

EN

EP.V.35384.01 | 08.2024

asecos®



USER MANUAL

Safety storage cabinets according to EN 14470-1

10 YEARS WARRANTY

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





V-CLASSIC-90



V90.196.060.MV.2VD:0012



asecos GmbH
Customer service
Weierfeldsiedlung 16–18
D-63584 Gründau

Fax: +49 60 51 - 92 20-10
email: service asecos.com

YOUR PERSONAL DOCUMENTATION TO THE asecos SAFETY CABINET

Dear Customer,

you have made a decisive investment in safety for your company by purchasing this asecos safety storage cabinet. You now own an innovative product made of top-quality materials guaranteeing the highest quality standards.

asecos safety storage cabinets have complete authorisation documents. We archive the authorisation documents for every individual cabinet, keeping them ready for you should you ever need them (e.g. for a works inspection or similar). Simply request them using this form.

Tear of or copy that page and return to us by fax with your address and serial number of the cabinet on it.

Yours sincerely
asecos GmbH

Contact

Company		
<input type="text"/>		
Street	Postal code	Town
<input type="text"/>	<input type="text"/>	<input type="text"/>
Name of contact person		
<input type="text"/>		
email	Phone No.	
<input type="text"/>	<input type="text"/>	
Serial numbers of safety storage cabinets		
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
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OPERATING INSTRUCTIONS

Dear customer,

Thank you very much for purchasing a safety storage cabinet from our company, with which you have made a decisive investment in the safety within your company. Our safety storage cabinets make the storage of hazardous materials at the workplace safe and convenient for you.

Please read these operating instructions very carefully. Get to know the advantages and simple operability of our safety storage cabinets in detail. This simplifies the daily handling of hazardous materials for you.

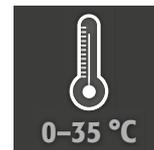
Many thanks
Your asecos team

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1.1. GENERAL SAFETY NOTES

- Observe applicable statutes and regulations, and the notes in these operating instructions, when handling hazardous materials
- Work on the electrical system is to be carried out only with the power turned off and only by qualified electricians – refer here to the regulations of the local electricity supply company.
- The on-site installation conditions are to be observed (e.g. bolting the cabinets to the building).
- The instructions of the supervisory engineering department must be followed.
- Observe accident prevention regulations and workplace ordinance
- **Ensure that the necessary safety checks are only carried out by authorised staff using original spare parts**
- Only use the cabinet after having been properly instructed; access is to be forbidden to unauthorised persons.
- The pivoting area of the doors is to be kept free at all times; doors/drawers are to be kept closed
- By assigning trained/authorised technical personnel you can prevent the malfunctions, damage and corrosion damage that result from inappropriate transport.
- Observe the upper limits for stored quantities, loading etc.
- Containers with a volume larger than that of the bottom collecting sump may not be placed inside the cabinet; spilt hazardous materials are to be collected immediately and removed
- The cabinet is used exclusively for the storage of hazardous substances. Other activities in the cabinet, e.g. decanting, removal from containers, cleaning of containers, sampling, must not be carried out. The placed, mobile containers must not show any wetting / contamination on the outside.
- Before storing such materials, check that the cabinet's surface is resistant to the chemicals.
- Before the initial commissioning, the safety storage cabinet is to be examined by the user for possible damage.

Set-up requirements



1.2. GUARANTEE

The guarantee for this product is agreed between you (the customer) and your dealer (the seller). As the manufacturer, asecos guarantees the products listed in the operating instructions for a period of 24 months from the date of delivery. All model safety equipment are subject to a compulsory annual inspection by specialised staff authorised by the manufacturer. Otherwise the customer's guarantee claim against the manufacturer expires. Please note that the warranty is also void if holes are drilled or modifications are made without consulting the manufacturer asecos.

