



EP.V.31417.04 | 08/2024



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-MOVE-90



V90.196.081.VDAC:0012



V90.196.081.VDAC:0013



V90.196.045.VDAC:0012



V90.196.045.VDAC:0013



asecos GmbH
Customer service
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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		
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<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.

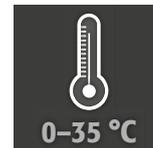
Many thanks
Your asecos team

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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
- Vessels containing aggressive chemicals (acids/alkalis) are to be kept in special cabinets for acids and alkalis or on shelves for acids and alkalis as well as in cabinets with metal-free interior equipment.
- 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-LINE

These models are tested, certified and marked according to requirements of BS EN 14470-1. They are intended for the storage of flammable liquids in work rooms in accordance with the valid national regulations.

1.4. MARKING AND SYMBOLS ON THE CABINET

Various stickers with different symbols are attached to the cabinet. An explanation of the individual symbols and illustrations is provided below.



1 Prohibition sign: No open flame



2 Mandatory sign: Refer to instruction manual/booklet



3 Mandatory sign: Keep doors closed



4 Recommendation: Connection to a technical ventilation system is recommended.

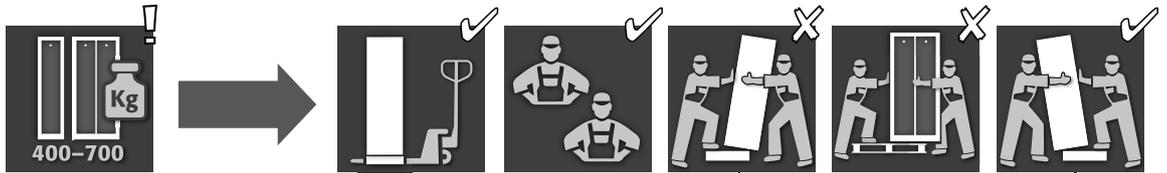


5 Load is prohibited: No additional cabinet may be placed on the cabinet ceiling.



6 Load permitted: An additional cabinet may be placed on the cabinet ceiling.

2. TRANSPORT



CAUTION:

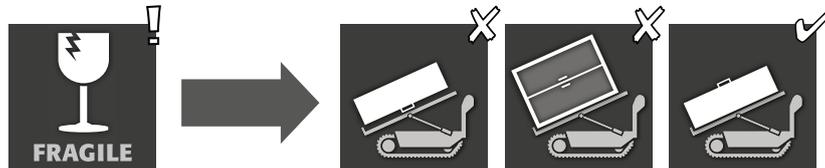
Transport the cabinet in an upright position on a pallet truck, tied and secured against slipping, until the final place of installation is reached. The transport locks in the door joints may only be removed directly at the place of installation! Inappropriate transport can lead to concealed damage to 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.



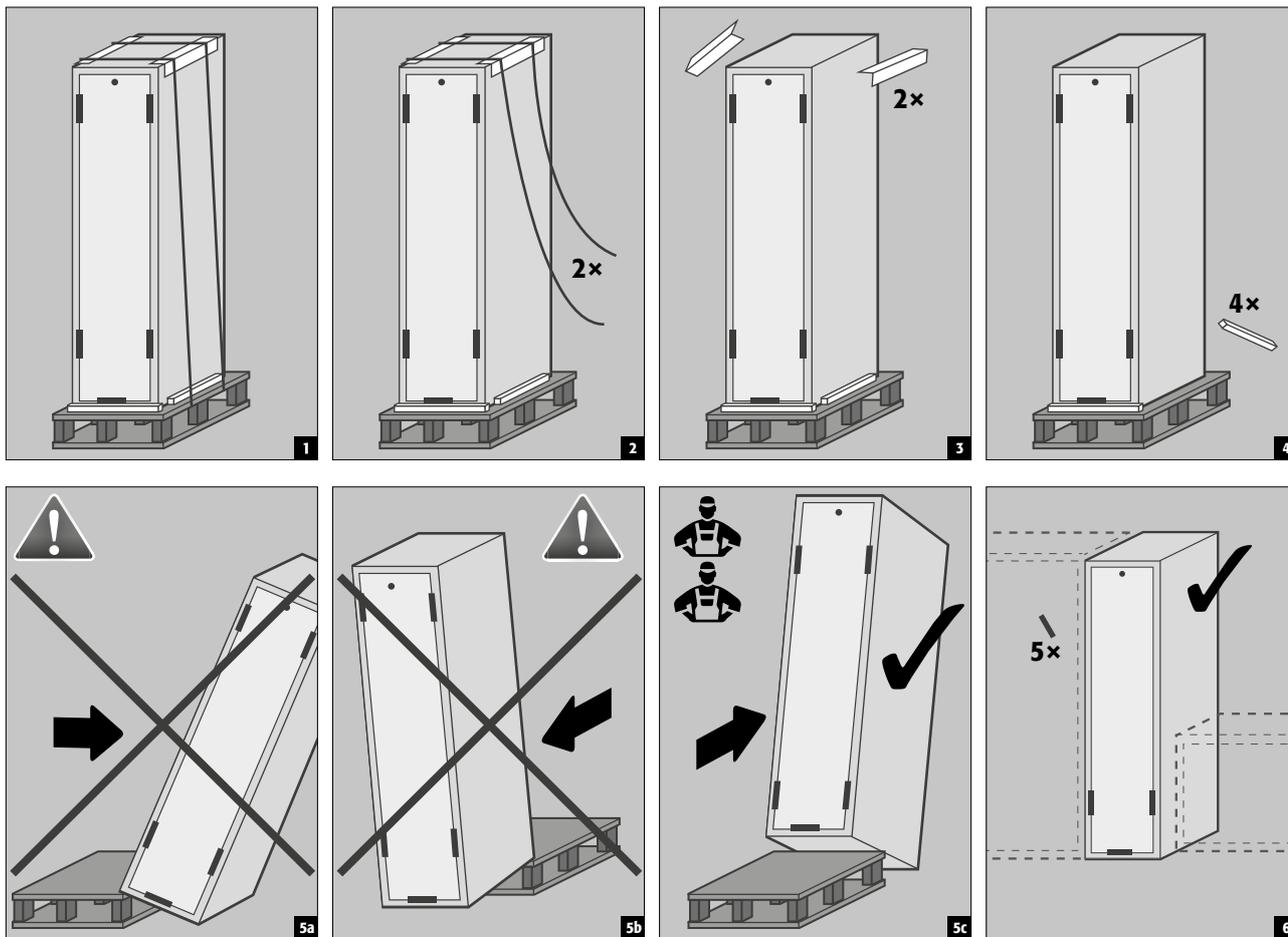
CAUTION:

