

V-LINE

The new formula for the storage of hazardous materials

asecos[®]



» 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

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.



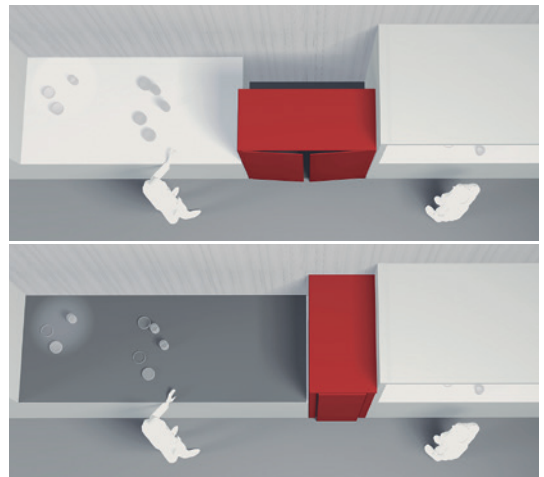
Electronic opening and closing

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 mm.

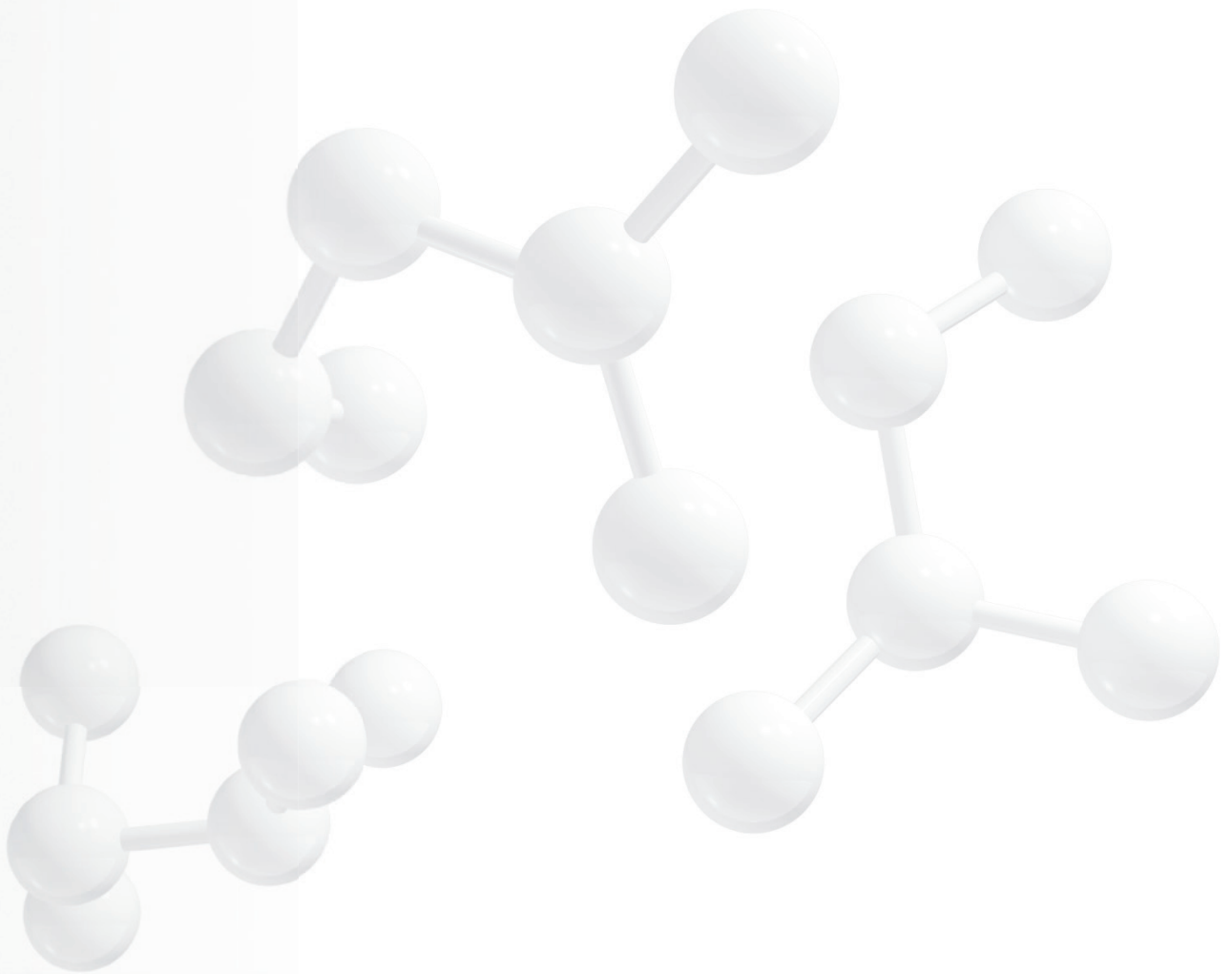


Application example - industry





**OVERVIEW
ORDER INFORMATION
TECHNICAL DATA**



V-LINE | V-MOVE-90

Safety storage cabinets for unrestricted storage of flammable hazardous materials in work areas in accordance with EN 14470-1 and TRGS 510

1

Optimum integration and use of space

With a depth of 86 cm, V-LINE cabinets now use the space next to laboratory fume cupboards and work benches that conventional hazardous material cabinets have left unused.