1.3. CABINET DETAILS

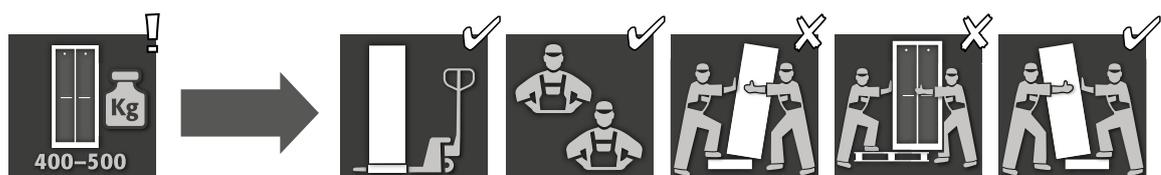
A complete overview of the models can be found at the start of the operating instructions.
Development: asecos GmbH Sicherheit und Umweltschutz, D-63584 Gründau.

Cabinet data: logbook (included with the cabinet)
Technical drawing: see appendix
Technical data: table in appendix

V-CLASSIC-90

This model is tested, certified and marked according to requirements of EN 14470-1. It is intended for the storage of flammable liquids and toxic and aggressive hazardous materials in work rooms in accordance with the valid national regulations.

2. TRANSPORT





CAUTION:

Transport the cabinet in an upright position on a pallet truck, tied and secured against slipping, until the final place of installation is reached. The transport locks in the door joints may only be removed directly at the place of installation! Inappropriate transport can lead to concealed damage to the fire protection insulation! We can only guarantee the necessary quality if the cabinet is transported to the place of its use by our specially trained staff.



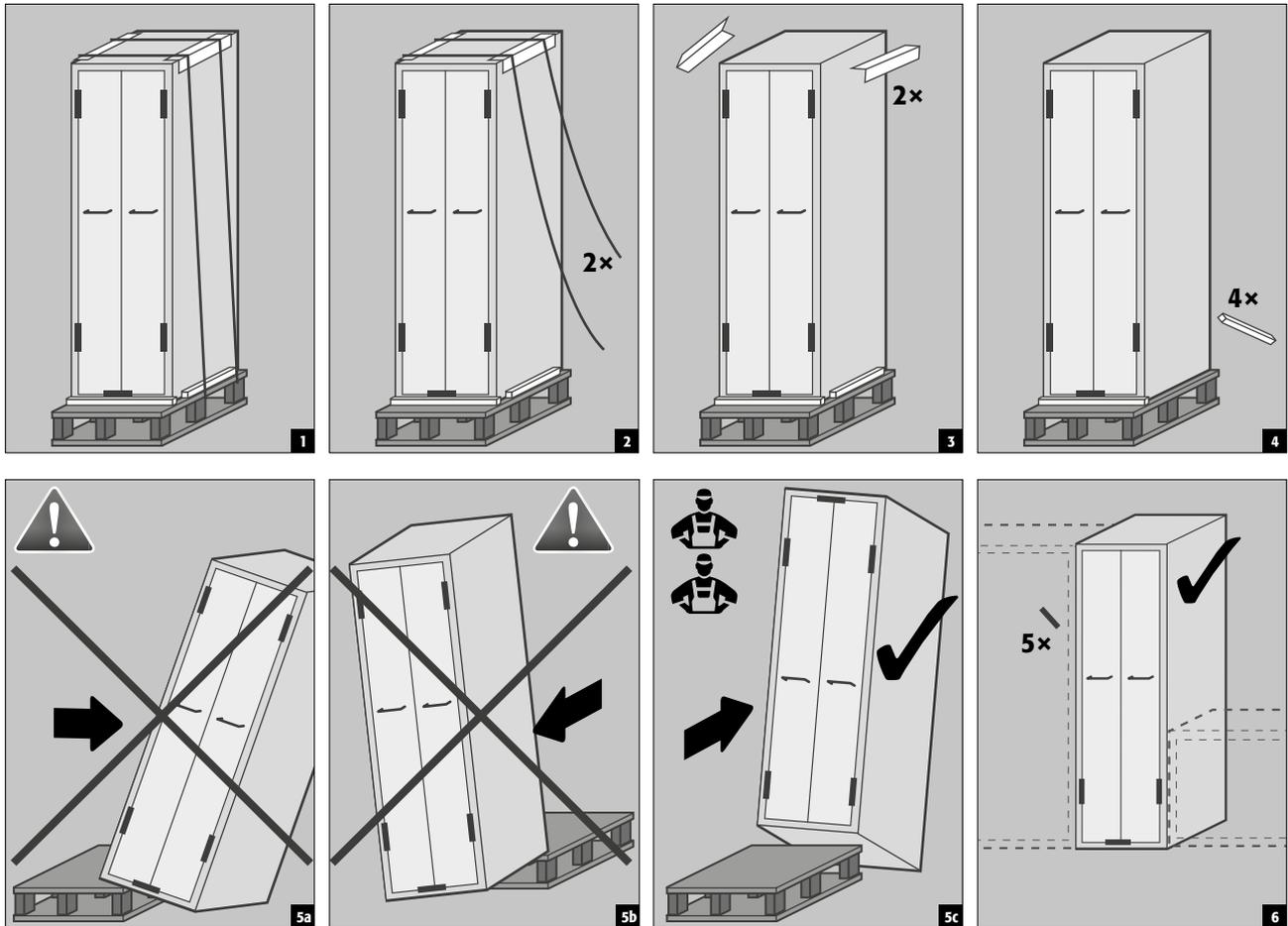
CAUTION:

The cabinet must not be moved by pulling the opened drawer! Pulling or sliding may only be carried out in the body housing!

2.1. TILTING THE CABINET



2.2. DISMANTLING OF THE TRANSPORT PACKAGING

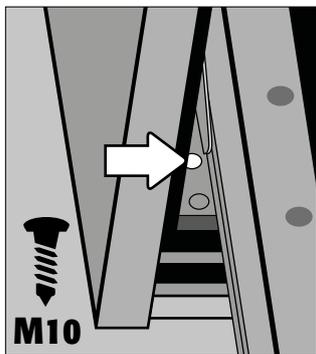


2.3. IN-PLANT TRANSPORT



CAUTION:

The cabinet must not be moved by pulling the opened drawer! Pulling or sliding may only be carried out in the body housing!



Steps for manoeuvring the cabinet:

- Open the drawer of the cabinet
- Connect the belts with steel angles or steel rings using a screw M10
- Screw the steel angles/rings into the threaded insert in the base of the cabinet
- Move the cabinet carefully using the belts

3. ERECTION - COMMISSIONING - FUNCTION

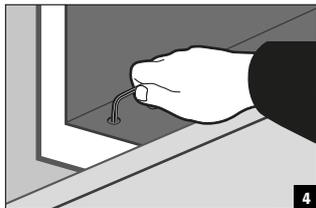
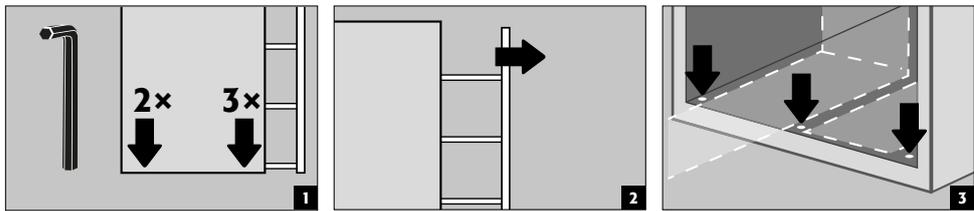
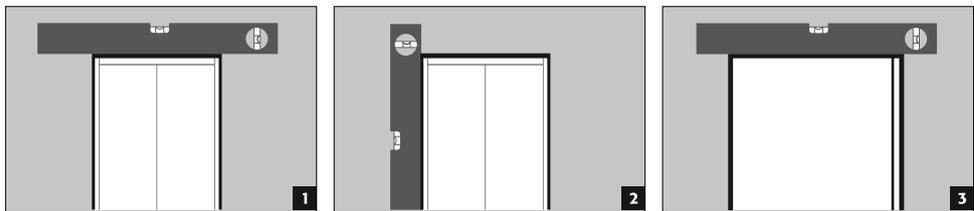
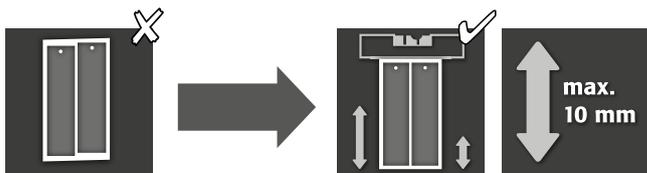
3.1. COMMISSIONING

- Before putting into operation for the first time, the user must carry out an examination of the safety storage cabinet for possible damage, such as defective or loose sealing elements, correct alignment and perfect functioning of the door elements.
Use the cabinet and accessories only if they are in an orderly condition.