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

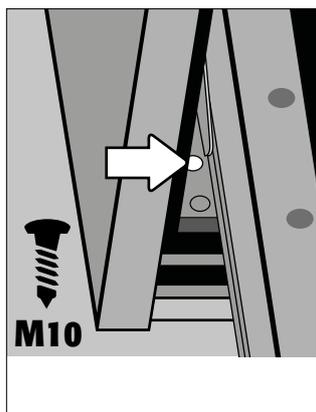


2.3. IN-PLANT TRANSPORT



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:

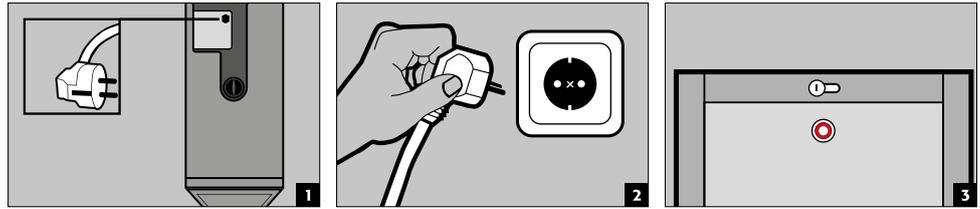
- Open the drawer of the cabinet
- Connect the belts with steel angles or steel rings using a screw M10
- Screw the steel angles/rings into the threaded insert in the base of the cabinet
- Move the cabinet carefully using the belts

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. CONNECTION TO THE POWER SUPPLY



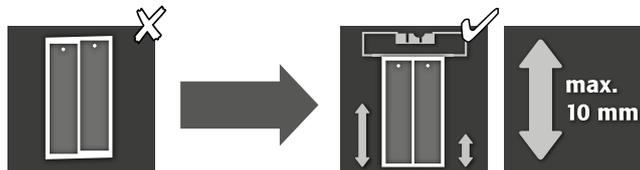
CAUTION

The cabinet must be connected to the power supply at least 1 hour before storing items for the first time!

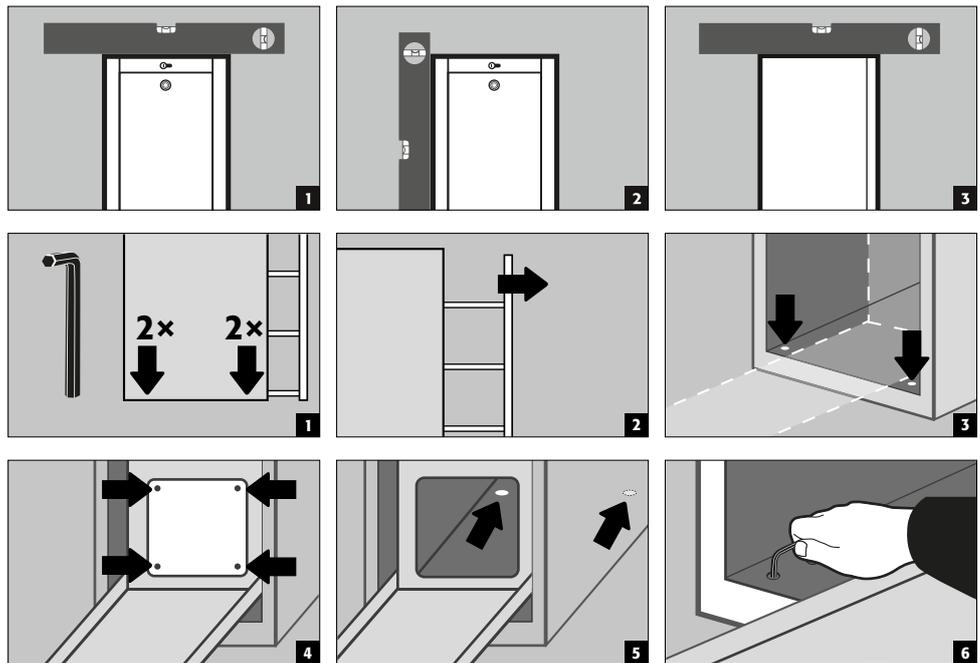
3.3. ALIGNMENT OF THE CABINETS



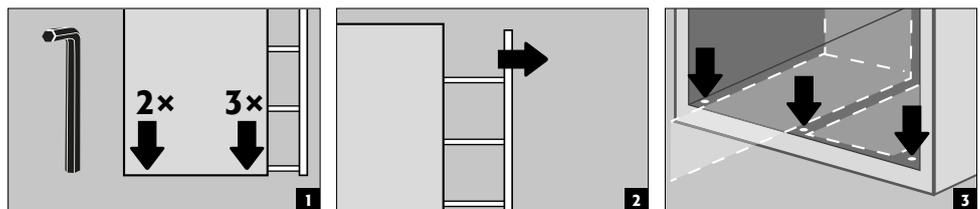
After disabling the automatic door closing (see 4.4) and opening the drawer, the cabinet can be aligned using the integrated adjusting aids.

