width 59 cm	steel powder-coated / panel melamine resin-coated RAL 7035	900 x 750 x 865	41071
	PVC		41046

All models

Accessories	Equipment	Information	Order No.
media supply	water with stop valve	integrated in media duct	25417
media supply	butane with stop valve	integrated in media duct	25418
media supply	compressed air with stop valve	integrated in media duct	25419
media supply	industrial compressed air outlet	integrated in media duct	24268
media supply	industrial compressed air outlet	integrated in base or media slot	32884
media supply	water with stop valve	integrated in base or media slot	32889
media supply	compressed air with stop valve	integrated in base or media slot	32885
media supply	butane with stop valve	integrated in base or media slot	32886
socket(s)	1 piece 400V, IP 44, up to 16A	integrated in media duct or media slot	32848
socket(s)	1 pair 230 V, IP54, up to 16A	integrated in media duct or media slot	32850
socket(s)	surface-mounted sockets 1 pair 230 V, IP44, up to 16A	integrated in base	32256
earthing link	as earthing pin	mounted in the profile	32851
electrical component	potential-free alarm contact with fitting plug		32846

PLEASE NOTE: For technical data and technical drawings of hazardous materials work stations see page 378

GAP-LINE | width 120 cm



GAP.110.120.060



GAP.140.120.EC

ARE YOU LOOKING FOR A SUITABLE HAZARDOUS MATERIALS WORKSTATION?

Our optimised online product configurator helps you, step by step, to find the suitable product.

Take the test:
www.asecos-configurator.com

LED LIGHTING

Equipped with environmentally friendly lighting with 4000 K neutral white. Optimum work due to min. 500 lux on the work surface.

DISPOSAL SYSTEMS

for your hazardous work station, see chapter **UB-LINE**.

Basic model*	W x D x H (mm)	Nominal volume flow (m3/h)	Exhaust air spigot	Pressure drop in Pa	Order No.
GAP.110.120.060	1200 x 600 x 1100	550	1	60	40566
GAP.140.120.060	1200 x 600 x 1400	720	1	103	40586
GAP.110.120	1200 x 750 x 1100	550	1	60	40567
GAP.140.120	1200 x 750 x 1400	720	1	103	40587
GAP.140.120.EC	1200 x 750 x 1400	550	1	60	41043

Package article based on	with the following components	Order No.
GAP.110.120.060	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40566-901
GAP.140.120.060	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40586-901
GAP.110.120	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40567-901
GAP.110.120	aluminium base (aluminium anodised) working surface incl. sink no. 9 (200 x 400 x 170 – L x W x H in mm) and 1 1/2" outlet (stainless steel brush-finished) support frame for standing activities (powder-coated steel)	40567-902
GAP.140.120	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40587-901
GAP.140.120	aluminium base (aluminium anodised) working surface incl. sink no. 9 (200 x 400 x 170 – L x W x H in mm) and 1 1/2" outlet (stainless steel brush-finished) support frame for standing activities (powder-coated steel)	40587-902

Hazardous material work station

Basic model*	Order No.
GAP.110.120.060	40566
GAP.140.120.060	40586
GAP.110.120	40567
GAP.140.120	40587
GAP.140.120.EC	41043

* basic model = without any further option, only for installation on existing working surfaces.

GAP.110.120.060

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32890
Working surface	ceramic	1090 x 490 x 8	32837
Working surface	panel melamine resin-coated RAL 7035	1090 x 490 x 10	32819
Aluminium base	aluminium anodised		32854
Media duct with working surface with 2 sockets	aluminium / stainless steel		16153
Media duct with working surface with 2 sockets	aluminium / ceramic		16482
Support frame for seated activities	powder-coated steel RAL 7035	1200 x 600 x 685	41057
Support frame for standing activities	powder-coated steel RAL 7035	1200 x 600 x 865	41058
Support frame for standing activities with cover; for cabinet width 110 cm	sheet steel powder coated/melamin resin laminated RAL 7035	1200 x 600 x 865	41076
Support frame for standing activities with cover; for cabinet width 59 cm	sheet steel powder-coated / panel melamine resin-coated RAL 7035	1200 x 600 x 865	41073
	PVC		41046

GAP.140.120.060

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32890
Working surface	ceramic	1090 x 490 x 8	32837
Working surface	panel melamine resin-coated RAL 7035	1090 x 490 x 10	32819
Aluminium base	aluminium anodised		32854
Media duct with working surface with 2 sockets	aluminium / stainless steel		16153
Media duct with working surface with 2 sockets	aluminium / ceramic		16482
Support frame for seated activities	powder-coated steel RAL 7035	1200 x 600 x 685	41057
Support frame for standing activities	powder-coated steel RAL 7035	1200 x 600 x 865	41058
Support frame for standing activities with cover; for cabinet width 110 cm	sheet steel powder coated/melamin resin laminated RAL 7035	1200 x 600 x 865	41076
Support frame for standing activities with cover; for cabinet width 59 cm	sheet steel powder-coated / panel melamine resin-coated RAL 7035	1200 x 600 x 865	41073
	PVC		41046

GAP.110.120

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32890
Working surface	brushed stainless steel	1090 x 640	32831
Working surface	ceramic	1090 x 640 x 8	32841
Working surface	panel melamine resin-coated RAL 7035	1090 x 640 x 10	32823
Aluminium base	aluminium anodised		32854
Media duct with working surface with 2 sockets	aluminium / stainless steel		15938
Media duct with working surface with 2 sockets	aluminium / ceramic		15937
Support frame for seated activities	powder-coated steel RAL 7035	1200 x 750 x 685	41059
Support frame for standing activities	powder-coated steel RAL 7035	1200 x 750 x 865	38503
Support frame for standing activities with cover; for cabinet width 110 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1200 x 750 x 865	41077
Support frame for standing activities with cover; for cabinet width 89 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1200 x 750 x 865	41086
Support frame for standing activities with cover; for cabinet width 59 cm	sheet steel powder-coated / panel melamine resin-coated RAL 7035	1200 x 750 x 865	41074
	PVC		41046

GAP.140.120/GAP.140.120.EC

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32893
Working surface	brushed stainless steel	1090 x 640	32831
Working surface	ceramic	1090 x 640 x 8	32841
Working surface	panel melamine resin-coated RAL 7035	1090 x 640 x 10	32823
Aluminium base	aluminium anodised		32854
Media duct with working surface with 2 sockets	aluminium / stainless steel		15938
Media duct with working surface with 2 sockets	aluminium / ceramic		15937
Support frame for seated activities	powder-coated steel RAL 7035	1200 x 750 x 685	41059
Support frame for standing activities	powder-coated steel RAL 7035	1200 x 750 x 865	38503
Support frame for standing activities with cover; for cabinet width 110 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1200 x 750 x 865	41077
Support frame for standing activities with cover; for cabinet width 89 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1200 x 750 x 865	41086
Support frame for standing activities with cover; for cabinet width 59 cm	sheet steel powder-coated / panel melamine resin-coated RAL 7035	1200 x 750 x 865	41074
	PVC		41046

All models

Accessories	Equipment	Information	Order No.
media supply	water with stop valve	integrated in media duct	25417
media supply	butane with stop valve	integrated in media duct	25418
media supply	compressed air with stop valve	integrated in media duct	25419
media supply	industrial compressed air outlet	integrated in media duct	24268
media supply	industrial compressed air outlet	integrated in base or media slot	32884
media supply	water with stop valve	integrated in base or media slot	32889
media supply	compressed air with stop valve	integrated in base or media slot	32885
media supply	butane with stop valve	integrated in base or media slot	32886
socket(s)	1 piece 400V, IP 44, up to 16A	integrated in media duct or media slot	32848
socket(s)	1 pair 230 V, IP54, up to 16A	integrated in media duct or media slot	32850
socket(s)	surface-mounted sockets 1 pair 230 V, IP44, up to 16A	integrated in base	32256
earthing link	as earthing pin	mounted in the profile	32851
electrical component	potential-free alarm contact with fitting plug		32846

PLEASE NOTE: For technical data and technical drawings of hazardous materials work stations see page 378

GAP-LINE | width 150 cm



GAP.110.150



GAP.140.150

ARE YOU LOOKING FOR A SUITABLE HAZARDOUS MATERIALS WORKSTATION?
 Our optimised online product configurator helps you, step by step, to find the suitable product.

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SUPPORT FRAMES
 Height adjustable due to adjustable feet +/- 15 mm, optionally available for either standing or sitting work

LED LIGHTING
 Equipped with environmentally friendly lighting with 4000 K neutral white. Optimum work due to min. 500 lux on the work surface.

Basic model*	W x D x H (mm)	Nominal volume flow (m3/h)	Exhaust air spigot	Pressure drop in Pa	Order No.
GAP.110.150	1500 x 750 x 1100	660	1	77	40570
GAP.110.150.060	1500 x 600 x 1100	660	1	60	40569
GAP.140.150	1500 x 750 x 1400	895	1	105	40592
GAP.140.150.060	1500 x 600 x 1400	895	1	105	40591
GAP.140.150.EC	1500 x 750 x 1400	660	1	60	41044

Package article based on	with the following components	Order No.
GAP.110.150.060	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40569-901
GAP.140.150.060	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40591-901
GAP.110.150	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40570-901
GAP.140.150	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)	40592-901

Hazardous material work station

Basic model*	Order No.
GAP.110.150	40570
GAP.110.150.060	40569
GAP.140.150	40592
GAP.140.150.060	40591
GAP.140.150.EC	41044

* basic model = without any further option, only for installation on existing working surfaces.

GAP.110.150.060

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32895
Working surface	brushed stainless steel	1390 x 490	32828
Working surface version - multi-part	ceramic	1390 x 490 x 8	32838
Working surface	panel melamine resin-coated RAL 7035	1390 x 490 x 10	32821
Aluminium base	aluminium anodised		32855
Media duct with working surface with 2 sockets	aluminium / stainless steel		16487
Media duct with working surface with 2 sockets	aluminium / ceramic		16488
Support frame for seated activities	powder-coated steel RAL 7035	1500 x 600 x 685	41061
Support frame for standing activities	powder-coated steel RAL 7035	1500 x 600 x 865	41062
Support frame for standing activities with cover; for cabinet width 140 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1500 x 600 x 865	41092
	PVC		41046

GAP.140.150.060

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32895
Working surface	brushed stainless steel	1390 x 490	32828
Working surface version - multi-part	ceramic	1390 x 490 x 8	32838
Working surface	panel melamine resin-coated RAL 7035	1390 x 490 x 10	32821
Aluminium base	aluminium anodised		32855
Media duct with working surface with 2 sockets	aluminium / stainless steel		16487
Media duct with working surface with 2 sockets	aluminium / ceramic		16488
Support frame for seated activities	powder-coated steel RAL 7035	1500 x 600 x 685	41061
Support frame for standing activities	powder-coated steel RAL 7035	1500 x 600 x 865	41062
Support frame for standing activities with cover; for cabinet width 140 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1500 x 600 x 865	41092
	PVC		41046

GAP.110.150

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32895
Working surface	brushed stainless steel	1390 x 640	32832
Working surface version - multi-part	ceramic	1390 x 640 x 8	32842
Working surface	panel melamine resin-coated RAL 7035	1390 x 640 x 10	32824
Aluminium base	aluminium anodised		32855
Media duct with working surface with 2 sockets	aluminium / stainless steel		15968
Media duct with working surface with 2 sockets	aluminium / ceramic		15967
Support frame for seated activities	powder-coated steel RAL 7035	1500 x 750 x 685	34040
Support frame for standing activities	powder-coated steel RAL 7035	1500 x 750 x 865	37199
Support frame for standing activities with cover; for cabinet width 110 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1500 x 750 x 865	41088
Support frame for standing activities with cover; for cabinet width 140 cm	sheet steel powder-coated / panel melamine resin-coated RAL 7035	1500 x 750 x 865	41093

GAP.140.150/GAP.140.150.EC

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32895
Working surface	brushed stainless steel	1390 x 640	32832
Working surface version - multi-part	ceramic	1390 x 640 x 8	32842
Working surface	panel melamine resin-coated RAL 7035	1390 x 640 x 10	32824
Aluminium base	aluminium anodised		32855
Media duct with working surface with 2 sockets	aluminium / stainless steel		15968
Media duct with working surface with 2 sockets	aluminium / ceramic		15967
Support frame for seated activities	powder-coated steel RAL 7035	1500 x 750 x 685	34040
Support frame for standing activities	powder-coated steel RAL 7035	1500 x 750 x 865	37199
Support frame for standing activities with cover; for cabinet width 110 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1500 x 750 x 865	41088
Support frame for standing activities with cover; for cabinet width 140 cm	sheet steel powder-coated / panel melamine resin-coated RAL 7035	1500 x 750 x 865	41093

All models

Accessories	Equipment	Information	Order No.
media supply	water with stop valve	integrated in media duct	25417
media supply	butane with stop valve	integrated in media duct	25418
media supply	compressed air with stop valve	integrated in media duct	25419
media supply	industrial compressed air outlet	integrated in media duct	24268
media supply	industrial compressed air outlet	integrated in base or media slot	32884
media supply	water with stop valve	integrated in base or media slot	32889
media supply	compressed air with stop valve	integrated in base or media slot	32885
media supply	butane with stop valve	integrated in base or media slot	32886
socket(s)	1 piece 400V, IP 44, up to 16A	integrated in media duct or media slot	32848
socket(s)	1 pair 230 V, IP54, up to 16A	integrated in media duct or media slot	32850
socket(s)	surface-mounted sockets 1 pair 230 V, IP44, up to 16A	integrated in base	32256
earthing link	as earthing pin	mounted in the profile	32851
electrical component	potential-free alarm contact with fitting plug		32846

PLEASE NOTE: For technical data and technical drawings of hazardous materials work stations see page 378

GAP-LINE | width 180 cm



GAP.110.180.060



GAP.140.180.EC



PLINTH VERSIONS

Complete depth of the work surface is usable as no media duct is necessary, media supplies and shockproof sockets are installed in the plinth, serial made from FP, optionally available in aluminium

OUR HAZARDOUS SAFETY STORAGE UNDER BENCH CABINETS

... can be found on the pages of the chapter **UB-LINE** in this catalogue.

Further information on these models from page 220



DIFFERENT WORKING SURFACES

Choose, according to need, from: special material board coated in melamine resin, 1.4301 stainless-steel or technical ceramic

Basic model*	W x D x H (mm)	Nominal volume flow (m3/h)	Exhaust air spigot	Pressure drop in Pa	Order No.
GAP.110.180.060	1800 x 600 x 1100	770	1	70	40572
GAP.140.180.060	1800 x 600 x 1400	1070	1	135	40594
GAP.110.180	1800 x 750 x 1100	770	1	70	40573
GAP.140.180	1800 x 750 x 1400	1070	1	135	40595
GAP.140.180.EC	1800 x 750 x 1400	770	1	70	41045
Package article based on	with the following components				Order No.
GAP.110.180.060	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)				40572-901
GAP.140.180.060	working surface (stainless steel brush-finished) aluminium base (aluminium anodised) support frame for standing activities (powder-coated steel)				40594-901
GAP.110.180	support frame for standing activities (steel powder-coated) working surface (stainless steel brush-finished) aluminium base (aluminium anodised)				40573-901
GAP.110.180	support frame for standing activities (steel powder-coated) aluminium base (aluminium anodised) working surface incl. sink no. 9 (200 x 400 x 170 – L x W x H in mm) and 1 1/2" outlet (stainless steel brush-finished)				40573-902
GAP.140.180	support frame for standing activities (steel powder-coated) working surface (stainless steel brush-finished) aluminium base (aluminium anodised)				40595-901
GAP.140.180	support frame for standing activities (steel powder-coated) aluminium base (aluminium anodised) working surface incl. sink no. 9 (200 x 400 x 170 – L x W x H in mm) and 1 1/2" outlet (stainless steel brush-finished)				40595-902

Hazardous material work station

Basic model*	Order No.
GAP.110.180	40573
GAP.110.180.060	40572
GAP.140.180	40595
GAP.140.180.060	40594
GAP.140.180.EC	41045

* basic model = without any further option, only for installation on existing working surfaces.

GAP.110.180.060

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32891
Working surface	brushed stainless steel	1690 x 490	32829
Working surface version - multi-part	ceramic	1690 x 490 x 8	32839
Working surface	panel melamine resin-coated RAL 7035	1690 x 490 x 10	32820
Aluminium base	aluminium anodised		32856
Media duct with working surface incl. 4 sockets	aluminium / stainless steel		16493
Media duct with working surface incl. 4 sockets	aluminium / ceramic		16494
Support frame for seated activities	powder-coated steel RAL 7035	1800 x 600 x 685	41064
Support frame for standing activities	powder-coated steel RAL 7035	1800 x 600 x 865	41065
Support frame for standing activities with cover; for cabinet width 140 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1800 x 600 x 865	41095
	PVC		41046

GAP.140.180.060

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32891
Working surface	brushed stainless steel	1690 x 490	32829
Working surface version - multi-part	ceramic	1690 x 490 x 8	32839
Working surface	panel melamine resin-coated RAL 7035	1690 x 490 x 10	32820
Aluminium base	aluminium anodised		32856
Media duct with working surface incl. 4 sockets	aluminium / stainless steel		16493
Media duct with working surface incl. 4 sockets	aluminium / ceramic		16494
Support frame for seated activities	powder-coated steel RAL 7035	1800 x 600 x 685	41064
Support frame for standing activities	powder-coated steel RAL 7035	1800 x 600 x 865	41065
Support frame for standing activities with cover; for cabinet width 140 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1800 x 600 x 865	41095
	PVC		41046

GAP.110.180

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32891
Working surface	brushed stainless steel	1690 x 640	32833
Working surface version - multi-part	ceramic	1690 x 640 x 8	32843
Working surface	panel melamine resin-coated RAL 7035	1690 x 640 x 10	32825
Aluminium base	aluminium anodised		32856
Media duct with working surface incl. 4 sockets	aluminium / stainless steel		15974
Media duct with working surface incl. 4 sockets	aluminium / ceramic		15973
Support frame for seated activities	powder-coated steel RAL 7035	1800 x 750 x 685	41066
Support frame for standing activities	powder-coated steel RAL 7035	1800 x 750 x 865	27243
Support frame for standing activities with cover; for 1100 mm wide under bench cabinet centrally positioned	steel powder-coated / panel melamine resin-coated RAL 7035	1800 x 750 x 865	36123
Support frame for standing activities with cover; for cabinet width 140 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1800 x 750 x 865	41096
Support frame for standing activities with cover; for 1700 mm wide under bench cabinet	steel powder-coated / panel melamine resin-coated RAL 7035	1800 x 750 x 865	41099
	PVC		41046

GAP.140.180/GAP.140.180.EC

Interior equipment	Material	W x D x H (mm)	Order No.
Rear wall; transparent	PMMA (acrylic glass)		32891
Working surface	brushed stainless steel	1690 x 640	32833
Working surface version - multi-part	ceramic	1690 x 640 x 8	32843
Working surface	panel melamine resin-coated RAL 7035	1690 x 640 x 10	32825
Aluminium base	aluminium anodised		32856
Media duct with working surface incl. 4 sockets	aluminium / stainless steel		15974
Media duct with working surface incl. 4 sockets	aluminium / ceramic		15973
Support frame for seated activities	powder-coated steel RAL 7035	1800 x 750 x 685	41066
Support frame for standing activities	powder-coated steel RAL 7035	1800 x 750 x 865	27243
Support frame for standing activities with cover; for 1100 mm wide under bench cabinet centrally positioned	steel powder-coated / panel melamine resin-coated RAL 7035	1800 x 750 x 865	36123
Support frame for standing activities with cover; for cabinet width 140 cm	steel powder-coated / panel melamine resin-coated RAL 7035	1800 x 750 x 865	41096
Support frame for standing activities with cover; for 1700 mm wide under bench cabinet	steel powder-coated / panel melamine resin-coated RAL 7035	1800 x 750 x 865	41099
	PVC		41046

All models

Accessories	Equipment	Information	Order No.
media supply	water with stop valve	integrated in media duct	25417
media supply	butane with stop valve	integrated in media duct	25418
media supply	compressed air with stop valve	integrated in media duct	25419
media supply	industrial compressed air outlet	integrated in media duct	24268
media supply	industrial compressed air outlet	integrated in base or media slot	32884
media supply	water with stop valve	integrated in base or media slot	32889
media supply	compressed air with stop valve	integrated in base or media slot	32885
media supply	butane with stop valve	integrated in base or media slot	32886
socket(s)	1 piece 400V, IP 44, up to 16A	integrated in media duct or media slot	32848
socket(s)	1 pair 230 V, IP54, up to 16A	integrated in media duct or media slot	32850
socket(s)	surface-mounted sockets 1 pair 230 V, IP44, up to 16A	integrated in base	32256
earthing link	as earthing pin	mounted in the profile	32851
electrical component	potential-free alarm contact with fitting plug		32846

PLEASE NOTE: For technical data and technical drawings of hazardous materials work stations see page 378

GAP-LINE | Technical data

Width 90 cm

Technical data	GAP.110.090.060	GAP.140.090.060	GAP.110.090	GAP.140.090	GAP.140.090.EC
External dimensions (mm)					
Height (external)	1100	1400	1100	1400	1400
Height with support frame for sitting work	1785	2085	1785	2085	2085
Height with support frame for standing work	1965	2265	1965	2265	2265
Width (external)	900	900	900	900	900
Depth (external)	600	600	750	750	750
Internal dimensions (mm)					
Clear height	810	1110	810	1110	1110
Width (internal)	865	865	865	865	865
Depth (internal)	500	500	650	650	650
Usable work surface (mm)					
Width usable work surface	790	790	790	790	790
Depth usable work surface with media duct	380	380	530	530	530
Depth usable work surface	490	490	640	640	640
Max. charge of the working surface	3000 N/m ²	3000 N/m ²	3000 N/m ²	3000 N/m ²	3000 N/m ²
Work height (mm)					
Work height sitting	720	720	720	720	720
Work height standing	900	900	900	900	900
Weight (kg)					
Weight	60.70	70.70	66.70	76.70	78.70
Further information					
Point load per support	222 N	250 N	257 N	287 N	287 N
Amount of air ducts	1 piece	1 piece	1 piece	1 piece	1 piece
Nominal volume flow	550 m ³ /h	720 m ³ /h	550 m ³ /h	720 m ³ /h	550 m ³ /h
Differential pressure per air duct	82 Pa	140 Pa	82 Pa	140 Pa	82 Pa
Noise level (approx.)	32.0 dB	32.0 dB	32.0 dB	32.0 dB	32.0 dB
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Power consump. in operation	70 W	70 W	70 W	70 W	70 W
Max. current consumption	0.3 A	0.3 A	0.3 A	0.3 A	0.3 A
Nominal voltage	230 V	230 V	230 V	230 V	230 V

Width 120 cm

Technical data	GAP.110.120.060	GAP.140.120.060	GAP.110.120	GAP.140.120	GAP.140.120.EC
External dimensions (mm)					
Height (external)	1100	1400	1100	1400	1400
Height with support frame for sitting work	1785	2085	1785	2085	2085
Height with support frame for standing work	1965	2265	1965	2265	2265
Width (external)	1200	1200	1200	1200	1200
Depth (external)	600	600	750	750	750
Internal dimensions (mm)					
Clear height	810	1110	810	1110	1110
Width (internal)	1165	1165	1165	1165	1165
Depth (internal)	500	500	650	650	650
Usable work surface (mm)					
Width usable work surface	1090	1090	1090	1090	1090
Depth usable work surface with media duct	380	380	530	530	530
Depth usable work surface	490	490	640	640	640
Max. charge of the working surface	3000 N/m ²	3000 N/m ²	3000 N/m ²	3000 N/m ²	3000 N/m ²
Work height (mm)					
Work height sitting	720	720	720	720	720
Work height standing	900	900	900	900	900
Weight (kg)					
Weight	69.70	80.70	75.70	86.70	89.70
Further information					
Point load per support	260 N	290 N	295 N	325 N	325 N
Amount of air ducts	1 piece	1 piece	1 piece	1 piece	1 piece
Nominal volume flow	550 m ³ /h	720 m ³ /h	550 m ³ /h	720 m ³ /h	550 m ³ /h
Differential pressure per air duct	60 Pa	103 Pa	60 Pa	103 Pa	60 Pa
Noise level (approx.)	32.0 dB	32.0 dB	32.0 dB	32.0 dB	32.0 dB
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Power consump. in operation	70 W	70 W	70 W	70 W	70 W
Max. current consumption	0.3 A	0.3 A	0.3 A	0.3 A	0.3 A
Nominal voltage	230 V	230 V	230 V	230 V	230 V

Width 150 cm

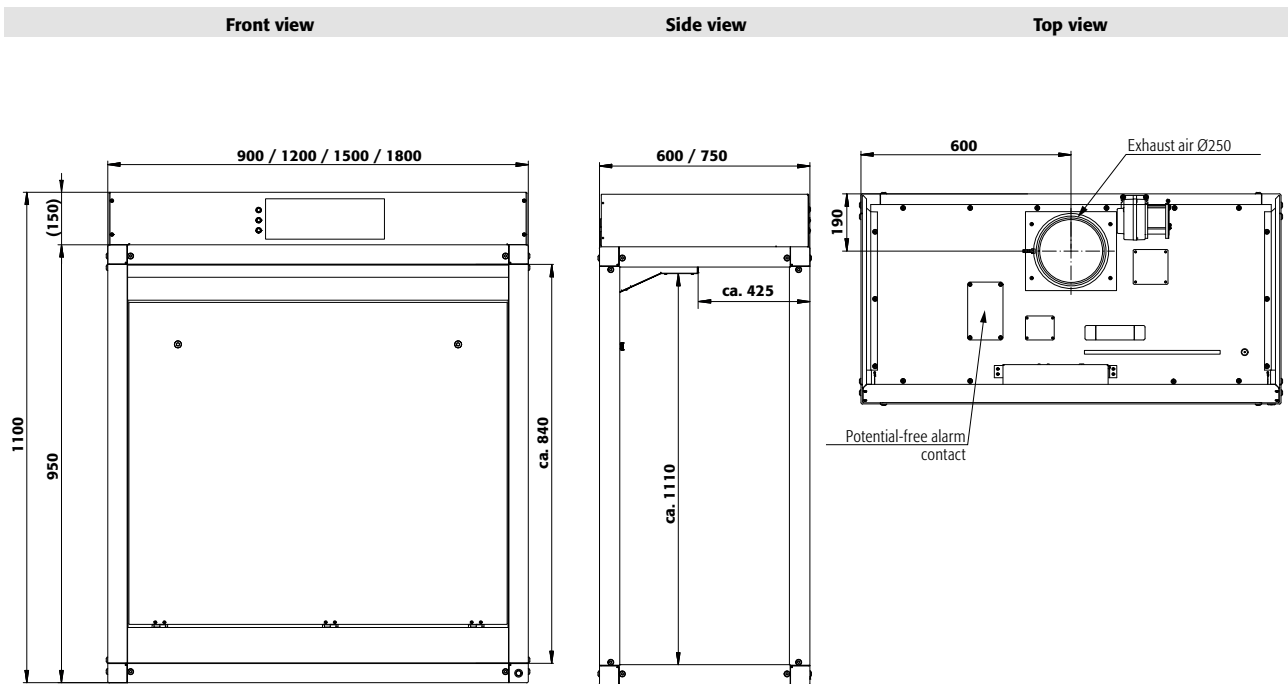
Technical data	GAP.110.150.060	GAP.140.150.060	GAP.110.150	GAP.140.150	GAP.140.150.EC
External dimensions (mm)					
Height (external)	1100	1400	1100	1400	1400
Height with support frame for sitting work	1785	2085	1785	2085	2085
Height with support frame for standing work	1965	2265	1965	2265	2265
Width (external)	1500	1500	1500	1500	1500
Depth (external)	600	600	750	750	750
Internal dimensions (mm)					
Clear height	810	1110	810	1110	1110
Width (internal)	1465	1465	1465	1465	1465
Depth (internal)	500	500	650	650	650
Usable work surface (mm)					
Width usable work surface	1390	1390	1390	1390	1390
Depth usable work surface with media duct	380	380	530	530	530
Depth usable work surface	490	490	640	640	640
Max. charge of the working surface	3000 N/m ²	3000 N/m ²	3000 N/m ²	3000 N/m ²	3000 N/m ²
Work height (mm)					
Work height sitting	720	720	720	720	720
Work height standing	900	900	900	900	900
Weight (kg)					
Weight	77.80	90.80	84.80	97.80	101.80
Further information					
Point load per support	298 N	328 N	336 N	363 N	363 N
Amount of air ducts	1 piece	1 piece	1 piece	1 piece	1 piece
Nominal volume flow	660 m ³ /h	895 m ³ /h	660 m ³ /h	895 m ³ /h	660 m ³ /h
Differential pressure per air duct	60 Pa	105 Pa	77 Pa	105 Pa	60 Pa
Noise level (approx.)	36.0 dB	32.0 dB	36.0 dB	32.0 dB	32.0 dB
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Power consump. in operation	70 W	70 W	70 W	70 W	70 W
Max. current consumption	0.3 A	0.3 A	0.3 A	0.3 A	0.3 A
Nominal voltage	230 V	230 V	230 V	230 V	230 V