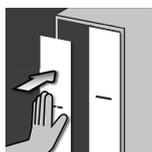
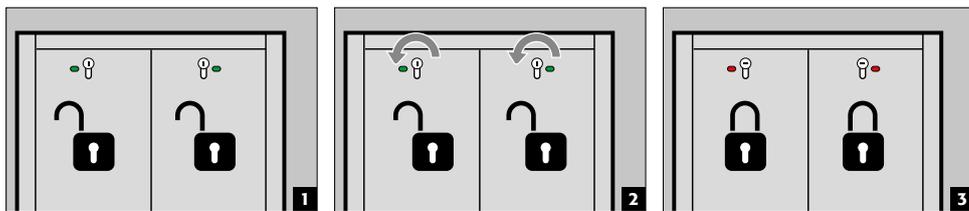
3.2. ALIGNMENT OF THE CABINETS



After opening the drawer, the cabinet can be aligned using the integrated adjusting aids.



4. CLOSING

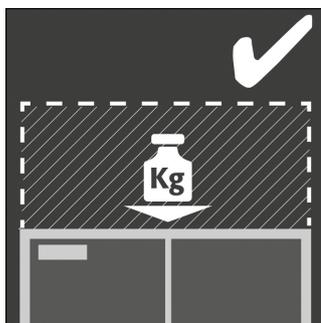


Standard operation:
vertical drawers must be opened and closed manually



Event of fire: Thermal release, open vertical drawers close automatically

5. SURCHARGE (TOP-MOUNTED CABINET)



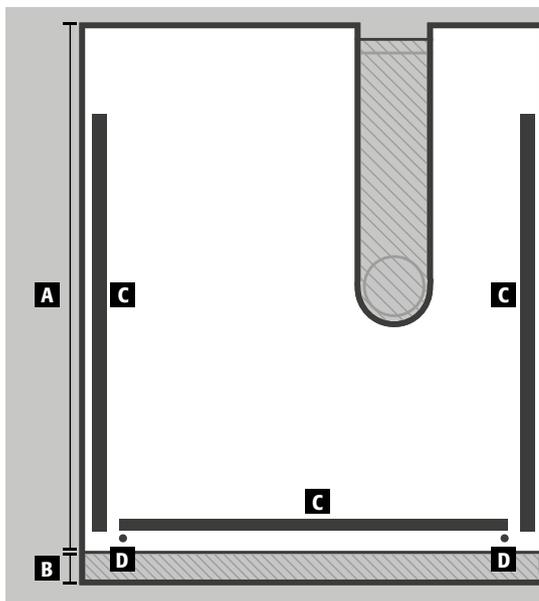
The V-LINE safety storage cabinets can be loaded if the cabinet was ordered with article HFL.34938 (order no. 40405). These cabinets are then structurally adjusted at the factory and additionally marked on the outside as load-bearing.

A head section rear

B head section front

C magnetic tape

D fixation points for screw M6



CAUTION:
Only the fixation points [D] shown in the drawing must be used!