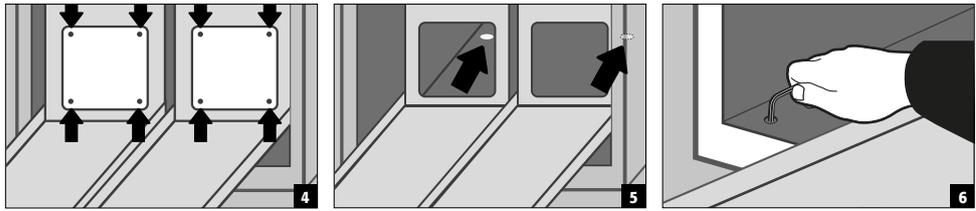


V90.196.045.VDAC



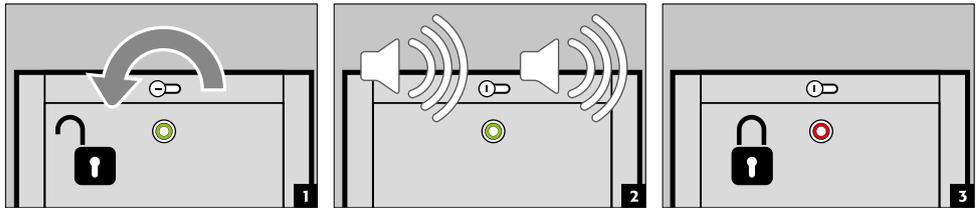
V90.196.081.VDAC



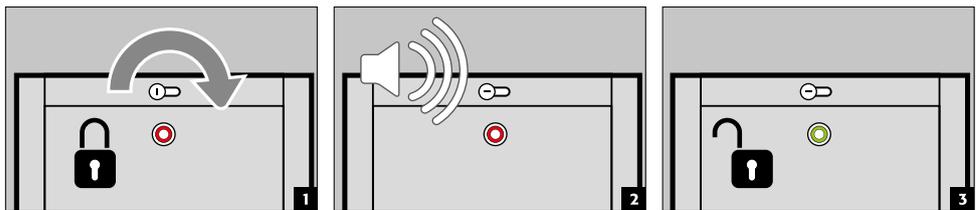


NOTES to figures 4 and 5
Only one vertical drawer can be opened at a time while the other one remains closed.