Width 180 cm

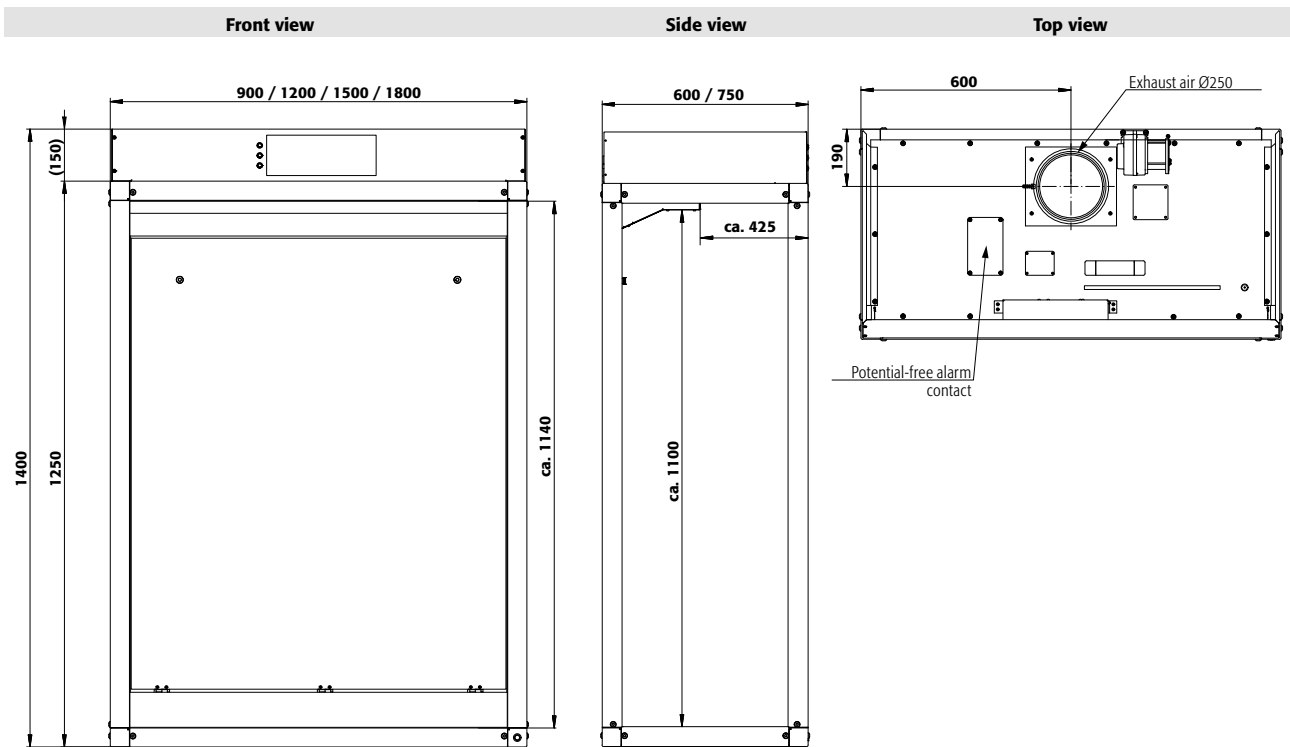
Technical data	GAP.110.180.060	GAP.140.180.060	GAP.110.180	GAP.140.180	GAP.140.180.EC
External dimensions (mm)					
Height (external)	1100	1400	1100	1400	1400
Height with support frame for sitting work	1785	2085	1785	2085	2085
Height with support frame for standing work	1965	2265	1965	2265	2265
Width (external)	1800	1800	1800	1800	1800
Depth (external)	600	600	750	750	750
Internal dimensions (mm)					
Clear height	810	1110	810	1110	1110
Width (internal)	1765	1765	1765	1765	1765
Depth (internal)	500	500	650	650	650
Usable work surface (mm)					
Width usable work surface	1690	1690	1690	1690	1690
Depth usable work surface with media duct	380	380	530	530	530
Depth usable work surface	490	490	640	640	640
Max. charge of the working surface	3000 N/m ²	3000 N/m ²	3000 N/m ²	3000 N/m ²	3000 N/m ²
Work height (mm)					
Work height sitting	720	720	720	720	720
Work height standing	900	900	900	900	900
Weight (kg)					
Weight	85.80	99.80	93.80	107.80	110.80
Further information					
Point load per support	336 N	366 N	371 N	401 N	401 N
Amount of air ducts	1 piece	1 piece	1 piece	1 piece	1 piece
Nominal volume flow	770 m ³ /h	1070 m ³ /h	770 m ³ /h	1070 m ³ /h	770 m ³ /h
Differential pressure per air duct	70 Pa	135 Pa	70 Pa	135 Pa	70 Pa
Noise level (approx.)	36.0 dB	36.0 dB	36.0 dB	36.0 dB	36.0 dB
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Power consump. in operation	100 W	100 W	100 W	100 W	100 W
Max. current consumption	0.4 A	0.4 A	0.4 A	0.4 A	0.4 A
Nominal voltage	230 V	230 V	230 V	230 V	230 V

GAP-LINE | Technical data

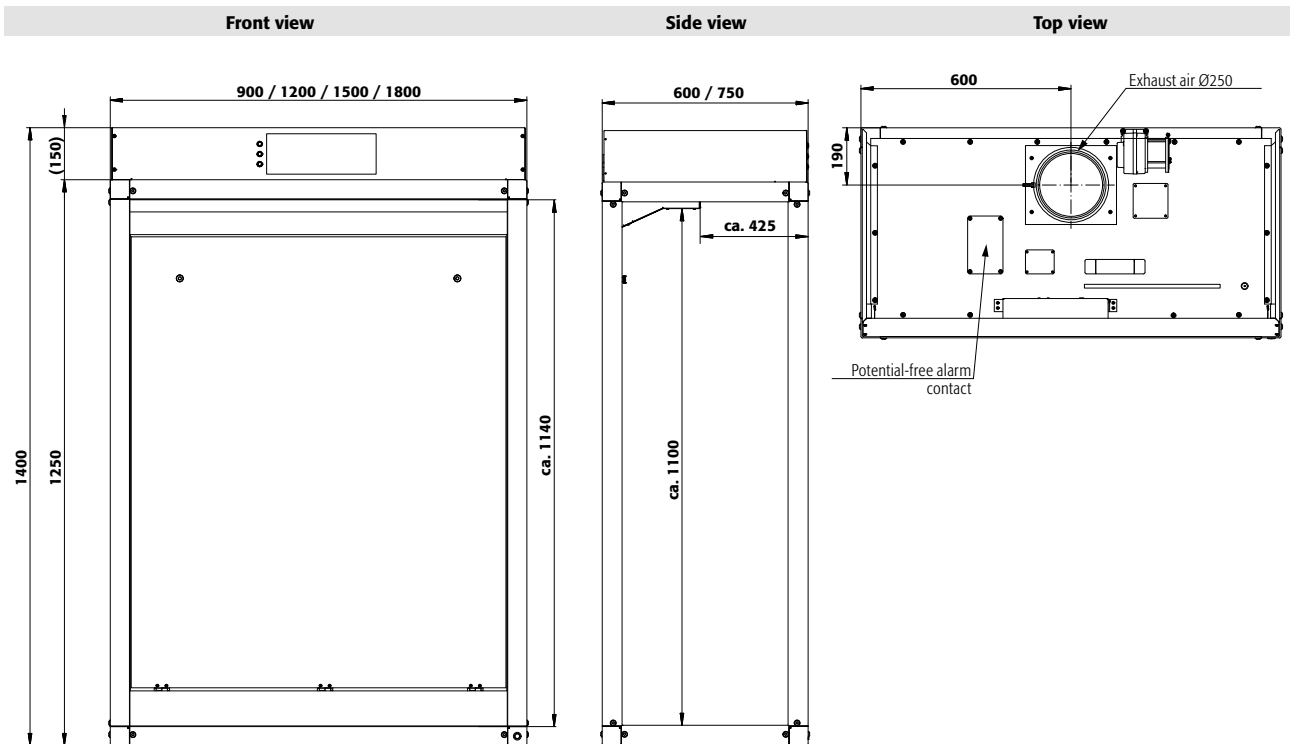
Hazardous materials work stations – height 1 100 mm



Hazardous materials work stations – height 1400 mm



Hazardous materials work stations – ECO-LINE



GAP-LINE | Weighing work stations



GAP.140.120.WA

Weighing work stations with testing of the air equipment according to EN 14175-3 (5.4.4)

Function / construction:

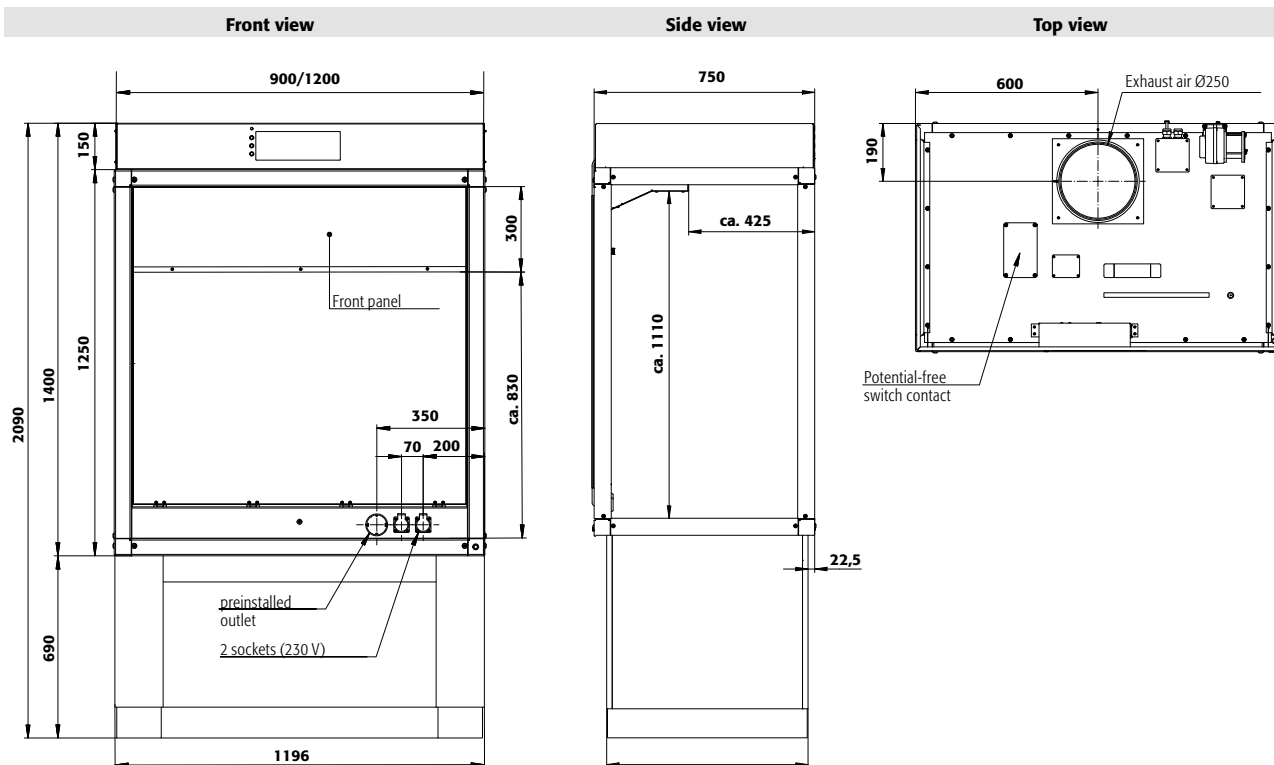
- Required occupational exposure limits are maintained
- Avoidance of dangerous explosive atmosphere
- Testing of the air equipment according to EN 14175 Part 3 (5.4.4)
- Optimised for technical ventilation - particularly economical
- Savings of >20% of the exhaust air volume compared to similar units
- Height of engagement 830 mm, front panel PMMA (transparent acrylic glass)
- Robust construction made of chemically resistant, anodised aluminium profiles
- Weighed materials are not scattered by the fresh air curtain at the front
- Vibration-free facility for mounting the analytical scales on a granite block decoupled from the hazardous material work station
- Usable for analytical scales with a measuring range of up to 0,00001 g
- Highly effective capturing of hazardous materials inside the work station through special fresh air curtain technology
- Prepared for connection to the on-site exhaust air system and for electrical supply (230 V/50 Hz)

Standard equipment

- Monitoring electronics incl. potential-free switching contact, e.g. for controlling on-site exhaust air system
- Workplace light
- Fold-away deflector
- Melamine resin coated rear wall
- Electrical connection socket (230 V) on the roof
- Preinstalled empty socket incl. empty conduit for data cable
- 2 sockets (230 V / 50 Hz)
- Transparent side walls
- Work surface made of brushed stainless steel
- Support frame for sitting work with decoupled granite block, cutout 400 x 400 mm



Model	with the following components	Order No.
GAP.140.090.WA	support frame as weighing rack with granite block for seated activities (panel melamine resin-coated) electrical component preinstalled outlet with cable duct integrated in media duct or media slot working surface with cutout 400x400mm (stainless steel brush-finished) socket(s) 1 pair 230 V, IP54, up to 16A integrated in media duct or media slot aluminium base (aluminium anodised)	40584-901
GAP.140.120.WA	support frame as weighing rack with granite block for seated activities (panel melamine resin-coated) electrical component preinstalled outlet with cable duct integrated in media duct or media slot working surface with cutout 400x400mm (stainless steel brush-finished) socket(s) 1 pair 230 V, IP54, up to 16A integrated in media duct or media slot aluminium base (aluminium anodised)	40589-901



Technical data	GAP.140.090.WA	GAP.140.120.WA
External dimensions (mm)		
Height (external)	1400	1400
Height with support frame for sitting work	2085	2090
Height with support frame for standing work	2265.00	2265.00
Width (external)	900	1200
Depth (external)	750	750
Internal dimensions (mm)		
Clear height	1110	1110
Width (internal)	865	1165
Depth (internal)	650	650
Usable work surface (mm)		
Width usable work surface	790	1090
Depth usable work surface with media duct	530	530
Depth usable work surface	640	640
Max. charge of the working surface	3000 N/m ²	3000 N/m ²
Work height (mm)		
Work height sitting	720	720
Work height standing	900	900
Weight (kg)		
Weight	76.70	86.70
Further information		
Point load per support	287 N	325 N
Amount of air ducts	1 piece	1 piece
Nominal volume flow	550 m ³ /h	550 m ³ /h
Differential pressure per air duct	82 Pa	60 Pa
Noise level (approx.)	32.0 dB	32.0 dB
Frequency	50 Hz	50 Hz
Power consump. in operation	70 W	70 W
Max. current consumption	0.3 A	0.3 A
Nominal voltage	230 V	230 V





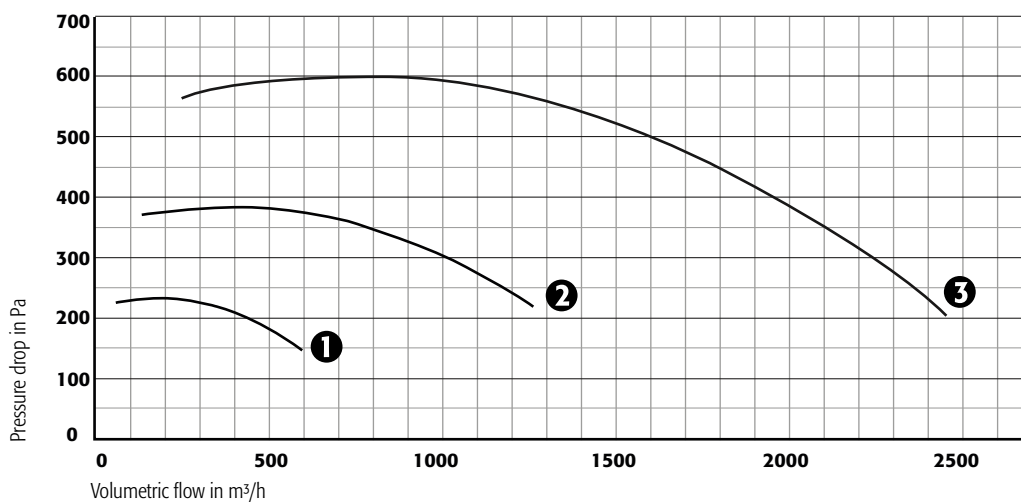
Fan
CE compliant: CE Ⓜ II 3/-G Ex h IIB T4 Gc X
Order No. 33561



Fan
CE compliant: CE Ⓜ II 3/3G Ex h IIB T4 Gc X, explosion-proof
Order No. 33564

Radial fans – safe technical ventilation of hazardous material work stations in accordance with regulations

- Impeller and housing made of PPS
- CE compliant
- Protection class IP 55
- Incl. mounting bracket with shock absorber
- Also available as explosion protected version



1 EPVE.29421
EPVE.29424
EPVE.29427

2 EPVE.29422
EPVE.29425
EPVE.29428

3 EPVE.29423
EPVE.29426
EPVE.29429

Technical data	EPVE.29421	EPVE.29422	EPVE.29423	/29427 EPVE.29424	/29428 EPVE.29425	/29429 EPVE.29426
External dimensions W x D x H	360 x 350 x 430	420 x 440 x 540	530 x 540 x 670	360 x 350 x 430	420 x 440 x 540	530 x 540 x 670
Nominal voltage	400	400	400	400	400	400
Frequency	50/60	50/60	50/60	50/60	50/60	50/60
Max. current consumption	0.65	1.1	2.2	0.47	1.1	2.25
Noise level (approx.)	41.0	49.0	56.0	41.0	49.0	56.0
Weight	6.708	18.012	21.011	10	11	21.811
Max. volume flow	600	1200	2500	600	1200	2500
Min. volume flow	250	350	750	250	350	750

Model	Order No.
EPVE.29421	33561
EPVE.29422	33562
EPVE.29423	33563
EPVE.29424 for explosive area II	33564
EPVE.29425 for explosive area II	33565
EPVE.29426 for explosive area II	33566
EPVE.29427 for explosive area I	33567
EPVE.29428 for explosive area I	33568
EPVE.29429 for explosive area I	33569

Accessories	Order No.
current limiting circuit-breaker for radial fan EPVE.29421 / 29424 / 29427	32845
current limiting circuit-breaker for radial fan EPVE.8680, EPVE.29425 / 29428	32849
current limiting circuit-breaker for fans EPVE.29426 / 29429 / 29423	33826



Customised solutions when working with hazardous materials

The preceding pages have shown that a wide variety of work procedures require unique solutions when handling hazardous materials. The modular hazardous material work stations by asecos guarantee the ideal product is found quickly.

A safe decision

Do you have a quite specific application but are not sure if this can be done with an asecos hazardous material work stations? No problem — in our test and application centre in Gründau (Germany) you can test the application while totally protected by the asecos hazardous material work stations. See for yourself, and without risk, how effective our products are.

Special requests welcome

Bushings, sinks, special connections, and various work surfaces with cutouts or balance table accessory — our experts will advise you on the many options available to personalise your specific hazardous material work station. Complete supply and waste disposal systems are also available along with asecos under bench cabinets so that hazardous material storage is thus possible directly on site.



**Application**

Hazardous material work station with special size for the production of plastic models

Company

Düker GmbH & Co. KGaA

Location

Karlstadt (Germany)

Sector

Manufacturer of fittings and pressure pipe fittings

Implemented by asecos partner

Günther Fachhandel, Bad Neustadt/Saale

**Application**

Hazardous material work station with safety storage under bench cabinet and front panel for the preparation of tissue samples, using for example xylene and formalin

Company

Klinikum Fulda gAG, pathology

Location

Fulda (Germany)

Sector

Hospitals

Implemented by asecos partner

Vogel GmbH & Co. KG, Gießen

**Application**

Hazardous material work station for bonding, sheding and cleaning

Company

Endress+Hauser Flowtec AG

Location

Reinach (Switzerland)

Sector

Electronics assembly

Implemented by asecos partner

Waldner AG

Application

Hazardous material work station with safety storage under bench cabinet for the investigation of water samples

Company

Justizvollzugsanstalt Landsberg am Lech

Location

Landsberg (Germany)

Sector

Authorities

Implemented by asecos partner

CVent



Application

Hazardous material work station for book restoration with solvents

Company

Stadt Bochum - Stadtarchiv

Location

Bochum (Germany)

Sector

Public institution

Implemented by asecos partner

B+G Balandis + Grewe GmbH, Bochum



Application

Hazardous material work station for cleaning work with flammable liquids

Company

Canberra Semiconductor

Location

Olen (Belgium)

Sector

Manufacturer electronics assembly

Implemented by asecos partner

DENIOS BV



Worktable series AT



The ejector technology used ensures air flows from the entry to the extraction vents. The clean air curtain from the ejectors, together with the air extraction technology, ensures any harmful substances are safely captured. This effectively prevents aerosols of hazardous substances from entering the employee's breathing zone and the laboratory. The front screen can be omitted if the workplace limits are complied with, resulting in barrier-free access to the work area.

Basic equipment

- Sturdy steel frame construction (powder coated or optionally in stainless steel)
- Closed rear and side walls in steel, powder coated
- Worksurface in stainless steel, corrosion free, even under intensive use
- Strong worksurface, load capacity 150 kg
- Exhaust air connection: exhaust air fitting for connecting customer's ventilation equipment or an air extraction fan
- Air supply fan for supplying the ejector system
- Flush-fitting built-in lighting
- Accessible working area without barriers or front screen
- Switch cabinet/control system
- Design in accordance with EN 14175-3

Additional equipment

- Washing/draining basin in the worksurface, with/without additional draining board
- Media connections e.g. sockets
- Glazed side panels
- Extraction fans and air extraction monitoring
- Integrated filter technology
- Fire-rated F90 underbench cabinets
- Control flap or volume flow controller
- Stainless steel designs
- Ex proof design
- Standing area, e.g. for 205 litre drum with integral floor extraction
- Weighing plates for scales integrated into worksurface

MODEL	AT-12	AT-15	AT-18	AT-21
External dimensions* W x D x H [m]	1,20 x 0,80 x 2,45	1,50 x 0,80 x 2,45	1,80 x 0,80 x 2,45	2,10 x 0,80 x 2,45
Internal height [m]	1,00	1,00	1,00	1,00
Working area W x D [m]	1,10 x 0,75	1,40 x 0,75	1,70 x 0,75	2,00 x 0,75
Worksurface height [m]	0,90	0,90	0,90	0,90
Air extraction volume flow [m ³ /h]	720	900	1.080	1.260
Pressure loss [Pa]	from 150	from 150	from 150	from 150

* without filter system

The dimensions in the table provide a rough guide. Your worktable is designed according to your individual specifications.

Multi-task workstations series FAP-



The ejector technology used ensures air flows from the entry to the extraction vents. The clean air curtain from the ejectors in the roof area, together with the air extraction technology, ensures any harmful substances are safely captured. The ejector technology is ideal for ventilating large multi-task workstations. The targeted blowing of air jets (ejectors) towards the extraction vents in the rear wall ensures that employees are effectively protected from vapours and dusts in the work area. Thanks to the draught-free work environment, even sensitive powders can easily be dispensed.

Basic equipment

- Sturdy steel frame construction (powder coated or in stainless steel)
- Closed rear and side walls in steel, powder coated
- Integrated workplace lighting
- Exhaust air connection for connecting customer's ventilation equipment
- Air supply fan
- Ejector supply system
- Flush-fitting, built-in lighting
- Control system/switch cabinet

Additional equipment

- Strip curtains at the side
- Media connections e.g. sockets
- Glazed side panels
- Extraction fans and air extraction monitoring
- Ex proof design
- Breakthrough points for media connections
- Multi-stage extraction and recirculation filter technology, integrated into the rear wall to save space
- If required, ATEX conformity in accordance with RL 2014/34/EU is available

MODEL	FAP-15	FAP-20	FAP-25	FAP-30
External dimensions* W x D x H [m]	1,60 x 2,15 to 3,60 x 2,70	2,10 x 2,15 to 3,60 x 2,70	2,60 x 2,15 to 3,60 x 2,70	3,10 x 2,15 to 3,60 x 2,70
Internal height [m]	2,20	2,20	2,20	2,20
Working area W x D [m]	1,50 x 2,00 to 3,00	2,00 x 2,00 to 3,00	2,50 x 2,00 to 3,00	3,00 x 2,00 to 3,00
Working area surface [m ²]	2,20 to 4,50	3,00 to 6,00	3,70 to 7,50	4,50 to 9,00
Air extraction volume flow [m ³ /h]	2.250	3.000	3.750	4.500
Pressure loss [Pa]	from 150	from 150	from 150	from 150

The dimensions in the table provide a rough guide. Your worktable is designed according to your individual specifications.

Laminar Downflow booths



A laminar downflow multi-task workstation is a closed system which is designed for the control of potent and non-potent compounds, such as powders or dusts, during sampling, weighing and other manual processes. Laminar downflow workstations are mainly used in the pharmaceutical and chemical industries to protect users from the harmful substances which are created when manually handling powders or liquids.

Operation of air recirculation equipment

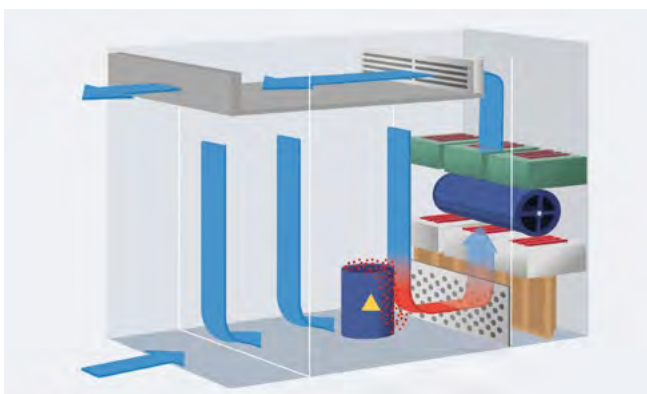
In air recirculation equipment 100% of the air is extracted through a high performance ventilation system. At the same time, an automatic volume flow controller prevents any pressure loss if filter saturation rises.

90% of the clean air is blown out evenly from the roof over the whole safety working area and all fine dust is removed at the bottom, out of the breathing area of the user.

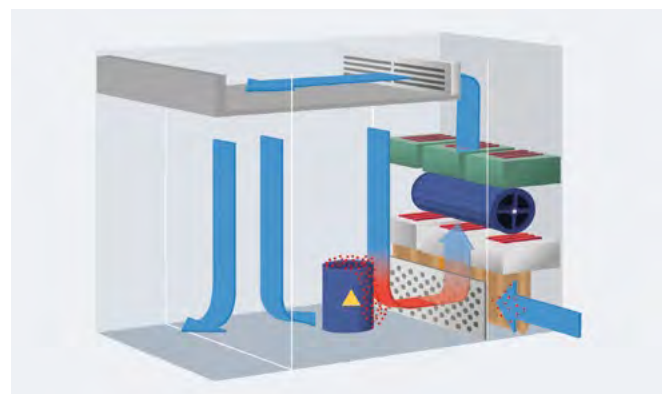
While the dust sinks down to a certain level above the floor, extraction grids direct the dust to the rear area of the workstation.

The filter system in the rear, consisting of coarse pre-filters, fine dust and HEPA filters, filters the dust out, before the clean air is returned to the roof area.

10% of the air is directed from the filters to the outside, creating a slight underpressure. An air supply of normally 10% with a slight underpressure ensures containment. The system contains air flow regulation, motor, fans and lighting and offers easy access to the filters from the inner room.



Basic principle **for user protection**



Basic principle **for user protection and product protection**

High level of safety and ergonomics



Typical areas of use

Product dosing
Sampling
Split workstations

Bulk good filling / weighing
Reactor filling
Product emptying

Test equipment
Containment workstations
Mixing areas

Drum filling / emptying

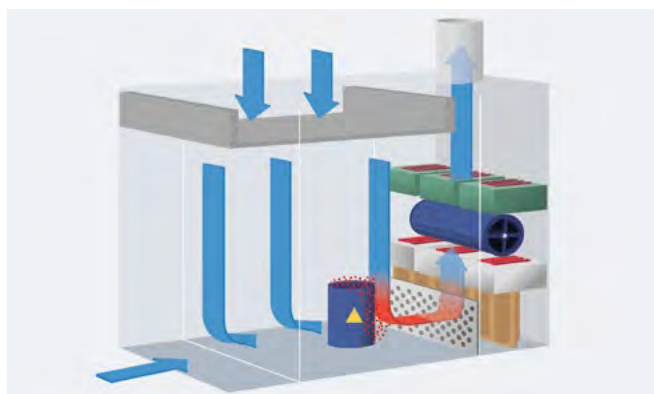
Operation of the air extraction system

In the air extraction system, 100 % of the air is supplied via a special, extremely powerful fan/filter system with a coarse dust pre-filter, a fine dust filter and a HEPA filter. This system creates a downward flow of clean, filtered air while directing all fine dust downward and out of the operator's breathing zone. While the dust sinks down to a certain level above the floor, high speed extraction grids direct the dust, gases or vapours to the rear area of the workstation.

The filter extraction system in the rear filters the dust out, before the air is returned to the atmosphere. The air supply of 10% to the workstation with underpressure to the external area ensures a constant

underpressure at the workplace. The equipment contains instruments, air flow regulation, motor, fans and lighting and offers easy access to the maintenance filters from the inner room.

Magnehelic differential pressure gauges allow a real time display of the status of the air supply and extraction filters as well as the air supply and extraction flows. The switch cabinet contains the control system, lighting and motor, power connections and the start/stop function. The workstation is provided with safety switches for the air supply and extraction equipment as well as an alarm indicator.



Basic principle for user protection

Special equipment

- Fully automatic air flow regulation
- Extraction, fine dust and HEPA filters in safe-change filter housings for safe filter replacement
- Air supply with heating/cooling elements
- Electrical components meet ATEX Directives for potentially explosive areas
- If required, ATEX conformity in accordance with RL 2014/34/EU is available



Customised sizes and equipment upon request.



