



asecos®

V-LINE
The new formula for the storage of hazardous materials



»» Access and visibility from both sides to all stored containers - perfect overview.

»» Vertical drawer technology for simplified operation.

»» Identical storage volume to standard cabinets – but only half the cabinet width.

asecos V-LINE

THE NEW FORMULA FOR THE STORAGE OF HAZARDOUS MATERIALS

asecos V-LINE safety storage cabinets have been developed and designed according to consistent objectives:

- »» Direct access to all stored containers.
- »» Maximum safety in the storage of hazardous materials.
- »» Perfect integration into existing work flows.
- »» Ideal use of existing space.
- »» Highest comfort in use.

The result is a unique worldwide range of safety storage cabinets featuring impressive highlights.

The right cabinet for every application purpose

The V-LINE cabinets are available with one or two vertical drawers, in laboratory or industrial designs and with various interior equipment to choose from. Depending on the desired storage volume there is a choice of two cabinets with different widths.

The **45 cm-wide** V-LINE cabinet is equipped with one vertical drawer. The **81 cm-wide** model is equipped with two vertical drawers that accept double the quantity of hazardous materials. The height of the storage levels inside the drawer can be adjusted individually.



Cabinet colours


Within a laboratory environment, V-LINE cabinets with a **classic unicolour design** and their powder-coated finish fit in perfectly.

 Light grey
RAL 7035


 Pure white
RAL 9010

The V-LINE cabinets blend into industrial environments (such as workshops or workrooms) perfectly due to the **bi-colour** design.

Cabinet body:

 Anthracite grey
RAL 7016


Front Vertical drawer:

 Warning yellow
RAL 1004

 Light grey
RAL 7035

 Traffic red
RAL 3020

 Gentian blue
RAL 5010

 Stainless steel

Innovative technology

The name V-LINE originates from the innovative vertical drawer technology. The vertical drawers are controlled by an electric motor, which enables them to operate easily. The double-sided access offers to overlook and reach stored containers conveniently at any time.



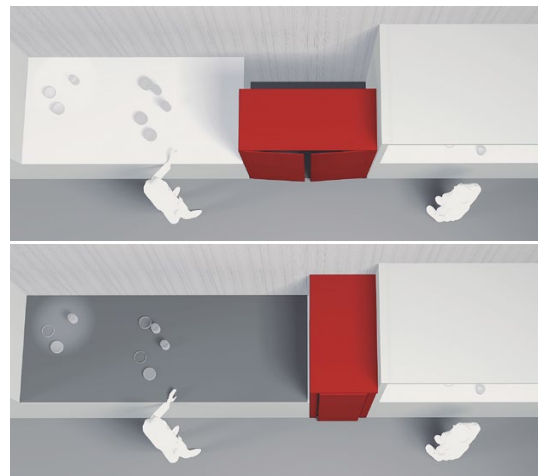
Electronic opening and closing

The vertical drawers of the V-LINE cabinets are easy to open and close at the push of a button, without additional physical efforts. The drawers glide softly and quietly out of and into the cabinet body, driven by the electric motor.



Optimum integration and use of space

Since fume hoods and benches are normally deeper than safety storage cabinets, the space behind the cabinets has remained unused until now. The common practice is to install safety storage cabinets with their fronts flush with those of laboratory fume cupboards or work benches. With a depth of 86 cm, V-LINE cabinets now use the space that conventional hazardous material cabinets have left unused so far.



Application example - laboratory



asecos V-LINE

TAKING SAFETY A STEP FURTHER

Maximum safety while storing hazardous materials was an ambition for the asecos developers.

Various requirements would have to be fulfilled by the new V-LINE cabinets: **Type-tested fire resistance of 90 minutes**, automatic drawer closing when the cabinet is not used actively and electronic vertical drawers with an intelligent stop function in order to prevent being trapped.

Due to the standard automatic closing system, the vertical drawers of the V-LINE are **always safely closed**.

When not in use the drawers close automatically after approx. 60 seconds. In the event of fire an electronic temperature sensor triggers the closing of the vertical drawers.

