asecos®

V-LINE

The new formula for the storage of hazardous materials

HUBERLAB.

committed to science

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

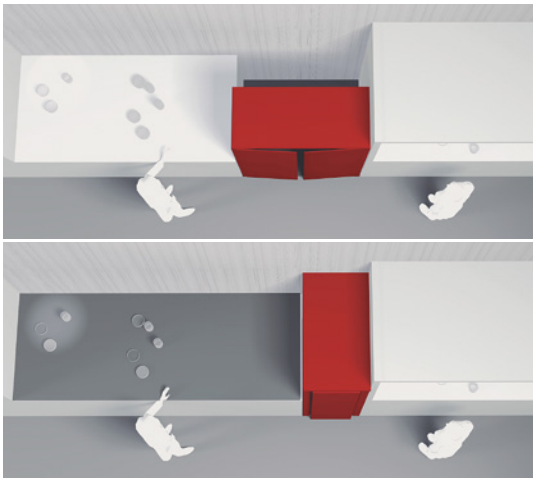
The name V-LINE originates from the innovative vertical drawer technology. The vertical drawers are controlled by an electric motor, which enables them to operate easily. The double-sided access offers to overlook and reach stored containers conveniently at any time.

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 ist 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 mm.

Application example - industry

ORDER INFORMATION
TECHNICAL DATA

Safety storage cabinet
V-MOVE-90 model V90.196.045.VDAC:0012
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 4
(Guard rail system optional)

Safe and approved storage of flammable hazardous substances in working areas

Function / construction:

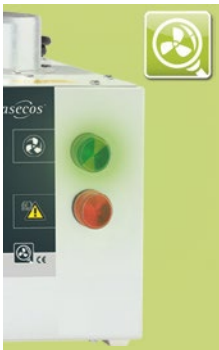
- **Robust construction and longevity:** stable, high quality and scratch proof cabinet body with powder-coated surface
- **Electronic opening and closing:** the vertical drawer opens and closes at the push of a button
- **Perfect access:** the vertical drawer provides an overview and simple access to the stored containers
- **Always closed:** standard serial automatic door 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:

- Anti slip rubber mats
- Shelves with 50 kg load capacity
- Perforated insert useable as storage area
- Guard rail system
- Bottom collecting sump
- Tray shelves with load capacity of 50 kg
- Sump inliner (PP)

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



Extraction unit with exhaust air monitoring
Safe ventilation of safety storage cabinets

Plug-in – fast and easy to install

Order No. 14220 2

Recirculating air filter system

Avoid complex wall breakthroughs and expensive extraction piping

Order No. 25099 2

Safety storage cabinet
V-MOVE-90 model V90.196.045.VDAC:0013
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 4
(Guard rail system optional)

Safety storage cabinet
V-MOVE-90 model V90.196.045.VDAC:0012
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 4
(Guard rail system optional)

Available colours:

001 005 040 041 046 047 051

Order example - how to order correctly

35034 – 001 – 35101

UNICOLOUR

Model	Information / Interior	Order No.
V90.196.045.VDAC:0012	Without interior equipment, with vertical drawer and automatic door closing	35034

Body colour	Colour vertical drawer	Order No.
Light grey RAL 7035	Light grey RAL 7035	001 4
Pure white RAL 9010	Pure white RAL 9010	005 4

BI-COLOUR

Model	Information / Interior	Order No.
V90.196.045.VDAC:0013	Without interior equipment, with vertical drawer and automatic door closing	35085

Body colour	Colour vertical drawer	Order No.
Anthracite grey RAL 7016	Warning yellow RAL 1004	040 4
Anthracite grey RAL 7016	Light grey RAL 7035	041 4
Anthracite grey RAL 7016	Traffic red RAL 3020	046 4
Anthracite grey RAL 7016	Gentian blue RAL 5010	047 4
Anthracite grey RAL 7016	Stainless steel	051 4

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
4x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5 L)	Sheet steel powder-coated RAL 7035	35100 2
5x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5 L)	Sheet steel powder-coated RAL 7035	35101 2
4x tray shelf (V=6.0 L), 1x perforated insert, 1x bottom collecting sump (V=12.5 L)	Sheet steel powder-coated RAL 7035	36111 2
5x tray shelf (V=6.0 L), 1x perforated insert, 1x bottom collecting sump (V=12.5 L)	Sheet steel powder-coated RAL 7035	36112 2