GAP-
LINE

Pharmaceutical exhausts



Model APA.145.090
Order No. 31834



Pharmaceutical exhausts according to DIN 12924 Part 4: 2012

Function / construction:

- Safe handling of chemicals, protection from hazardous vapours and potentially explosive atmospheres
- Easily mounted on a table top
- Robust construction made of chemically resistant, antibacterial powder-coated sheet steel
- Testing of the air equipment by recognized test institute

Standard equipment

- Exhaust air fan
- Monitoring electronics with visual and audible alarm
- Workplace light
- Steplessly height adjustable front sash made from acrylic glass
- 2 sockets

Accessories

Ventilation set 1:

- 1 m flexible hose DN 100
- 2 hose clamps
- 1 wall bushing

Ventilation set 2:

- 7,5 m flexible hose DN 125
- 2 hose clamps
- 1 wall bushing
- 1 reducing adapter DN 100/125

Ventilation set 3:

- 1 fan DN 150
- 2 reducing adapters DN 150/125
- 7,5 m flexible hose DN 125
- 2 hose clamps
- 6 drilling screws 4,2 x 16

Model	W x D x H (mm)	Order No.
APA.145.075	750 x 600 x 1460	31833
APA.145.090	900 x 600 x 1460	31834

APA.145.075

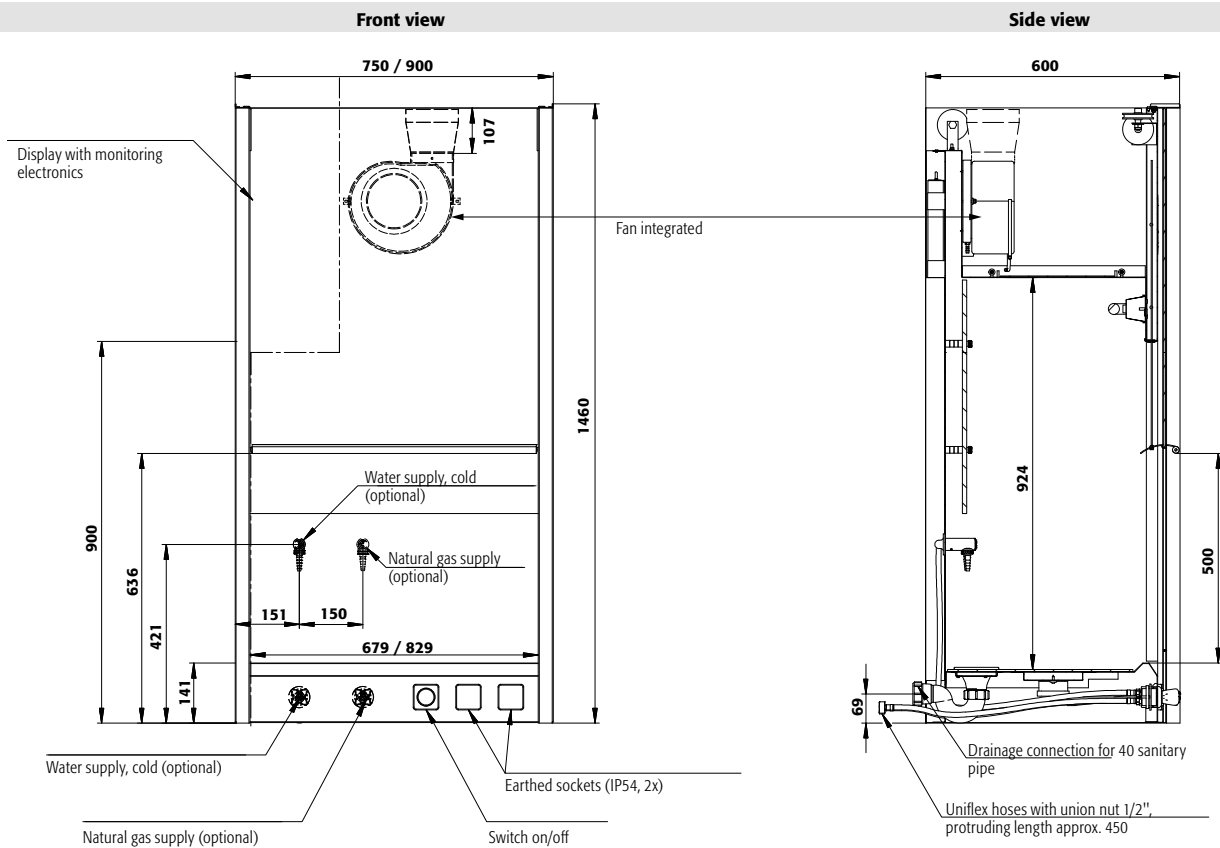
Accessories	Order No.
Support frame	33188
Media supply	33197
Media supply	33195
Media supply	33193

APA.145.090

Accessories	Order No.
Support frame	33187
Media supply	33198
Media supply	33196
Media supply	33194

All models

Accessories	Order No.
Ventilation set 1: ventilation accessories, ø100 mm, 1 m hose	33189
Ventilation set 2: ventilation accessories, ø125 mm, 7,5 m hose	33190
Ventilation set 3: support fan, ø125 mm, 7,5 m hose	33191



Technical data	APA.145.075	APA.145.090
External dimensions (mm)		
Height (external)	1460	1460
Width (external)	750	900
Depth (external)	600	600
Internal dimensions (mm)		
Clear height	924	924
Width (internal)	740	890
Depth (internal)	440	440
Usable work surface (mm)		
Width usable work surface	745	895
Depth usable work surface	440	440
Weight (kg)		
Weight	92	100
Further information		
Amount of air ducts	1 piece	1 piece
Nominal volume flow	330 m ³ /h	330 m ³ /h
Differential pressure per air duct	315 Pa	315 Pa
Frequency	50/60 Hz	50/60 Hz
Power consump. in operation	160 W	160 W
Power consump. in standby mode	0,5 W	0,5 W
Nominal voltage	230 V	230 V

Suction hoods

Suction hoods — safe working with open containers or other sources of harmful substances/vapours



Robust, user-friendly and safe

- Robust construction made of chemically resistant, anodised aluminium profiles
- Fracture-resistant acrylic glass, 5 mm

Ventilation

- Quickly put into operation
- Connecting hood (DN 160) in the ceiling for connection to the on-site exhaust air system

Certified safety

- Ventilation testing of the air equipment in accordance with EN 14175-3 (5.4.4)
- The prescribed specified workplace limit values are maintained

1

2



ASE.090.120.060
Order No. 16556



ASE.050.060.040
Order No. 16553

Suction hoods — safe working with open containers or other sources of harmful substances/vapours

Function / construction:

- Ventilation testing of the air equipment in accordance with EN 14175-3 (5.4.4)
- The prescribed specified workplace limit values are maintained
- Ideal for assembly on an existing workplace
- Robust construction made of chemically resistant, anodised aluminium profiles
- Fracture-resistant acrylic glass, 5 mm
- Mounting on an on-site air exhaust system
- Connecting pieces (DN 160) in the ceiling for connection to the on-site exhaust air system
- The air speed should be 0,3 m/s

Technical data

ASE.050.060.040

ASE.050.090.040

External dimensions W x D x H	mm	600 x 400 x 500	900 x 400 x 500
Differential pressure per air duct	Pa	45	64
Nominal volume flow	m ³ /h	250	300

Technical data

ASE.090.090.060

ASE.090.120.060

External dimensions W x D x H	mm	900 x 600 x 900	1200 x 600 x 900
Differential pressure per air duct	Pa	93	208
Nominal volume flow	m ³ /h	360	540

Model	W x H (mm) front opening	Order No.
ASE.050.060.040	484 x 437	16553
ASE.050.090.040	600 x 437	16554
ASE.090.090.060	600 x 542	16555
ASE.090.120.060	900 x 542	16556



Source extractions for use in industry – Reliable pollutant detection at the source

Extraction arm for industrial environment

Extremely easy to manoeuvre and very stable in position even when the arm is fully extended. The dead weight of the extraction arm is balanced by a gas pressure spring mounted on the outside. The extraction hood can be angled 90° in all directions and the wall bracket also offers a 360° swivel function. The extractor is supplied as standard with a manual air damper and a hose made of fire-retardant PVC.

- Steel fasteners with dark grey powder-coating
- Joints made of PA and PP in anthracite
- Aluminum tubes with dark blue powder-coating
- Hose in dark blue PVC-coated polyamide fabric

Optional accessories:

- Conical hood made of sheet steel, anthracite grey powder-coating

Source extraction for industry

for welding work, with high demands on easy mobility and effective extraction, hose made of PVC, pipe made of steel sheet, powder-coated, 3290 x 100 mm

Order No. 10169



Source extraction for welding work	Length (mm)	Diameter (mm)	Order No.
PVC Hose Dark Blue, Pipe made of sheet steel powder-coated	3000	200	10166
PVC Hose Dark Blue, Pipe made of sheet steel powder-coated	3000	160	10167
PVC Hose Dark Blue, Pipe made of sheet steel powder-coated	3000	125	12868

Telescopic suction arms	Length (mm)	Diameter (mm)	Order No.
PVC Hose Dark Blue, Pipe made of sheet steel powder-coated	1300-2100	125	10169

Accessories	Material	Diameter (mm)	Order No.
Suction hood	powder-coated sheet steel	350	10182
Suction hood	powder-coated sheet steel	250	10183
Suction hood	aluminium powder-coated	300	10184



Source extractions for use in industry – Reliable pollutant detection at the source

For wall mounting

- Externally mounted supporting arms – natural, straight course of the exhaust air
- Low pressure drop, effective extraction
- Integrated throttle valve
- Suction nozzle with swivel joint function (360° rotatable, 90° bendable)
- Gas spring for balancing the dead weight
- Extremely light and position-stable
- Easy assembly on-site

Options:

- Source extraction is also available with LED lighting and/or switch to control fan/throttle

Source extraction for industry

for universal use, hose made of PVC, dimensions 2000 x 100 mm
Order No. 10170



Source extraction universal	Length (mm)	Diameter (mm)	Order No.
For wall mounting as hose with special bonnet	2000	100	10170
For wall mounting as hose with special bonnet	2000	125	10171
For wall mounting as hose with special bonnet	2000	160	10172
For wall mounting as hose with special bonnet	3000	100	10173
For wall mounting as hose with special bonnet	3000	125	10174
For wall mounting as hose with special bonnet	3000	160	10175

Accessories	Order No.
Lighting	38638
Push button	38639
Lighting	38640

Source extractions | Laboratory



Source extractions for the laboratory
for direct table installation, dome-shaped hood optional
Order No. 10147



Universal use

- For wall, ceiling or table installation
- Friction joints made of PP with ball-bearing and guide rings
- Extremely light
- Stable position due to supporting springs
- High flexibility
- Easy internal cleaning
- Standard with sealed throttle
- Easy assembly on-site



Source extractions for the laboratory
for wall or ceiling mounting, bracket and flat hood optional
Order No. 10149

Source extraction for table installation	Diameter (mm)	Length (mm)	Order No.
Pipe made of aluminium anodised	75	1000	10147
Pipe made of aluminium anodised	75	1300	10148

Accessories	Order No.
Table clamp	10156

Source extraction for wall/ceiling mounting	Diameter (mm)	Length (mm)	Order No.
Pipe made of aluminium anodised	75	1000	10149
Pipe made of aluminium anodised	75	1500	10150

Accessories	Material	Length (mm)	Order No.
Ceiling bracket	aluminium anodised	250	10151
Ceiling bracket	aluminium anodised	500	10152
Ceiling bracket	aluminium anodised	750	10153
Ceiling bracket	aluminium anodised	1000	10154
Wall bracket	aluminium anodised	270	10155

Accessories for all models	Material	Diameter (mm)	Order No.
Suction hood	PMMA (acrylic glass)	Ø 350 mm	10176
Suction hood	aluminium powder-coated	Ø 250 mm	10177
Suction hood	PMMA (acrylic glass)	length 300 mm	10178
Suction tip for laboratory suction systems	aluminium	Ø 75 mm	23985



Source extractions for the laboratory
with wall bracket and flat hood optional
Order No. 10157

With telescopic function

- For wall and ceiling mounting
- Especially for laboratory work benches
- Natural course of the exhaust air
- Suitable for workplaces with demands for less pressure drops
- Joints can be adjusted from outside
- Extremely light
- High position stability and movability
- Suction nozzle with swivel joint function (360° rotatable)
- Pipe diameter: 75 mm, exhaust air connection: Ø 125 mm



Source extractions for the laboratory
with ceiling bracket optional
Order No. 10158



Suction bonnet PMMA, length 300 mm
Order No. 10197

Suction bonnet, 350 mm
Order No. 10195

Source extraction for wall/ceiling mounting	Diameter (mm)	Length (mm)	Order No.
Pipe made of aluminium anodised	75	800-1000 mm	10157
Pipe made of aluminium anodised	75	1000-1500 mm	10158

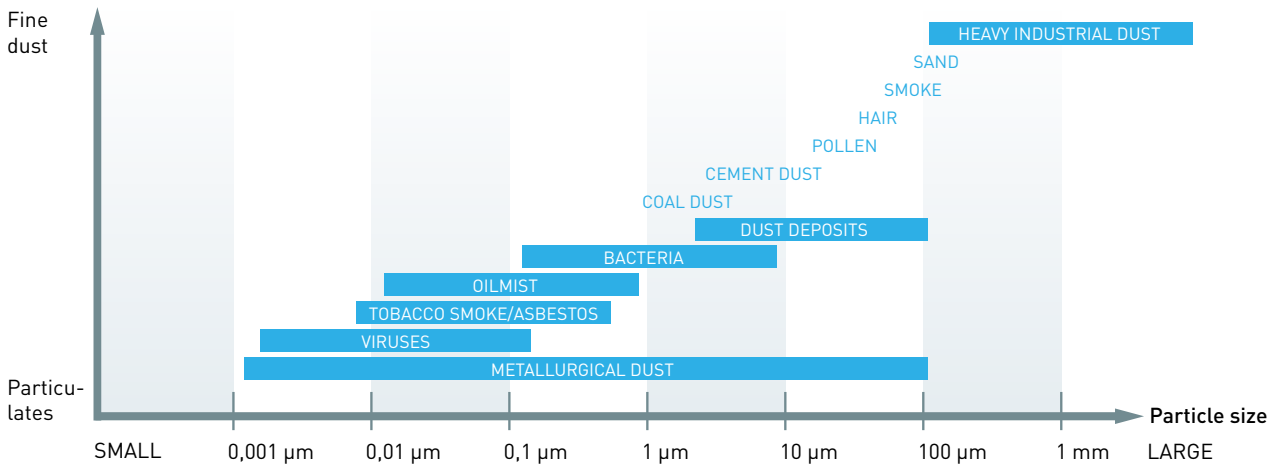
Accessories	Material	Length (mm)	Order No.
Ceiling bracket	aluminium anodised	length 500 mm	10162
Ceiling bracket	aluminium anodised	length 750 mm	10163
Ceiling bracket	aluminium anodised	length 1000 mm	10164
Suction hood	PMMA (acrylic glass)	Ø 350 mm	10195
Suction hood	aluminium painted	Ø 250 mm	10196
Suction hood	PMMA (acrylic glass)	Length 300 mm	10197
Wall bracket	aluminium powder-coated		11253



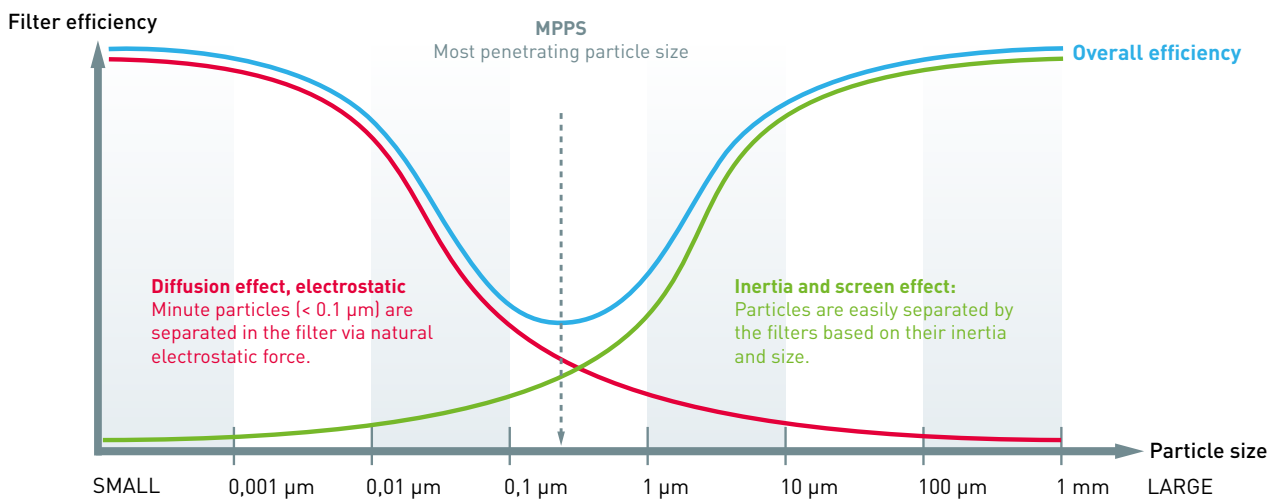
Technical air purification

When using air purifiers to remove fine dusts and particulates from the atmosphere, the correct filter must be used for the type and size of particles in question. How do fine dusts and particulates differ, and what kinds of filters can be used to clean dirty indoor air? This information will help you find answers to these questions.

Airborne particles come in different sizes:



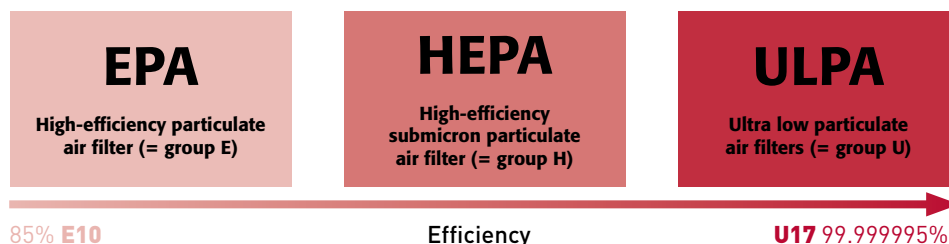
Basic filter technology principles



The most critical particles have a diameter of approx. 0,3 µm and are the most difficult to remove (technical term MPPS = Most Penetrating Particle Size). The MPPS serves as the basis for defining the efficiency of particle filters.



The filter classes are defined based on the efficiency of separating MPPS. In Europe, particulate air filters are differentiated into **three groups**:



Overview of filter classes, incl. relevant degree of efficiency:

Filterklassen	Integral value Average value over the entire filter surface		Local value Point value at the weakest part of the filter	
	Efficiency (%)	Penetration (%)	Efficiency (%)	Penetration (%)
E10	≥ 85	≤ 15		
E11	≥ 95	≤ 5		
E12	≥ 99.5	≤ 0.5		
H13	≥ 99.95	≤ 0.05	≥ 99.75	≤ 0.25
H14	≥ 99.995	≤ 0.005	≥ 99.975	≤ 0.025
U15	≥ 99.9995	≤ 0.0005	≥ 99.9975	≤ 0.0025
U16	≥ 99.99995	≤ 0.00005	≥ 99.99975	≤ 0.00025
U17	≥ 99.999995	≤ 0.000005	≥ 99.99999	≤ 0.0001

Efficiency: Percentage of particles separated / penetration: Percentage of particles that pass through the filter

What makes a tested HEPA H14 filter according to EN 1822 so safe?

Construction

- »» The filter medium is sealed leak-free in a stable frame, e.g. made of medium-density fibreboard. The filter offers dimensional stability and a circumferential, closed seal, so that all particles must flow through the filter medium in order to be reliably captured.
- »» High-performance filter materials are used, which offer the following advantages (using an ePTFE membrane as an example):
 - »» High retention capacity due to large filter surface area
 - »» Long service life
 - »» High intake capacity
 - »» Withstands mechanical stress in all operating phases of the air purifier
 - »» Stability
 - »» ePTFE material, thanks to its composition and deep folding, allows for lower pressure losses and thus higher air flow rate
 - »» High energy efficiency
 - »» High efficiency



Testing & Classification

- »» There is a labelling requirement for each filter which includes the following:
 - »» Manufacturer's name, type and serial number of the filter
 - »» Reference to the test standard EN 1822
 - »» Filter class
 - »» Nominal volume flow
- »» For each filter, an individual test certificate/test protocol shall be provided to prove the separation efficiency and the standard-compliant test including filter medium and test parameters.
- »» Each individual filter shall be subjected to the test procedure according to EN 1822. In the individual test
 - »» the particle size in the separation efficiency minimum of the filter is determined,
 - »» the absence of leakage at nominal volume flow is verified (reference scan method or oil filament test),
 - »» and with the help of the test aerosol (≙ suspended particles in MPPS – Most Penetrating Particle Size) the filtration efficiency of ≥ 99.95 % or 99.995 % is determined.

asecos is one of the world's leading manufacturers of safety cabinets for storing flammable hazardous materials and compressed gases in accordance with EN 14470 part 1 and part 2. Since it was founded in 1994, asecos has been successfully focused on researching and developing products to safely extract and store hazardous materials. "Technical air purification concepts" have now been added to the company product range, with smoking cabins and air purifiers. In its development of high-performance systems for extracting and filtering cigarette smoke and air contaminated with pollutants and pathogens, asecos has employed its many years of expertise in hazardous materials extraction technology.

Please observe local legislation and regulations.





AIR PURIFIERS

Improvement of the air quality in the entire installation room

Viruses and other microorganisms are transmitted via very fine airborne liquid particles - the aerosols. These can also hover in the air for a long time and survive. This increases the risk of infection in inadequately ventilated indoor spaces. Therefore, the effective ventilation of rooms is a high priority in hygiene concepts in order to counteract an increased concentration of pollutants.

However, the cold season and spatial conditions can make natural ventilation difficult. **In these situations, the use of air purifiers can significantly reduce virus and pollutant loads in the room air.**

In the long run, air purifiers only offer an efficient result if the filters used are replaced at regular intervals according to the electronic display.



Technical air purification



DESIGN LINE

SMOKING CABINS FOR INDOOR AND OUTDOOR AREAS

Our smoking cabins for indoor and outdoor use offer solutions for the harmonious coexistence of non-smokers and smokers. This is a long-term and good investment for satisfied and motivated employees.

Tested technology for maximum protection

Behind the smoke & talk smoking cabins is a proven system for capturing smoke: tobacco smoke is completely captured and extracted instantly through the finely perforated ceiling by the quiet but powerful exhaust air unit. The fresh air curtain in the entrance area holds the cigarette smoke back, allowing an open and friendly cabin design. Not only that – even the ashtray modules are connected to the extraction system so that accumulated cigarette smoke cannot escape again from the ashtrays. Tobacco smoke is thus captured directly where it's generated.

A 5-step filter system reliably retains the pollutants. The filtered, clean air is returned to the environment. A positive side effect is that the air quality in the entire room is improved.

The smoking cabins of the OUTDOOR LINE for outdoor areas create a comfortable alternative to smoking rooms – without completely banning smoking. The outdoor cabins offer employees protection from all weather conditions and thus reduce the risk of illness.



OUTDOOR LINE



Are you interested in our smoking cabins and would like further information?

Contact our air purity experts for a comprehensive consultation at info@asecos.co.uk. We'll be glad to help you!



DESIGN LINE



OUTDOOR LINE

HAZARDOUS MATERIALS STORES WITH FIRE PROTECTION

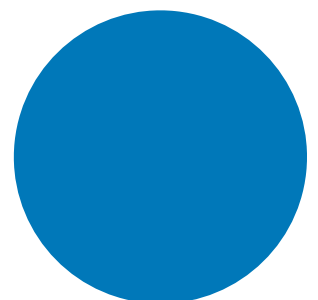
Safe fire protection from the inside and outside



A fire protection store must be reliable as a whole and withstand the effects of fire in various ways. When it comes to fire protection, any compromise can have risky consequences. Therefore, we do not only rely on theory. That is why all the individual components of the container systems we offer are tested and certified.

In most EU countries, a uniform classification system for fire protection has already been introduced and anchored in legislation. Fire protection certifications in accordance with REI include the relevant factors of load-bearing capacity (R), tightness (E) and insulation (I). If a fire protection product can withstand all factors over a period of 90 minutes, it is certified according to REI 90. This is regularly verified by accredited and independent testing institutes.

Building permits are also noticeably shortened if the „structures“ already meet all the necessary standards and do not have to be checked with individual verifications.



WFP: WALK IN FIRE PROTECT

WALK-IN FIRE - RATED STORAGE CONTAINER

FOR SMALL CONTAINERS AND INDIVIDUAL DRUMS

STORAGE AREA: APPROX. 6 - 22 M²



RFP 115: RACK FIRE PROTECT

COMPACT FIRE - RATED STORAGE CONTAINER

STORAGE CAPACITY FOR UP TO 4 X 205 LITRE DRUMS OR 1 IBC



RFP: RACK FIRE PROTECT

FIRE-RATED STORAGE CONTAINER WITH SHELVING

FOR IBCS AND 205 LITRE DRUMS

STORAGE CAPACITY FOR UP TO 8 IBCS OR 32 DRUMS



RFP SD: RACK FIRE PROTECT

FIRE-RATED STORAGE CONTAINER WITH SHELVING AND SLIDING DOORS

OPTIMUM USE OF SPACE FOR UP TO 12 IBCS OR 48 X 205 LITRE DRUMS



Hazmat stores | with fire protection

Walk-in fire-rated storage container WFP



In the walk-in fire-rated store WFP, which is also available as an international version, flammable liquids can be stored in a variety of ways. Thanks to its fire protection approval, the hazardous materials store can be integrated directly into your infrastructure without the need for safety distances, either indoors or outdoors. Six product models allow optimal adaptation to the individual installation requirements.



Product description

Walk-in hazardous materials store for small containers and 205 litre drums

For the safe storage, dispensing or removal of flammable and water-polluting substances

Install directly next to the external wall of neighbouring buildings or as a fire-rated separate area, e.g. in a production hall.

Exception: peroxide stores

Water law tested, one piece, hot dip galvanised 5 mm spill pallet with removable grids (**max. load capacity: 1000 kg/m²**)

Long-lasting corrosion protection with fully-galvanised base material and high-quality 2K paint (**RAL 9002, grey-white**)

Fire protection panels with high insulation properties (thickness 100 mm, A class material, non-combustible)

Lockable, self closing EI2 90-C fire-rated doors to EN 13501-2, tested in accordance with EN 1634-1, or country-specific design (EI₂ 120 or EI₁ 60) with a door opening angle of 90 ° / 115 °

1-wing door (W x H: 1250 x 2000 mm) or 2-wing door (W x H: 2000 x 2000 mm), either on the short or long side of the store in the steps provided

For 2-wing doors, a door sequence controller ensures the doors close reliably

Removable crane eyes for safe use with a crane and transport safety device

Available in two heights:

Clear internal height: WFP-X = 2500 mm, WFP-M = 2280 mm

ETA approval / CE marking according to European Regulation (EU) No. 305/2011

Tested and approved as a complete system with 90 minute fire protection (F 90 / REI 90) from inside and outside

International designs meeting country-specific legislation REI 120, REI 60)

Storage area approx. 6–22 m²



Fire-rated store WFP can be used for storing paints and solvents (H226-H224) in small containers and drums, for example. A monitored air-conditioning system ensures consistent quality of the temperature-sensitive substances.

Structural analysis

The structural calculations for the technical room system are based on Eurocode 3 (EN 1993). The loads on the structure are measured according to Eurocode 1 (EN 1991-1-3) for a characteristic wind load $q_{k,w} = 0.585 \text{ kN/m}^2$ and a ground snow load $s_k = 2.5 \text{ kN/m}^2$. The structure is also designed for earthquake zone 3 according to DIN 4149, EN 1998-1:2004. Available with additional equipment for up to wind load zone 4, terrain category I ($q_{k,w} = 1.064 \text{ kN/m}^2$) and for up to ground snow load $s_k = 5.86 \text{ kN/m}^2$.

Equipment options

For maximum comfort and improved safety, we have developed the Communication Bar. You'll have all the important information here at a glance. We will be happy to discuss with you in person which other equipment might be suitable. Our experts will design a customised solution with you on site.



Central monitoring and control of all electrical components with the Communication Bar

Storage recommendations

In addition, the following specifications must be observed when storing flammable media:

Create equipotential bonding (earthing) (connection point provided in the hazardous materials store)

If required, provide lightning protection

Country-specific requirements for air exchange rate

Specifications in accordance with ATEX Directive 2014/34/EU and 1999/92/EC

For hazardous materials stores without fire-resistant partitions, a distance to fire loads must be observed (usually at least 10 m)



Video surveillance and recording of the hazard area indoors or outdoors



Compact fire-rated storage container RFP 115



RFP 115-2
up to 4 drums

Not every company needs a large store for safely housing hazardous substances. Fire-rated storage container RFP 115 offers a sturdy, fire-rated design with minimal footprint. On request, up to three additional shelves can be supplied so that you can make optimum use of the interior space.



RFP 115-10
up to 4 drums or 1 IBC

Product description

The space saving solution for storage of hazardous substances near to production, or decentralised, if required for safety or logistical reasons

For the safe storage, dispensing or removal of flammable and water-polluting substances

Install directly next to the external wall of neighbouring buildings or as a fire-rated separate area, e.g. in a production hall.

Exception: peroxide stores

Steel spill pallet with removable hot dip galvanised grids

(max. load capacity: RFP 115-2 = 1000 kg/m², RFP 115-10 = 1250 kg/m²)

Long-lasting corrosion protection with fully-galvanised base material and high-quality 2K paint **(RAL 9002, grey-white)**

Fire protection panels (A class material, non-combustible) with high insulation properties

Lockable, self closing 1-wing fire-rated EI₂ 90-C door to EN 13501-2, tested in accordance with EN 1634-1, or country-specific design (EI₁ 60 or EI₂ 120) with a door opening angle of 90 ° / 115 °

If required with up to three additional shelves

ETA approval / CE marking according to European Regulation (EU) No. 305/2011

Tested and approved as a complete system with 90 minute fire protection (F 90 / REI 90) from inside and outside
International designs meeting country-specific legislation (REI 120, REI 60)

Storage capacity for up to 4 drums or 1 IBC



The RFP 115 fire-rated storage container, in combination with a pressure relief system and cooling system, is ideally suited for storing organic peroxides outdoors.

Structural analysis

The structural calculations for the technical room system are based on Eurocode 3 (EN 1993). The loads on the structure are measured according to Eurocode 1 (EN 1991-1-3) for a characteristic wind load $q_{k,w} = 0.585 \text{ kN/m}^2$ and a ground snow load $s_k = 2.5 \text{ kN/m}^2$. The structure is also designed for earthquake zone 3 according to DIN 4149, EN 1998-1:2004. Available with additional equipment for up to wind load zone 4, terrain category I ($q_{k,w} = 1.064 \text{ kN/m}^2$) and for up to ground snow load $s_k = 5.86 \text{ kN/m}^2$.

Equipment options

The fire-rated stores WFP and RFP can also be equipped with pressure relief via roof panel. It ensures controlled pressure equalisation in the event of an explosion. Get in touch: we will be happy to discuss your individual requirements in a personal consultation. Our experts will design a customised solution with you on site, offering high levels of safety and maximum convenience.



In the event of an explosion, the pressure is relieved via the roof panel. The weather protection prevents snow loads affecting operation

Storage recommendations

In addition, the following specifications must be observed when storing flammable media:

- Create equipotential bonding (earthing) (connection point provided in the hazardous materials store)
- If required, provide lightning protection
- Country-specific requirements for air exchange rate
- Specifications in accordance with ATEX Directive 2014/34/EU and 1999/92/EC
- For hazardous materials stores without fire-resistant partitions, a distance to fire loads must be observed (usually at least 10 m)



Enclosed controls: controls are protected from unauthorised access in the front of the switch cabinet



Hazmat stores | with fire protection

Fire-rated storage container with shelving RFP



RFP fire-rated storage containers are ideally suited for storing large quantities of hazardous substances. Thanks to an integrated heavy-duty rack with adjustable storage levels, optimum use can be made of the interior space, storing hazardous materials individually, in boxes, on pallets or on special carrier frames. In the accessible version, they can also be loaded with a high-lift truck. Outdoor lighting with motion sensor ensures good visibility.