Even in the case of a power breakdown, a battery buffer ensures that the drawers close safely and automatically at any time.

Furthermore, the standard stop function of the electronic vertical drawers detects resistances and reacts immediately. Whenever the drawer is being blocked by an object while opening it will stop and provide an acoustic signal. An acoustic signal is similarly emitted if the vertical

drawer is blocked while closing. In this case the drawer stops immediately and opens again slightly. **The risk of being trapped is eliminated.**

Thought has also been given to the possible risk of tipping over. If one of the vertical drawers of the two-drawer cabinet is open, the electronics detects this and blocks the second drawer in the closed position. The inadvertent opening of both drawers is excluded. (see picture below)

Locking the cabinet with the cylinder lock, can be integrated in an existing locking system, blocks the motor so that the vertical drawers can no longer be moved. This reliably prevents unauthorised access to the stored hazardous materials.



MAXIMUM COMFORT FOR THE USER

Same storage volume as standard cabinets – but only half the cabinet width

With a width of just 45 cm, a V-LINE safety storage cabinet can hold almost the same quantity of hazardous materials as a 90 cm-wide safety storage cabinet with drawers.

Cabinet	asecos V-LINE Vertical drawers with shelves Width: 45 cm	asecos S-LINE Wing doors with drawers Width: 90 cm
Storage levels	6	6
Total storage volume of 1-litre bottles (ISO 4796-1)	126	138

Flexible storage

Cabinets of the V-LINE make it easy to adapt the storage levels to current needs. The shelves can be adjusted by the cabinet user to any desired division with increments of 25 cm.