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, with vertical drawer and automatic door closing	449 x 860 x 1966	35034

Body colour	Colour vertical drawer	Order No.
Light grey RAL 7035	Light grey RAL 7035	001 4
Pure white RAL 9010	Pure white RAL 9010	005 4

BI-COLOUR

Model	Information / Interior	W x D x H	Order No.
V90.196.045.VDAC:0013	Without interior equipment, with vertical drawer and automatic door closing	449 x 860 x 1966	35085

Body colour	Colour vertical drawer	Order No.
Anthracite grey RAL 7016	Warning yellow RAL 1004	040 4
Anthracite grey RAL 7016	Light grey RAL 7035	041 4
Anthracite grey RAL 7016	Traffic red RAL 3020	046 4
Anthracite grey RAL 7016	Gentian blue RAL 5010	047 4
Anthracite grey RAL 7016	Stainless steel	051 4

Interior equipment	Material	W x D x H (mm)	1)	2)	3)	Order No.
Shelf	Sheet steel powder-coated RAL 7035	316 x 716 x 21*	50,00			35097 2
Tray shelf	Sheet steel powder-coated RAL 7035	316 x 716 x 28*	50,00	6,00	5,45	35978 2
Perforated insert	Sheet steel powder-coated RAL 7035	310 x 713 x 60	50,00			35098 2
Bottom collecting sump	Sheet steel powder-coated RAL 7035	315 x 718 x 80*		12,5	36	33524 2
Guard rail system (set for one shelf)	Sheet steel powder-coated RAL 7035					35099 2
Anti-slip rubber mat, for shelf	Black	305 x 705 x 2				33575 2
Sump inliner, for tray shelf	PP	310 x 700 x 30		5,50	5,00	36355 2

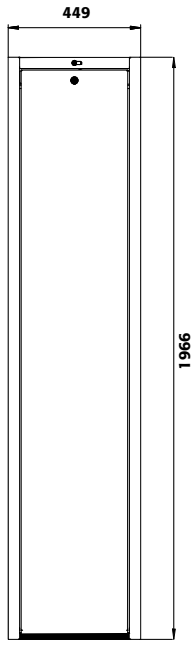
Accessories	Order No.
Recirculating air filter system with exhaust air monitoring	25099 2
Extraction unit with exhaust air monitoring	14220 2
Extraction unit without exhaust air monitoring	14218 2