RFP 315.20
for up to 16 drums or 4 IBCs



RFP 315.30
for up to 16 drums or 4 IBCs



RFP 615.20
for up to 32 drums or 8 IBCs

Product description

Best option when larger quantities of hazardous materials need to be stored in a separate fire compartment and no safety clearances to avoid exposure to fire on both sides can be maintained

For the storage, dispensing or removal of flammable and water-polluting substances

Install directly next to the external wall of neighbouring buildings or as a fire-rated separate area, e.g. in a production hall

Exception: peroxide stores

On request available with variable shelf heights

Water law tested, one-piece, hot-dip galvanised 5 mm spill pallet in the lower storage level

Storage levels fitted with removable, hot-dip galvanised grids

(max. load capacity 1250 kg/m²)

Long-lasting corrosion protection with fully-galvanised base material and high-quality 2K paint **(RAL 9002, grey-white)**

Fire protection panels with high insulation properties (thickness 100 mm, A class material, non-combustible)

Lockable, self-closing EI2 90-C wing doors on the long side meeting EN 13501-2, tested to EN 1634-1 or country-specific design with a door opening angle of 90 ° / 102 ° / 115 ° / 128 ° Versions which are accessible underneath are installed on a separately-supplied concrete pad. This means they can easily be loaded with a high-lift truck, for example. For the wide version (RFP 615.20 and .30), the store has two concrete pads of the same size.

ETA approval / CE marking according to European Regulation (EU) No. 305/2011

Tested and approved as a complete system with 90 minute fire protection (F 90 / REI 90) from inside and outside

International designs meeting country-specific legislation

(REI 120, REI 60)

Storage capacity for up to 32 drums or 8 IBCs



The 2-wing doors allow generous, convenient access and facilitate loading and unloading. The integrated roof drainage system drains rainwater via the short sides of the room system.

Structural analysis

The structural calculations for the technical room system are based on Eurocode 3 (EN 1993). The loads on the structure are measured according to Eurocode 1 (EN 1991-1-3) for a characteristic wind load $q_{k,w} = 0.585 \text{ kN/m}^2$ and a ground snow load $s_k = 2.5 \text{ kN/m}^2$. The structure is also designed for earthquake zone 3 according to DIN 4149, EN 1998-1:2004. Available with additional equipment for up to wind load zone 4, terrain category I ($q_{k,w} = 1.064 \text{ kN/m}^2$) and for up to ground snow load $s_k = 5.86 \text{ kN/m}^2$.

Storage recommendations

In addition, the following specifications must be observed when storing flammable media:

- Create equipotential bonding (earthing) (connection point provided in the hazardous materials store)
- If required, provide lightning protection
- Country-specific requirements for air exchange rate
- Specifications in accordance with ATEX Directive 2014/34/EU and 1999/92/EC
- For hazardous materials stores without fire-resistant partitions, a distance to fire loads must be observed (usually at least 10 m)

Equipment options

Whether you need access underneath or fire bulkheads for cable systems and pipes - equipment plays a decisive role in the individual product configuration. Our experts will discuss your requirements with you on site and develop a custom-fit solution.



Versions which are accessible underneath are installed on a separately-supplied concrete pad



Cable box (fire bulkhead) for the passage of cables through the wall of the fire-rated store, while maintaining the fire resistance of the component



Fire-rated storage container RFP SD



Fire-rated storage container RFP SD with sliding doors offers fire protection for large quantities of hazardous substances, stored in drums or IBCs. The larger size of the sliding doors gives you up to 50 % more storage capacity than the wing door variant. In addition, the door opening radius is eliminated, which extends the working area in front of the room system. When installed outdoors, there is therefore no risk of the doors slamming shut unintentionally due to wind loads. In the version with electric sliding doors RFP SD-ED, the doors can be easily opened and closed by remote control from the forklift.

Product description

Best option when larger quantities of hazardous materials need to be stored in a separate fire compartment and no clearance is available

The larger sliding doors offer up to 50 % more storage capacity. An open sliding door gives easier access to the fire-rated storage container with shelving than a wing door and improves logistical efficiency; when installed outdoors, there is no risk of the doors slamming shut unintentionally due to wind loads.

The manually or electrically operated fire-rated doors, tested according to EN 16034, close automatically when the fire detectors are triggered.

Install directly next to the external wall of neighbouring buildings or as a fire-rated separate area, e.g. in a production hall.

Exception: peroxide stores

On request available with variable shelf heights

Water law tested, two piece, hot dip galvanised 5 mm spill pallet in the lower storage level, with removable grids (**max. load capacity: 1250 kg/m²**)

Long-lasting corrosion protection with fully-galvanised base material and high-quality 2K paint (**RAL 9002, grey-white**)

Fire protection panels with high insulation properties (thickness 100 mm, A class material, non-combustible)

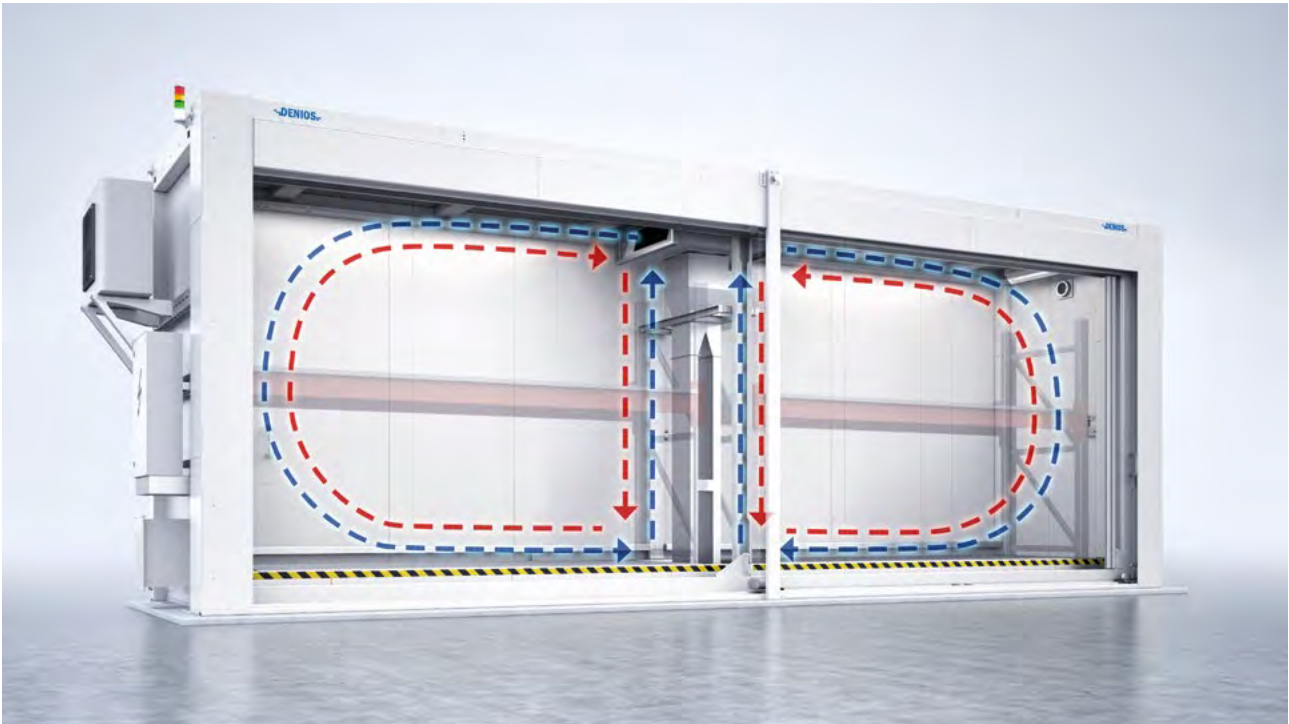
ETA approval / CE marking according to European Regulation (EU) No. 305/2011

Tested and approved as a complete system with 120 minute fire protection (F 120 / REI 120) from inside and outside

Structural analysis

The structural calculations for the technical room system are based on Eurocode 3 (EN 1993). The loads on the structure are measured according to Eurocode 1 (EN 1991-1-3) for a characteristic wind load $q_{k,w} = 0.585 \text{ kN/m}^2$ and a ground snow load $s_k = 2.5 \text{ kN/m}^2$. The structure is also designed for earthquake zone 3 according to DIN 4149, EN 1998-1:2004. Available with additional equipment for up to wind load zone 4, terrain category I ($q_{k,w} = 1.064 \text{ kN/m}^2$) and for up to ground snow load $s_k = 5.86 \text{ kN/m}^2$.

Storage capacity for up to 48 drums or 12 IBCs



The RFP SD fire-rated storage container can be equipped with ribbed tubular radiators for freeze-proof storage. Due to its large volume, a recirculation system is also used. This is connected to the heating system, draws in the heated interior air and distributes it evenly in the storage area.

Roof drainage

The roof drainage counteracts loads from standing water on the roof. The rainwater is directed via the roof profile to the two short sides of the room and is channeled to an outlet either through the right or left corner profile or through both. From there, it can be directed to a drainage system on site, e.g. via a drainage pipe.

Equipment options

With fire-rated stores, safety is of prime importance. Add electric sliding doors with remote control, optional video surveillance or an aerosol extinguishing system to increase safety. Our experts will discuss your requirements with you on site and develop a custom-fit solution.



The electric sliding doors of the RFP SD-ED can be easily opened and closed from the forklift, saving time, with a practical remote control unit

Storage recommendations

In addition, the following specifications must be observed when storing flammable media:

- Create equipotential bonding (earthing) (connection point provided in the hazardous materials store)
- If required, provide lightning protection
- Country-specific requirements for air exchange rate
- Specifications in accordance with ATEX Directive 2014/34/EU and 1999/92/EC
- For hazardous materials stores without fire-resistant partitions, a distance to fire loads must be observed (usually at least 10 m)



The aerosol extinguishing system is triggered by temperature and effectively interrupts the chemical combustion process within 4.5 - 15 seconds (depending on model)



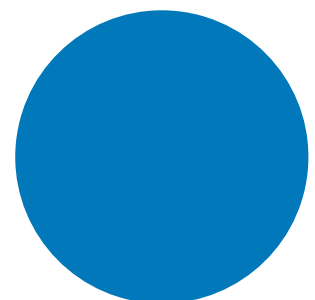
HAZARDOUS MATERIALS STORES WITHOUT FIRE PROTECTION

Plenty of space for waterpollutants



Hazardous material storage is as diverse as the hazardous substance itself. Storage capacity, type of container, storage medium, storage location: These are only the most important parameters that influence the correct equipment of a hazardous materials storage facility. Other factors such as fire and frost protection can also be of importance.

On the following pages we will show you the different possibilities for storing hazardous substances. For an quick initial overview of the variety of models and their application and storage possibilities.



SC

STORAGE CONTAINERS WITH SHELVING FOR IBCS AND 205 LITRE DRUMS

PERFECT FIT WITH A WIDE RANGE OF VARIANTS



SOLIDMAXX

COMPACT STORE FOR INSTALLATION NEAR PRODUCTION

STORAGE CAPACITY:
FOR UP TO 8 DRUMS OR 2 IBCS



MCV

WALK-IN HAZARDOUS MATERIALS STORE WITH MULTIPLE EQUIPMENT OPTIONS

STORAGE CAPACITY: APPROX. 5–17 M²



WHG

WALK-IN HAZARDOUS MATERIALS STORE FOR SMALL CONTAINERS AND INDIVIDUAL DRUMS

STORAGE CAPACITY: APROX. 2–15 M²



Hazardous materials store SC



Hazmat storage container with shelving SC is the most flexible room system. Four different versions (K, P, H, M) are optimised to suit typical types of large containers: drums or IBCs with/without pallets or mixed storage. The containers can be stored on top of each other on up to three levels. Each version has insulated variants and an extra deep version available. Your hazardous materials store can be adapted to your individual needs.



SC-P
Drum storage on euro and chemical pallets



SC-H
Mixed storage of drums and IBCs



SC-M
More capacity and adaptability

Product description (SC-K)

For the storage of large quantities of hazardous substances in IBCs
Version for temperature-sensitive materials with thermal insulation in 60 mm class A material (class B material also available for SC 2K 415 + SC 2K 715)
Water-law tested, fully galvanised 3 mm spill pallet(s) in the lower storage level
Storage levels fitted with removable, hot-dip galvanised grids
(max. load capacity 1250 kg/m²)
110 mm clearance for access underneath using a hand operated electric stacker
Long-lasting corrosion protection with fully-galvanised base material and high-quality 2K paint **(RAL 9002, grey-white or RAL 5010, gentian blue)**

Sliding doors in modern sectional design
Security lock for protection against unauthorised access
Precise roof drainage
European product concept: higher availability and a uniform product and service offering for internationally operating customers; country-specific legislation is taken into account
With General Technical Approval valid throughout Germany from the Deutsches Institut für Bautechnik (DIBt) for the storage of liquids in all water hazard classes
Compliance with EN 1090 for manufacturers of load-bearing structures in steel

Storage capacity for up to 18 IBCs or 60 drums



If substances are stored in the hazmat storage container with shelving SC which may pose a risk due to the accumulation of explosive atmospheres, adequate ventilation must be provided. A high-performance technical ventilation system ensures permanent cross-ventilation.

Structural analysis

The structural calculations for the technical room system are based on Eurocode 3 (EN 1993). The loads on the structure are measured according to Eurocode 1 (EN 1991-1-3) for a characteristic wind load $q_{k,w} = 0.585 \text{ kN/m}^2$ and a ground snow load $s_k = 2.5 \text{ kN/m}^2$. The structure is also designed for earthquake zone 3 according to DIN 4149, EN 1998-1:2004.

Equipment options

Equipment plays a decisive role in the individual product configuration. We will be happy to discuss with you whether you need a motion sensor or a signal lamp. Our experts will design a customised solution with you on site.



External lighting with motion sensor

Storage recommendations

In addition, the following specifications must be observed when storing flammable media:

- Create equipotential bonding (earthing) (connection point provided in the hazardous materials store)
- If required, provide lightning protection
- Country-specific requirements for air exchange rate
- Specifications in accordance with ATEX Directive 2014/34/EU and 1999/92/EC
- For hazardous materials stores without fire-resistant partitions, a distance to fire loads must be observed (usually at least 10 m)



Signal lamp for visual indication of an alarm.



Compact hazardous materials store SolidMaxx



The compact SolidMaxx hazardous materials store is the ideal solution where space is limited. It is suitable for storing hazardous substances close to production, for example cleaning agents for dispensing. If there is no heating at the site, choose a version with thermal insulation and heating. In the high version (CH) the room system can be used as a dispensing station.



Product description

Water law tested, one piece 5 mm spill pallet (to density 1.9 g/cm³) with easily removable hot dip galvanised grids (**max. load capacity: 2000 or 4000 kg**)

When a PE inliner is fitted: galvanised fluid guides all around ensure any leaked substances are safely diverted to the spill pallet

Steel frames and spill pallet are powder coated (**RAL 7043, black-grey**). The wall elements are made of galvanised profile sheet metal or, in the thermally insulated version, of painted smooth sheet metal panels (**RAL 9002, grey-white**)

On request with thermal insulation for walls (40 mm) and roof (50 mm) in mineral wool (ISO A - non-combustible) and heating for frost-free storage

100 mm clearance for access underneath using a hand operated electric stacker

Natural ventilation provided by weather-protected, all round openings

Security lock for protection against unauthorised access

Precise roof drainage via the rear

Crane eyes as standard for safe transport to the installation site

With General Technical Approval valid throughout Germany from the Deutsches Institut für Bautechnik (DIBt) for the storage of liquids in all water hazard classes

Compliance with EN 1090 for manufacturers of load-bearing structures made of steel

Structural analysis

The structural calculations for the technical room system are based on Eurocode 3 (EN 1993). The loads on the structure are measured according to Eurocode 1 (EN 1991-1-3) for a characteristic wind load $q_{kw} = 0.585 \text{ kN/m}^2$ and a ground snow load $s_k = 2.5 \text{ kN/m}^2$. The structure is also designed for earthquake zone 3 according to DIN 4149, EN 1998-1:2004.

Storage capacity for up to 8 drums or 2 IBCs



In the stable, corrosion-protected steel design with integral spill pallet, you can store up to eight 205 litre drums on Euro/chemical pallets or directly on grids. Alternatively, the hazardous materials store offers space for up to two IBCs. In addition, it is accessible underneath and can therefore be easily loaded with a highlift truck or forklift.

Door designs

- 1-wing for SolidMaxx C / CH 1.1
- 2-wing for SolidMaxx C / CH 2.1
- Internal door hook
- Security lock for protection against unauthorised access

Storage recommendations

In addition, the following specifications must be observed when storing flammable media:

- Create equipotential bonding (earthing) (connection point provided in the hazardous materials store)
- If required, provide lightning protection
- Country-specific requirements for air exchange rate
- Specifications in accordance with ATEX Directive 2014/34/EU and 1999/92/EC
- For hazardous materials stores without fire-resistant partitions, a distance to fire loads must be observed (usually at least 10 m)

Equipment options

If you choose the SolidMaxx hazardous materials store, a drum pump or a convenient step provide even more safety and additional comfort. We will be happy to discuss your individual requirements in a personal consultation. Our experts will design a customised solution with you on site.



Drum pump for pumping flammable liquids



The 1-tread step allows you to easily reach the upper part of a container, for example to use a drum pump



Hazmat stores | without fire protection

Walk-in hazardous materials store MCV



The walk-in hazardous materials store MCV has improved comfort and flexibility. It is available in various dimensions as well as an insulated version. But it offers even more: thanks to galvanised components, long-lasting corrosion protection is ensured. The doors can be positioned either in the long or short side of the room system.



Product description

Approved for storage of water-polluting and flammable substances

Enclosed construction with walls and roof in corrosion resistant galvanised and painted sheets (**RAL 5010, gentian blue**)

On request with thermal insulation for walls (40 mm) and roof (50 mm) in mineral wool (ISO A - non-combustible) and heating for frost-free storage

Water law tested, one piece 5 mm spill pallet with easily removable hot dip galvanised grids (**max. load capacity: 1000 kg/m²**)

Low entry height of 150 mm

With 2-wing door (W x H: 2,000 x 2,000 mm), either on the short or long side of the room system in the steps provided MCV 2520 only available with 2-wing door on the long side
Delivered ready assembled

Crane eyes as standard for safe transport to the installation site
Natural ventilation available on request

With General Technical Approval valid throughout Germany from the Deutsches Institut für Bautechnik (DIBt) for the storage of liquids in all water hazard classes

Compliance with EN 1090 for manufacturers of load-bearing structures made of steel

Structural analysis

The structural calculations for the technical room system are based on Eurocode 3 (EN 1993). The loads on the structure are measured according to Eurocode 1 (EN 1991-1-3) for a characteristic wind load $q_{k,w} = 0.585 \text{ kN/m}^2$ and a ground snow load $s_k = 2.5 \text{ kN/m}^2$. The structure is also designed for earthquake zone 3 according to DIN 4149, EN 1998-1:2004.

Storage area approx. ca. 5–17 m²



Use walk-in hazardous materials store MCV to store water-based paints in small containers and drums for example, as well as fill them or dispense from them. As these substances are temperature-sensitive, the store is also equipped with thermal insulation and heating. Various sizes of container can be stored, from small containers up to 205 litre drums. The inner room can be optimised with flexible shelving systems.

Shelving

Optionally available shelves can be used to create order for small containers in your hazardous materials store. The shelves can be stacked. They have three levels (grids) and are available in two sizes:

- 1.000 x 500 mm (W x D, shelf load: 75 kg*, bay load: 225 kg)
- 2.000 x 500 mm (W x D, shelf load: 120 kg*, bay load: 360 kg)

*Shelf loads are with an evenly distributed load.

Equipment options

Whether you need a heating system or you store so many different substances that a clearly laid out information board makes sense, we will clarify this together with you in a personal consultation. Our experts will design a customised solution with you on site.



The 5 kW heating system in nEx design, in combination with the thermal insulation, ensures an internal temperature of + 5 °C for an external temperature of -15 °C

Storage recommendations

In addition, the following specifications must be observed when storing flammable media:

Create equipotential bonding (earthing) (connection point provided in the hazardous materials store)

If required, provide lightning protection

Country-specific requirements for air exchange rate

Specifications in accordance with ATEX Directive 2014/34/EU and 1999/92/EC

For hazardous materials stores without fire-resistant partitions, a distance to fire loads must be observed (usually at least 10 m)



Infoboard for the clear presentation of information and work safety instructions



Hazmat stores | without fire protection

Walk-in hazardous materials store WHG



The WHG walk-in hazardous materials store can be conveniently loaded due to its low entry height in combination with an access ramp: the entry height is only 150 mm. The standard version of WHG is perfect for passive storage of water-polluting / flammable substances, if safety distances are observed. Flexible equipment options can be added at any time.



Product description

Approved for storage of water-polluting and flammable substances
Enclosed construction with walls and roof in corrosion resistant galvanised and painted profile sheets (**RAL 5010, gentian blue**)
Water law tested, one piece 5 mm spill pallet with easily removable hot dip galvanised grids (**max. load capacity: 1000 kg/m²**)
Low entry height of 150 mm
2-wing door (with safety lock) on the long side of the room

Delivered ready assembled
Crane eyes as standard for safe transport to the installation site
Natural ventilation available on request
With general technical approval valid throughout Germany from the Deutsches Institut für Bautechnik (DIBt) [German institute of construction engineering], Berlin
Compliance with EN 1090 for manufacturers of load-bearing structures made of steel

Structural analysis

The structural calculations for the technical room system are based on Eurocode 3 (EN 1993). The loads on the structure are measured according to Eurocode 1 (EN 1991-1-3) for a characteristic wind load $q_{kw} = 0.585 \text{ kN/m}^2$ and a ground snow load $s_k = 2.5 \text{ kN/m}^2$. The structure is also designed for earthquake zone 3 according to DIN 4149, EN 1998-1:2004.

Storage area approx. 2–15 m²



For example, the walk-in hazardous materials store could be used as a workshop oil store for small containers and drums.

Shelving

Optionally available shelves can be used to create order for small containers in your hazardous materials store. The shelves can be stacked. They have three levels (grids) and are available in two sizes:

- 1,000 x 500 mm (W x D, shelf load: 75 kg*, bay load: 225 kg)
- 2,000 x 500 mm (W x D, shelf load: 120 kg*, bay load: 360 kg)

*Shelf loads are with an evenly distributed load.

Equipment options

Our tip: SpillGuard® connect detects dangerous leaks and sends an alarm to your smartphone in real time if there is an emergency. This allows you to react immediately, gain valuable time and avoid any subsequent costs. We will be happy to discuss your individual requirements in a personal consultation. Our experts will design a customised solution with you on site.



Spillguard® connect leak recognition system

Storage recommendations

In addition, the following specifications must be observed when storing flammable media:

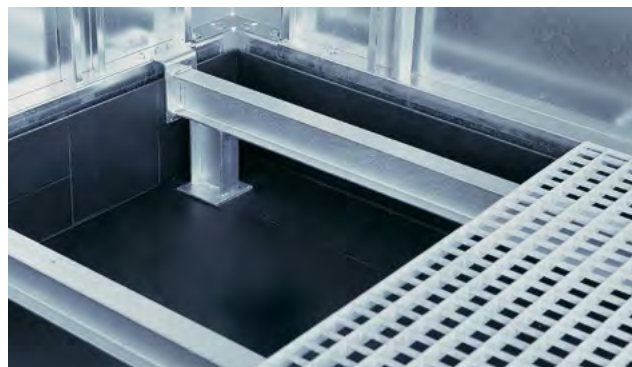
Create equipotential bonding (earthing) (connection point provided in the hazardous materials store)

If required, provide lightning protection

Country-specific requirements for air exchange rate

Specifications in accordance with ATEX Directive 2014/34/EU and 1999/92/EC

For hazardous materials stores without fire-resistant partitions, a distance to fire loads must be observed (usually at least 10 m)



PE inliner for acids and alkalis (LGK 8), dissipative version available





RISKS AND HAZARDS

When companies handle substances that are harmful to water or other hazardous materials, operators and users bear a great responsibility for people and the environment. Just one drop of oil, for example, can pollute up to 1,000 litres of water. A supposedly small leakage can thus already lead to ecological damage. The consequences of large leaks into the environment are correspondingly much more far-reaching.

However, its not only when storing hazardous materials indoors and outdoors that special measures have to be taken, but also and especially when handling – the protection of people and the environment should be a top priority. Because wherever material is moved, manoeuvred or stored and retrieved, there is an increased risk of damage. If the material transported is also a hazardous substance, then more stringent conditions apply. Improper handling or damage to the container can cause uncontrolled leakage of critical substances – often with devastating consequences.

Therefore, operators and users should always carry out a risk assessment when handling hazardous substances, derive suitable protective measures according to the STOP principle and instruct the workforce accordingly.



UK Legislation for storing hazardous materials in sump pallets

Our sump pallets offer the necessary protection for storing water hazardous substances whilst maintaining a safe and clean working environment in accordance with UK legislation.

In the United Kingdom, according to the Oil Storage Regulations of 2001, a container of oil or fuel cannot be stored outside unless it is banded in a secondary containment item, like a spill pallet. All the prospective leakage should be stored within the bund according to these regulations. It is also considered good practice to ensure that the secondary containment item is able to hold 110% of the largest container above, while it is not legally enforceable.

The Environmental Regulation PPG 26 guidelines for the storage and handling of drums and intermediate bulk containers (IBCs) were produced by the Environment Agency and Wales, the Scottish Environment Protection Agency and the Environment and Heritage Service in Northern Ireland. PPG's guidelines give information and advice about storing oil and chemicals in small containers, drums of up to 205 litres or IBCs up to 1000 litres. Following the Pollution Prevention Guidelines PPG 26 will ensure you reduce the risk of pollution from the site to land, surface waters and groundwater by taking care with the storage, maintenance and handling of drums and IBCs.



The right sump pallet for your application

Which hazardous materials should be stored? The properties of the hazardous material determine the material of the sump pallet:

Storage of flammable substances and/or water pollutants such as oils, varnishes, etc.



Steel sump pallets either in coated or galvanised design

Storage of non-flammable, water pollutants, aggressive substances such as acids and bases



Polyethylene sump pallets

Which containers should be stored?

When storing hazardous materials, the sump pallet must ensure an adequate collection volume. Depending on whether small containers, 60 or 200 litre drums, 1,000 litre containers or different container sizes are supposed to be clustered, the asecos delivery programme offers the right sump pallet

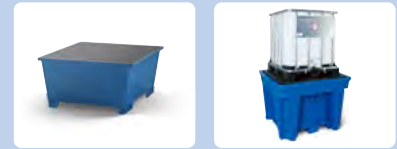
• 60-litre containers/drums



• 200-litre drums



• 1,000-litre containers



Which application is required?