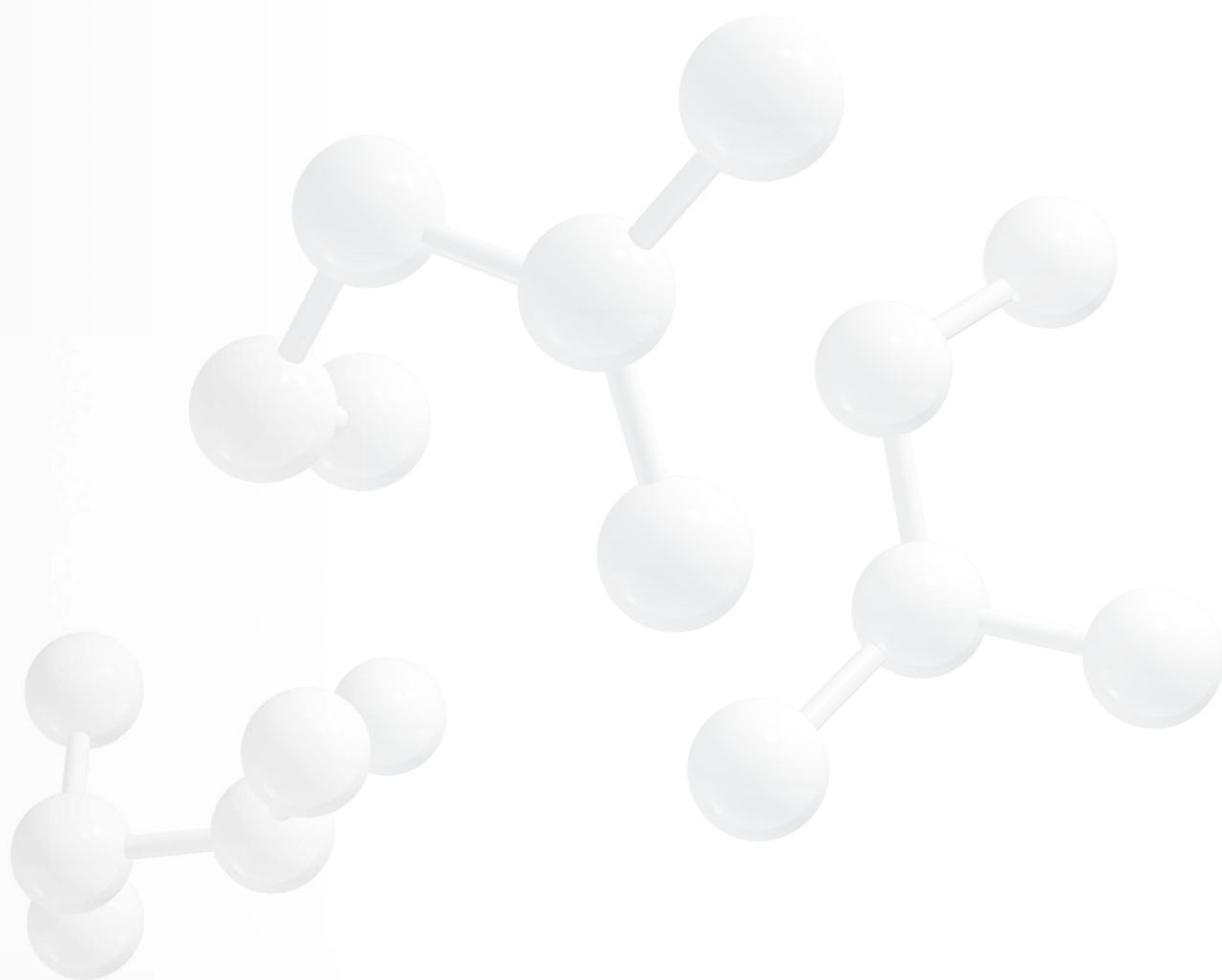


Application example - industry





ORDER INFORMATION TECHNICAL DATA





V-MOVE-90 ◀ 45 cm ▶



Applied for GS approval



Safe and approved storage of flammable hazardous substances in working areas

Function / construction:

- **Robust construction and longevity:** stable, high quality and scratch proof cabinet body with powder-coated surface
- **Electronic opening and closing:** the vertical drawer opens and closes at the push of a button
- **Perfect access:** the vertical drawer provides an overview and simple access to the stored containers
- **Always closed:** standard serial closing after approx. 60 seconds with visual and acoustic signal for drawer closure
- **No unauthorised use:** vertical drawer lockable with cylinder lock (integration in an existing locking

system possible) and locking state indicator (red/green)

- **Easy alignment:** adjusting aids to compensate for uneven floor
- **Supply and exhaust ventilation:** integrated air ducts ready for connection (DN 75) to a exhaust system

Available equipment:

- Shelves with 50 kg load capacity
- Perforated insert as storage surface
- Bottom collecting sump
- Anti-slip rubber mats
- Guard rail system

Safety storage cabinet

V-MOVE-90 model V90.196.045.VDAC

Pure white (RAL 9010), interior equipment with 5x shelf, 1x perforated insert, 1x bottom collecting sump (sheet steel powder-coated)

Order No. 35034-005-35101

(Guard rail system optional)



Stainless steel front

V-LINE cabinets are available with insensitive, food-safe, stainless steel fronts – ideal whenever maximum resistance is required.



Guard rail system (optional)

Additional tilt protection for stored containers

COULD YOU EVACUATE YOUR FACILITY IN 3 MINUTES... HOW ABOUT 90 MINUTES?

Do you know how your flammable storage cabinet will perform? Our latest video compares the performance of the three most common types of safety storage cabinets.



watch the video [youtube.com/asescoschannel](https://www.youtube.com/asescoschannel)



Extraction unit with exhaust air monitoring

Safe ventilation of safety storage cabinets

Plug-in – fast and easy to install

Order No. 14220

Recirculating air filter system

Avoid complex wall break-throughs and expensive extraction piping



Order No. 25099

All cabinets available from 2nd quarter of 2017



Safety storage cabinet

V-MOVE-90 model V90.196.045.VDAC

Body colour Anthracite grey (RAL 7016), with vertical drawer in Warning yellow (RAL 1004), interior equipment with 5x shelf, 1x perforated insert, 1x bottom collecting sump (sheet steel powder-coated)