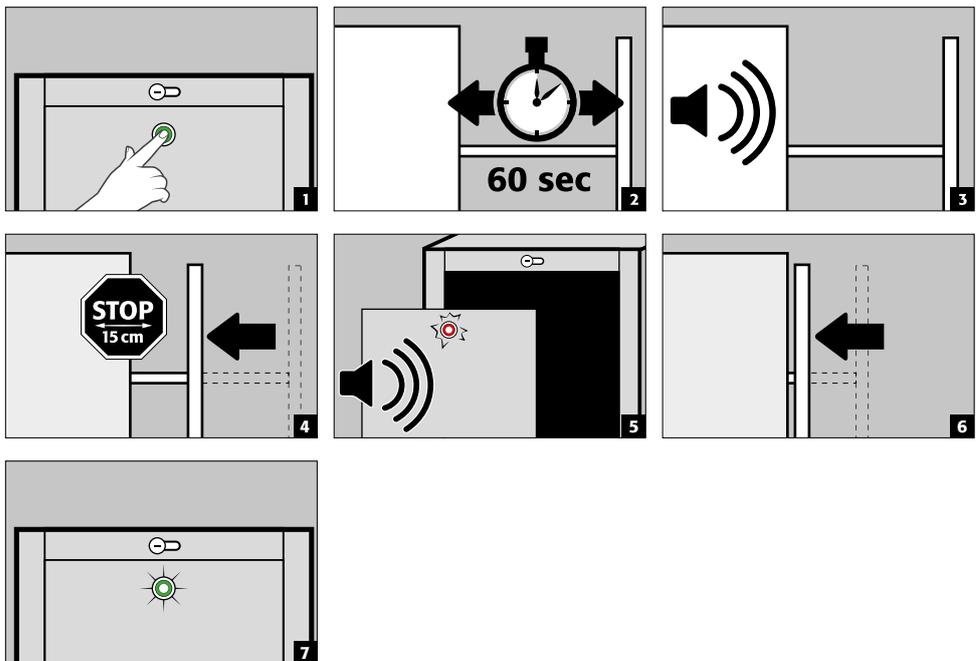
3.4. LOCKING OF THE CABINET



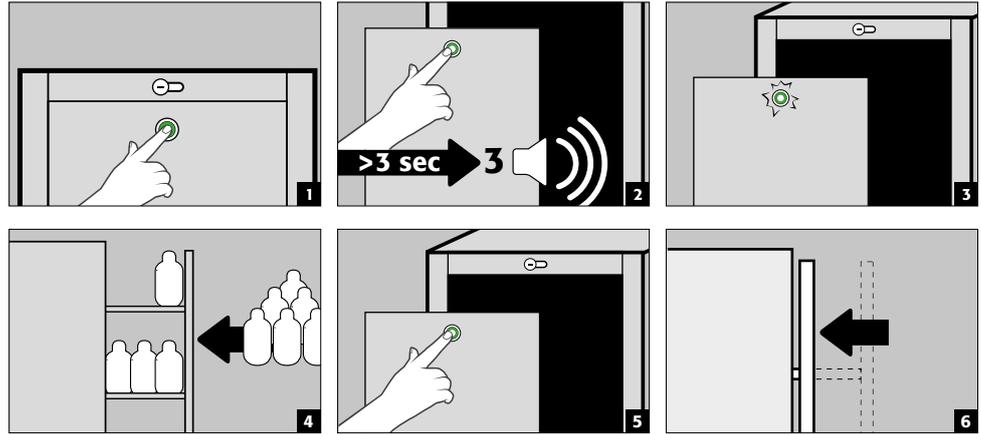
3.5. UNLOCKING OF THE CABINET



3.6. AUTOMATIC DOOR CLOSING SYSTEM (TSA)



3.7. DISABLE THE AUTOMATIC DOOR CLOSING SYSTEM

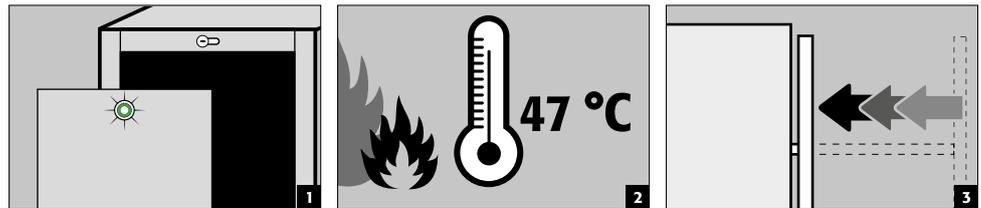


ATTENTION:

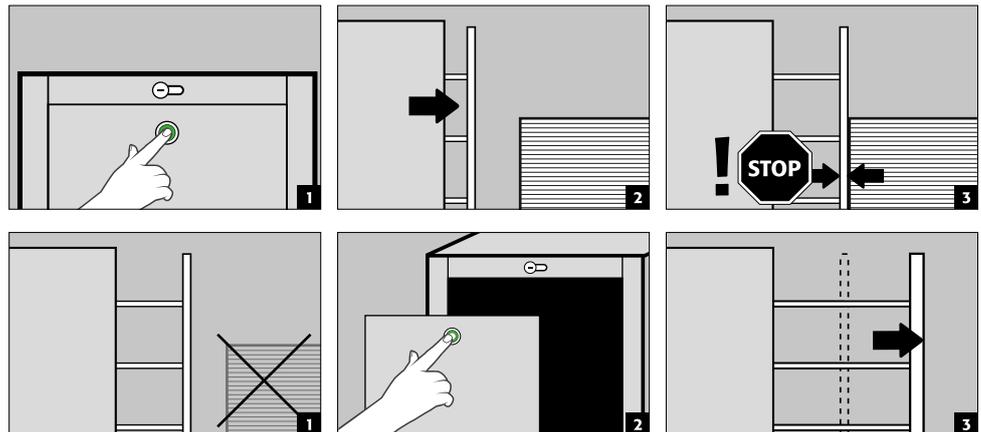
In case of fire the automatic door closing is always ensured!

4. SAFETY FUNCTIONS

4.1. AUTOMATIC CLOSING IN THE EVENT OF FIRE



4.2. BLOCKING THE DRAWER WHILE OPENING



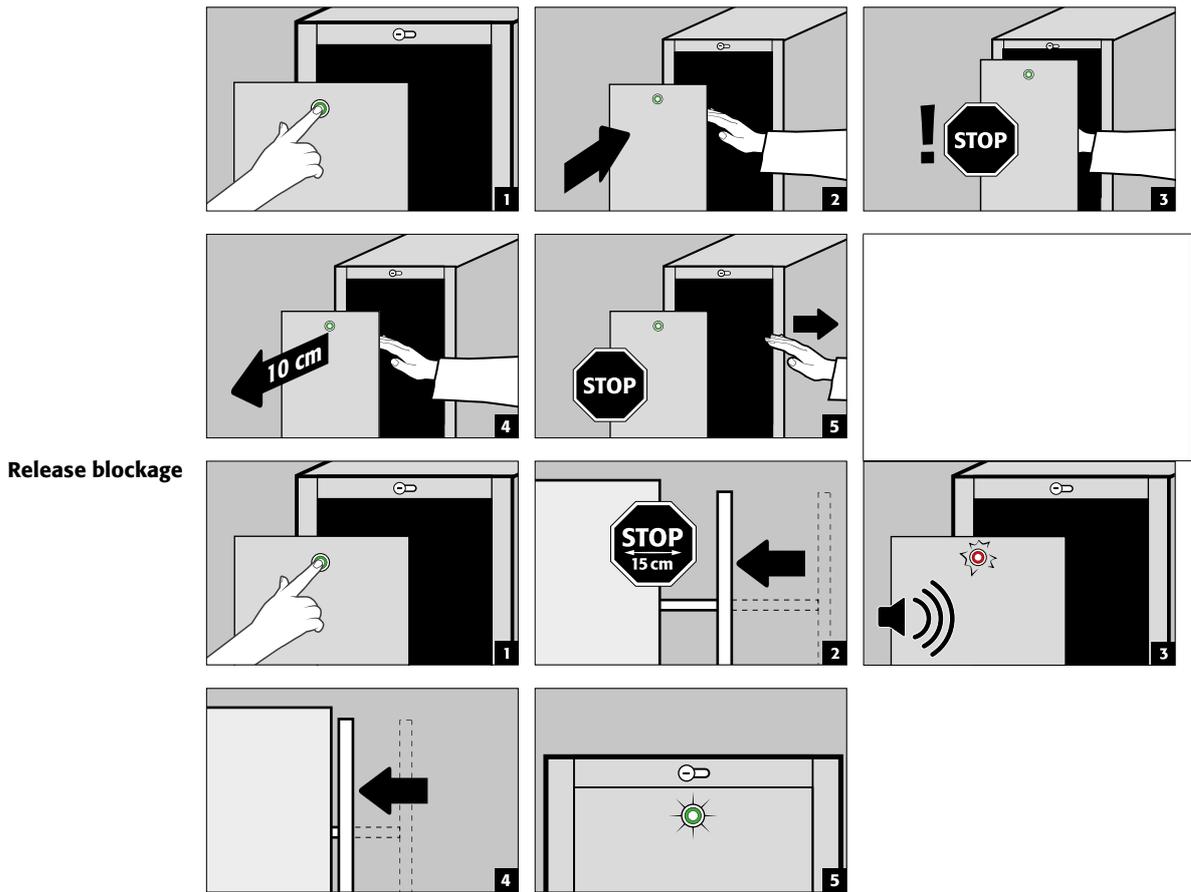
Release blockage



CAUTION

If no direct user intervention occurs after the blockage, the cabinet will give an acoustic and visual alarm after 20 seconds. In that case, please remove the blockade and follow the previous steps!