The sump pallet systems offer you maximum flexibility

• For placing on the floor or on Euro/chemical pallets



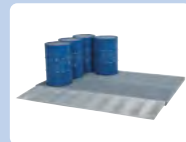
• Can be rolled-under with a fork lift or fork lift truck



• Can be moved with rollers and push handles

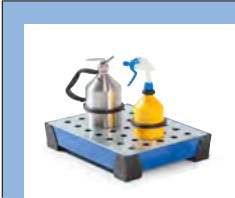


• Extensive protection



Overview: sump pallet (steel)

For small containers



page 430



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page 431

For 60 litre drums



page 432



page 436

For drums à 200 litres



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page 434

For IBC à 1000 litres



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Bunded spill floorings



page 440



page 441



Sump for small containers | Steel | Stainless steel



Order No. 39976

Steel or stainless steel sumps for small containers

Compact and robust design

- Approved for the safe storage of water pollutants and flammable liquids
- Ideal for use in the workplace, e.g. on the workbench
- Sturdy plastic feet protect against corrosion and protect work surfaces and floors

Flexible

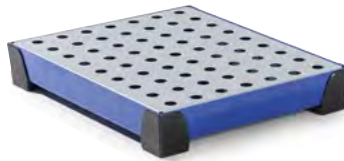
- Direct storage in the sump pallet or on the storage level

Optimal corrosion protection

- Made of high-quality powder-coated steel optionally with galvanised perforated insert, or made of stainless steel optionally available with perforated insert made of stainless steel



Order No. 39971



Order No. 39978



Order No. 39982





Order No. 39985



Order No. 39990



Order No. 39994

Type	W x D x H (mm)	 1)	 2)	Storage level	
				without	perforated insert
				Order No.	Order No.
Sump for small containers made of powder-coated steel	250 x 400 x 95	5	50	39971	39972
Sump for small containers made of powder-coated steel	250 x 600 x 95	7	50	39973	39974
Sump for small containers made of powder-coated steel	500 x 400 x 95	10	50	39975	39976
Sump for small containers made of powder-coated steel	500 x 600 x 95	15	50	39977	39978
Sump for small containers made of powder-coated steel	987 x 400 x 95	20	100	39979	39980
Sump for small containers made of powder-coated steel	987 x 600 x 95	30	100	39981	39982
Sump for small containers made of stainless steel	250 x 400 x 95	5	50	39983	39984
Sump for small containers made of stainless steel	250 x 600 x 95	7	50	39985	39986
Sump for small containers made of stainless steel	500 x 400 x 95	10	50	39987	39988
Sump for small containers made of stainless steel	500 x 600 x 95	15	50	39989	39990
Sump for small containers made of stainless steel	987 x 400 x 95	20	100	39991	39992
Sump for small containers made of stainless steel	987 x 600 x 95	30	100	39993	39994

1) capacity (litre), 2) load capacity (kg)



Order No. 40006

Steel sumps for small containers

Compact and robust design

- Approved for the safe storage of water pollutants and flammable liquids
- Ideal for use in the workplace, e.g. on the workbench
- Sturdy plastic feet protect against corrosion and protect work surfaces and floors

Flexible

- Direct storage in the sump pallet or on the storage level

Optimal corrosion protection

- Made of high-quality powder-coated steel for optimum protection against corrosion, optionally with a grid made of PE or galvanised perforated insert as a shelf



Order No. 39998



Order No. 40002



Order No. 40007





Order No. 40008



Order No. 40004



Order No. 40000

Type	W x D x H (mm)	 1)	 2)	Storage level		
				without	grid	perforated insert
				Order No.	Order No.	Order No.
Sump for small containers made of powder-coated steel	392 x 392 x 200	20	50	39995	39996	39997
Sump for small containers made of powder-coated steel	584 x 392 x 200	30	75	39998	39999	40000
Sump for small containers made of powder-coated steel	774 x 392 x 200	40	100	40001	40002	40003
Sump for small containers made of powder-coated steel	774 x 584 x 200	65	150	40004	40005	40006
Sump for small containers made of powder-coated steel	774 x 774 x 200	90	200	40007	40008	40009

1) capacity (litre), 2) load capacity (kg)





Order No. 11947

Steel sump pallets

Compact and robust design

- Approved for the safe storage of water pollutants and flammable liquids

Flexible

- Direct storage in the sump pallet or on the grid
- Optimal corrosion protection through high-quality galvanizing or powder coating

Sump with feet

- Easy and safe in-house transport of the empty sump by pallet truck and forklift truck



Order No. 11946





Order No. 11942



Order No. 2516



Order No. 2517

Type	W x D x H (mm)	 1)	 2)	Storage level	
				without	grid
				Order No.	Order No.
Sump pallet made of powder-coated steel	635 x 785 x 178	60	400	11945	11943
Sump pallet made of steel galvanized	635 x 785 x 178	60	400	11944	11942
Sump pallet powder-coated steel with foot construction	635 x 785 x 278	60	400	11949	11947
Sump pallet steel galvanized with foot construction	635 x 785 x 278	60	400	11948	11946
Sump pallet powder-coated steel with foot construction	815 x 885 x 473	217	400	9844	2516
Sump pallet steel galvanized with foot construction	815 x 885 x 473	217	400	9843	2517

1) capacity (litre), 2) load capacity (kg)



Order No. 2513

Steel sump pallets

Compact and robust design

- Approved for the safe storage of water pollutants and flammable liquids

Flexible

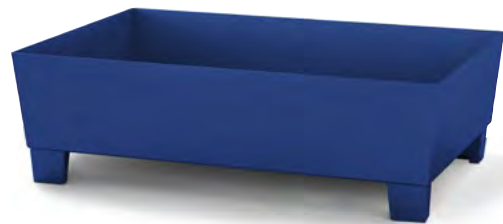
- Direct storage in the sump pallet or on the grid
- Optimal corrosion protection through high-quality galvanizing or powder coating

Sump with feet

- Easy and safe in-house transport of the empty sump by pallet truck and forklift truck



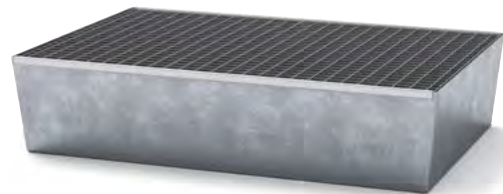
Order No. 2512



Order No. 2508



Order No. 2504



Order No. 2505

Type	W x D x H (mm)	1) 2)		Storage level	
				without grid	with grid
				Order No.	Order No.
Sump pallet made of powder-coated steel	815 x 1236 x 255	205	800	2500	2504
Sump pallet made of steel galvanized	815 x 1236 x 255	205	800	2501	2505
Sump pallet powder-coated steel with foot construction	815 x 1236 x 355	205	800	2508	2512
Sump pallet steel galvanized with foot construction	815 x 1236 x 355	205	800	2509	2513

1) capacity (litre), 2) load capacity (kg)





Order No. 2514

Steel sump pallets

Compact and robust design

- Approved for the safe storage of water pollutants and flammable liquids

Flexible

- Direct storage in the sump pallet or on the grid
- Optimal corrosion protection through high-quality galvanizing or powder coating

Sump with feet

- Easy and safe in-house transport of the empty sump by pallet truck and forklift truck



Order No. 2515



Order No. 2510



Order No. 2520

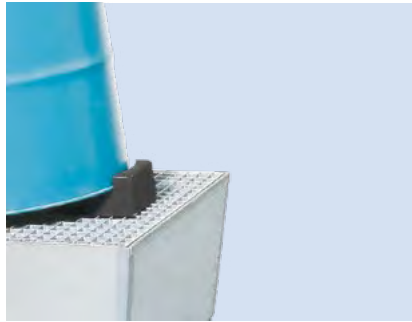
Type	W x D x H [mm]	Storage level		Storage level	
		1)	2)	without grid	grid
				Order No.	Order No.
Sump pallet made of powder-coated steel	1210 x 1236 x 290	220	1600	2510	2514
Sump pallet made of steel galvanized	1210 x 1236 x 290	220	1600	2511	2515
Sump pallet made of powder-coated steel	815 x 2470 x 250	225	1600	-	2520
Sump pallet made of steel galvanized	815 x 2470 x 250	225	1600	-	2521
Sump pallet made of powder-coated steel	816 x 2470 x 355	420	1600	-	23039
Sump pallet made of steel galvanized	816 x 2470 x 355	420	1600	-	23040
Sump pallet made of powder-coated steel	1210 x 2455 x 250	340	3200	-	2522
Sump pallet made of steel galvanized	1210 x 2455 x 250	340	3200	-	2523

1) capacity (litre), 2) load capacity (kg)

Accessories



Drum mount PE, variable for 1 x 60 L drum or 1 x 200 L drum
 simply turn 180 degrees
 W x D x H (mm): 475 x 620 x 390
Order No. 9875



Drum rest PE enables 200 litre steel and plastic barrels to be placed at an angle optimal emptying of the barrel possible by means of a pump
 W x D x H (mm): 217 x 214 x 97
Order No. 12124



Loading safety set for mobile 2-drum trough with grid
 Set consisting of safety tensioning strap and holder for 2 drums
Order No. 34829



SpillGuard

- Leak recognition system for ATEX zone 0
 - Highly resistant and electrically conductive housing
 - Reliably detects dangerous leaks
 - Acoustic and optical alarm for min. 24 hours in case of contact with hazardous liquid substances
 - Regular optical signal (red LED) indicates safe function
 - Acoustic signal indicates the need for replacement in good time at the end of the service life (up to 5 years)
 - ATEX marking: EX II 1G Ex ia IIC T4 Ga
 - External dimensions ØxH (mm): 110 x 40
- Order No. 39036**





Order No. 2558

Movable steel sump pallets

Compact and robust design

- Approved for the safe storage of water pollutants and flammable liquids

Flexible

- Direct storage in the sump pallet or on the grid
- Optimal corrosion protection through high-quality galvanizing or powder coating

Mobile version

- Movable with castors made of polyamide
- Handle for convenient internal transport



Order No. 2557





Order No. 2556



Order No. 14302



Order No. 22746

Type	W x D x H (mm)	 1)	 2)	Storage level	
				without grid	grid
				Order No.	Order No.
Sump pallet made of powder-coated steel with castors	1275 x 635 x 890	65	300	23041	14302
Sump pallet made of steel galvanized with castors	1275 x 635 x 890	65	300	23042	22476
Sump pallet made of powder-coated steel with castors	1350 x 815 x 995	217	400	-	2556
Sump pallet made of steel galvanized with castors	1350 x 815 x 995	217	400	-	2555
Sump pallet made of powder-coated steel with castors	1700 x 815 x 995	217	800	-	2558
Sump pallet made of steel galvanized with castors	1700 x 815 x 995	217	800	-	2557

1) capacity (litre), 2) load capacity (kg)



Order No. 40016

Steel sump pallet

Compact and robust design

- Approved for the safe storage of water pollutants and flammable liquids

Flexible

- Direct storage in the sump pallet or on the grid
- Optimal corrosion protection through high-quality galvanizing or powder coating

Mobile version

- Movable with electrically conductive castors
- Handle for convenient internal transport



Order No. 40017





Order No. 40014



Order No. 40012



Order No. 40013

Type	W x D x H (mm)	 1)	 2)	Storage level	
				without Order No.	grid Order No.
Sump pallet made of powder-coated steel with castors, electrically conductive castors from PP	1275 x 635 x 890	65	300	40010	40012
Sump pallet made of steel galvanized with castors, electrically conductive castors from PP	1275 x 635 x 890	65	300	40011	40013
Sump pallet made of powder-coated steel with castors, electrically conductive castors from PP	1350 x 815 x 995	217	400	-	40014
Sump pallet made of steel galvanized with castors, electrically conductive castors from PP	1350 x 815 x 995	217	400	-	40015
Sump pallet made of powder-coated steel with castors, electrically conductive castors from PP	1700 x 815 x 995	205	800	-	40016
Sump pallet made of steel galvanized with castors, electrically conductive castors from PP	1700 x 815 x 995	205	800	-	40017

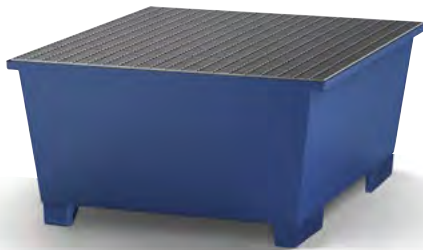
1) capacity (litre), 2) load capacity (kg)



Sump pallet | Steel | for KTC/IBC



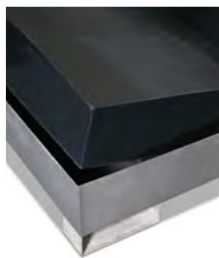
Order No. 8808



Order No. 19232



Order No. 8853



Order No. 2577

Steel sump pallet

Compact and robust design

- Approved for the safe storage of water pollutants

Flexible



- Ideal for the storage of IBC
- Polyethylene sump inliner optionally available, optimum corrosion protection when storing aggressive materials
- Useable as filling and dispensing station in combination with drum mount (sumps without grid)
- Available either painted or galvanised

Sump with feet

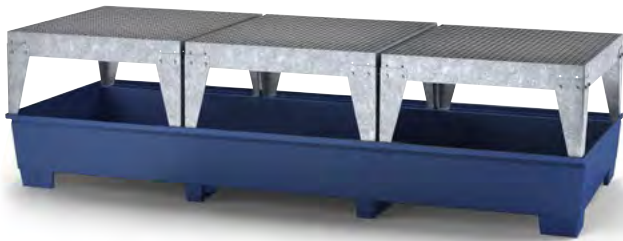
- Easy and safe in-house transport of the empty sump by pallet truck and forklift truck



Order No. 8856

Type	W x D x H (mm)	W x D x H (mm) incl. filling rack	 1)  2)		Filling rack	
					without	1x
					Order No.	Order No.
KTC/IBC station made of powder-coated steel	1350 x 1650 x 710	1350 x 1650 x 1180	1000	2000	19232	8809
KTC/IBC station made of steel galvanized	1350 x 1650 x 710	1350 x 1650 x 1180	1000	2000	13626	8857
Sump inliner for IBC station	1230 x 1630 x 565				2577	2577
Can tray for IBC station	360 x 365 x 300				-	8853
KTC/IBC station made of powder-coated steel	1300 x 1120 x 1040	1120 x 1300 x 1493	1000	2000	8854	8856
KTC/IBC station made of steel galvanized	1300 x 1120 x 1040	1120 x 1300 x 1493	1000	2000	8807	8808
Sump inliner for IBC station	1107 x 1162 x 883				8855	8855
Can tray for IBC station	364 x 452 x 374				-	40018

1) capacity (litre), 2) load capacity (kg)



Order No. 23048

Steel sump pallet

Compact and robust design

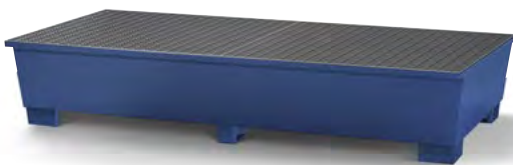
- Approved for the safe storage of water pollutants

Flexible

- Ideal for the storage of IBC
- Polyethylene sump inliner optionally available, optimum corrosion protection when storing aggressive materials
- Useable as filling and dispensing station in combination with drum mount (sumps without grid)
- Available either painted or galvanised

Sump with feet

- Easy and safe in-house transport of the empty sump by pallet truck and forklift truck



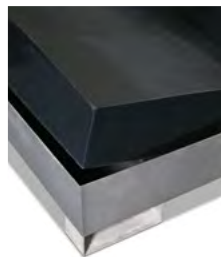
Order No. 8851



Order No. 22578



Order No. 40019



Order No. 9212

Type	W x D x H (mm)	W x D x H (mm) incl. filling rack	1)	2)	Filling rack			
					without	1x	2x	3x
					Order No.	Order No.	Order No.	Order No.
KTC/IBC station made of powder-coated steel	2200 x 1300 x 590	2200 x 1300 x 1050	1000	4000	8851	22577	22579	-
KTC/IBC station made of steel galvanized	2200 x 1300 x 590	2200 x 1300 x 1050	1000	4000	8806	22578	12165	-
Sump inliner for IBC station	2186 x 1161 x 435				9212	9212	9212	9212
KTC/IBC station made of powder-coated steel	3280 x 1300 x 430	3280 x 1300 x 883	1000	6000	23043	23044	23046	23048
KTC/IBC station made of steel galvanized	3280 x 1300 x 430	3280 x 1300 x 883	1000	6000	22623	23045	23047	23049
Sump inliner for IBC station	3265 x 1160 x 275				40019	40019	40019	40019
Can tray for IBC station	364 x 452 x 374				-	40018	40018	40018

1) capacity (litre), 2) load capacity (kg)



Bunded spill floorings | galvanised steel | height 78 mm

Bunded spill flooring made from galvanised steel (height 78 mm) with removable, hot-dip galvanised grids

Compact and robust design – safe and approved

- Approved for the safe storage of water pollutants and flammable liquids

Flexible

- Ideal for covering a large storage area, optimal adaption on space demands
- Height 78 mm – easy access
- Wheel load either 450 kg or 2,000 kg



Type	W x D x H (mm)	1)	2)	Wheel load	
				450 kg	2000 kg
				Order No.	Order No.
Bunded spill flooring made of steel galvanized galvanised	1362 x 1362 x 78	80	5000	2583	17758
Bunded spill flooring made of steel galvanized galvanised	1862 x 1362 x 78	110	5000	2584	14949
Bunded spill flooring made of steel galvanized galvanised	1862 x 1862 x 78	140	5000	27965	27966
Bunded spill flooring made of steel galvanized galvanised	2862 x 1362 x 78	170	5000	2585	10536
Bunded spill flooring made of steel galvanized galvanised	2862 x 1862 x 78	225	5000	2586	14491

1) capacity (litre), 2) load capacity (kg)

Accessories	W x D x H (mm)	Order No.
Joining element	1320 x 45 x 40	2587
Joining element	1820 x 45 x 40	2588
Joining element	2820 x 45 x 40	2589
Ramp	1320 x 720 x 78	2590
Ramp	1820 x 720 x 78	2591
Ramp	2820 x 720 x 78	2592
Corner ramp	730 x 730 x 78	2596
Distance joiner	25 x 120 x 77	2593
Edge fastening	20 x 80 x 73	2594
Cross joiner	130 x 130	2595

Bunded spill floorings | galvanised steel | height 123 mm

Bunded spill flooring made from galvanised steel (height 123 mm) with removable, hot-dip galvanised grids

Compact and robust design – safe and approved

- Approved for the safe storage of water pollutants and flammable liquids

Flexible

- Ideal for covering a large storage area, optimal adaption on space demands
- Height 123 mm – large collecting volume
- Wheel load either 450 kg or 2,000 kg



Type	W x D x H (mm)	1)	2)	Wheel load	
				450 kg Order No.	2000 kg Order No.
Bunded spill flooring made of steel galvanized galvanised	500 x 500 x 123	20	5000	8810	23064
Bunded spill flooring made of steel galvanized galvanised	1000 x 500 x 123	40	5000	8811	23065
Bunded spill flooring made of steel galvanized galvanised	1000 x 1000 x 123	80	5000	8812	17303
Bunded spill flooring made of steel galvanized galvanised	2000 x 1000 x 123	165	5000	8813	10479
Bunded spill flooring made of steel galvanized galvanised	2500 x 500 x 123	95	5000	8814	23066
Bunded spill flooring made of steel galvanized galvanised	2500 x 1000 x 123	210	5000	8815	23067

1) capacity (litre), 2) load capacity (kg)

Accessories	W x D x H (mm)	Order No.
Joining element	470 x 45 x 40	8816
Joining element		8817
Joining element	1970 x 45 x 40	8818
Joining element	2470 x 45 x 40	8819
Ramp	450 x 1120 x 125	8820
Ramp	950 x 1120 x 125	8821
Ramp	1950 x 1120 x 125	8822
Ramp	2450 x 1120 x 125	8823
Distance joiner	25 x 120 x 123	8824
Edge fastening	20 x 80 x 123	8825
Corner ramp	1140 x 1140 x 125	8826
Cross joiner	130 x 130	2595



Overview: sump pallet (PE)

For small containers



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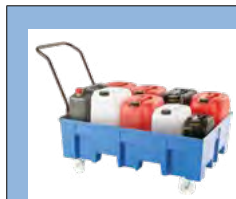


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For drums à 200 litres



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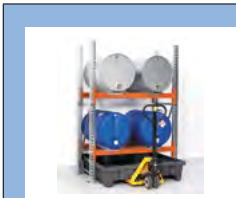


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Pallet-racking-sumps



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For IBC à 1,000 litres



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Order No. 40037

Polyethylene sump for small containers

Compact and robust design

- Approved for the safe storage of water pollutants
- Ideal for use in the workplace, e.g. on the workbench

Highly resistant against oil, acid, alkali, etc.

- Made of chemically highly resistant polyethylene
- Optionally available with PE grid including leakage indicator



Order No. 40033





Order No. 40039



Order No. 40034



Order No. 40040

Type	W x D x H (mm)	 1)	 2)	Order No.
Sump for small containers	995 x 395 x 90	20	200	40033
Grid with leakage indicator suitable V=20 L	1000 x 400 x 90			40034
Sump for small containers	1265 x 395 x 90	26	200	40035
Grid with leakage indicator suitable V=26 L	1300 x 400 x 90			40036
Sump for small containers	995 x 595 x 90	30	200	40037
Grid with leakage indicator suitable V=30 L	1000 x 600 x 90			40038
Sump for small containers	1265 x 595 x 90	40	200	40039
Grid with leakage indicator suitable V=40 L	1300 x 600 x 90			40040

1) capacity (litre), 2) load capacity (kg)



Sump for small containers | Polyethylene



Order No. 40028

Polyethylene sump for small containers

Compact and robust design

- Approved for the safe storage of water pollutants
- Ideal for use in the workplace, e.g. on the workbench

Highly resistant against oil, acid, alkali, etc.

- Made of chemically highly resistant polyethylene
- Optionally available with PE grid including leakage indicator



Order No. 40030





Order No. 40024



Order No. 40031



Order No. 40023

Type	W x D x H (mm)	 1)	 2)	Storage level	
				without	grid
				Order No.	Order No.
Sump for small containers	400 x 400 x 180	20	50	40021	40022
Sump for small containers	592 x 400 x 180	30	75	40023	40024
Sump for small containers	784 x 400 x 180	40	100	40025	40026
Sump for small containers	784 x 784 x 180	80	200	40027	40028
Sump for small containers	1170 x 785 x 180	120	300	40029	40030
Sump for small containers	1168 x 1168 x 180	180	450	40031	40032

1) capacity (litre), 2) load capacity (kg)



Order No. 18074

Polyethylene sump pallets

Compact and robust design

- Approved for the safe storage of water pollutants

Highly resistant against oil, acid, alkali, etc.

- Optionally available with galvanized grid or PE grid
- Sump pallet for direct placing on the floor or Euro-Pallet

Sump with feet

- Ideal for in-house transport of the empty sump pallet

Mobile version

- Movable with 2 swivel castors and 2 fixed castors, castors made of polyamide
- Handle for convenient internal transport



Order No. 18447





Order No. 18073



Order No. 18076



Order No. 18077

Type	W x D x H (mm)	 1)	 2)	Storage level		
				without	Grid galvanised	Grid GRP
				Order No.	Order No.	Order No.
Sump pallet	725 x 525 x 235	60	150	18447	18448	18449
Sump pallet PE with foot construction	725 x 525 x 320	60	150	18073	18074	18075
Sump pallet with castors	725 x 525 x 330	60	120	18076	18077	18078

1) capacity (litre), 2) load capacity (kg)



Sump pallet | Polyethylene



Order No. 33054

Polyethylene sump pallets

Compact and robust design

- Approved for the safe storage of water pollutants

Highly resistant against oil, acid, alkali, etc.

- Optionally available with galvanized grid or PE grid

Flat surface design

- For an easy and comfortable storage of drums
- Robust construction, shock resistant

Forklift pockets

- Easy and safe in-house transport of the empty sump by forklift truck

Mobile version

- Movable with 2 swivel castors and 2 fixed castors, castors made of polyamide
- Handle for convenient internal transport



Order No. 33055



Order No. 31861



Order No. 33056



Order No. 33057

Type	W x D x H (mm)	L ¹⁾	Kg ²⁾	Storage level		
				without Grid	Galvanised	Grid PE
				Order No.	Order No.	Order No.
Sump pallet	865 x 1245 x 350	220	760	33052	33054	33055
Sump pallet with castors	865 x 1245 x 1060	220	620	33056	33057	33059
Sump pallet	1235 x 1235 x 275	255	950	31860	31861	31862

1) capacity (litre), 2) load capacity (kg)



Order No. 40045

Polyethylene sump pallets

Compact and robust design

- Approved for the safe storage of water pollutants
- Extremely stable supports for grids or pallets molded into the sump body

Highly resistant against oil, acid, alkali, etc.

- Optionally available with galvanized grid or PE grid

Forklift pockets

- Easy and safe in-house transport of the empty sump by forklift truck



Order No. 40044



Order No. 40046



Order No. 40050



Order No. 40049

Type	W x D x H (mm)	Storage level		without Grid galvanised		Grid PE	Pallet PE
		1)	2)	Order No.	Order No.	Order No.	Order No.
Sump pallet	1330 x 930 x 385	220	800	40044	40045	40046	40047
Sump pallet	1330 x 1330 x 295	220	1600	40048	40049	40050	40051

1) capacity (litre), 2) load capacity (kg)



Sump pallet | Polyethylene



Order No. 40042

Polyethylene sump pallets

Compact and robust design

- Approved for the safe storage of water pollutants

Highly resistant against oil, acid, alkali, etc.

- Optionally available with galvanized grid or PE grid

Forklift pockets

- Easy and safe in-house transport of the empty sump by forklift truck

Models 40052 and 40053

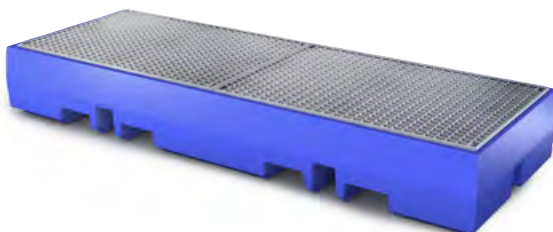
- incl. PE grid with integrated leakage indicator



Order No. 40043





Order No. 40053



Order No. 39195



Order No. 40052

Type	W x D x H (mm)	 1)  2)		Storage level		
				without Grid galvanised		Grid PE
				Order No.	Order No.	Order No.
Sump pallet	2520 x 900 x 350	520	1200	39194	39195	39196
Sump pallet	1720 x 1300 x 350	440	1200	40041	40042	40043
Sump pallet	918 x 1314 x 400	220	800	-	-	40052
Sump pallet	1314 x 1349 x 400	340	1600	-	-	40053

1) capacity (litre), 2) load capacity (kg)



Order No. 31404

Polyethylene pallet racking sumps

Compact and robust design

- Approved for the safe storage of water pollutants

Flexible

- Useable for all common rack widths, used for the storage of hazardous materials and therefore shall be modified according to the legal regulations

Highly resistant against oil, acid, alkali, etc.

Forklift pockets

- Easy and safe in-house transport of the empty sump by forklift truck

Sump for mounting

- For placing on crossbars
- Either available with galvanised or polyethylene grid



Order No. 31407



Order No. 31411



Order No. 31409



Order No. 22460

Type	W x D x H (mm)	1)	2)	Storage level		
				without Grid galvanised	Grid PE	
				Order No.	Order No.	Order No.
Rack sump	1390 x 1315 x 315	315		31404	-	-
Rack sump	1780 x 1315 x 315	400		31406	-	-
Rack sump	2180 x 1315 x 315	480		31407	-	-
Rack sump	2680 x 1315 x 315	600		31408	-	-
Rack sump	2680 x 1315 x 490	1000		31409	-	-
Rack sump PE for mounting	1780 x 1300 x 250	220	800	-	31410	22459
Rack sump PE for mounting	2680 x 1300 x 190	220	800	-	22460	31411

1) capacity (litre), 2) load capacity (kg)

Note to 22459 and 31411: Load capacity applies when containers are stored on pallets





Order No. 15477

Polyethylene sump pallets

Compact and robust design

- Approved for the safe storage of water pollutants

Highly resistant against oil, acid, alkali, etc.

Forklift pockets

- Easy and safe in-house transport of the empty sump by forklift truck

Models 13054 and 13055

- Optionally with integrated dispensing area
- Integrated polyethylene storage mount with upturned edges to prevent IBC from slipping

Models 15477, 15479 and 15480

- Ideal for storing 1,000 litre IBC or small containers
- Optionally with an integrated pallet shape storage platform made of polyethylene
- 2,000 kg load capacity per storage area depending on the self-weight of the container
- Ideal suited for storing liquids with a maximum specific weight of up to 1,800 kg/m³



Order No. 13054



Order No. 15480

Type	W x D x H (mm)	1)	2)	Storage level		
				without	Pallet PE	Bearing block
				Order No.	Order No.	Order No.
IBC station	1380 x 1575 x 760	1000	2000	-	-	13054
IBC station PE with filling area	1380 x 1800 x 760	1000	2000	-	-	13055
IBC station	1430 x 1430 x 965	1000	2000	-	15477	-
IBC station	2260 x 1430 x 745	1000	4000	15479	15480	-

1) capacity (litre), 2) load capacity (kg)



Order No. 24151

Polyethylene sump pallets

Compact and robust design

- Approved for the safe storage of water pollutants
- Optionally with integrated dispensing area

Highly resistant against oil, acid, alkali, etc.

Forklift pockets

- Easy and safe in-house transport of the empty sump by forklift truck



Order No. 24158





Order No. 24155



Order No. 40054



Order No. 24157

Type	W x D x H (mm)	 1)	 2)	Storage level		
				without Grid galvanised		Grid PE
				Order No.	Order No.	Order No.
IBC station	1280 x 1660 x 870	1000	2000	24150	24151	24154
IBC station PE with filling area	1280 x 1910 x 860	1000	2000	24155	24156	24157
IBC station PE with filling area	2460 x 1800 x 460	1000	4000	24158	24159	24160
IBC station PE with filling area	3640 x 1800 x 450	1000	6000	38509	40054	33570

1) capacity (litre), 2) load capacity (kg)



Sump pallet | Polyethylene | for IBC



Order No. 38650

Polyethylene sump pallets

Compact and robust design

- Approved for the safe storage of water pollutants
- Complete corrosion protection

Highly resistant against oil, acid, alkali, etc.

Forklift pockets

- Easy and safe in-house transport of the empty sump by forklift truck



Order No. 38648



Order No. 38647



Order No. 38649

Type	W x D x H (mm)	Storage level		Order No.	Order No.
		1)	2)		
IBC station	1370 x 1980 x 690	1000	2000	38647	38648
IBC station	2530 x 1320 x 580	1000	4000	38649	38650

1) capacity (litre), 2) load capacity (kg)

Accessories



Attachment container made of PE for IBC sump pallets

- Height adjustable with 2 legs
- Safe and clean dispensing

Container dimensions:

W x D x H (mm): 350 x 400 x 500

W x D (mm) outside: 605 x 785

Order No. 40055



Attachment container made of PE for IBC sump pallets

- With 2 feet
- Safe and clean dispensing
- With trays for lids, funnels, rags etc.