Order No. 35085-040-35100

(Guard rail system optional)

Safety storage cabinet

V-MOVE-90 model V90.196.045.VDAC

Light grey (RAL 7035), interior equipment with 5x shelf, 1x perforated insert, 1x bottom collecting sump (sheet steel powder-coated)

Order No. 35034-001-35101






(Guard rail system optional)

Available colours:



Order example - how to order correctly



	UNICOLOUR Model	Information / Interior	Order No.
	V90.196.045.VDAC:0012	Without interior equipment	35034
	Body colour	Colour vertical drawer	Order No.
	Light grey RAL 7035	Light grey RAL 7035	001
	Pure white RAL 9010	Pure white RAL 9010	005
	BI-COLOUR Model	Information / Interior	Order No.
	V90.196.045.VDAC:0013	Without interior equipment	35085
	Body colour	Colour vertical drawer	Order No.
	Anthracite grey RAL 7016	Warning yellow RAL 1004	040
	Anthracite grey RAL 7016	Light grey RAL 7035	041
	Anthracite grey RAL 7016	Traffic red RAL 3020	046
	Anthracite grey RAL 7016	Gentian blue RAL 5010	047
	Anthracite grey RAL 7016	Stainless steel	051
	Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
	4x shelf (evenly distributed) - optimized for 2,5-litre bottles, 1x perforated insert, 1x bottom collecting sump (V=11.0 L)	Sheet steel powder-coated RAL 7035	35100
	5x shelf (evenly distributed) - optimized for 1-litre bottles, 1x perforated insert, 1x bottom collecting sump (V=11.0 L)	Sheet steel powder-coated RAL 7035	35101










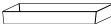


Individual configuration of model V90.196.045.VDAC

 UNICOLOUR Model	Information / Interior	W x D x H	Order No.
V90.196.045.VDAC:0012	Without interior equipment	450 x 863 x 1966	35034

 Body colour	Colour vertical drawer	Order No.
Light grey RAL 7035	Light grey RAL 7035	001
Pure white RAL 9010	Pure white RAL 9010	005

 BI-COLOUR Model	Information / Interior	W x D x H	Order No.
V90.196.045.VDAC:0013	Without interior equipment	450 x 863 x 1966	35085

 Body colour	Colour vertical drawer	Order No.
Anthracite grey RAL 7016	Warning yellow RAL 1004	040
Anthracite grey RAL 7016	Light grey RAL 7035	041
Anthracite grey RAL 7016	Traffic red RAL 3020	046
Anthracite grey RAL 7016	Gentian blue RAL 5010	047
Anthracite grey RAL 7016	Stainless steel	051

 Interior equipment	Material	W x D x H (mm)	 ¹⁾	 ²⁾	 ³⁾	Order No.
 Shelf	Sheet steel powder-coated RAL 7035	316 x 719 x 35*	50,00			35097
 Perforated insert	Sheet steel powder-coated RAL 7035	307 x 715 x 60				35098
 Bottom collecting sump	Sheet steel powder-coated RAL 7035	309 x 717 x 80*		12,5	11	33524
 Guard rail system (set for one shelf)	Sheet steel powder-coated RAL 7035					35099
 Anti-slip rubber mat, for shelf	Black	314 x 717 x 1				33575

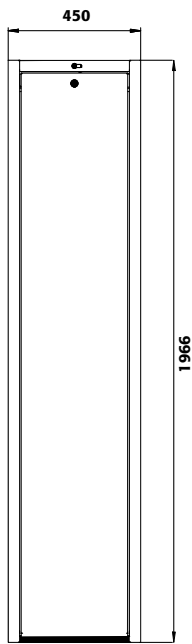
 Accessories	Order No.
Recirculating air filter system with exhaust air monitoring	25099
Extraction unit with exhaust air monitoring	14220
Extraction unit without exhaust air monitoring	14218