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

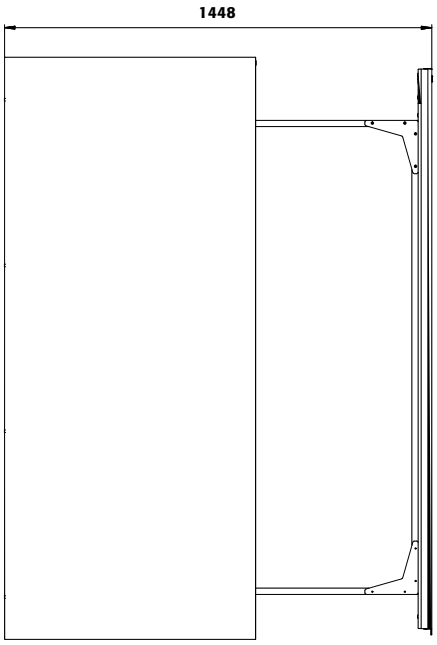
asecos

Ready for dispatch within
X days X weeks

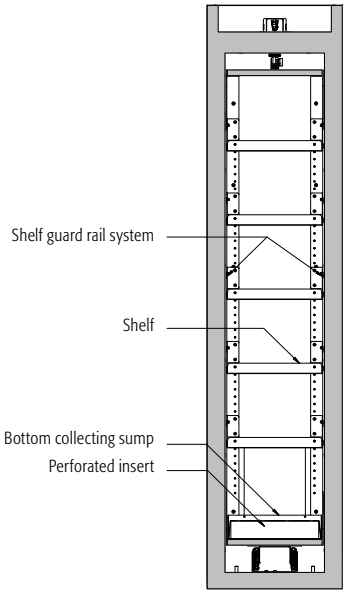
Front view



Side view

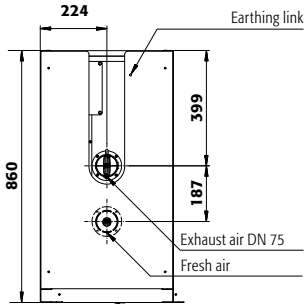


Selectional view

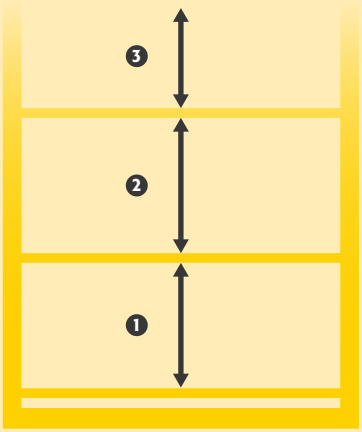


Technical data		**V90.196.045.VDAC**
External dimensions W x D x H	mm	449 x 860 x 1966
Internal dimensions W x D x H	mm	331 x 775 x 1750
Weight without interior equip.	kg	344
Air change **10x**	m³/h	5
Diff. pressure (air change **10x**)	Pa	5
Diff. pressure (air change **10x** - **EK5/AK4**)	Pa	5
Maximum load	kg	120
Distributed load	kg/m²	580
Power consump. in standby mode	W	0,5
Power consump. in operation	W	50
Nominal voltage	V	85-265
Max. current consumption	A	0,5

Top view



V90.196.045.VDAC **Shelves/number**			**Standard storage heights of the shelves** **5**	**4**
Distance	❻	(mm)	250	
Distance	❺	(mm)	248	300
Distance	❹	(mm)	248	298
Distance	❸	(mm)	248	298
Distance	❷	(mm)	248	298
Distance	❶	(mm)	245	295



V90.196.045.VDAC **Quantity**	**Storage capacities per shelf/type of container** **Type of container**	**Container size**
46	Aerosol cans	400 ml
21	Laboratory glass bottles	1 litre
8	Laboratory glass bottles	2,5 litre

Safety storage cabinet
V-MOVE-90 model V90.196.081.VDACC:0012
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 4
(Guard rail system optional)

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 automatic door 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

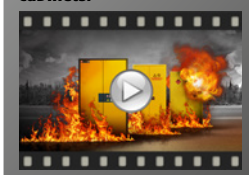
Available equipment:

- Anti slip rubber mats
- Shelves with 50 kg load capacity
- Perforated insert useable as storage area
- Guard rail system
- Bottom collecting sump
- Tray shelves with load capacity of 50 kg
- Sump inliner (PP)

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 **video compares** the **perfomance** of the three most common types of **safety storage cabinets.**



Extraction unit with exhaust air monitoring
Safe ventilation of safety storage cabinets

Plug-in – fast and easy to install

Order No. 14220 2

Recirculating air filter system
Avoid complex wall breakthroughs and expensive extraction piping

Order No. 25099 2

Safety storage cabinet
V-MOVE-90 model V90.196.081.VDAC:0013
Body colour Anthracite grey (RAL 7016), front of vertical drawers made of stainless steel, interior equipment with 9x shelf, 2x perforated insert, 2x bottom collecting sump (sheet steel powder-coated)
Order No. 35086-051-35104 4
(Guard rail system optional)

Safety storage cabinet
V-MOVE-90 model V90.196.081.VDAC:0012
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 4
(Guard rail system optional)

Available colours:

001 005 040 041 046 047 051

Order example - how to order correctly

35035 – 001 – 35103

UNICOLOUR

Model	Information / Interior equipment	Order No.
V90.196.081.VDAC:0012	Body without interior equipment, with vertical drawers and automatic door closing	35035

Body colour	Colour vertical drawers	Order No.
Light grey RAL 7035	Light grey RAL 7035	001 4
Pure white RAL 9010	Pure white RAL 9010	005 4

BI-COLOUR

Model	Information / Interior equipment	Order No.
V90.196.081.VDAC:0013	Body without interior equipment, with vertical drawers and automatic door closing	35086

Body colour	Colour vertical drawers	Order No.
Anthracite grey RAL 7016	Warning yellow RAL 1004	040 4
Anthracite grey RAL 7016	Light grey RAL 7035	041 4
Anthracite grey RAL 7016	Traffic red RAL 3020	046 4
Anthracite grey RAL 7016	Gentian blue RAL 5010	047 4
Anthracite grey RAL 7016	Stainless steel	051 4