4.3. BLOCKING THE DRAWER WHILE COSING



Release blockage



CAUTION

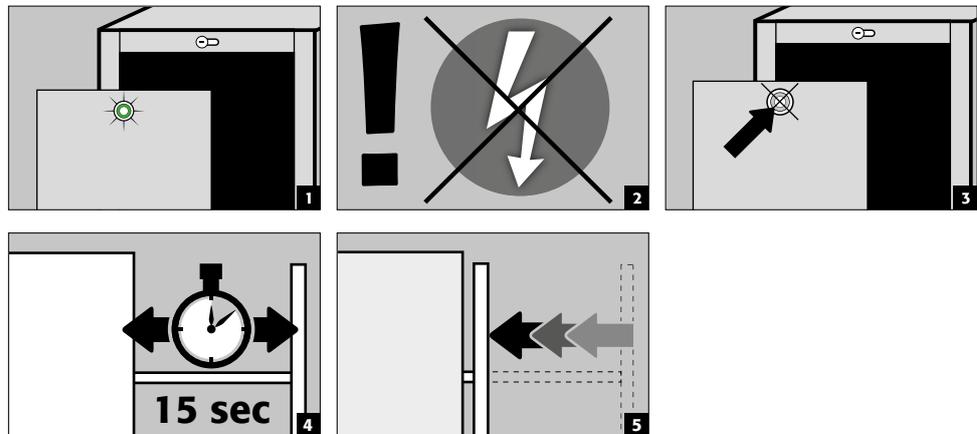
If no direct user intervention occurs after the blockage, the cabinet will give an acoustic and visual alarm after 20 seconds. In that case, please remove the blockade and follow the previous steps!

4.4. CLOSING THE DRAWER DURING BLACKOUT



CAUTION:

During a blackout the opened drawer will close automatically using an integrated battery. Please note, it only has power **for one** closing routine.



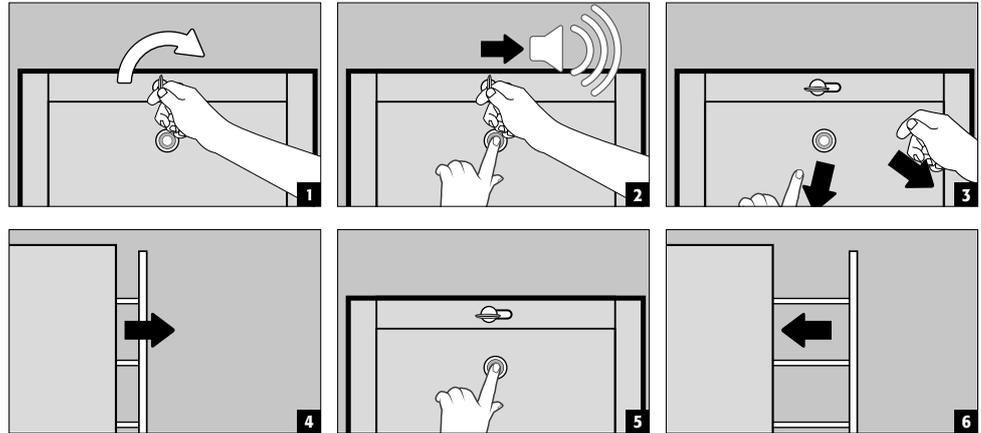
5. EMERGENCY UNLOCKING IN THE EVENT OF A POWER FAILURE

EN

5.1. ELECTRONIC EMERGENCY UNLOCKING

- In the event of a power failure, electronic emergency opening can be carried out within 24 hours.
- The internal battery is used to open and close the drawer
- **Unlocking is limited to a maximum of two openings and closings!** If these are reached, the drawer is blocked until the power supply is restored.
- After 24 hours without mains voltage, the battery is switched off. The entire electronics are then de-energized.

To carry out the emergency release, proceed as follows:



- Press and hold the key switch in the open direction
- Press and hold the button of the drawer to be opened until a short signal tone sounds (if the drawer is locked, three short signal tones sound)
- Release key switch and button
- The drawer starts the opening travel. If necessary, pull the drawer at the beginning of the opening process if it does not open completely on its own.
- Press the button on the drawer to close it.

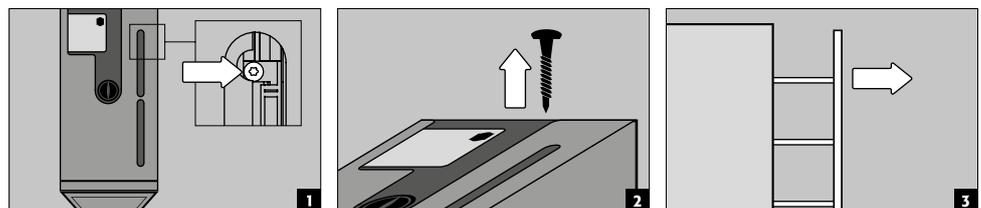


NOTE:

The automatic door closing function is also active in emergency unlocking mode and can be deactivated if necessary, as in normal operation. Please refer to point 3.7 for the necessary steps.