* usable storage space W x D (mm) /

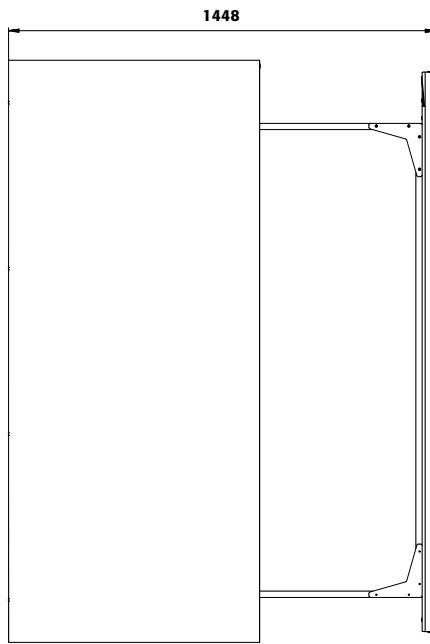
1) load capacity (kg), 2) retention capacity (ltr), 3) maximum container volume in the cabinet (ltr)



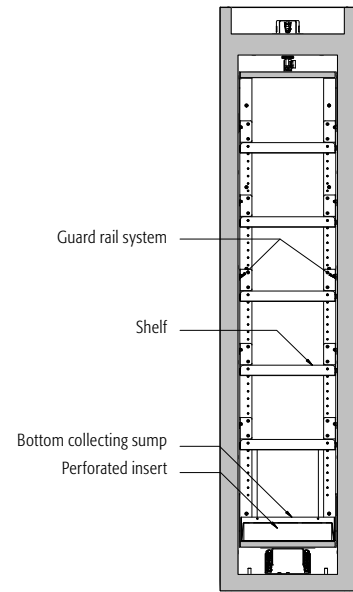
Front view



Side view



Sectional view

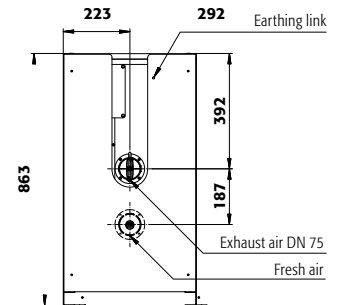


Technical data

V90.196.045.VDAC

External dimensions W x D x H	mm	450 x 863 x 1966
Internal dimensions W x D x H	mm	331 x 773 x 1750
Weight without interior equip.	kg	344
Air change 10x	m ³ /h	4
Diff. pressure (air change 10x)	Pa	< 5
Diff. pressure (air change 10x - EK5/AK4)	Pa	< 5
Maximum load vertical drawer	kg	140
Distributed load	kg/m ²	583

Top view

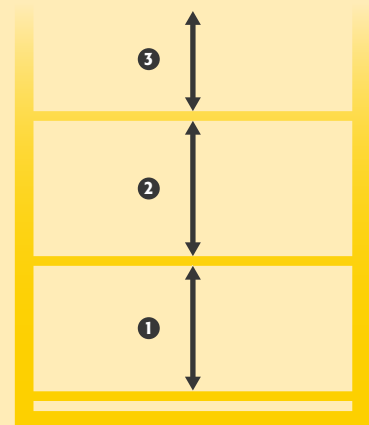


V90.196.045.VDAC Standard storage heights of the shelves

Shelves/number	5	4
Distance 6 (mm)	250	
Distance 5 (mm)	248	300
Distance 4 (mm)	248	298
Distance 3 (mm)	248	298
Distance 2 (mm)	248	298
Distance 1 (mm)	245	295

V90.196.045.VDAC Storage capacities per shelf/type of container

Quantity	Type of container	Container size
46	Aerosol cans	400 ml
21	Laboratory glass bottles	1 litre
8	Laboratory glass bottles	2,5 litre





V-MOVE-90 ◀ 81 cm ▶



Safety storage cabinet V-MOVE-90 model V90.196.081.VDAC

Light grey (RAL 7035), interior equipment with 10x shelf, 2x perforated insert, 2x bottom collecting sump (sheet steel powder-coated)

Order No. 35035-001-35103

(Guard rail system optional)