2

Maximum comfort

The vertical drawer technology allows access and visibility to all stored containers from both sides.



3

Innovative technology

At the push of a button the vertical drawers open and close automatically. The drawers glide softly and quietly out of and into the cabinet body, without additional physical efforts. The stop function of the vertical drawers detects resistances and eliminates the risk of being trapped.



4

Modern colour design

Bi-colour design – choice of 5 door colours for the scratch proof surface. Unicolour design – choice of 2 colours for the powder-coated surface.



5

No unauthorised use

Doors lockable with cylinder lock; the cabinets can be integrated by the customer in an existing master key system. Locking status indicator (red/green) signals the locking status of the cabinet.



6

Technical ventilation

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



7

Guard rail system

For shelves as additional tilt protection for stored containers (optional).





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



- **GS-tested** (document EK5/AK4 09-10, ProdSG)
- **50,000** wear-free opening and closing actions
- Test basis: all cabinets of this model group correspond to the requirements of the Product Safety Act (§21 Para. 1) with respect to the guarantee of safety and health



- 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 10 years** in combination with an asecos service tariff



V-LINE | V-MOVE-90



Model V90.196.081.VDAC:0012
Order No. 35035-001-35103



Model V90.196.081.VDAC:0013
Order No. 35086-051-35104






Model V90.196.081.VDAC:0012
Order No. 35035-005-35102

Technical data

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 10 times	m ³ /h	9
Diff. pressure (air change 10 times EK5/AK4)	Pa	5
Max. load of drawers	kg	140
Power consump. in operation	W	50
Power consump. in standby mode	W	0,5
Nominal voltage	V	85-265




Main features

-  Space-saving design with high storage volume
-  Electronic vertical drawers for maximum ease of use
-  Clear storage

Model	Body colour	Door colour	Order No.
V90.196.081.VDAC:0013	anthracite grey RAL 7016	warning yellow RAL 1004	35086-040
		light grey RAL 7035	35086-041
		traffic red RAL 3020	35086-046
		gentian blue RAL 5010	35086-047
		stainless steel	35086-051
V90.196.081.VDAC:0012	light grey RAL 7035	light grey RAL 7035	35035-001
	laboratory white (sim. RAL 9016)	laboratory white (sim. RAL 9016)	35035-005

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=12.5L) Right: 4x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5L)	sheet steel powder-coated RAL 7035	35102
Left: 5x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5L) Right: 5x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5L)	sheet steel powder-coated RAL 7035	35103
Left: 4x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5L) Right: 5x shelf, 1x perforated insert, 1x bottom collecting sump (V=12.5L)	sheet steel powder-coated RAL 7035	35104
Left: 4x tray shelf (V=6.0L), 1x bottom collecting sump (V=12.5L) Right: 4x tray shelf (V=6.0L), 1x bottom collecting sump (V=12.5L)	sheet steel powder-coated RAL 7035	36113
Left: 4x tray shelf (V=6.0L), 1x bottom collecting sump (V=12.5L) Right: 5x tray shelf (V=6.0L), 1x bottom collecting sump (V=12.5L)	sheet steel powder-coated RAL 7035	36114
Left: 5x tray shelf (V=6.0L), 1x bottom collecting sump (V=12.5L) Right: 5x tray shelf (V=6.0L), 1x bottom collecting sump (V=12.5L)	sheet steel powder-coated RAL 7035	36115

Accessories for these cabinet models:

Accessories	Material	W x D x H (mm)	Order No.
 Shelf guard rail system set for 1 shelf	sheet steel powder-coated RAL 7035	40 x 719 x 80	35099
 Sump inliner for tray shelf	PP	310 x 700 x 30	36355
 Anti-slip rubber mat	grey	305 x 705 x 2	33575

Ventilation	Order No.
Extraction unit with exhaust air monitoring	14220
Extraction unit without exhaust air monitoring	14218
Recirculating air filter system with exhaust air monitoring for tall and underbench cabinets	39306

Can't find a suitable interior equipment package for your application?
Contact us by phone at +49 6051 9220-0 or by e-mail at
info@asecos.com – together with our experts you will find the right solution.