5.2. MECHANICAL EMERGENCY UNLOCKING

- If an emergency release is not possible via the integrated battery, it can also be carried out mechanically
- To do this, the connection between the vertical pull-out and the drive unit in the roof area must be loosened as follows



NOTE:

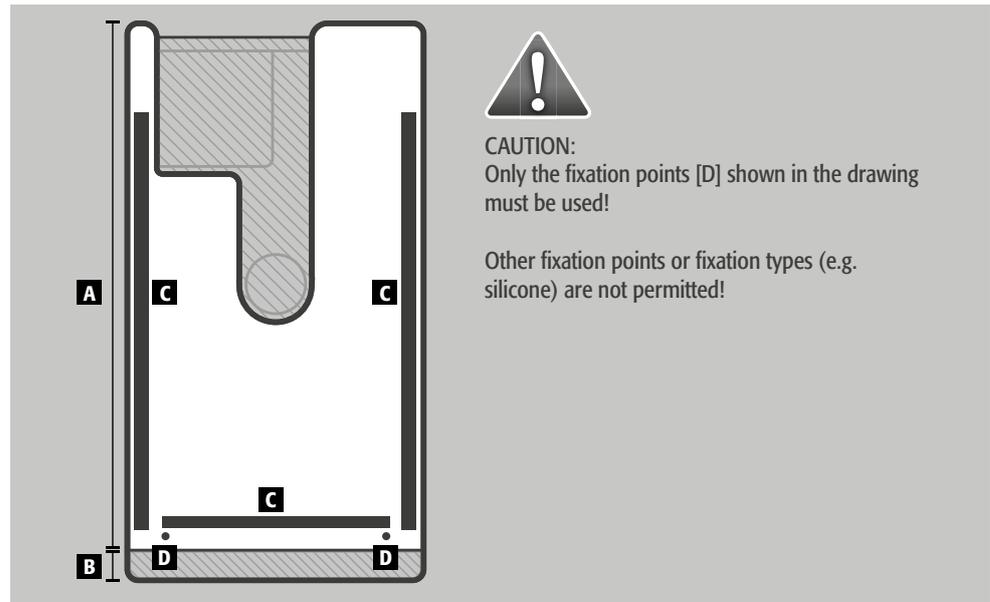
When the vertical pull-out is unlocked from the drive unit, the self-closing function of the open vertical pull-out is also deactivated in the event of a fire. To ensure safety in the event of a fire, the vertical pull-out must be pushed fully into the cabinet by hand. The self-closing function in the event of fire must be repaired immediately by asecos Service.

6. SURCHARGE (TOP-MOUNTED CABINET)



The V-LINE safety storage cabinets can be loaded if the cabinet was ordered with article HFL.32864 (order no. 38275). 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

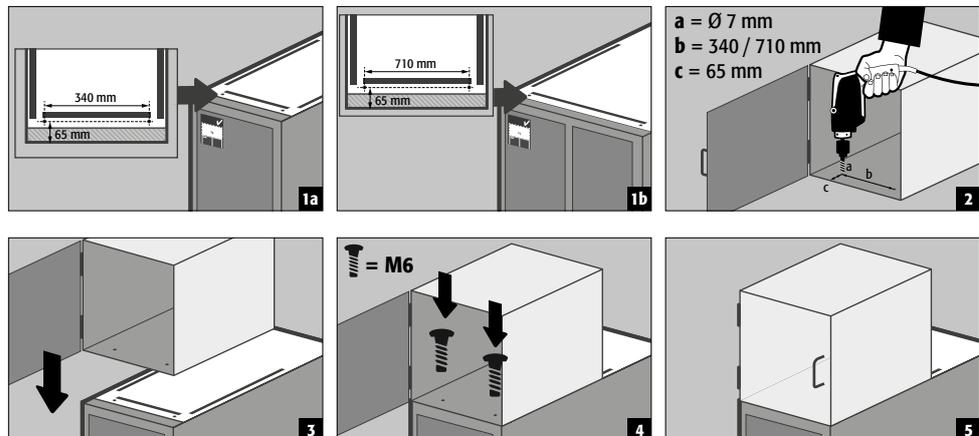


- The magnetic tape mounted on the headboard serves as a support surface for the top cabinet and can be cut to size if required.



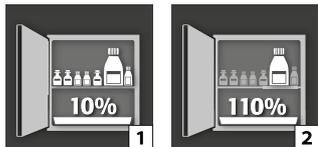
CAUTION:
The magnetic tape may only be attached to the rear head section!

6.1. ASSEMBLY OF THE ATTACHED CABINET



7. INTERIOR FITTINGS

7.1. BOTTOM COLLECTING SUMP



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

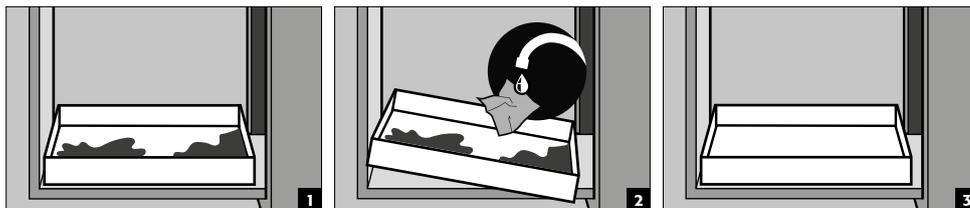
A bottom collecting sump/drawer tray must be installed below the lowest centre level. The bottom collecting sump/drawer tray must have a minimum collection volume of 10 % of all containers stored in the cabinet [1], or at least 110 % of the volume of the largest individual container [2], whichever is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

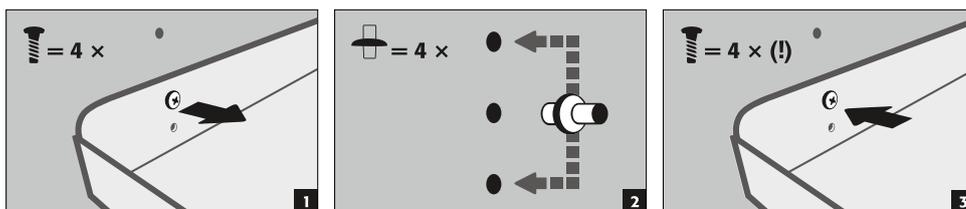
The information on the type plate of the safety storage cabinet regarding the collection volume and the max. largest container represent the values if the bottom collecting sump/drawer tray is not used as a storage surface.