Applied for GS approval



Safe and approved storage of flammable hazardous substances in working areas

Function / construction:

- **Robust construction and longevity:** stable, high quality and scratch proof cabinet body with powder-coated surface
- **Electronic opening and closing:** the vertical drawers open and close at the push of a button
- **Perfect access:** the vertical drawers provide an overview and simple access to the stored containers
- **Always closed:** standard serial closing after approx. 60 seconds with visual and acoustic signal for drawer closure
- **No unauthorised use:** vertical drawers lockable with cylinder lock (integration in an existing locking

system possible) and locking state indicator (red/green)

- **Easy alignment:** adjusting aids to compensate for uneven floor
- **Supply and exhaust ventilation:** integrated air ducts ready for connection (DN 75) to a exhaust system

Available equipment:

- Shelves with 50 kg load capacity
- Perforated insert as storage surface
- Bottom collecting sump
- Anti-slip rubber mats
- Guard rail system



Bi-colour design

For harmonious integration in all industrial environments



Guard rail system (optional)

Additional tilt protection for stored containers

COULD YOU EVACUATE YOUR FACILITY IN 3 MINUTES... HOW ABOUT 90 MINUTES?

Do you know how your flammable storage cabinet will perform? Our latest **video compares the performance** of the three most common types of **safety storage cabinets**.



watch the video [youtube.com/asecoschannel](https://www.youtube.com/asecoschannel)



Extraction unit with exhaust air monitoring

Safe ventilation of safety storage cabinets

Plug-in – fast and easy to install

Order No. 14220



Recirculating air filter system

Avoid complex wall break-throughs and expensive extraction piping

Order No. 25099

All cabinets available from 2nd quarter of 2017



Safety storage cabinet
V-MOVE-90 model V90.196.081.VDAC

Body colour Anthracite grey (RAL 7016), front of vertical drawers made of stainless steel, interior equipment with 9x shelf (4x left, 5x right), 2x perforated insert, 2x bottom collecting sump (sheet steel powder-coated)

Order No. 35086-051-35104

(Guard rail system optional)

Safety storage cabinet
V-MOVE-90 model V90.196.081.VDAC

Pure white (RAL 9010), interior equipment with 8x shelf, 2x perforated insert, 2x bottom collecting sump (sheet steel powder-coated)

Order No. 35035-005-35102






(Guard rail system optional)

Available colours:



Order example - how to order correctly



	UNICOLOUR Body without interior equipment:	Information / Interior equipment	Order No.
	V90.196.081.VDAC:0012	Body without interior equipment	35035
	Body colour	Frontfarbe Vertikalauszüge	Order No.
	Light grey RAL 7035	Light grey RAL 7035	001
	Pure white RAL 9010	Pure white RAL 9010	005
	BI-COLOUR Body without interior equipment:	Information / Interior equipment	Order No.
	V90.196.081.VDAC:0013	Body without interior equipment	35086
	Body colour	Frontfarbe Vertikalauszüge	Order No.
	Anthracite grey RAL 7016	Warning yellow RAL 1004	040
	Anthracite grey RAL 7016	Light grey RAL 7035	041
	Anthracite grey RAL 7016	Traffic red RAL 3020	046
	Anthracite grey RAL 7016	Gentian blue RAL 5010	047
	Anthracite grey RAL 7016	Stainless steel	051
	Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
	left: 4x shelf (evenly distributed) - optimized for 2,5-litre bottles, 1x perforated insert, 1x bottom collecting sump (V=11.0 L) right: 4x shelf (evenly distributed) - optimized for 2,5-litre bottles, 1x perforated insert, 1x bottom collecting sump (V=11.0 L)	Sheet steel powder-coated RAL 7035	35102
	left: 5x shelf (evenly distributed) - optimized for 1-litre bottles, 1x perforated insert, 1x bottom collecting sump (V=11.0 L) right: 5x shelf (evenly distributed) - optimized for 1-litre bottles, 1x perforated insert, 1x bottom collecting sump (V=11.0 L)	Sheet steel powder-coated RAL 7035	35103
	left: 4x shelf (evenly distributed) - optimized for 2,5-litre bottles, 1x perforated insert, 1x bottom collecting sump (V=11.0 L) right: 5x shelf (evenly distributed) - optimized for 1-litre bottles, 1x perforated insert, 1x bottom collecting sump (V=11.0 L)	Sheet steel powder-coated RAL 7035	35104