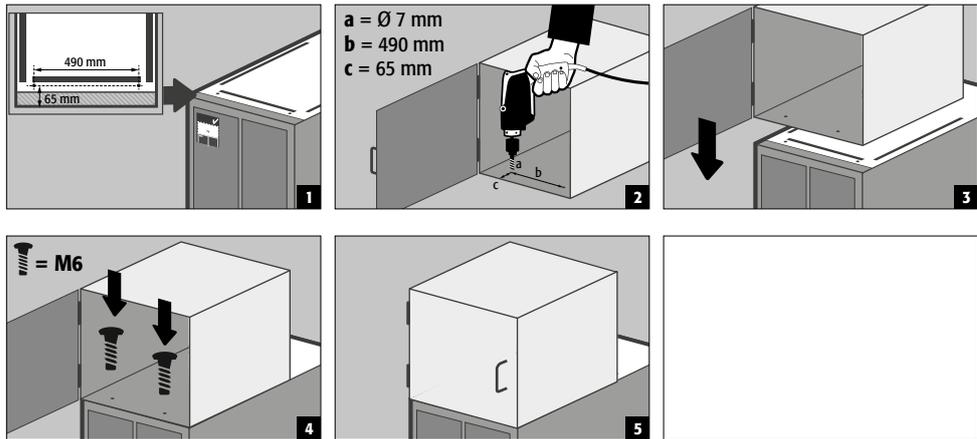
Other fixation points or fixation types (e.g. silicone) are not permitted!

- The magnetic tape mounted on the headboard serves as a support surface for the top cabinet and can be cut to size if required.



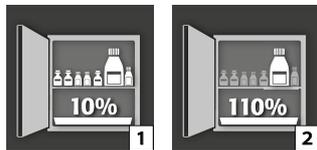
CAUTION:
The magnetic tape may only be attached to the rear head section!

5.1. ASSEMBLY OF THE ATTACHED CABINET



6. INTERIOR FITTINGS

6.1. BOTTOM COLLECTING SUMP



In accordance with EN 14470-1:2023-09 (point 5.7):

A bottom collecting sump/drawer tray must be installed below the lowest centre level. The bottom collecting sump/drawer tray must have a minimum collection volume of 10 % of all containers stored in the cabinet [1], or at least 110 % of the volume of the largest individual container [2], whichever is greater.

In principle, the bottom collecting sump/drawer tray must not be used as a storage surface. If the bottom collecting sump/drawer tray is used directly as a storage area and is therefore also the lowest storage level, the user must ensure that the minimum collection volume of all stored containers or the volume of the largest container is guaranteed.

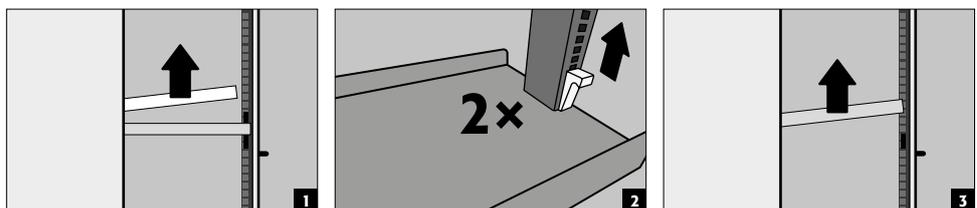
The information on the type plate of the safety storage cabinet regarding the collection volume and the max. largest container represent the values if the bottom collecting sump/drawer tray is not used as a storage surface.

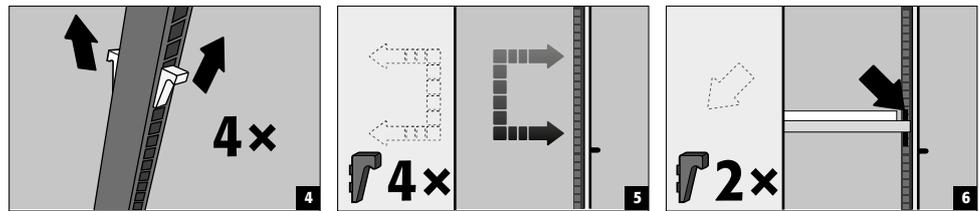
Leaks:

- Liquid in the sump is to be collected using suitable means.

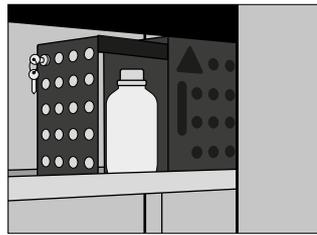


6.2. TRAY SHELVES (HEIGHT-ADJUSTABLE)



**NOTE**

The tray floor is also available as a separating floor. With side seals, it offers the possibility of separate storage of different hazardous substances within the vertical drawer. It is also height-adjustable without tools.