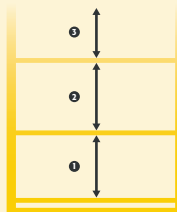
V90.196.081.VDAC

Shelves/number 5 4

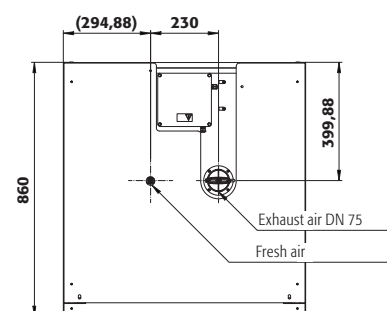
Distance	6	(mm)	
Distance	5	(mm)	260
Distance	4	(mm)	285 290
Distance	3	(mm)	250 380
Distance	2	(mm)	250 285
Distance	1	(mm)	250 285

Storage capacities per drawer/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 litres



Top view



STAINLESS STEEL DOOR FRONT

V-LINE cabinets are available with high-quality stainless steel door fronts — ideal when maximum durability of the surface is required.



GUARD RAIL SYSTEM

Additional tilt protection for stored containers

Capture and filter hydrocarbon vapours with our recirculating air filter unit.

Benefit from the reliable technical ventilation of your safety storage cabinets without the need for complex connections to exhaust air ducts.



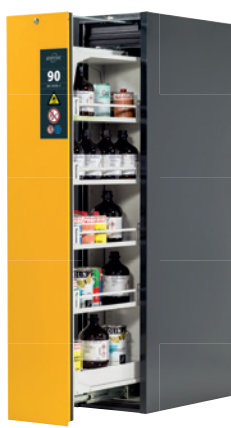
SAFETY STORAGE CABINETS ONLY PROVIDE RELIABLE PROTECTION ...

... for humankind, environment and property when they are maintained professionally! With the **asecos services** you are always on the safe side.

V-LINE | V-MOVE-90



Model V90.196.045.VDAC:0012
Order No. 35034-001-35101



Model V90.196.045.VDAC:0013
Order No. 35085-040-35100






Model V90.196.045.VDAC:0012
Order No. 35034-005-35101

Technical data


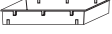

External dimensions W x D x H	mm	449 x 860 x 1966
Internal dimensions W x D x H	mm	331 x 775 x 1750
Weight without interior equip.	kg	344
Air change 10 times	m ³ /h	5
Diff. pressure (air change 10 times EK5/AK4)	Pa	5
Max. load of drawers	kg	140
Power consump. in operation	W	50
Power consump. in standby mode	W	0,5
Nominal voltage	V	85-265

Main features

-  Space-saving design with high storage volume
-  Electronic vertical drawers for maximum ease of use
-  Clear storage

Model	Body colour	Door colour	Order No.
V90.196.045.VDAC:0013	anthracite grey RAL 7016	warning yellow RAL 1004	35085-040
		light grey RAL 7035	35085-041
		traffic red RAL 3020	35085-046
		gentian blue RAL 5010	35085-047
		stainless steel	35085-051
V90.196.045.VDAC:0012	light grey RAL 7035	light grey RAL 7035	35034-001
	laboratory white (sim. RAL 9016)	laboratory white (sim. RAL 9016)	35034-005
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=12.5L]		sheet steel powder-coated RAL 7035	35100
5x shelf, 1x perforated insert, 1x bottom collecting sump [V=12.5L]		sheet steel powder-coated RAL 7035	35101
4x tray shelf [V=6.0L], 1x bottom collecting sump [V=12.5L]		sheet steel powder-coated RAL 7035	36111
5x tray shelf [V=6.0L], 1x bottom collecting sump [V=12.5L]		sheet steel powder-coated RAL 7035	36112

Accessories for these cabinet models:

Accessories	Material	W x D x H (mm)	Order No.
 Shelf guard rail system set for 1 shelf	sheet steel powder-coated RAL 7035	40 x 719 x 80	35099
 Sump inliner for tray shelf	PP	310 x 700 x 30	36355
 Anti-slip rubber mat	grey	305 x 705 x 2	33575

Ventilation	Order No.
Extraction unit with exhaust air monitoring	14220
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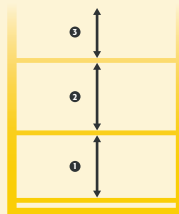
V90.196.045.VDAC

Shelves/number

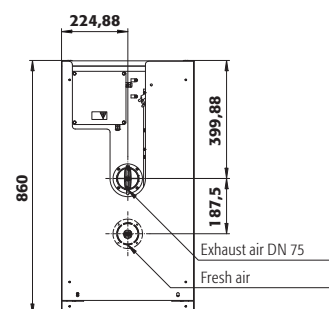
	5	4
Distance ⑥ (mm)		
Distance ⑤ (mm)	260	
Distance ④ (mm)	285	290
Distance ③ (mm)	250	380
Distance ② (mm)	250	285
Distance ① (mm)	250	285

Storage capacities per drawer/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 litres



Top view



STAINLESS STEEL DOOR FRONT

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THE ASECOS HAZMAT GUIDE

... we have collected the most important information on storing and handling hazardous materials safely.

Order your free copy now: www.asecos.global

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