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
left: 4x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5 L) right: 4x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5 L)	Sheet steel powder-coated RAL 7035	35102 2
left: 5x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5 L) right: 5x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5 L)	Sheet steel powder-coated RAL 7035	35103 2
left: 4x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5 L) right: 5x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5 L)	Sheet steel powder-coated RAL 7035	35104 2
left: 4x tray shelf (V=6.0 L), 1x perforated insert, 1x bottom collecting sump (V=12.5 L) right: 4x tray shelf (V=6.0 L), 1x perforated insert, 1x bottom collecting sump (V=12.5 L)	Sheet steel powder-coated RAL 7035	36113 2
left: 4x tray shelf (V=6.0 L), 1x perforated insert, 1x bottom collecting sump (V=12.5 L) right: 5x tray shelf (V=6.0 L), 1x perforated insert, 1x bottom collecting sump (V=12.5 L)	Sheet steel powder-coated RAL 7035	36114 2
left: 5x tray shelf (V=6.0 L), 1x perforated insert, 1x bottom collecting sump (V=12.5 L) right: 5x tray shelf (V=6.0 L), 1x perforated insert, 1x bottom collecting sump (V=12.5 L)	Sheet steel powder-coated RAL 7035	36115 2

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, with vertical drawers and automatic door closing	819 x 860 x 1966	35035

Body colour	Colour vertical drawers	Order No.
Light grey RAL 7035	Light grey RAL 7035	001 4
Pure white RAL 9010	Pure white RAL 9010	005 4

BI-COLOUR

Model	Information / Interior	W x D x H	Order No.
V90.196.081:0013	Without interior equipment, with vertical drawers and automatic door closing	819 x 860 x 1966	35086

Body colour	Colour vertical drawers	Order No.
Anthracite grey RAL 7016	Warning yellow RAL 1004	040 4
Anthracite grey RAL 7016	Light grey RAL 7035	041 4
Anthracite grey RAL 7016	Traffic red RAL 3020	046 4
Anthracite grey RAL 7016	Gentian blue RAL 5010	047 4
Anthracite grey RAL 7016	Stainless steel	051 4

Interior equipment	Material	W x D x H (mm)	1)	2)	3)	Order No.
Shelf	Sheet steel powder-coated RAL 7035	316 x 716 x 21*	50,00			35097 2
Tray shelf	Sheet steel powder-coated RAL 7035	316 x 716 x 28*	50,00	6,00	5,45	35978 2
Perforated insert	Sheet steel powder-coated RAL 7035	310 x 713 x 60	50,00			35098 2
Bottom collecting sump	Sheet steel powder-coated RAL 7035	315 x 718 x 80*		12,5	36	33524 2
Guard rail system (set for one shelf)	Sheet steel powder-coated RAL 7035					35099 2
Anti-slip rubber mat, for shelf	Black	305 x 705 x 2				33575 2
Sump inliner, for tray shelf	PP	310 x 700 x 30		5,50	5,00	36355 2

Accessories	Order No.
Recirculating air filter system with exhaust air monitoring	25099 2
Extraction unit with exhaust air monitoring	14220 2
Extraction unit without exhaust air monitoring	14218 2

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

Ready for dispatch within
X days X weeks

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 amaximum of 5 years for your safety storage cabinet according to EN 14470. Detailed information upon request.

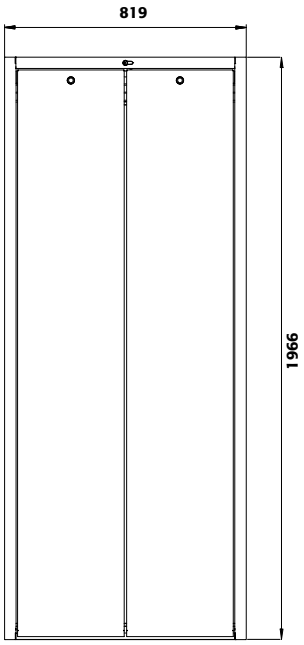
* Upon conclusion of an asecos service and maintenance agreement (PREMIUM tariff), you will get a warranty extension for up to 10 years for your Q-LINE or V-LINE safety storage cabinet. Detailed information upon request.