Leaks:

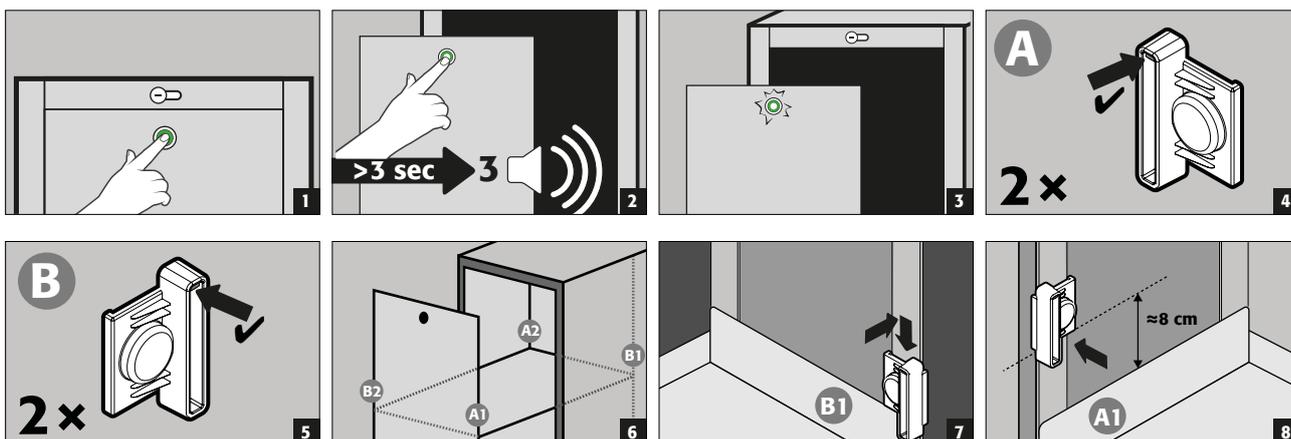
- Liquid in the sump is to be collected using suitable means.

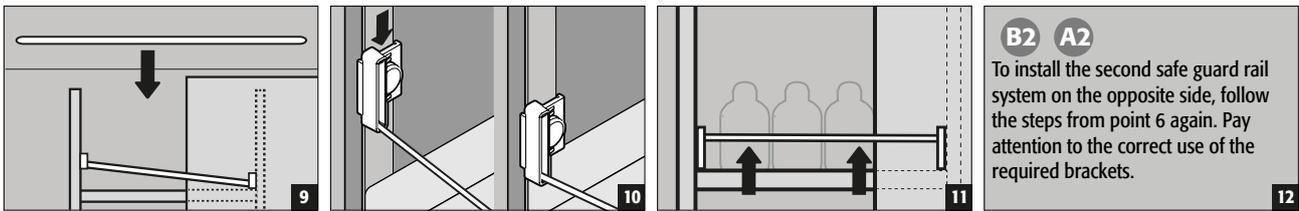


7.2. SHELVES (HEIGHT-ADJUSTABLE)



7.3. SHELF GUARD RAIL SYSTEM





B2 A2
 To install the second safe guard rail system on the opposite side, follow the steps from point 6 again. Pay attention to the correct use of the required brackets.

8. STORAGE

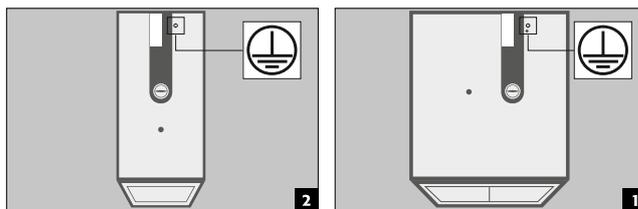
- Vessels containing aggressive chemicals (acids and alkalis) are to be kept in special cabinets for acids and alkalis or on shelves for acids and alkalis as well as in safety storage cabinets with metal-free interior equipment.
- The storage of corrosive liquids can affect the function of the shut-off 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!

9. EARTHING

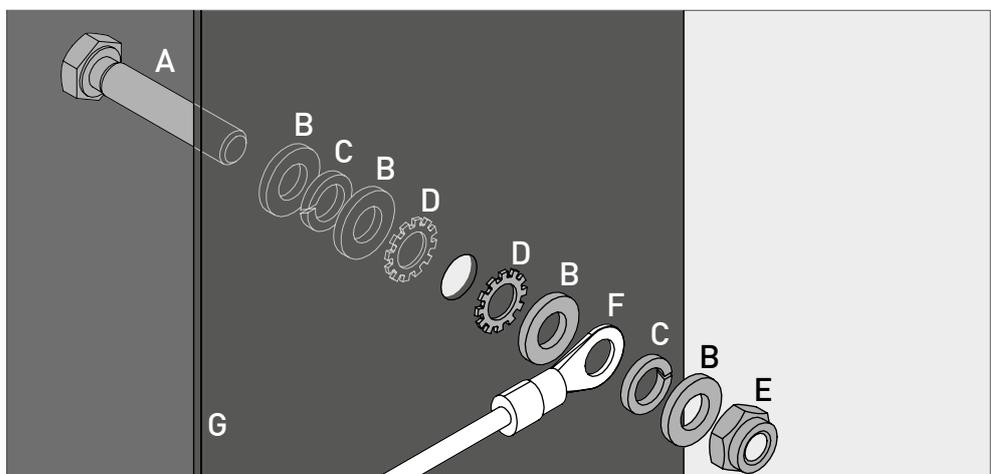
- An earth connection may be necessary, depending on the customer-specific use of the safety storage cabinet. The decision regarding this is taken on the basis of a risk analysis by the customer.