Individual configuration of model V90.196.081.VDAC

UNICOLOUR Model	Information / Interior	W x D x H	Order No.
V90.196.081.VDAC.0012	Without interior equipment	819 x 863 x 1966	35035

Body colour	Colour vertical drawers	Order No.
Light grey RAL 7035	Light grey RAL 7035	001
Pure white RAL 9010	Pure white RAL 9010	005

BI-COLOUR Model	Information / Interior	W x D x H	Order No.
V90.196.081.0013	Without interior equipment	819 x 863 x 1966	35086

Body colour	Colour vertical drawers	Order No.
Anthracite grey RAL 7016	Warning yellow RAL 1004	040
Anthracite grey RAL 7016	Light grey RAL 7035	041
Anthracite grey RAL 7016	Traffic red RAL 3020	046
Anthracite grey RAL 7016	Gentian blue RAL 5010	047
Anthracite grey RAL 7016	Stainless steel	051

Interior equipment	Material	W x D x H (mm)	1)	2)	3)	Order No.
Shelf	Sheet steel powder-coated RAL 7035	316 x 719 x 35*	50,00			35097
Perforated insert	Sheet steel powder-coated RAL 7035	307 x 715 x 60				35098
Bottom collecting sump	Sheet steel powder-coated RAL 7035	309 x 717 x 80*		12,5	11	33524
Guard rail system [Set for one shelf]	Sheet steel powder-coated RAL 7035					35099
Anti-slip rubber mat, for shelf	Black	314 x 717 x 1				33575

Accessories	Order No.
Recirculating air filter system with exhaust air monitoring	25099
Extraction unit with exhaust air monitoring	14220
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]

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.

Colour key: ready for dispatch within

The delivery times specified in the catalogue are average values. The precise delivery times are to be taken from the detailed offer and/or order. Information on the period of having the goods ready for dispatch refers to order quantity usual in trade. For larger quantities, the delivery time can be delayed accordingly.

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.

* Upon conclusion of an asecos service and maintenance agreement (PREMIUMQ tariff), you will get a warranty extension for up to 10 years for your Q-LINE or V-LINE safety storage cabinet. Detailed information upon request.

Other information: Furthermore refer to the general terms and conditions of the asecos GmbH on www.asecos.global and the terms and conditions of your specialised dealer.