Container dimensions:

W x D (mm) outside: 605 x 785

Order No. 40056



Outlet extension for IBC

- Suitable for IBC's with an outlet opening of DN 50
- Internal thread DIN 61

Order No. 9891



Drum rest PE enables 200 litre steel and plastic barrels to be placed at an angle optimal emptying of the barrel possible by means of a pump W x D x H (mm): 217 x 214 x 97

Order No. 12124



Loading safety set for mobile 2-drum trough with grid

Set consisting of safety tensioning strap and holder for 2 drums

Order No. 34829



Drum mount PE, variable for 1 x 60 L drum or 1 x 200 L drum

simply turn 180 degrees

W x D x H (mm): 475 x 620 x 390

Order No. 9875



SpillGuard

- Leak recognition system for ATEX zone 0
- Highly resistant and electrically conductive housing
- Reliably detects dangerous leaks
- Acoustic and optical alarm for min. 24 hours in case of contact with hazardous liquid substances
- Regular optical signal (red LED) indicates safe function
- Acoustic signal indicates the need for replacement in good time at the end of the service life (up to 5 years)
- ATEX marking: EX II 1G Ex ia IIC T4 Ga
- External dimensions ØxH (mm): 110 x 40

Order No. 39036





Filling/storage station

Tested and safe

- For safe storage and filling of hazardous materials
- Steel sump pallet: for the proper storage of flammable liquids (H224 to H226) and substances of all water hazard classes in accordance with the regulations
- Plastic sump pallet: for the proper storage of substances of all water hazard classes in accordance with the regulations, highly resistant to many aggressive chemicals such as acids and alkalis

Flexible

- Practical modular system: various shelf designs and a wide range of combination options for optimum adjustment to operational requirements
- Sturdy, galvanised stacking racks
- Stacking height: 3
- With recesses for forklift trucks for easy handling
- Horizontal storage and filling of canisters, 60 and 200 litre drums, can be combined with small container storage
- Delivered in sections for easy self-assembly


Order No. 40989




Order No. 40996



Order No. 40995

Sump pallet PE accessible from underneath	W x D x H (mm)	 1)	Order No.
Fill and storage station for 6 x 60 litre drum	1429 x 1235 x 1637	1400	40995
Fill and storage station for 4 x 200 litre drum	1429 x 1235 x 1637	1400	40996

Sump pallet steel	W x D x H (mm)	 1)	Order No.
Fill and storage station for 3 x 20 or 3 x 30 or 2 x 60 litre canister + small containers	1049 x 1236 x 1637	870	40989

Fill and storage stations



Order No. 40968




Order No. 40969



Order No. 40970



Order No. 40971

Stacking rack	W x D x H (mm)	W x D x H storage level (mm)	 ¹⁾	Order No.
Stacking rack for small containers	1049 x 1130 x 837	880 x 1115	435	40968
Stacking rack for 3 x 20 or 3 x 30 or 2 x 60 litre canister	1049 x 682 x 837	890 x 646	435	40969
Stacking rack for 2 x 60 litre drum	1049 x 682 x 837	890 x 646	435	40970
Stacking rack for 1 x 200 litre drum	1049 x 682 x 837	890 x 646	435	40971




Order No. 40972



Order No. 40975

Matching grids

Bottom collecting sump	W x D x H (mm)	 ²⁾	Matching grids		
			Order No.	Steel	PE
Rack sump made of PE	865 x 1245 x 350	220	40972	40973	40974
Rack sump made of powder-coated steel	1236 x 815 x 255	205	40975	40976	-



Order No. 40977




Order No. 40978



Order No. 40979



Order No. 40980

Stacking rack	W x D x H (mm)	W x D x H storage level (mm)	 ¹⁾	Order No.
Stacking rack for small containers	1429 x 1130 x 837	1220 x 1115	700	40977
Stacking rack for 5 x 20 or 3 x 30 or 2 x 60 litre canister	1429 x 682 x 837	1270 x 646	700	40978
Stacking rack for 3 x 60 litre drum	1429 x 682 x 837	1270 x 646	700	40979
Stacking rack for 2 x 200 litre drum	1429 x 682 x 837	1270 x 646	700	40980



Order No. 40981




Order No. 40984



Order No. 40986

Matching grids

Bottom collecting sump	W x D x H (mm)	 ²⁾	Matching grids		
			Order No.	Steel	PE
Rack sump made of PE	1235 x 1235 x 275	255	40981	40982	40983
Rack sump made of powder-coated steel	1236 x 1210 x 190	220	40984	40985	-
Rack sump made of powder-coated steel	1240 x 1240 x 330	440	40986	40987	-

1) load capacity (kg), 2) capacity (litres)



Filling/storage stations



Filling and storage stations

- For proper storage of flammable liquids (H224 to H226) and substances of all water hazard classes and in accordance with the regulations
- Sturdy, galvanised stacking rack with steel sump pallet
- Safe filling over projecting sump pallet
- With recesses for forklift trucks for easy handling
- Delivered in sections for easy self-assembly

Order No. 40992





Order No. 40988



Order No. 40989



Order No. 40991

Type	W x D x H (mm)	W x D x H storage level (mm)	 ¹⁾	 ²⁾	Order No.
Fill and storage station for small containers	1429 x 1210 x 837	1220 x 1115	220	1400	40988
Fill and storage station for 3 x 20 or 3 x 30 or 2 x 60 litre canister + small containers	1049 x 1236 x 1637	890 x 1115	205	870	40989
Fill and storage station for 5 x 20 or 4 x 30 or 3 x 60 litre canister + small containers	1429 x 1210 x 1637	1220 x 1115	220	1400	40990
Fill and storage station for 3 x 60 litre drum	1429 x 1210 x 837	1270 x 646	220	700	40991
Fill and storage station for 4 x 200 litre drum	1429 x 1210 x 1637	1270 x 646	220	1400	40992

1) Collecting volume (litres), 2) Load capacity per drum support (kg)



Order No. 40994

Filling and storage stations

- For proper storage of substances of all water hazard classes in accordance with the regulations
- Sturdy, galvanised stacking rack with sump pallet made of polyethylene (PE, highly resistant to many aggressive chemicals such as acids and alkalis)
- Safe filling over projecting sump pallet
- With recesses for forklift trucks for easy handling
- Delivered in sections for easy self-assembly





Order No. 41003



Order No. 40995



Order No. 40996

Type	W x D x H (mm)	W x D x H storage level (mm)	 ¹⁾	 ²⁾	Order No.
Fill and storage station for small containers	1429 x 1235 x 837	1220 x 1115	255	1400	41003
Fill and storage station for 3 x 20 or 3 x 30 or 2 x 60 litre canister + small containers	1049 x 1245 x 1637	890 x 1115	220	870	40993
Fill and storage station for 5 x 20 or 4 x 30 or 2 x 60 litre canister + small containers	1429 x 1235 x 1637	1220 x 1115	255	1400	40994
Fill and storage station for 6 x 60 litre drum	1429 x 1235 x 1637	1270 x 646	255	1400	40995
Fill and storage station for 4 x 200 litre drum	1429 x 1235 x 1637	1270 x 646	255	1400	40996





Hazardous substances rack type REG

- storage of flammable liquids and water pollutants
- grid shelves as storage levels / steel sump on lower level



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Hazardous substances rack type REG-B

- storage of flammable liquids and water pollutants
- grid shelves as storage levels / rack placed in the steel sump



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Hazardous substances rack type RWW

- storage of water pollutants
- steel sump on each storage level



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Type index for hazardous substances racks

- RWW** Shelf with 4 steel trays
REG Shelf with 3 mesh shelves and 1 steel tray
REG-B Shelf with 4 mesh shelves and 1 steel base tray
1044 Shelf width 1000 mm, shelf depth 400 mm
1064 Shelf width 1000 mm, shelf depth 600 mm
1344 Shelf width 1300 mm, shelf depth 400 mm
1364 Shelf width 1300 mm, shelf depth 650 mm



Hazardous substances rack type RWG/RWF

- storage of flammable liquids and water pollutants
- shelves or grids as storage levels / rack placed in the steel sump



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Hazardous substances rack type RSG-V und RSG-K

- storage of aggressive chemicals
- galvanised or polyethylene grid shelves as storage levels / polyethylene sump on lower level



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Hazardous substances rack type RSW

- storage of aggressive chemicals
- polyethylene sump on each storage level



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Type index for hazardous substances racks

RSG-V Shelving with 3 galvanised mesh shelves and 1 PE base tray

RSG-K Shelf with 3 PE grating shelves and 1 PE base tray

RSW Shelf with 4 PE trays

RWG Shelving with 4 or 8 galvanised gratings, shelving in steel drip tray

RWF Shelving with 4 or 8 galvanised shelves, shelf in steel drip tray

1044 Shelf width 1000 mm, shelf depth 400 mm

1064 Shelf width 1000 mm, shelf depth 600 mm

1344 Shelf width 1300 mm, shelf depth 400 mm

1364 Shelf width 1300 mm, shelf depth 650 mm



Hazardous material racks | with grids



Order No. 27841

Hazardous substances rack with grids

Storage of water pollutant and flammable liquids

Construction

- Galvanised rack frames
- Sturdy construction due to reinforcement cross bars
- Storage levels in 25 mm increments, height-adjustable
- Load capacity per storage shelf: 200 kg (evenly distributed)
- Rack system can be extended individually
- Flat-pack delivery with assembly instructions

Interior equipment

- 3 galvanised grids as storage levels and 1 bottom collecting sump made of galvanised steel



Order No. 27837



Type	Capacity (l)	Basic rack W x D x H (mm)	Order No.	Add-on rack W x D x H (mm)	Order No.
REG 1044	20	1060 x 437 x 2000	27837	1012 x 437 x 2000	27838
REG 1064	30	1060 x 637 x 2000	27839	1012 x 637 x 2000	27840
REG 1344	25	1360 x 437 x 2000	27841	1312 x 437 x 2000	27842
REG 1364	40	1360 x 637 x 2000	27843	1312 x 637 x 2000	27844

Additional storage level for type	Order No.	Order No.
Version 1044 / 1054	27877	27877
Version 1064 / 1072 / 2064	27878	27878
Version 1344 / 1352	27879	27879
Version 1364 / 1372	27880	27880

Hazardous material racks | with grids



Order No. 27849

Hazardous substances rack with grids and bottom collecting sump

Storage of water pollutant and flammable liquids

Construction

- Galvanised rack frames
- Sturdy construction due to reinforcement cross bars
- Storage levels in 25 mm increments, height-adjustable
- Load capacity per storage shelf: 200 kg (evenly distributed)
- Rack system can be extended individually
- Flat-pack delivery with assembly instructions

Interior equipment

- 4 galvanised grids as storage levels and 1 bottom collecting sump made of galvanised steel



Order No. 27845



Type	Capacity (l)	Basic rack W x D x H (mm)	Order No.	Add-on rack W x D x H (mm)	Order No.
REG-B 1054	32	1156 x 526 x 2000	27845	1006 x 526 x 2000	27846
REG-B 1072	45	1156 x 726 x 2000	27847	1006 x 726 x 2000	27848
REG-B 1354	41	1456 x 526 x 2000	27849	1306 x 526 x 2000	27850
REG-B 1372	57	1456 x 726 x 2000	27851	1306 x 726 x 2000	27852

Additional storage level for type	Order No.	Order No.
Version 1044 / 1054	27877	27877
Version 1064 / 1072 / 2064	27878	27878
Version 1344 / 1352	27879	27879
Version 1364 / 1372	27880	27880



Hazardous material racks | with sump pallet



Order No. 27833

Hazardous substances rack with sumps

Storage of water pollutant liquids

Construction

- Galvanised rack frames
- Sturdy construction due to reinforcement cross bars
- Storage levels in 25 mm increments, height-adjustable
- Load capacity per storage shelf: 200 kg (evenly distributed)
- Rack system can be extended individually
- Flat-pack delivery with assembly instructions

Interior equipment

- 4 painted sumps made of steel as storage levels



Order No. 27829



Type	Capacity (l)	Basic rack W x D x H (mm)	Order No.	Add-on rack W x D x H (mm)	Order No.
RWW 1044	20	1060 x 437 x 2000	27829	1012 x 437 x 2000	27830
RWW 1064	30	1060 x 637 x 2000	27831	1012 x 637 x 2000	27832
RWW 1344	25	1360 x 437 x 2000	27833	1312 x 437 x 2000	27834
RWW 1364	40	1360 x 637 x 2000	27835	1312 x 637 x 2000	27836

Additional storage level for type	Order No.	Order No.
Version 1044	27873	27873
Version 1064	27874	27874
Version 1344	27875	27875
Version 1364	27876	27876

Hazardous material racks | with sump pallet



Order No. 27869

Hazardous substances rack with sumps

Storage of water pollutant and flammable liquids

Construction

- Galvanised rack frames
- Sturdy construction due to reinforcement cross bars
- Storage levels in 25 mm increments, height-adjustable
- Load capacity per storage shelf: 200 kg (evenly distributed)
- Rack system can be extended individually
- Flat-pack delivery with assembly instructions

Interior equipment


- Rack with galvanised grid or shelves as storage levels
- Collecting sumps either galvanised or painted
- 100 mm ground clearance for transport with pallet truck
- Version with shelves: storage of water pollutant liquids
- Version with grids: storage of water pollutant and flammable liquids



Order No. 27867



Order No. 27878

Type	W x D x H (mm)	 1)	Sump pallet	
			painted Order No.	galvanised Order No.
RWG 1064 with 4 x grid	1236 x 816 x 2100	205	27865	27866
RWG 2064 with 8 x grid	2470 x 816 x 2100	225	27867	27868
RWF 1064 with 4 x shelf	1236 x 816 x 2100	205	27869	27870
RWF 2064 with 8 x shelf	2470 x 816 x 2100	225	27871	27872

1) Collection volume (l)

Additional storage level for type		
Version 1064 / 1072 / 2064	27878	27878
Version 1064 / 2064	27885	27885



Hazardous material racks | with grid



Order No. 27859

Hazardous substances rack with grid and PE sump

Storage of water pollutant and aggressive liquids

Construction

- Galvanised rack frames
- Sturdy construction due to reinforcement cross bars
- Storage levels in 25 mm increments, height-adjustable
- Load capacity per storage shelf: 200 kg (evenly distributed)
- Rack system can be extended individually
- Flat-pack delivery with assembly instructions

Ausstattung

- 3 galvanised grids or PE grids as storage levels and 1 sump made of PE
- Polyethylene sumps with high resistance against aggressive chemicals (such as acids and alkalis)



Order No. 27853



Type	Capacity (l)	Basic rack W x D x H (mm)	Order No.	Add-on rack W x D x H (mm)	Order No.
RSG-V 1064 with galvanised grid	30	1060 x 637 x 2000	27853	1012 x 637 x 2000	27854
RSG-V 1364 with galvanised grid	40	1360 x 637 x 2000	27855	1312 x 637 x 2000	27856
RSG-K 1064 with PE grid	30	1060 x 637 x 2000	27857	1012 x 637 x 2000	27858
RSG-K 1364 with PE grid	40	1360 x 637 x 2000	27859	1312 x 637 x 2000	27860

Additional storage level for type	Order No.	Order No.
Version 1064 / 1072 / 2064	27878	27878
Version 1364 / 1372	27880	27880
Version 1064	27881	27881
Version 1364	27882	27882

Hazardous material racks | with sump pallet



Hazardous substances rack with PE sump

Storage of water pollutant and aggressive liquids

Construction

- Galvanised rack frames
- Sturdy construction due to reinforcement cross bars
- Storage levels in 25 mm increments, height-adjustable
- Load capacity per storage shelf: 200 kg (evenly distributed)
- Rack system can be extended individually
- Flat-pack delivery with assembly instructions

Interior equipment

- 4 polyethylene collecting sumps as storage levels
- Polyethylene sumps with high resistance against aggressive chemicals (such as acids and alkalis)

Order No. 27861



Order No. 27863



Order No. 27883

Type	Capacity (l)	Basic rack W x D x H (mm)	Order No.	Add-on rack W x D x H (mm)	Order No.
RSW 1064 with PE sump pallet	30	1060 x 637 x 2000	27861	1012 x 637 x 2000	27862
RSW 1364 with PE sump pallet	40	1360 x 637 x 2000	27863	1312 x 637 x 2000	27864

Additional storage level for type	Order No.	Order No.
Version 1064	27883	27883
Version 1364	27884	27884





Hazardous material depots made of steel

With wing doors



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Hazardous material depots made of polyethylene

With wing doors



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With pull-down blind



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page 471

With sliding doors



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Order No. 40999

Steel hazardous material depots

Tested and safe

- Approved for the storage of flammable (passive) and water-polluting liquids of all hazard classes
- Natural ventilation by means of ventilation slots

Flexible

- Drum storage directly on the grating in combination with euro or chemical pallet
- Lockable for protection against unauthorised use
- 100 mm ground clearance for easy fork-lifting and simple transport
- Depots delivered fully assembled

Version with shelving system

- Safe storage of small and medium-sized containers
- Shelf rack optionally made of steel with 3 storage levels
- Shelf dimensions W x D (mm): 1,300 x 800
- Shelf load: 250 kg
- Delivered in sections for easy self-assembly





Order No. 40997



Order No. 40998



Order No. 41000

Type	Capacity	W x D x H (mm)	 1)	 2)	Order No.
Depot made of powder-coated steel	2 x 200 litre drum	1400 x 950 x 1915	220	800	40997
Depot made of powder-coated steel	small containers	1400 x 950 x 1915	220	800	40998
Depot made of powder-coated steel	4 x 200 litre drum	1400 x 1410 x 1855	220	1600	40999
Depot made of powder-coated steel	small containers	1400 x 1410 x 1855	220	1600	41000

1) capacity (litre), 2) load capacity (kg)

Steel hazardous material depots

Tested and safe

- Approved for the storage of flammable (passive) and water-polluting liquids of all hazard classes
- Natural ventilation by means of ventilation slots

Flexible

- Drum storage directly on the grating in combination with chemical pallet
- Lockable for protection against unauthorised use
- Optimised internal height for safe loading with forklift truck or platform stacker
- 100 mm ground clearance for easy fork-lifting and simple transport
- Depots delivered fully assembled



Order No. 41001

Type	Capacity	W x D x H (mm)		Order No.
Depot made of powder-coated steel	4 x 200-L-drum or 1 x 1000-L-IBC	1000	2000	41001
Depot made of powder-coated steel	8 x 200-L-drum or 2 x 1000-L-IBC	1000	4000	41002





Order No. 40057

Hazmat depots made of PE

Approved and safe

- Approved for the safe storage of water pollutants
- High resistance to oils, acids and alkalis

Safe, easy and efficient operation

- Wing door or space-saving roller blind
- With integrated sump pallet
- For direct placement of a barrel on a Euro pallet or barrel storage on the optional PE half pallet
- Integrated pocket for access underneath by forklifts and forklift trucks
- Ready for anchoring to the ground (anchor kit optional)

Depot with rack system

- Safe storage of small and medium-sized containers
- Rack with galvanised or PE rack frames and 3 shelves
- Dimensions shelves B x D (mm): 900 x 800 (steel) or 900x 590 (PE)
- Load capacity per storage level: 250 kg (steel) or 180 kg (PE)





Order No. 40058



Order No. 40060



Order No. 40062

Type	W x D x H (mm)	Version		Drum	Steel rack	Plastic rack
		 1)	 2)	Order No.	Order No.	Order No.
Depot PE, wing door	1140 x 1050 x 2060	245	400	40057	40058	40059
Depot PE, pull-down blind	1140 x 1050 x 2060	245	400	40060	40061	40062
PE half pallet for placing 1 drum à 200 L	600 x 800 x 160			40063	-	-
Mounting kit for floor anchoring				31859	31859	31859

1) capacity (litre), 2) load capacity (kg)



Order No. 31856

Hazmat depots made of PE

Approved and safe

- Approved for the safe storage of water pollutants
- High resistance to oils, acids and alkalis

Safe, easy and efficient operation

- Wing door or space-saving roller blind
- With integrated sump pallet
- For direct placement of a barrel on a Euro pallet or barrel storage on the optional PE half pallet
- Integrated pocket for access underneath by forklifts and forklift trucks
- Ready for anchoring to the ground (anchor kit optional)

Depot with rack system

- Safe storage of small and medium-sized containers
- Rack with galvanised rack frames and 3 shelves (in 25 mm increments height-adjustable)
- Dimensions shelves B x D (mm): 1300 x 800 (steel) or 1300 x 590 (PE)
- Load capacity per storage level: 250 kg (steel) or 180 kg (PE)



Order No. 36470



Order No. 40065



Order No. 40067

Type	W x D x H (mm)	Capacity		Version		
		1)	2)	Drum	Steel rack	Plastic rack
				Order No.	Order No.	Order No.
Depot PE, wing door	1560 x 1080 x 1980	250	800	31856	32003	40064
Depot PE, wing door	1140 x 1410 x 1980	240	800	36470	-	-
Depot PE, pull-down blind	1554 x 1083 x 1980	250	400	40065	40066	40067
PE grid to adjust for drums	1400 x 910 x 32			31857	-	-
Mounting kit for floor anchoring				31859	31859	31859

1) capacity (litre), 2) load capacity (kg)



Hazardous material depots | Polyethylene



Order No. 31858

Hazmat depots made of PE

Approved and safe



- Approved for the safe storage of water pollutants
- High resistance to oils, acids and alkalis

Safe, easy and efficient operation

- Smooth-running, lockable sliding gates or wing doors
- Convenient interior height for safe and efficient loading with a forklift or forklift truck
- Integrated pocket for access underneath by forklifts and forklift trucks
- Ready for anchoring to the ground (anchor kit optional)
- Delivery of fully assembled depot



Order No. 31858

Type	W x D x H (mm)	 1)	 2)	Order No.
Depot 4 x 200-L-drum or 1 x 1000-L-IBC, accessible by forklift	1560 x 1550 x 2330	1000	2000	31858
Mounting kit for floor anchoring				31859

1) capacity (litre), 2) load capacity (kg)

Hazardous material depot | Polyethylene



Order No. 36471

Hazmat depots made of PE

Approved and safe



- Approved for the safe storage of water pollutants
- High resistance to oils, acids and alkalis

Safe, easy and efficient operation

- Smooth-running, lockable sliding gates or wing doors
- Convenient interior height for safe and efficient loading with a forklift or forklift truck
- Integrated pocket for access underneath by forklifts and forklift trucks
- Ready for anchoring to the ground (anchor kit optional)
- Delivery of fully assembled depot



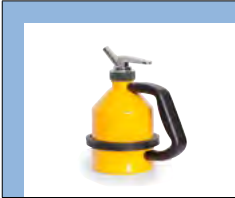
Order No. 36471

Type	W x D x H (mm)	 1)	 2)	Order No.
Depot 8 x 200-L-drum or 2 x 1000-L-IBC, accessible by forklift	3200 x 1750 x 2170	1000	3600	36471
Mounting kit for floor anchoring				31859



Overview: Safety containers

Dispensing cans



Sheet steel
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PE
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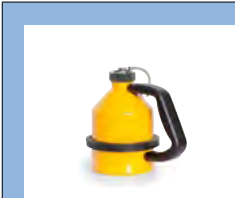


Stainless steel
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Stainless steel
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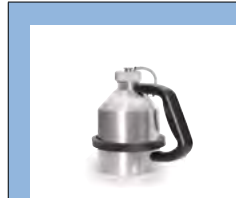
Storage and transport cans



Sheet steel
page 476



PE
page 476



Stainless steel
page 476

Filling cans



PE
page 479

Dispensing canister



Sheet steel
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Stainless steel
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Storage and transport canister



Sheet steel
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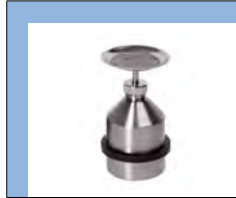


Stainless steel
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Cleaning containers



Sheet steel
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Stainless steel
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PE
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Sheet steel
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Stainless steel
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sheet steel
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Stainless steel
page 482

Safety collection and disposal containers



Sheet steel
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Stainless steel
page 483

Stand ashtray



PE
page 483



PE
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Order No. 23129

Order No. 23130

Order No. 23131

Safety containers made of steel, stainless steel or PE

- Made of galvanised steel with additional signal yellow coating, stainless steel or PE
- Plastic protective ring eliminates the risk of damaging the robust can body (steel and stainless steel versions only)
- Integrated removable flame guard (steel and stainless steel versions only)
- Incl. classification labels with danger symbols and warning notes

Storage and transport cans

- Tight-fitting screw cap
- Lock secured against loss (steel and stainless steel versions only)

Dispensing cans

- Easy-motion fine dosing tap made of stainless steel (1.4301) incl. ventilation and PTFE seal
- Fine dosing tap can be redated through 360°



Order No. 23126

Order No. 23127

Order No. 23128



Order No. 40084



Order No. 40083



Order No. 40095



Order No. 40094

Type	Capacity			Capacity		
	1 L Ø x H (mm)	2 L Ø x H (mm)	5 L Ø x H (mm)	1 L Order No.	2 L Order No.	5 L Order No.
Safety can made of sheet steel	132 x 181	158 x 226	178 x 336	23129	23130	23131
Safety can made of stainless steel	132 x 181	158 x 226	178 x 336	40081	40082	40083
Safety can made of PE	100 x 150 x 200	100 x 150 x 280		40093	40094	-
Safety can made of sheet steel	132 x 215	158 x 260	178 x 370	23126	23127	23128
Safety can made of stainless steel	132 x 215	158 x 260	178 x 370	40084	40085	40086
Safety can made of PE	100 x 150 x 230	100 x 150 x 310		40095	40096	-
Funnel galvanised steel				23132	23132	23132
Funnel made of stainless steel				36486	36486	36486

Safety containers | Steel, stainless steel



Order No. 36478



Order No. 36479

Safety containers made of steel or stainless steel

- Made of galvanised steel with additional signal yellow coating or stainless steel
- Seals made of NBR
- Incl. classification labels with danger symbols and warning notes
- Ventilation valve for uniform, precision filling

Storage and transport cans

- UN certification for the transport of liquids of the packaging groups I, II and III (UN 3A1/X/250/...)
- Opening Ø approx. 43,5 mm with screw cap made of aluminium
- Standard with flexible outlet pipe made of plastic (Ø approx. 20 mm)
- Storage of the dirt-proof outlet pipe inside the container



Order No. 36480



Order No. 36481

Safety containers with dispensing tap

- The dispensing tap with easy to use operating lever allows dispensing into smaller containers



Order No. 36482



Order No. 36484



Order No. 36485

Type	Capacity		Capacity	
	10 L W x D x H (mm)	20 L W x D x H (mm)	10 L Order No.	20 L Order No.
Transport canister made of sheet steel	170 x 340 x 280	170 x 340 x 470	36478	36479
Transport canister made of stainless steel	170 x 340 x 280	170 x 340 x 470	36480	36481
Dispensing canister sheet steel with dispensing tap	170 x 445 x 280	170 x 445 x 470	36482	36483
Dispensing canister stainless steel with dispensing tap	170 x 445 x 280	170 x 445 x 470	36484	36485
Funnel made of stainless steel			36486	36486



Safety container | Stainless steel

Safety container made from stainless steel

- Made of stainless steel 1.4401
- PTFE seals
- Removable flame arrester made of perforated stainless steel
- Ergonomic form, safe working
- Fine dosing tap can be rotated through 360°
- With ventilation and pressure relief valve



Order No. 14745

Order No. 14746

Order No. 14747



Order No. 14757

Order No. 14758

Order No. 14759

				Capacity		
Type	1 L Ø x H (mm)	2 L Ø x H (mm)	5 L Ø x H (mm)	1 L Order No.	2 L Order No.	5 L Order No.
Safety can made of stainless steel	115 x 210	145 x 280	145 x 445	14745	14746	14747

				Capacity		
Type	5 L W x D x H (mm)	10 L W x D x H (mm)	20 L W x D x H (mm)	5 L Order No.	10 L Order No.	20 L Order No.
Safety canister made of stainless steel	234 x 402 x 126	240 x 430 x 240	175 x 380 x 495	14757	14758	14759



Filling cans

- safe, clean and comfortable dispensing of liquids in the workplace
- Resistant, chemically stable and UV-stable containers
- Incl. 2 screw-on type outlets in different sizes
- 18 labels in 9 signal colours and a multilingual safety label for content labelling according to GHS
- With stable handles for ergonomic handling
- Available with 2, 5 or 10 litres capacity

Order No. 36489



Order No. 36487

Order No. 36488

Order No. 36489



Type	W x D x H (mm)	Capacity/Volume (l)	Order No.
Dispensing can made of PE	140 x 413 x 316	2.00	36487
Dispensing can made of PE	173 x 413 x 416	5.00	36488
Dispensing can made of PE	260 x 413 x 523	10.00	36489



Safety container | Stainless steel



Transport cans

Transport canister

Safety containers made from stainless steel

- Explosion-proof with pressure relief valves and flame arrester
- High chemical resistance, made of high-grade stainless steel 1.4571
- PTFE seals for high resistance
- Removable flame retarder made of perforated stainless steel

Dispensing cans

- Fine dosing tap can be redated through 360°
- With ventilation and pressure relief valve

Transport cans

- With screw cap (secured against loss with a flexible shaft)
- With UN transport approval (GGVSEB / ADR / RID / IMDG-Code / ICAO-TI)
- Approved for all hazardous substances (packing group X): UN 1A1/X2.0/400...