6.3. TRAY SHELF WITH STORAGE BOX

The storage box is used for storing hazardous substances that are to be kept separately under lock and key in the cabinet. The storage box is factory-fitted in the left-hand vertical drawer in the uppermost position in conjunction with the tray base and firmly screwed to the frame of the vertical drawer.

7. STORAGE

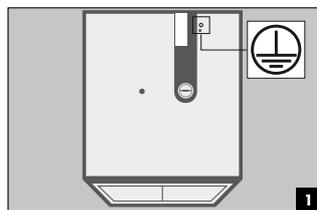
- The storage of corrosive liquids can affect the function of the shut-off equipment for the air supply and exhaust.
- Each container placed inside reduces the minimum containment volume in relation to the total stored quantity.



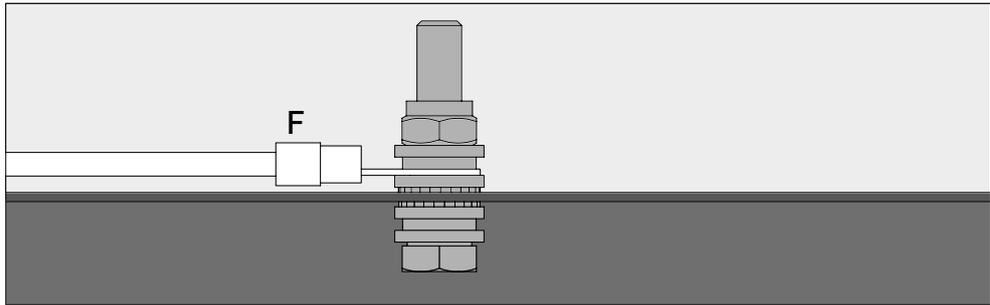
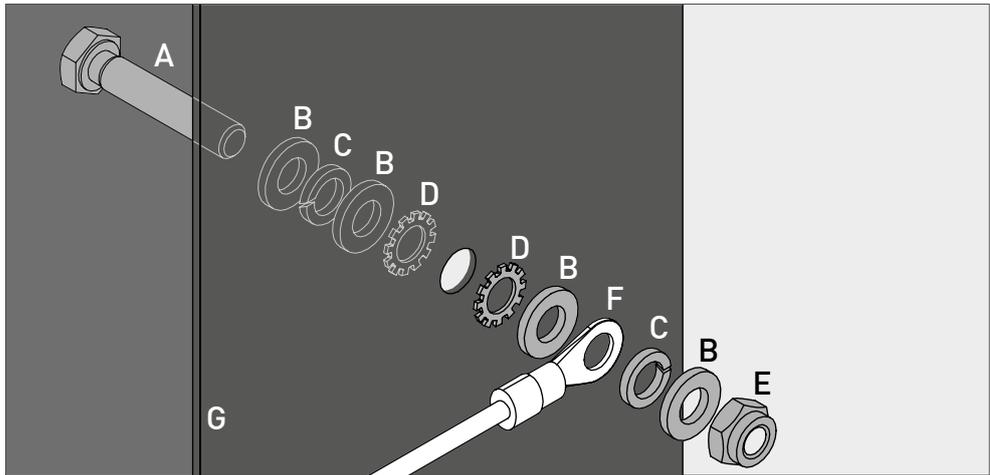
Applicable for all models: Depending on the type class of the cabinet, observe the respective valid national regulations!

8. EARTHING

An earth connection may be necessary, depending on the customer-specific use of the safety storage cabinet. The decision regarding this is taken on the basis of a risk analysis by the customer.

**8.1. GROUND CONNECTION**

All models have an earthing connection. The cabinet body (side and top panels) is metallically conductively connected to each other via the earthing connection. The earthing connection is prepared for the creation of the potential equalisation on site. It is enclosed with the product and must be mounted on site at the appropriate location on the headboard



Legende	
A 1 × screw M6×30	E 1 × nut with clamping part
B 4 × washer Ø 6,4	F earthing wire with ring cable lug (on-site connection)
C 2 × spring washer Ø 6,4	G metal part of the safety storage cabinet
D 2 × serrated lock washer Ø 6,4	

9. VENTILATION



CAUTION
The fire protection valves near the supply and extraction air connections are safety and maintenance-relevant components.
 In order to check the correct operation or to replace a defective element, please ensure that flexible connecting hoses or sliding pieces are used to connect to an extraction system in order to ensure simple dismantling and re-mounting of the extraction air connection.