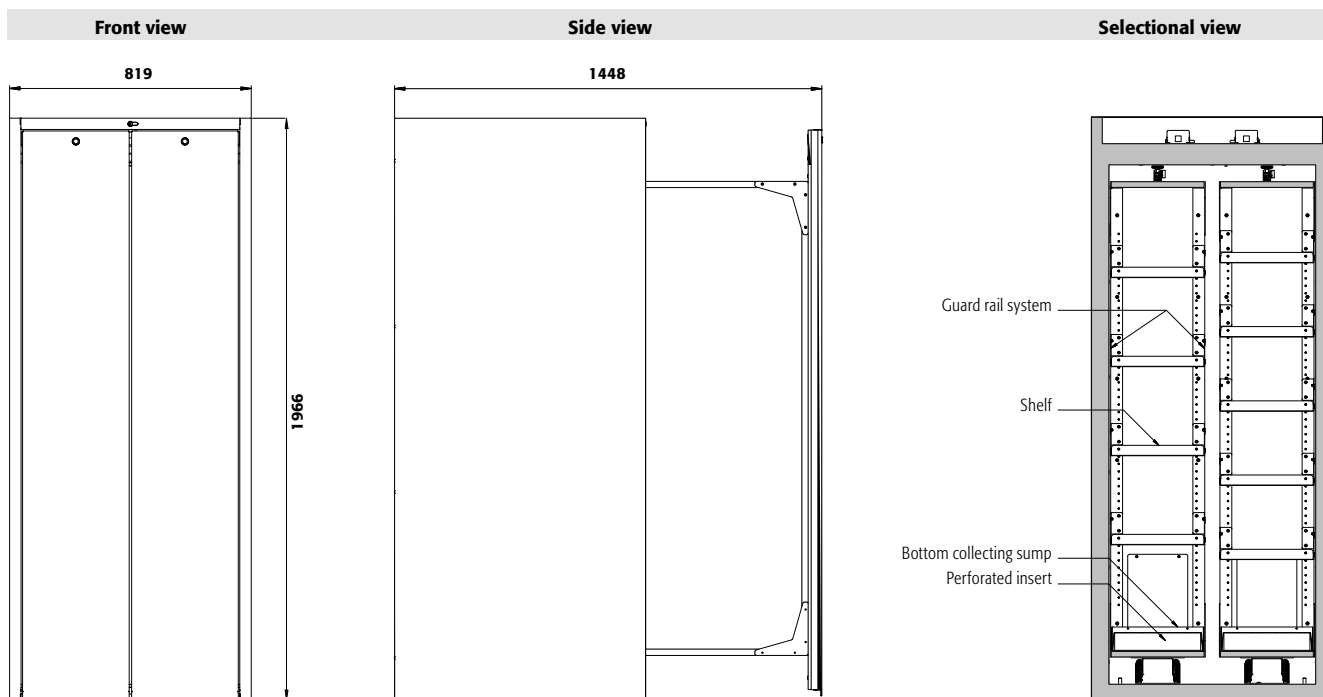
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Publisher: asecos GmbH

ICONS Safety storage cabinets - Features

Type	GS approved	Laboratory furniture re- gulation	CE declaration	asecos warranty	Width	Height
Vertical drawer(s)	Electronic opening and closing	Automatic door closing	Profile cylinder with locking state indicator	Adjusting aids	Shelf	Technical ventilation available

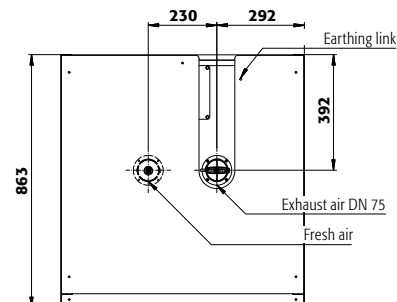


Technical data

V90.196.081.VDAC

External dimensions W x D x H	mm	819 x 863 x 1966
Internal dimensions W x D x H	mm	701 x 773 x 1750
Weight without interior equip.	kg	500
Air change 10x	m ³ /h	9
Di . pressure (air change 10x)	Pa	<5
Di . pressure (air change 10x - EK5/AK4)	Pa	<5
Maximum load vertical drawer	kg	140
Distributed load	kg/m ²	516

Top view



V90.196.081.VDAC

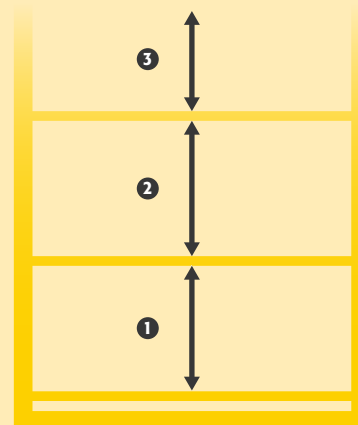
Standard storage heights of the shelves

Shelves/number	5	4
Distance 6 (mm)	250	
Distance 5 (mm)	248	300
Distance 4 (mm)	248	298
Distance 3 (mm)	248	298
Distance 2 (mm)	248	298
Distance 1 (mm)	245	295

V90.196.081.VDAC

Storage capacities per shelf/type of container

Quantity	Type of container	Container size
46	Aerosol cans	400 ml
21	Laboratory glass bottles	1 litre
8	Laboratory glass bottles	2,5 litre



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