Dispensing canister



Transport canister



Order No. 16790

Type	Capacity			Capacity		
	1 L Ø x H (mm)	2 L Ø x H (mm)	5 L Ø x H (mm)	1 L Order No.	2 L Order No.	5 L Order No.
Safety can made of stainless steel	111 x 235	131 x 295	165 x 405	16768	16769	16770
Transport can made of stainless steel	110 x 235	130 x 295	165 x 400	16771	16772	16773
Fine measuring tap tap outlet approx. Ø 11 mm				16787	16787	16787
Funnel				16790	16790	16790

Type	Capacity			Capacity		
	5 L W x D x H (mm)	10 L W x D x H (mm)	20 L W x D x H (mm)	5 L Order No.	10 L Order No.	20 L Order No.
Safety canister made of stainless steel	130 x 200 x 310	130 x 280 x 380		16774	16775	-
Transport canister made of stainless steel	130 x 200 x 310	130 x 280 x 380	175 x 345 x 470	16776	16777	27974
Fine measuring tap				16788	16788	16788
Funnel				16791	16791	16791



Dispensing canister

Dispensing canisters

- With ventilation and manual pressure relief valve
- Self-closing tap
- Applicable horizontally



Standing vessels

Safety container made from stainless steel – for inhouse use

- High stability
- Self-closing tap
- Pressure relief valve in the screw lid
- Level indicator made from PTFE, optical control of the substances during filling and extracting
- 25 litre container stackable



Order No. 16796

Type	Capacity				Capacity			
	5 L W x D x H (mm)	10 L W x D x H (mm)	20 L W x D x H (mm)	25 L W x D x H (mm)	5 L Order No.	10 L Order No.	20 L Order No.	25 L Order No.
Dispensing can with fine dosing tap and ventilation	130 x 200 x 310	130 x 280 x 380	175 x 345 x 470		16779	16780	16780	-
Stand vessel with fine dosing tap and ventilation		260 x 260 x 350			-	16782	-	-
Stand vessel tap		260 x 260 x 350		315 x 315 x 530	-	16783	-	16785
Stand vessel tap and level Indicator		260 x 260 x 350		315 x 315 x 530	-	16784	-	16786
Self-closing tap for dosing canisters					16796	16796	16796	-
Funnel made from stainless steel (for 10 and 25 litres)					-	16789	-	16789





Cleaning containers made of sheet steel, stainless steel or PE

Plunger can

- For safely moistening cleaning rags and sponges
- Easy-to-use pump tube with spring-loaded stainless steel dasher plate
- Economical removal, residual liquid flows back into the container
- Protection by reducing the vapors produced
- Protection against flame propagation through integrated flame arrester

Spray cans

- Economical and controlled spraying of surfaces and parts to be cleaned
- Ergonomic spray cap and integrated pump mechanism manufactured from plastic
- Incl. screw-on extension
- Cans with protector ring

Material

- Galvanized steel, additionally coated in warning yellow with protective plastic ring
- High quality stainless steel (1.4404) with plastic protective ring
- Robust high-resistance polyethylene



Order No. 40445



Order No. 40446



Order No. 40447



Order No. 40448



Order No. 40097



Order No. 40098



Order No. 23139



Order No. 23137

Type	Capacity			Capacity		
	2 L Ø x H (mm)	5 L Ø x H (mm)	8 L Ø x H (mm)	2 L Order No.	4 L Order No.	8 L Order No.
Small parts cleaner made of sheet steel	Ø 264 x 95	Ø 264 x 146	–	40445	40446	–
Small parts cleaner made of stainless steel	Ø 264 x 95	Ø 264 x 146	Ø 255 x 264	40447	40448	40449
Small parts basket made of stainless steel	Ø 222			–	–	40450

Type	Capacity		Capacity	
	1 L Ø x H (mm)	2 L Ø x H (mm)	1 L Order No.	2 L Order No.
Plunger can made of sheet steel	178 x 200	178 x 290	23133	23134
Plunger can made of stainless steel	178 x 200	178 x 290	23135	23136
Plunger can made of PE	120 x 115 x 265	145 x 155 x 265	40097	40098
Spray can made of sheet steel	165 x 300	190 x 345	23137	23138
Spray can made of stainless steel	165 x 300	190 x 345	8628	23139



Order No. 23156



Order No. 23158



Order No. 23159



Order No. 23161



Order No. 40235



Order No. 40237

Disposal bins made of sheet steel, stainless steel or PE

Disposal bins

- Safe collection of solvent-soaked cleaning rags and other waste
- Reduce vapor leakage to a minimum
- Safe opening thanks to large pedal with non-slip surface
- Protection against fires caused by self-closing lid
- Bottom edge with ventilation openings, self-ignition of the contents is prevented
- Container welded liquid-tight, protection against leaking liquids
- FM Certified
- Container either galvanized sheet steel with red powder coating or made of stainless steel

Disposal container

- Made of stainless steel
- Reduce escaping vapours to a minimum
- Lid opened with foot pedal, serial selfclosing lid

Safety floor-standing ashtray

- Made of robust, weatherproof polyethylene
- Auto-ignition function due to oxygen reduction
- Low center of gravity guarantees high stability
- Incl. Squeezing plate, easily removable aluminum inner container for collecting ashes and cigarette butts
- Integrated eyelet for wind and anti-theft protection
- Possibilities for floor attachment and weighting, e.g. with sand

Type	W x D x H (mm)	Capacity/Volume (l)	Material		
			Sheet steel	Stainless steel	PE
			Order No.	Order No.	Order No.
Disposal bin made of sheet steel	385 x 382 x 429	20	39379	40099	-
Disposal bin made of sheet steel	441 x 440 x 490	35	23156	23159	-
Disposal bin made of sheet steel	493 x 495 x 536	50	23157	23160	-
Disposal bin made of sheet steel	535 x 535 x 577	65	23158	23161	-
Ashtray grey	430 x 430 x 1140	15	-	-	40235
Ashtray black	430 x 430 x 1140	15	-	-	40237

Overview: Hazardous materials handling

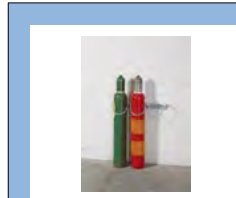
Gas cylinder storage and handling



Gas cylinder depot
page 487



Gas cylinder trolley
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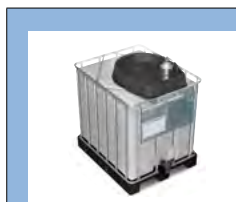


Gas cylinder retainer
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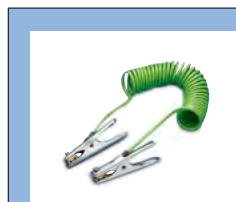
Drum protection accessories



Drum funnel
page 488



IBC-Funnel
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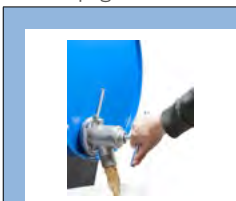
Grounding cable
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Drum wrench
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Drum tap
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Drum tool
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Level indicator
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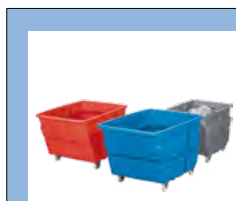


Drum valve
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Collection systems



Stackable containers
page 494



Multipurpose container
page 495



Dump trolley
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Tipping skip
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Drum transport



Drum dolly
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Drum lifter
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Drum tongs
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Drum lifter
page 502



Drum turner
page 500

Pumps

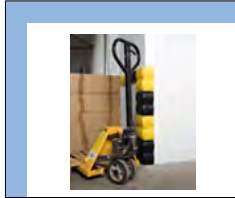


Container pumps
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Drum pumps
page 493

Collision protection systems



Wall protection profile
page 504



Pillar protection profiles
page 504

Grit bin

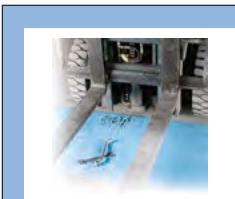


Without dispensing hatch
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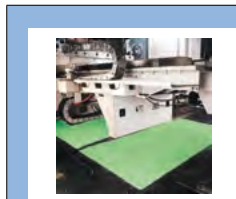


With dispensing hatch
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Leakage management



Sorbents oil
page 506



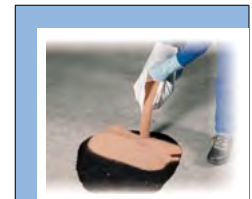
Sorbents UNIVERSAL
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Sorbents SPECIAL
page 508



Sorbents transport boxes
page 509



Granules
page 510



Sealing mats
page 511



Barrier boundaries
page 511



Gas cylinder handling



Order No. 13265

Gas cylinder wall brackets

- Steel, galvanised incl. chains to secure the cylinders
- For gas cylinders Ø 140, 230 and 320 mm
- Made of polyethylene incl. belt
- For gas cylinders Ø between 140 and 320 mm

Gas cylinder trolley

- For the safe transportation of 1 gas cylinder (up to Ø 320 mm)
- Includes a belt to secure the cylinder in place
- Solid rubber wheels, wheel – Ø 200 mm
- Load capacity: 80 kg

Polyethylene gas cylinder pallet

- For up to 4 gas cylinders (diameter 230 mm)
- Safe transport with fork lift truck
- Incl. safety chain for additional attachment to fork lift truck
- Load capacity 300 kg



Order No. 13266



Order No. 13267



Order No. 13253



Order No. 12793

Type	W x D x H (mm)	Diameter bottles	Number of bottles			
			1x	2x	3x	4x
			Order No.	Order No.	Order No.	Order No.
Gas cylinder holder galvanised steel	192 x 131 x 60	140	13255	13254	13253	-
Gas cylinder holder galvanised steel	280 x 175 x 60	230	18162	12793	14699	-
Gas cylinder holder galvanised steel	372 x 221 x 60	320	13252	13251	-	-
Gas cylinder trolley polyethylene	495 x 627 x 1110	230	13266	-	-	-
Gas cylinder trolley with support wheel polyethylene	495 x 800 x 1110	to 320	13265	-	-	-
Transport frame polyethylene	1120 x 600 x 1100	230	-	-	-	13267



Gas depots

Approved and safe

- Safe and approved storage of gas cylinders in outside areas

Construction

- Sturdy steel frame construction with mesh grid
- Roof made of profiled sheet steel
- Galvanized with additional powder coating in gray (RAL 7016) for optimal corrosion protection
- Lockable wing door
- Disassembled delivery, with assembly instructions

Storage Capacity Model 38715:

- 25 gas bottles of 50 liters each

Storage Capacity Model 38716:

- 50 gas bottles of 50 liters each

Stacking shelf

- Sturdy galvanized construction
- Up to 2 shelves can be stacked on top of each other
- Load capacity 500 kg

Order No. 38715



Order No. 38716

Type	W x D x H (mm)	Order No.
Gas cylinder depot, single door	1430 x 1410 x 2210	38715
Gas cylinder depot, two doors	2760 x 1410 x 2210	38716
Stacking rack	1437 x 1038 x 750	8615





Order No. 2729

Drum funnel made of polyethylene or sheet steel

- Cans and filters can be put on the fluted area for draining
- Optional available lid protects against contamination and can be locked
- Suitable for 200 litre drums

With high sidewalls

- Covers the whole drum surface
- Grooved surface allows a clean and splash-free infilling
- Optional available lid protects against contamination and can be locked
- Suitable for 200-litre-drums (steel and plastic drum, bung hole drum or drum with lid)

Made of steel

- Extensive, safe filling in the 2" bung hole of 200 litre steel drums
- The funnel has a 30 litre capacity, suitable to fill in large amounts of liquid into the drum quickly



Order No. 11308



Order No. 2732



Order No. 12125

Type	Ø x H (mm)	Capacity/Volume (l)	Without sieve	With sieve
			Order No.	Order No.
Drum funnel PE	Ø 580 x 115	5	2729	2730
Drum funnel PE with lid	Ø 605 x 145	5	2731	2732
Drum funnel PE conductive with lid	Ø 605 x 145	5	40076	40077
Drum funnel PE	Ø 690 x 200	22	11308	11309
Drum funnel PE with lid	Ø 690 x 230	22	11310	11311
Drum funnel PE conductive with lid	Ø 690 x 190	22	23117	23119
Drum funnel sheet steel	Ø 650 x 135	30	12125	-



IBC funnel made of polyethylene

- Funnel for use with a conventional IBC
- For safely collecting and channelling liquids
- Domed base - liquids run off
- Spout Ø approx. 100 mm (round version)

Version angular

- Large drain opening (Ø 145 mm) with integral 2" connection
- Discharge basin with side storage areas
- Storage pocket for IBC locking lid

Safety dispensing lid

- Effectively prevents contamination
- Safely restrains dripping residue
- For 200 litre steel bung hole drums
- Openings for 3/4" and 2" bung hole - for using pumps and/or fill-level indicators

Safety dispensing platform

- Protection from dripping residues
- For 200 litre steel bung hole drums
- With openings for 3/4" and 2" bung holes

Order No. 40078



Order No. 13303



Order No. 13305



Order No. 40079

Type	W x D x H (mm)	Max. filling volume (l)	Order No.
IBC funnel PE round	690 x 820 x 200	30.00	40078
IBC funnel PE angular	790 x 730 x 175	15.00	40079
IBC funnel PE conductive angular	790 x 730 x 175	15.00	40080
Dispensing lid	Ø 600 x 40		13303
Safety filling platform PE	600 x 900 x 400		13305
Dispensing platform PE conductive	600 x 900 x 400		23140



Earthing wire and drum wrench



Order No. 19307



Order No. 19349



Order No. 40072



Order No. 40075



Order No. 19303



Order No. 19306

Earthing cable

Prevents danger of explosion through sparking or static charge

- Approved in accordance with ATEX II 1GD T6
- Low electrical resistance with high mechanical strength
- Chemically resistant and wear-resistant cable sheath
- ATEX version with stainless steel clamps
- Spiral grounding cable with length 3 or 5 m

Tested ATEX stainless steel pliers in 2 optional sizes

- Type MD (medium duty, opening angle approx. 15 mm) - for drums, containers up to 200 liters
- Type HD (heavy duty, large opening angle approx. 40 mm) - for larger system components, drum and containers from 200 liters etc.

Drum wrench

Cast iron

- Suitable for all bung types

Bronze

- Suitable for all common drum types
- Compact design, sparking is completely eliminated

Steel

- Fits all standard bung covers
- Easy opening with long handle

Plastic

- Suitable for 3/4" and 2" bung hole and synthetic lids DIN 51 and DIN 61

Cross-shaped drum wrench

- In painted steel
- To easily opening all conventional drum lids using the wheel spider principle



Order No. 2781



Order No. 2780



Order No. 10055



Order No. 19302

Spiral grounding cable	Version MD		Version HD			
	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
ATEX	Yes	Yes	Yes	Yes	No	No
Length (mm)	3000	5000	3000	5000	3000	5000
with 1x stainless steel tongs, 1x eyelet	19307	19308	40072	40073	19303	19304
with 2x stainless steel tongs	19348	19349	40074	40075	19305	19306

Drum key	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
	Cast iron	Bronze	Bronze	Steel	Plastic	Cross steel
	2781	2780	12033	10055	9701	19302



- Suited for filling aggressive chemicals
- Made of polypropylene - high resistance to many acids and alkalis

Order No. 2774



- Suitable for filling e.g. mineral oil products, alcohols, flammable solvents etc.
- Made of stainless steel / aluminium

Order No. 40070



- Suitable for filling even highly viscous liquids, e.g. mineral oil products, as well as alcohols, flammable solvents
- Made of stainless steel / aluminium

Order No. 40071

Drum tools

- Simultaneous opening and emptying of drums, suitable for drums with 2" thread
- Electric or pneumatic connection not necessary
- Complete emptying of a drum in horizontal position



Level indicator

- With protecting cap, integrated ventilation indicates when drum is nearly full

Order No. 18094



Level indicator

- Made from chromed steel
- Fits 3/4" drum taps
- Enables filling to be carried out in installed state

Order No. 2776



Level indicator with volume scale

- Suitable for all common 200 litre drums
- For non corrosive liquids

Order No. 13299



Drum safety vent made of brass with 2" thread

- Provides the necessary pressure balance when dispensing or pumping down

• Valve opens at 0.35 bars
Order No. 2777

Stainless steel tap with 3/4" thread

- Self closing with flame arrester and PTFE seal
- Adjustable in position
- For aggressive liquids
- With suspension device for filling vessels



Order No. 2797

Brass tap with 3/4" thread

- Self closing with flame arrester and PTFE seal
- For non-corrosive liquids < 30 SAE
- With suspension device for filling vessels



Order No. 2799

Fine dosing tap made of stainless steel with 3/4" thread

- Self closing with PTFE seal
- Adjustable in position
- For aggressive liquids



Order No. 2795

Brass tap with 3/4" thread

- Self closing with flame arrester and PTFE seal
- For aggressive liquids



Order No. 2798

Brass tap with 2" thread

- Self closing with flame arrester and PTFE seal
- For viscous liquids > 30 SAE



Order No. 2800

Fine dosing tap made of injection moulding zinc with 3/4" thread

- Self closing incl. flame arrester and plastic seal for alkaline liquids and mineral oil products



Order No. 2796



Drum pumps

Pumps

- For für weak acids, alkalis and petrochemical liquids
- Emptying of canisters up to 60 litres
- Thread connection: Ø 64 mm (BSI)
- Parts in contact with liquids are made of PP, PE and FKM

Solvent pump

- Parts in contact with liquids are made of stainless steel (1.4301) and PTFE
- Screw connection for 2" fine thread, for containers up to 60 litres
- Connection adapters for all common containers as accessories

With foot pedal

- submersion pipe steplessly adjustable to drum depth
- For drums up to 200 litres

For hand operation

- Fixed drip nozzle with stop valve of stainless steel/PTFE

Universal pumps

- Submersion pipe steplessly adjustable to drum depth
- Universal plugs for container openings Ø 30 - 70 mm
- Conveyor pipe made from PP
- Pump for hand operation with hose (PVC), length 1,5 m and stop volve
- Foot pedal for containers up to 120 litres
- Mini pump for containers up to 10 litres, container opening Ø 20–36 mm



Drum pump
made of stainless steel, pedal-operated,
conveying: 20 l/min, thread 2"
Order No. 16841



Container pump
made of PP, hand operation, for weak acids
and bases, conveying: 8 l/min
Order No. 16840



Drum pump
made of stainless steel, hand operation, for
ultrapure liquids, solvents and flavourings,
conveying: 10 l/min
Order No. 16842



Drum pump with hand operation



Mini pump with hand operation



Drum pump with foot operation

Model	Version	Pipe Ø (mm)	Immersion tube length (mm)	Conveying capacity (l/min)	Order No.
Container pump PP	hand operation		1000	8	16840
Drum pump stainless steel	pedal-operated		950	20	16841
Drum pump stainless steel	hand operation		600	10	16842
Container pump PP	hand operation	12	700	14	16849
Container pump PP	hand operation	18	700	26	16870
Container pump PP	hand operation	12	700	12	16872
Mini pump PP	hand operation	10	450	4	16873
Container pump PP	pedal-operated	15	700	20	16874
Container pump PP	pedal-operated	22	900	30	16884
Container pump PP	pedal-operated	12	700	12	16895

Accessories	Order No.
Adapter	16896



Drum pump made of stainless steel

- For flammable liquids
- Stainless steel 1.4301, PTFE-seal
- Optionally with outlet hose or bend
- Electrically conductive and suitable for zone 0 and 1
- Explosion group II A
- Submersion pipe Ø 32 mm



Drum pumps

- With outlet bend (PP) or PVC outlet hose incl. stopcock
- Submersion pipe Ø 32 mm
- PTFE seals
- Pumping capacity up to 12 l/min
- For drums and tanks up to 60–1,000 litres



Anti-static set

- Consisting of: 3 colour-coded connecting copper cables with clamping pliers (1 copper cable 1.30 m long, 2 copper cables, insulated 3 m long)

Order No. 2790



Drum pump PTFE

- For the extraction of ultrapure liquids
- With stop valve
- Immersion depth 950 mm
- Submersion pipe: Ø 32 mm
- Pumping capacity: 0,4 l/stroke

Order No. 16927

Model	Version	immersion depth (mm)	Conveying capacity (l/min)	Order No.
Drum pump PP	drain hose	500	0.20	16902
Drum pump PP	drip nozzle	500	0.20	16897
Drum pump stainless steel	drip nozzle	360	0.22	18908
Drum pump stainless steel	drain hose	360	0.22	18909
Drum pump PP	drain hose	650	0.23	16915
Drum pump PP	drip nozzle	650	0.23	16898
Drum pump PP	drain hose	800	0.26	16916
Drum pump PP	drip nozzle	800	0.26	16899
Drum pump PP	drip nozzle	1000	0.30	18954
Drum pump PP	drain hose	1000	0.30	18956
Drum pump PP	drain hose	1250	0.30	16918
Drum pump PP	drip nozzle	1250	0.30	16900
Drum pump PP	drip nozzle	1500	0.30	18955
Drum pump PP	drain hose	1500	0.30	18957
Drum pump stainless steel	drip nozzle	570	0.35	16923
Drum pump stainless steel	drain hose	570	0.35	16925
Drum pump stainless steel	drip nozzle	910	0.56	16924
Drum pump stainless steel	drain hose	910	0.56	16926

Model	Accessories of	Material	Order No.
Drum screw joint R 2"	PP drum pump		16934
Drum screw joint R 2"	stainless steel drum pump		16935
Drum screw joint Mauser 2" drum screw joint PP for secure hold	all models		18963
Drum screw joint drum screw joint Tri-Sure polypropylene	all models		18964
Drum plug Ø 40-70 mm	all models		16936





Stackable containers out of polyethylene Safe and space-saving collection and provision of warehouse goods and recyclable materials

- Manufactured from corrosion-free polyethylene
- Safe-keeping of containers e. g. with acids, alkalis oil, non-flammable cleaning dilution, etc.
- Highly resistant to many acids and alkalis and aggressive substances
- Load capacity 500 kg
- Weather proof and easy to clean
- Low self-weight
- Easily accessible from front or sides

Stacking containers



Order No. 22539



Order No. 22548



Order No. 22540



Order No. 22557

Type	W x D x H (mm)	1)	Colour		
			Grey Order No.	Red Order No.	Blue Order No.
Stacking containers made of PE	800 x 500 x 500	90	22536	22537	22539
Stacking containers made of PE	1000 x 800 x 600	260	22540	22541	22543
Stacking containers made of PE	1200 x 800 x 600	300	22548	22549	22551
Stacking containers made of PE	1200 x 1000 x 600	400	22556	22557	22559

1) Collection volume (l)

Multipurpose container | Polyethylene

Multipurpose container made of polyethylene



Collection, storage and provision of warehouse goods

- High-quality, dimensionally stable and robust construction
- Easy handling, low dead weight
- Food-safe and easy to clean
- Liquid-tight and extremely resistant to acids and alkalis

Version with castors

- Easy, manual transport
- 2 swivel castors and 2 lockable fixed castors, castor diameter 125 mm



Order No. 32034



Order No. 32043



Order No. 32035



Order No. 32045

Type	W x D x H (mm)	Collection volume (l)	Colour		
			Grey	Red	Blue
			Order No.	Order No.	Order No.
Tipping container PE with castors	825 x 1240 x 900	600.00	32034	32035	32037
Tipping container PE with castors	1030 x 1340 x 900	800.00	32042	32043	32045

1) Collection volume (l)



Tipping trolley | Polyethylene



Tipping trolley out of polyethylene

Collection and provision of warehouse goods

- Easy to move due to large castors (Ø 200 mm) and swivel castors (Ø 125 mm) of polyamide, lockable
- Easy emptying by tipping the container over the axle of the wheels
- Load capacity:
Capacity 300 L and 500 L = 150 kg
Capacity 750 L and 1000 L = 250 kg

Order No. 13067



Order No. 23073



Order No. 15483



Order No. 15486 + 22812



Order No. 23074

Colour

Type	W x D x H (mm)	Capacity (l) ¹⁾	Colour		
			Grey Order No.	Red Order No.	Blue Order No.
Tipping trolley made of PE	920 x 1320 x 625	300	23073	23072	23070
Tipping trolley made of PE	960 x 1440 x 825	500	15484	15483	13066
Tipping trolley made of PE	1145 x 1560 x 925	750	15487	15486	13067
Tipping trolley made of PE	1173 x 1586 x 1095	1000	23077	23076	23074
Lid PE Tipping trolley/container V 300 L	960 x 1380 x 395		23078	-	-
Lid PE Tipping trolley/container V 500 L	990 x 1510 x 550		22810	-	-
Lid PE Tipping trolley/container V 750 L	1170 x 1635 x 550		22812	-	-
Lid PE Tipping trolley/container V 1000 L	1200 x 1655 x 610		23079	-	-

1) Collection volume (l)



Tipping skip out of polyethylene

Collection and provision of warehouse goods

- Integrated inserts for transportation by forklift truck
- Optionally available with polyamide castors
- Made of resistant polyethylene
- Releasing the locking device immediately activates the tipping process
- Integrated spring mechanism limits the tipping process to approx. 90°, prevents the container for being damaged

Load capacity:

Capacity 300 L and 500 L = 150 kg

Capacity 750 L and 1000 L = 250 kg

Order No. 13064



Order No. 23083




Order No. 13062



Order No. 23086



Order No. 23095

Type	W x D x H (mm)	 ¹⁾	Colour		
			Grey Order No.	Red Order No.	Blue Order No.
Tipping container PE without castors	920 x 1420 x 625	300	23083	23082	23080
Tipping container PE without castors	960 x 1530 x 790	500	15490	15489	13061
Tipping container PE without castors	1145 x 1650 x 890	750	15496	15495	13062
Tipping container PE without castors	1173 x 1660 x 1060	1000	23091	23090	23088
Tipping container PE with castors	920 x 1420 x 660	300	23087	23086	23084
Tipping container PE with castors	960 x 1530 x 830	500	15493	15492	13063
Tipping container PE with castors	1145 x 1650 x 925	750	15499	15498	13064
Tipping container PE with castors	1173 x 1660 x 1095	1000	23095	23094	23092
Lid PE Tipping trolley/container V 300 L	960 x 1380 x 395		23078	-	-
Lid PE Tipping trolley/container V 500 L	990 x 1510 x 550		22810	-	-
Lid PE Tipping trolley/container V 750 L	1170 x 1635 x 550		22812	-	-
Lid PE Tipping trolley/container V 1000 L	1200 x 1655 x 610		23079	-	-

1) Collection volume (l)



Drum transport systems



Order No. 23262

Safe and easy transport of drums

Polyethylene drum dollies

- Ideal for 200 litre steel drums and 220 litre polyethylene drums
- Liquid-tight and corrosion-resistant
- Easy transport with 2 polyamide swivel castors and 2 fixed castors (Ø 80 mm)
- With profiled floor for good stability during transport

Steel drum dollies

- Easy transport with 4 polyamide swivel castors (Ø 75 x 25 mm)
- For 200 litre drums

Steel drum trolley

- Effortless picking up and transporting of drums
- No need to tilt or drive under the full drum
- For 60- to 220-litre steel and plastic drums
- Sturdy steel and stainless steel construction in high-quality powder coating
- Optionally in electrically conductive version for use in potentially explosive atmospheres (zones 1, 2 IIA, IIB)




Order No. 23263



Order No. 13333



Order No. 40068

Type	W x D x H (mm)	 1)	Order No.
Drum dolly PE	720 x 800 x 225	300	23262
Drum dolly PE with drawbar	720 x 800 x 1135	300	23263
Drum dolly PE with push-handle with apron	720 x 800 x 1025	300	23264
Drum dolly PE conductive with push-handle with apron	720 x 800 x 1025	300	23265
Drum dolly steel	610 x 610 x 125	350	13333
Drum trolley steel	855 x 510 x 1405	350	40068
Drum trolley steel	855 x 510 x 1405	350	40069

1) Load capacity (kg)

Drum turner

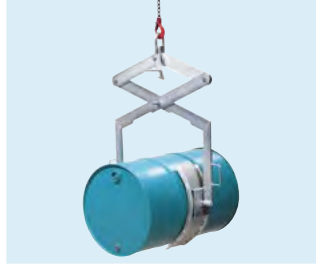
- Robust hot dip galvanised or painted version
- Steel drums can be transported, turned and tipped safely
- Turning range drum: > 360°



Version with clamp

- Steel drum lockable in both vertical and horizontal position

Order No. 19257



Version with drum gripper

- For vertical or horizontal transport of 200 litre steel drums
- Can be locked in horizontal position
- The drums can be turned in the gripper

Order No. 2881



Drum turning tongs horizontal

- For lifting and transporting 200 litre beaded or clamping ring drums
- With locking device

Order No. 13309



Drum lifting clamp

- Vertical or horizontal transport
- Also suitable for lifting a lying drum

Order No. 19262



Drum lifting tongs vertical

- For lifting and transporting 200 litre beaded or clamping ring drums
- Suitable for use with tightly packed drums or for loading safety and T-code recovery drums

Order No. 2689



Drum lifting tongs vertical

- For lifting and transporting 200 litre beaded or clamping ring drums
- Optimally suited for use with tightly packed drums

Order No. 2691



Drum hanger for horizontal drums

- For lifting and transporting horizontal 60- and 200-litre steel beaded drums
- Sturdy chain construction with 2 special gripping hooks for drum lifting

Order No. 9877



Drum gripper

- For vertical lifting and transporting of drums for 200 litre steel drums and 220 litre plastic L-ring drums, body height: 350 mm

Order No. 13274

Type	Material	W x D x H (mm)	Load capacity [kg]	Order No.
Drum turner steel with clamp	steel powder-coated	700 x 560 x 850	300	19257
Drum turner steel with drum gripper	steel galvanized	1080 x 550 x 850	300	2881
Drum turning tongs horizontal	steel powder-coated	120 x 665 x 60	350	13309
Drum lifting clamp	steel galvanized and coated	130 x 170 x 700	500	19262
Drum lifting tongs vertical	steel powder-coated	550 x 250 x 210	350	2689
Drum lifting tongs vertical	steel powder-coated	440 x 100 x 800	350	2691
Drum hanger	steel galvanized		300	9877
Drum gripper vertical	steel painted	300 x 350 x 445	350	13274



Drum turner | Forklift attachment



Order No. 2542

Drum lifter for one or two drums

- Safe loading of various drums
- Height adjustable
- By driving up to the top rim of the drum and lifting the drum, the gripper will automatically grip the rim of the drum
- When placing the drum on the ground again, the locking device on the gripper releases automatically

Drum gripper

- For all grooved 200 litres steel drums
- As forklift extension
- The clamp closes automatically when the forklift truck lifts the drum
- Secured by wing screws



Order No. 2543

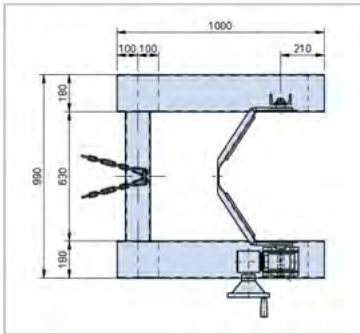


Order No. 19260

Model	Material	W x D x H (mm)	Load capacity (kg)	Order No.
Drum gripper steel as forklift extension with gripper for 1 barrel	steel powder-coated	710 x 890 x 975	350	2542
Drum gripper steel as forklift extension with gripper for 2 barrels	steel powder-coated	1050 x 1080 x 975	700	2543
Drum gripper steel as forklift extension with gripper for 1 barrel	steel powder-coated	710 x 1100 x 160	350	19260

Drum turner

- Suitable for drums with diameters from 380 mm up to 600 mm
- Totatable prism jaws are installed in the front area, all common drums can be transported due to manual lash device
- Securing chain for mounting to the forklift truck
- Rotation range drum: 180°, load capacity: 300 kg
- Forklift pockets: 170 x 70 mm, fork spacing: 630 mm



Drum turner as attachment for forklift trucks
made of steel, as forklift extension, with hand wheel
Order No. 2880



Drum turner as attachment for forklift trucks
made of steel, as forklift extension, with endless chain
Order No. 19258

Drum turner with chain for 200 litre steel drums

- Easy to control and use from driver's seat of fork lift
- The continuous chain enables measured drum emptying from any height
- Secured to fork lift with retaining screws
- Forklift pockets: 180 x 65 mm, fork spacing: 620 mm
- Turning range drum: > 360°, load capacity: 300 kg

Model	Material	W x D x H (mm)	Load capacity (kg)	Order No.
Drum turner steel as forklift extension with hand wheel	steel powder-coated	1055 x 1000 x 455	300	2880
Drum turner steel as forklift extension with endless chain	steel powder-coated	990 x 720 x 510	300	19258



Drum lifter



Order No. 13330

Drum lifter Type GH

- For 200 litre steel ripped sumps
- Adjustable wheel base (720 mm up to 1390 mm entry width)
- Easy to manoeuvre in confined spaces
- Self closing gripping mechanism

Drum lifter type LE

- Suitable for use with 200 litre ripped drums
- The wheel base of the drum lifter is wide enough to push the lifter either side of Euro pallets to ensure that drums at the back of the pallet can be reached easily
- The special locking mechanism fixes onto the top of the drum to hold the drum in place

Drum lifter with gripper

- For 60 litres and 200 litres grooved and clamping ring steel drums
- Special locking mechanism: steel drum is gripped at the upper drum edge and safely held
- Adjustable gripper mechanism, ideal adaption to various drum sizes and loading positions
- Easy to move due to 2 swivel and 2 fixed castors



Order No. 19255



Order No. 23271

Type	Chassis	Material	W x D x H (mm)	Load capacity (kg)	Order No.
Drum lifter GH		steel powder-coated	900 x 1100 x 1885	350	19255
Drum lifter LE	wide	steel powder-coated	980 x 810 x 1180	250	13330
Drum lifter with gripper	narrow	steel painted	830 x 1140 x 1605	300	23266
Drum lifter with gripper	wide	steel painted	1200 x 1140 x 1605	300	2538
Drum lifter with gripper	wide	steel painted	1200 x 1100 x 2135	300	23271



Order No. 2539

Drum lifter with clamp

- 2 versions: clamp either suitable for 200 litre steel drums or univerrally suited to all 200–220 litre steel and plastic drums
- The clamp closes automatically
- With foot pump
- Easy to move due to 2 swivel and 2 fixed castors
- Articles 14683, 2539 and 23276 for 200-L steel drums
- Articles 32016 and 32018 für 200-/220-L steel and PE drums

Drum lifter with prism jaws

- Drum lifter to lift, turn, mix, controlled emptying and transport drums
- Gripping system with rotatable prism jaws enable the handling of various drum and container sizes
- Rotation range: > 360°
- The drum is raised to the correct height by hydraulic pump
- Lifting height up to 1400 mm (depending on the version)
- Mobile due to 2 swivel and 2 fixed castors (with locking device)



Order No. 23276



Order No. 2879

Type	Chassis	Material	W x D x H (mm)	Load capacity (kg)	Order No.
Drum lifter steel with foot pump with clamp with clamp	narrow	powder-coated steel	830 x 1140 x 1605	300	14683
Drum lifter steel with foot pump with clamp with clamp	wide	powder-coated steel	1200 x 1140 x 1605	300	2539
Drum lifter steel with foot pump with clamp with clamp	wide	powder-coated steel	1200 x 1100 x 2135	300	23276
Drum lifter steel with foot pump with clamp with clamp	narrow	powder-coated steel	830 x 1140 x 1605	300	32016
Drum lifter steel with foot pump with clamp with clamp	wide	powder-coated steel	1200 x 1140 x 1605	300	32018
Drum lifter with prism jaws	narrow	powder-coated steel	830 x 1140 x 1605	300	23290
Drum lifter with prism jaws	wide	powder-coated steel	1200 x 1140 x 1605	300	23292
Drum lifter with prism jaws	wide	powder-coated steel	1200 x 1100 x 2135	300	2879



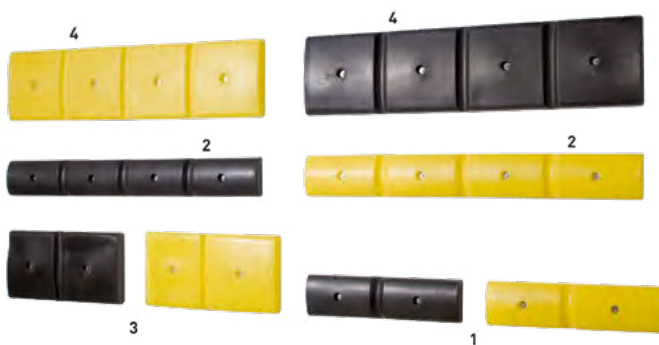
Protection profiles



Wall/corner protection profiles



Pillar protection profiles



Transport route protection

Protectors for walls and corners

- To prevent damage on walls and corners
- Made from robust polyethylene
- Optimal impact resistance even in cold weather
- A collision involving forklifts is cushioned so that possible damage to forklifts is also minimized
- Resistant to numerous aggressive chemicals
- Warning colours yellow/black
- 2 per set, incl. assembly materials

Pillar protectors

- Made from robust polyethylene
- Optimal impact resistance even in cold weather
- Can also be assembled one on top of another to protect the upper part of a pillar
- Reduces the impact caused by a forklift truck, for example, and also minimises any possible damage to the forklift truck
- Warning colours yellow/black
- Set of 2 profiles with socket connector



Pillar protection profiles

Protection profile type	Type	W x D x H (mm)	Colour	
			Yellow	Black
			Order No.	Order No.
Wall	slim 1	500 x 50 x 125	23096	23097
Wall	slim 2	1000 x 50 x 125	23098	23099
Wall	wide 3	500 x 50 x 250	23100	23101
Wall	wide 4	1000 x 50 x 250	23102	23103
Corner	slim 5	250 x 125 x 250	23104	23105
Corner	wide 6	250 x 125 x 500	23106	23107
Pillar	160	360 x 360 x 500	23108	23109
Pillar	200	400 x 400 x 500	23110	23111
Pillar	240	440 x 440 x 500	23112	23113
Pillar	300	500 x 500 x 500	23114	23115

Packaging Unit = 2



Grit container made of polyethylene

- Very sturdy construction, high impact resistance
- Optionally with dispensing hatch
- Weatherproof
- Entirely made of polyethylene, durable and corrosion-free
- Lid can be removed without tools
- Containers are lockable (lock not included in the scope of delivery)
- Available in light grey with three different lid colours



Order No. 13068



Order No. 13366



Order No. 13071

Model	Capacity [ltr.]				
	100	200	400	550	700
without dispensing hatch	975 x 705 x 460	975 x 705 x 665	1210 x 785 x 780	1400 x 1070 x 748	1400 x 1070 x 930
Order No. Yellow	13296	12495	12496	13068	13069
Order No. Green	13298	13301	13328	13368	13358
Order No. Orange	13297	13300	13315	13369	13359

Model	Capacity [ltr.]				
	100	200	400	550	700
with dispensing hatch	975 x 705 x 460	975 x 705 x 665	1210 x 785 x 780	1400 x 1070 x 748	1400 x 1070 x 930
Order No. Yellow	13393	12497	11515	13070	13071
Order No. Green	13395	13307	13388	13365	13342
Order No. Orange	13394	13306	13389	13366	13343

Accessory castor set	100/200 litre	400 litre	550 litre
Order No.	12498	12500	13072
Accessory plinth feet	100/200 litre	400 litre	550 litre
Order No.	12499	12501	13073





Order No. 11315



Order No. 9934



Order No. 9930



Order No. 9933

Oil Sorbents – water repellent, safe absorption of oils, petrol, diesel, etc.