ICONS Safety storage cabinets - Features

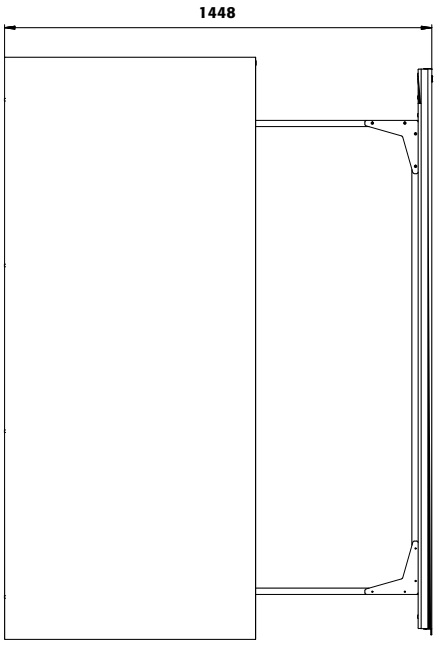
Type · CE declaration · asecos warranty · Width · Height · Vertical drawer(s) · Electronic opening and closing

Automatic door closing · Profile cylinder with locking state indicator · Adjusting aids · Shelf · Technical ventilation available

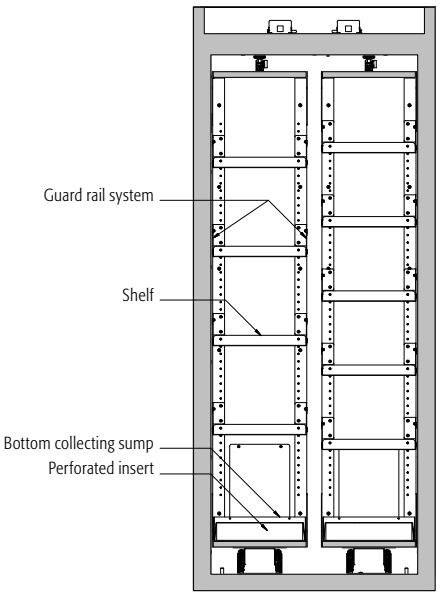
Front view



Side view

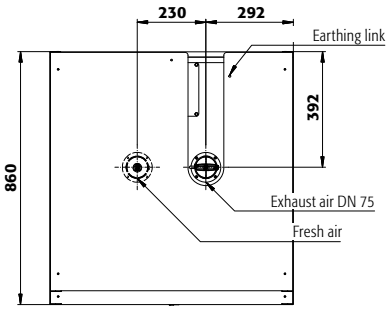


Selectional view

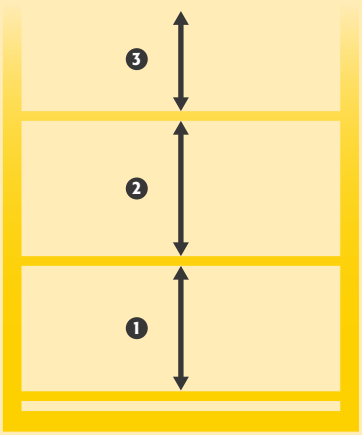


Technical data		**V90.196.081.VDAC**
External dimensions W x D x H	mm	819 x 860 x 1966
Internal dimensions W x D x H	mm	701 x 775 x 1750
Weight without interior equip.	kg	500
Air change **10x**	m³/h	9
Diff. pressure (air change **10x**)	Pa	5
Diff. pressure (air change **10x** - **EK5/AK4**)	Pa	5
Maximum load	kg	240
Distributed load	kg/m²	512
Power consump. in standby mode	W	0,5
Power consump. in operation	W	50
Nominal voltage	V	85-265
Max. current consumption	A	0,5

Top view



V90.196.081.VDAC **Shelves/number**		**Standard storage heights of the shelves** **5**	**4**
Distance	❻ (mm)	250	
Distance	❺ (mm)	248	300
Distance	❹ (mm)	248	298
Distance	❸ (mm)	248	298
Distance	❷ (mm)	248	298
Distance	❶ (mm)	245	295



V90.196.081.VDAC **Quantity**	**Storage capacities per shelf/type of container** **Type of container**	**Container size**
46	Aerosol cans	400 ml
21	Laboratory glass bottles	1 litre
8	Laboratory glass bottles	2,5 litre

Contact.

HUBERLAB.
committed to science

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