- All models can be connected to a technical exhaust system via the exhaust connector. Please see the respectively applicable national regulations for the specified air recirculation rate, maximum pressure losses and exhaust air ducts.
- If installed on an exhaust system, a check must be carried out to ensure proper connection to the system (e.g. using a smoke tube)

10. FIRE - DISPOSAL

10.1. OPENING THE CABINET AFTER THE FIRE



**CAUTION:**

Depending upon the duration of the fire an ignitable vapour/air mixture may have formed; therefore remove all sources of ignition within a 10 metre radius of the cabinet before opening it.

- use only spark-free tools
- open the cabinets with extreme caution

10.2. DISPOSAL

The models can be disposed of once they have been dismantled and the materials sorted.

11. SAFETY CHECKS**11.1. IN GENERAL**

As safety equipment the cabinets have to be checked for safety at least once per year. The next checking date can be taken from the service sticker on the outside of the door. This annual check can be carried out with the necessary care, and for securing your warranty claims in the case of fire, only by an authorised asecos employee (refer also to our service brochure regarding this).

In addition, we recommend that you carry out a daily and monthly functional check:

Daily functional check

- applies to the spill containment sumps (collect and remove any leakages)

Monthly functional check

- perfect function of the drawers
- correct seating and condition of the fire protection seals

Case of damage

In case of damage please contact your dealer in order to have the cabinet repaired using original spare parts. The cabinets can be cleaned with a mild household cleaner and a soft cloth.

11.2. WEARING PARTS

Various safety-related components of the safety storage cabinet are wearing parts and must be replaced at regular intervals by asecos Service. A list of the parts affected for your safety cabinet is available on request from service@asecos.com.

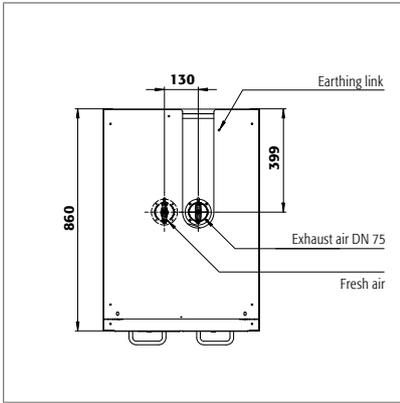
**CONTACT:**

In the case of defects or complaints about our products (within and also after the warranty period), and for requesting safety checks or taking out a service contract, please contact our service hotline on:

Tel: +44 1785 22 70-90 | info@asecos.co.uk (for great Britain and Ireland)

Tel: +49 1805 92 20 92 | service@asecos.com (international)

13. TECHNICAL DRAWING



V90.196.060.MV.2VD:0012

12. TECHNICAL DATA

12.1. TABLE WITH TECHNICAL DATA

Key for "Technical data" table

- 1 Dimensions W x D x H external
- 2 Internal dimensions W x D x H
- 3 type
- 4 Weight of empty cabinet(kg)
- 5 Maximum load (kg)
- 6 Distributed load (kg/m²)
- 7 Volume with 30 times air change (m³/h)
- 8 Differential pressure (10 times air change EK5/AK4) (Pa)

V-LINE V-CLASSIC-90								
	1	2	3	4	5	6	7	8
V90.196.060.MV.2VD:0012	600 x 860 x 1966	506 x 779 x 1750	90	420	100	556	20	11

12.2. TABLE WITH STORAGE CAPACITIES

Legend for "Storage capacities" table



Load capacity (kg) of storage levels



Retention capacity (ltr.)



Maximum container volume in the cabinet (ltr.)

V-LINE V-CLASSIC-90								
Interior equipment	1 tray shelf			2 perforated insert		3 bottom collecting sump		
	1	2	3	1	3	3	1	2
V90.196.060.MV.2VD:0012	30	30	30	4,2	11,5	10,45		