- Very strong durability
- Suitable for heavy and long-lasting use
- Tightly woven fibres, high abrasion resistance and low-lint surface
- Outstanding absorption performance
- Large absorption capacity (up to 16 times of own weight)

Material thickness:

- Light – for smaller leakages and prevention
- Heavy – for larger leakages or absorption of puddles
- No unnecessary material usage – perforated rolls and mats, take only as much material as necessary
- Minimised risk of dripping – outstanding ability of absorbent surface to retain liquid

Type	Material thickness	Absorption (litres/PU)	L x W	Packaging unit (PU)	Order No.
Roll	light	250	90 m x 40 cm	2	11315
Roll	heavy	250	45 m x 80 cm	1	9936
Roll	heavy	250	45 m x 40 cm	2	9937
Mat	light	136	46 cm x 40 cm	200	11327
Mat	heavy	129	46 cm x 40 cm	100	9934
Sock		57	1.2 m x 75 mm	15	9930
Sock		64	3 m x 75 mm	6	9931
Cushions		46	46 cm x 46 cm	10	9932
Cushions		35	25 cm x 25 cm	20	9933
Drum mat	heavy	42	Ø 560 mm	25	14367
Accessories					Order No.
For rolls with a width of 40 cm, with cutting edge		for rolls with a width of 40 cm, with cutting edge			9905
For rolls with a width of 40 cm, with cutting edge		for rolls with a width of 40 cm, with cutting edge			9908
For rolls with a width of 80 cm, with cutting edge (also suitable for wall mounting)		for rolls with a width of 80 cm, with cutting edge (also suitable for wall mounting)			9909



Order No. 11314



Order No. 9951



Order No. 9943

Universal Sorbents – safe absorption of oils, water, coolants and non-aggressive chemicals

- Very strong durability
- Suitable for heavy and long-lasting use
- Tightly woven fibres, high abrasion resistance and low-lint surface
- Outstanding absorption performance
- Large absorption capacity (up to 16 times of own weight)

Material thickness:

- Light – for smaller leakages and prevention
- Heavy – for larger leakages or absorption of puddles
- No unnecessary material usage – perforated rolls and mats, take only as much material as necessary
- Minimised risk of dripping – outstanding ability of absorbent surface to retain liquid



Order No. 9954

Type	Material thickness	Absorption (litres/PU)	L x W	Packaging unit (PU)	Order No.
Roll	light	242	90 m x 40 cm	2	11314
Roll	light	242	90 m x 80 cm	1	11317
Roll	heavy	242	45 m x 80 cm	1	9950
Roll	heavy	242	45 m x 40 cm	2	9949
Sock		64	3 m x 75 mm	6	11347
Sock		57	1.2 m x 75 mm	15	9954
Mat	light	144	46 cm x 40 cm	200	11326
Mat	heavy	136	46 cm x 40 cm	100	9951
Cushions		46	46 cm x 46 cm	10	9943
Cushions		35	25 cm x 25 cm	20	9944
Drum mat	heavy	42	Ø 560 mm	25	9953

Accessories	Order No.
For rolls with a width of 40 cm, with cutting edge	9905
For rolls with a width of 40 cm, with cutting edge	9908
For rolls with a width of 80 cm, with cutting edge (also suitable for wall mounting)	9909
For rolls with a width of 80 cm, with cutting edge (also suitable for wall mounting)	9909





Order No. 9913



Order No. 9917



Order No. 9910

Special Sorbents – safe absorption of acids, alkalis, aggressive chemicals and oil

- Very strong durability
- Suitable for heavy and long-lasting use
- Tightly woven fibres, high abrasion resistance and low-lint surface
- Outstanding absorption performance
- Large absorption capacity (up to 16 times of own weight)

Material thickness:

- Light – for smaller leakages and prevention
- Heavy – for larger leakages or absorption of puddles
- No unnecessary material usage – perforated rolls and mats, take only as much material as necessary
- Minimised risk of dripping – outstanding ability of absorbent surface to retain liquid



Order No. 9915

Type	Material thickness	Absorption (litres/PU)	L x W	Packaging unit (PU)	Order No.
Roll	light	268	90 m x 80 cm	2	11319
Roll	heavy	228	45 m x 70 cm	1	9919
Roll	heavy	228	45 m x 40 cm	1	9913
Sock		85	1.2 m x 75 mm	15	9914
Sock		84	3 m x 75 mm	6	9915
Cushions		57	25 cm x 25 cm	20	9910
Cushions		78	46 cm x 46 cm	10	9916
Mat	heavy	114	46 cm x 40 cm	100	9917
Mat	light	163	46 cm x 40 cm	200	9918

Accessories	Order No.	
For rolls with a width of 40 cm, with cutting edge	for rolls with a width of 40 cm, with cutting edge	9905
For rolls with a width of 40 cm, with cutting edge	for rolls with a width of 40 cm, with cutting edge	9908
For rolls with a width of 80 cm, with cutting edge (also suitable for wall mounting)	for rolls with a width of 80 cm, with cutting edge (also suitable for wall mounting)	9909



PREMIUM mobile box oil, W x D x H (mm): 610 x 400 x 340
Order No. 14405



PREMIUM mobile box universal, W x D x H (mm): 610 x 400 x 340
Order No. 14406



PREMIUM mobile box special, W x D x H (mm): 610 x 400 x 340
Order No. 14407

PREMIUM mobile box

- Content: 6 cushions, 3 socks, 20 mats, 1 pair protective gloves

Handy sized mobile spill kit for fast access in case of leakage. The chosen content of the box provides the necessary help in serious accidents to absorb water-pollutant substances.

Oil Sorbents

Safe absorption of oils, petrol, diesel, hydrocarbon-based liquids etc., water repellent

Universal Sorbents

Safe absorption of oils, water, coolants and non-aggressive chemicals

Special Sorbents

Safe absorption of acids, alkalis, aggressive chemicals and oil



Refill kits for the mobile box (without protective gloves)

Type		W x D x H (mm)	Material	Order No.
Mobile box	Oil sorbents	610 x 400 x 340	polyethylene	14405
Mobile box	Universal sorbents	610 x 400 x 340	polyethylene	14406
Mobile box	Special sorbents	610 x 400 x 340	polyethylene	14407
Accessories				Order No.
Refill kit for mobile box	Oil sorbents			14408
Refill kit for mobile box	Universal sorbents			14409
Refill kit for mobile box	Special sorbents			14410





Universal coarse grain

- 1-3 mm grain size
- 20 kg bag binds up to 16 l heating oil
- Suitable for solid surfaces
- Optimum slip resistance even when completely saturated
- For indoors and outdoors



Universal fine grain

- 0.5-1 mm grain size
- 20 kg bag binds up to 18 l heating oil
- Penetrates small depressions and cracks
- Best suited for large contact with the surface and fast absorption (e.g. traffic surfaces)
- Optimum slip resistance even when completely saturated



Ultra fine grain

- 0.3-0.7 mm grain size
- 10 kg bag binds up to 11 l heating oil
- Penetrates the finest recesses and cracks
- Ideally suited for applications where little waste and very high suction power is required

Granulate – to set oils, alkalis, lipids, fuels, lacquers etc.

- Test certificates (MPA-NRW type III R)
- Successfully tested and licensed for the usage on traffic areas

Granulate universal	Absorption (litres/PU)	Weight (kg)	Order No.
Granulate universal ultra fine grain (packaging unit: 1x 10 kg bag)	11	10	14394
Granulate universal ultra fine grain (packaging unit: 3 x 10 kg bags)	33	30	18165
Granulate universal fine grain (packaging unit: 1x 20 kg bag)	18	20	9906
Granulate universal fine grain (packaging unit: 3 x 20 kg bags)	54	60	18453
Granulate universal coarse grain (packaging unit: 1x 20 kg bag)	16	20	9956
Granulate universal coarse grain (packaging unit: 3 x 20 kg bags)	48	60	18468

Sealing mats, barrier boundaries



Sealant mat, W x D x H (mm): 800 x 800 x 8
Order No. 13098

Flexible sealant mat – rapid protection in case of leaking liquids

- Prevents in case of fire or emergency a contamination of the surroundings with waterpollutant liquids
- Incl. protection film with integral handles
- Resistant to water, hydrocarbons and most chemicals
- The extremely dense, flexible material adhering to the underside adapts perfectly to the nature of the ground
- Can be used several times



Separation barrier, W x L x H (mm): 70 x 3000 x 100
Order No. 11365

Flexible separation barrier – rapid protection in case of leaking liquids

- Stick to ground and protects the environment from escaping liquids (e.g. for drains)
- Consists of a special plastic mixture
- Resistant to water, hydrocarbon and most chemicals
- Reusable (can be washed with soapy water or detoxicated)
- For all smooth substrates
- Prevents in case of fire or emergency a contamination of the surroundings with waterpollutant liquids
- Incl. protection film with integral handles
- Resistant to water, hydrocarbons and most chemicals
- The extremely dense, flexible material adhering to the underside adapts perfectly to the nature of the ground
- Can be used several times



Separation barrier, W x H (mm): 400 x 50
Order No. 13096

Storage box made of polyethylene

- With handle and lid
- Can be wall mounted



Type	W x D x H (mm)	Material	Order No.
Separation barrier	70 x 3000 x 100	polyurethane	11365
Separation barrier	45 x 2000 x 50	polyurethane	13093
Separation barrier	400 x 50	polyurethane	13096
Sealant mat	800 x 800 x 8	polyurethane	13098
Sealant mat	1000 x 1000 x 8	polyurethane	9901
Sealant mat	400 x 400 x 8	polyurethane	9902
Sealant mat	1200 x 1200 x 8	polyurethane	9903
Sealant mat	600 x 600 x 8	polyurethane	9904

Storage boxes	W x L x H (mm)	Material	Order No.
for length 400 mm	190 x 475 x 210	polyethylene	13097
for length 600 mm	190 x 675 x 210	polyethylene	13094
for length 800 mm	190 x 875 x 210	polyethylene	13101
for length 1000 mm	190 x 1080 x 210	polyethylene	13102
for length 1200 mm	190 x 1280 x 210	polyethylene	13095



WHEN IT COMES TO SAFETY, WE DO NOT COMPROMISE

We take the maintenance of your safety equipment very seriously.
In your interest.



Safety equipment is there to prevent the worst damage in the event of an emergency.

Therefore, it must be maintained regularly to ensure that it is fully functional at all times.

Professional maintenance can be vital

Improper maintenance can have serious consequences, such as loss of insurance cover. But other more severe costs can be incurred through production downtime, logistical

changes or even the relocation of production. In these circumstances, day-to-day running costs for personnel, vehicle fleet etc., continue to be a burden on the affected company.

This can all be avoided with asecos original service, keeping you legally on the safe side.

CORRECTLY MAINTAINED, PERFECTLY SECURED

Original service from asecos means: comprehensive and thorough maintenance – for your safety.

Our success began in 1994:

An inventive newcomer to the industry, asecos introduced the world's first safety storage cabinet with 90-minutes fire resistance onto the market in 1994. At that time, the product was revolutionary as only fire-resistant storage rooms offered this same level of protection.

Outstanding functionality and first-class quality soon earned asecos an excellent reputation in the industry. The innovative technologies that were developed in the following years continued to set new standards and trends.

At asecos, we still pursue this mission today. In accordance with our corporate philosophy, we want our products to contribute towards the safe management of hazardous materials throughout the world.

Our enthusiasm and inventiveness have made us the global leader in the manufacture of EN 14470-1/-2-compliant safety storage cabinets.

To provide all-round protection, our product portfolio today includes the following business divisions: indoor hazardous materials storage, extraction and filter systems, hazardous materials handling in outdoor areas, protection of non-smokers and maintenance and service solutions for all sectors.



Our service sets standards

Our expertise as a developer and manufacturer of safety-related equipment is also reflected in our range of services: we offer a complete, professional service programme including a 24-hour spare parts service.



WHY MAINTENANCE MATTERS

– THE LEGAL BASIS

The UK has many regulations governing the maintenance of equipment and employers have a legal duty to ensure that work equipment, including storage cabinets, are kept in good order to meet those requirements.



But nothing has ever happened to us...

„It is a fact of life that a fire can occur practically at any time. The fact that in many buildings there has been no fire for decades does not prove that there is no danger, but rather represents a stroke of luck for those affected. The end of which can be expected at any time.“

Quotation from a judgement of the Higher Administrative Court of Münster
(file no.: 10 A 363/86 from 11.12.87)

Reasons for the purchase of a safety storage cabinet:

- » Sustainable guarantee of legal security
- » Duty of care for people and the environment
- » Limitation of liability for the company and the business owner

However, you will only stay legally on the safe side if you have your safety storage cabinet regularly checked for safety!

Health and Safety at Work Act 1974

General duties of employers to their employees.

(1) It shall be the duty of every employer to ensure, so far as is reasonably practicable, the health, safety and welfare at work of all employees.

(2) Without prejudice to the generality of an employer's duty under the preceding subsection, the matters to which that duty extends include in particular—

(a) The provision and maintenance of plant and systems of work that are, so far as is reasonably practicable, safe and without risks to health.

Care of Substance Hazardous to Health Regulations 2002 – COSHH

Regulation 9 states that in the case of plant and equipment, including engineering controls and PPE that it is maintained in an efficient state, in efficient working order, good repair and in a clean condition. In the case of the provision of systems of work and supervision and of any other measure, it is reviewed at suitable intervals and revised if necessary.

In addition, employers must ensure that whoever carries out maintenance examinations and tests are competent to do so. People carrying out examinations and test on control measures of which safety cabinets are, must have adequate knowledge, training and expertise in methods and techniques.

Dangerous Substances and Explosive Atmospheres Regulations 2002 – DSEAR

DSEAR refers to maintenance throughout the regulations. The employer, having carried out all the required assessment and subsequent implementation work, should continue to

ensure that the control measures they have created are maintained both in terms of hardware (plant etc) and software.

The workplace, including the location of equipment, should be designed, constructed and maintained to prevent releases of dangerous substances accumulating in sufficient quantity that ignition could result in a fire and/or explosion or 'other events' that may lead to injury.

The Provision and Use of Work Equipment Regulations 1998 – PUWER

PUWER requires that equipment provided for use at work is safe for use, maintained in a safe condition and inspected.

In order to ensure work equipment does not deteriorate to the extent that it may put people at risk, employers, the relevant self-employed and others in control of work equipment are required by PUWER to keep it maintained in an efficient state, in efficient order and in good repair'.

The frequency and nature of maintenance should be determined through risk assessment, taking full account of

- » the manufacturer's recommendations
- » the intensity of use
- » operating environment (such as the effect of temperature, corrosion, and weathering)
- » user knowledge and experience
- » the risk to health and safety from any fore seeable failure or malfunction

Maintenance on a less frequent basis than the manufacturer's recommendation should be subject to careful risk assessment and the reasons for doing so should be reviewed at appropriate intervals.

Maintenance work should only be undertaken by those who are competent to do the work. With high-risk or complex equipment, these demands may be significant and, in some cases, may be best undertaken by the manufacturer or specialist contractors.

There is no requirement for you to keep a maintenance log, although it is recommended for high-risk equipment. Maintenance logs can provide useful information for the future planning of maintenance, as well as informing maintenance personnel of previous action taken. However, if you have a maintenance log, you must keep it up to date.

Conclusion

Improper or irregular inspection of safety-related equipment, not only risks the loss of insurance cover but also threatens your personal liability - you can be held personally responsible for damage or injury.

Do you meet all legal requirements?

- A risk assessment has been prepared for our company
- Our safety cabinets are inspected for safety at regular intervals
- Our safety cabinets are inspected by the manufacturer or by a person certified by the manufacturer
- The results of the inspection are recorded and kept for an appropriate period of time.

Only a positive response to these statements keeps you on the safe side!



ONLY ASECOS CAN CORRECTLY MAINTAIN ASECOS PRODUCTS

Have trust in the asecos original service.



What you can expect from the asecos service.

- » Warranty or manufacturer's warranty and producer liability
- » Thorough checks to ensure the storage facility is being used in accordance with the legislation (site location; correct, segregated storage; EX zones etc.)
- » Complete documentation and availability of all original spare parts (min. 10 years)
- » Comprehensive service network
- » 98% of all repairs on asecos products completed during the initial service / safety check – no second visit required.

We know every detail of our products.

After all, we have developed and built them ourselves. Therefore, when maintaining your technical safety equipment, you should rely exclusively on the asecos original service – and on the competence of our service technicians. Because they know exactly what they have to deal with.

You are safer with asecos.

Professional maintenance extends the life of your products and minimises the risk of failure. In an emergency we, as the manufacturer, have 98% of the original parts of common asecos products available. This means we can normally repair your equipment during the safety inspection.

QUALIFIED TRAINING

– THE BASIS FOR EXCELLENT WORK

asescos employees are specialists in their field.

Safety inspections should only be carried out by a qualified, competent person. A competent person is defined as:

A person who, through his or her vocational training, professional experience and timely professional activity, has the necessary technical knowledge to test work equipment.

We work in accordance with the legal regulations and only employ service staff who are called upon to be competent persons to carry out these safety checks.

Our service technicians undergo thorough initial and continuous training, both internal and external, in all aspects of hazardous material storage and handling, across our full product range.

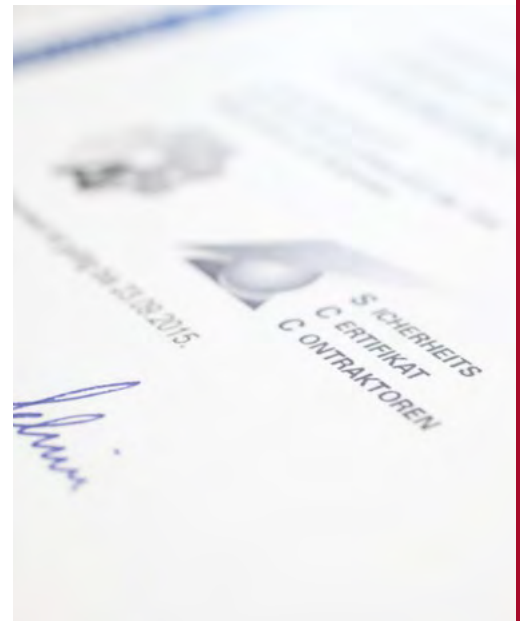
Such intensive training ensures our service technicians have the necessary qualifications and ability to

- » carry out safety inspections on asescos products,
- » carry out the effectiveness test,
- » conduct a technically correct and comprehensive assessment,
- » assess the basis for warranty extension.

In addition, asescos has a specialist back office with a trained occupational safety specialist.

So you can be sure that we understand what is important.

Maintenance at the highest level means you have: legal security in the event of damage.



Documentation

- » Issue of test sticker
- » Creation of an electronic test protocol (PDF) specifically for each cabinet type (solvent/compressed gas/corrosive) and adapted to the respective construction type (tall unit/under bench unit/container).
- » Integration of inventory/equipment number into the maintenance system for quick tracking. Advantage: no unnecessary paper consumption, simple data archiving.
- » Warranty or manufacturer's warranty and producer's liability in accordance with the product safety law to protect your employees and facilities.



WITH OUR SERVICES YOU ARE ALWAYS ON THE SAFE SIDE

The asecos original service in detail.



Trust in the competence of asecos

Regardless of which safety equipment you operate, we ensure that everything is perfectly maintained. What you can expect:

The annual safety inspection

For asecos safety storage cabinets, the safety inspection is mandatory. Safety installations must be properly maintained at regular intervals by a competent person and tested for their functionality. The basis for determining the inspection intervals is the risk assessment.

The safety inspection is a classic standard maintenance, which provides you with a guaranteed, optimum inspection of all safety-related systems.

The asecos service technicians thoroughly check all equipment and correct any malfunctions on site, using original spare parts. Finally, the service work is documented so that you are covered in the event of damage. In order to be able to carry out the inspections properly, the service technician must have a very precise knowledge of the safety storage cabinet – e.g. with regard to the fire protection construction (sealing systems etc.), the technical extraction system (air exchange, fire dampers, monitoring electronics etc.) or special equipment such as door open arrest systems, pipe lead-throughs and similar. It goes without saying that the safety inspection can only be carried out by specially trained and certified asecos service staff.

We also carry out other work, such as filter changes for recirculating air filters, inspection of shelf systems and much more.

Our service technicians carry out the following tests:

- » Functional test
- » Security check
- » Fire protection testing
- » Ventilation test
- » Legal security control
- » Visual inspection

MAINTENANCE MEANS RESPONSIBILITY

The asecos original service according to BS EN 13306.

Anyone who operates technical installations or systems of any kind must ensure that they are always in working order, i.e. they are maintained. This is of course particularly important where human life can be endangered by technical failure – and this is the case with safety-related installations.

The objectives of maintenance are:

- » To increase the service life
- » Improvement of operational safety
- » Increase of plant availability

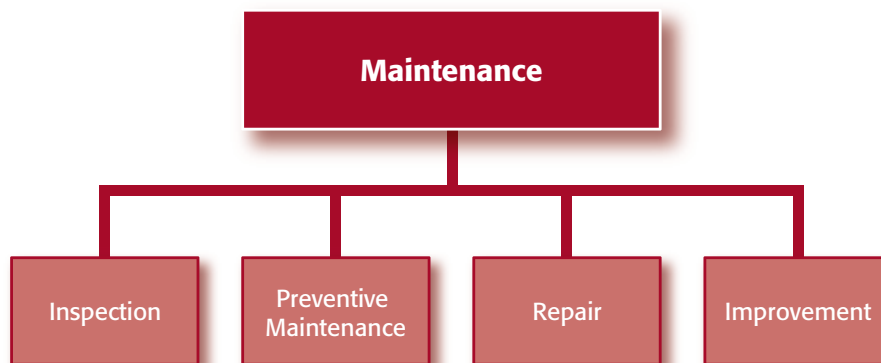
- » Reduction of disturbances
- » Optimisation of operational processes
- » Plannability of costs

More productivity and legal certainty through preventive maintenance

Regular service by our technicians prevents system failures. Thus you increase your productivity, avoid financial follow-up costs and you are legally on the safe side:

- » You reduce downtimes
- » You shorten repair times

- » You safeguard your limitation of liability for your company or for you as a business owner
- » You receive from us a warranty for the service provided



BS EN 13306 clearly sets out the requirements and basic maintenance measures:

Inspection

During the inspection, the installation to be inspected is assessed. The causes of any wear and tear are determined and the necessary conclusions for future use are drawn.

Preventive Maintenance

BS EN 13306 defines maintenance as measures taken to prevent failure due to wear and tear.

Repair

If the system to be tested is defective, the functional condition is restored during maintenance. However, no improvements have been made.

Improvement

The aim is to increase the functional safety of a plant without changing the function. The measures to achieve this BS EN 13306 is defined as a combination of technical and administrative measures and activities of the management.

We have taken these aspects into account when developing our service proposal.



OUR PROPOSAL



Tailored to your individual needs.

Do you have other safety engineering systems? No problem.

We can also offer you safety checks, e.g. of hazardous substance work stations, pharmacy fume cupboards, acid-alkaline cabinets, chemical, environmental and pesticide cabinets.

Our service programme includes many more services – just contact us!

Safety inspection of safety storage cabinets for flammable liquids or pressurised gas cylinders

Tariff	
	<div style="float: right; border: 2px solid white; border-radius: 50%; padding: 10px; text-align: center;"> <p>1 Year warranty for the services provided</p> </div> <p>The regular inspection according to EC-directives 89/391/EEC</p> <p>Inspection</p> <ul style="list-style-type: none"> • Visual inspection including ventilation test • Error analysis <p>Legal Certainty Inspectorate</p> <ul style="list-style-type: none"> • Control of EX areas, stored goods, legal marking, checking the documentation, installation conditions <p>Immediate maintenance</p> <ul style="list-style-type: none"> • Measures to delay wear and tear • Functional test • Feedback of maintenance work <p>Immediate repair</p> <ul style="list-style-type: none"> • Replacement of parts to a value of £5 are included in the service. • Immediate repair in 98% of cases for manufactured products <p>Signed entry in the asecos service booklet / inspection sticker / inspection record</p> <div style="text-align: center;"> </div>

Please observe local legislation and regulations.

THE ASECOS ORIGINAL SERVICE: SAFETY THAT REASSURES

asecos gives you the good feeling of having done everything necessary.



Save yourself unnecessary trouble and effort. Trust in the competence of asecos for the maintenance of your safety systems. You don't have to do anything more. We regularly remind you of due maintenance dates and safety inspections. In this way, the function of all systems is guaranteed at all times. You gain legal certainty, and you do everything necessary to protect the health of your employees, your company and last but not least, the environment.

A good feeling, don't you think?

Trust in the asecos original service:

- » Enjoy lasting legal security
- » Fulfil your duty of care towards people and the environment
- » Maintain the limitation of liability for your company and yourself



Terms and conditions

Dimensions, weights and illustrations

Technical data such as dimensions and weights shown in the catalogue are approximate values. Illustrations may contain special equipment. Products will be delivered without any decoration material.

Price and delivery information

To obtain binding price information and delivery times, please contact your respective dealer/retail partner.

Customs duty / documents dispatch

In case any country-specific extra costs occur for an order (like for example customs confirmation, express shipping of documents, chamber of commerce (IHK) confirmations, etc.), the charges will be passed on accordingly.

asecos Warranty



* Upon conclusion of an asecos service and maintenance agreement (BasicPlus tariff) with a fixed term of 5 years, you will get a warranty extension for a maximum of 5 years for your safety storage cabinet according to EN 14470. Detailed information upon request. Available only in certain markets. Please check with local partner.



* Upon conclusion of an asecos service and maintenance agreement (PREMIUM tariff), you will get a warranty extension for up to 10 years for your safety storage cabinet. Detailed information upon request. Available only in certain markets. Please check with local partner.

September 2024

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All data is for information purposes only. Decisive for the individual case is the respective valid legislation. Please note the country-specific regulations and provisions that are binding for you!

This catalogue was created specifically for the UK and Ireland. The products and services shown are only available in the UK and Ireland. Item numbers and information may differ for products outside the UK or Ireland due to different country specifications.

We will be happy to advise you individually if you have any questions.

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asecos GmbH

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