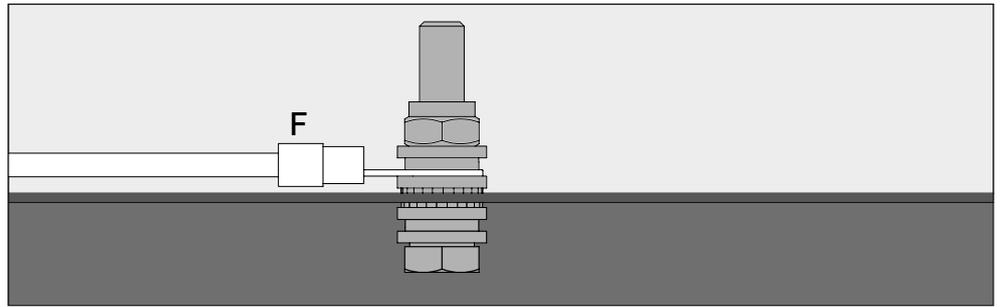


Earthing when decanting:
 Connection to a potential equalisation system is compulsory in this case. Cabinets in which decanting can be performed should additionally be equipped with an earth terminal in the interior (at a surcharge on enquiry) which must be connected to the decanting containers. This is standard with cabinets from the UB-LINE with drawers.

9.1. GROUNDING BOLT

- is enclosed with the product and must be mounted on site in the appropriate place 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	

10. 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)



CAUTION:

In general these models can be operated without technical ventilation. The direct environment of the cabinet can be an explosive zone in this case. If the cabinet is to be operated without an exhaust connection, the user must attach a marking to it.

11. FIRE - DISPOSAL

11.1. 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

11.2. DISPOSAL



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

12.1. 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

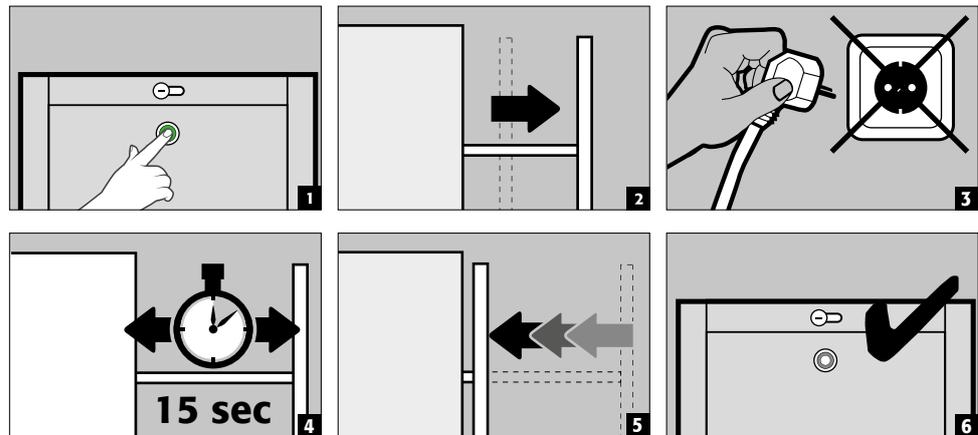
- applies to the spill containment sumps (collect and remove any leakages)

Monthly functional check

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

12.2. BATTERY CHECK

- Every six months after the maintenance check the battery should be checked by the user of the cabinet.



ATTENTION

The rechargeable battery is considered a wearing part which has to be replaced every 3 years. If this is not done in the course of an asecos service measure, this must be done by the customer.

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.

12.3. 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.

12.4. CONTACT



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)

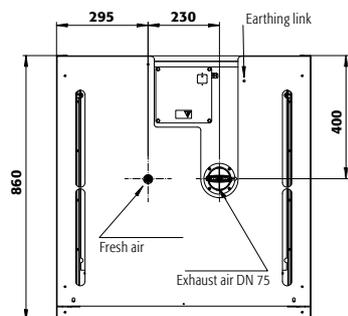
Tel: +49 1805 92 20 92 | service@asecos.com (international)

13. TECHNICAL DATA

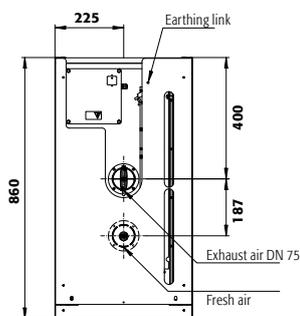
13.1. TABLE WITH TECHNICAL DATA

In general		V90.196.045.VDAC	V90.196.081.VDAC
Type		90	90
External dimensions W x D x H	mm	449 x 860 x 1966	819 x 860 x 1966
Internal dimensions W x D x H	mm	331 x 775 x 1750	701 x 775 x 1750
Weight without interior equip.	kg	344	500
Distributed load	kg/m ²	580.00	512.00
Extraction air	DN	75	75
Air change 10 times	m ³ /h	5	9
Diff. pressure (air change 10 times)	Pa	5	5
Diff. pressure (air change 10 times EK5/AK4)	Pa	5	5
Power consump. in operation	W	50	50
Power consump. in standby mode	W	0,5	0,5
Max. current consumption	A	0,5	0,5
Nominal voltage	V	85-265	85-265
Frequency	Hz	50/60	50/60
Characteristics of each vertical drawer			
Maximum load vertical drawer	kg	140	140
Max. shelf load (evenly distributed)	kg	50.00	50.00
Capacity bottom collecting sump	litres	12.50	12.50
Volume massimo del contenitore	litres	11.36	11.36
Max. storage capacity	litres	125.00	125.00

13.2. TECHNICAL DRAWING



V90.196.081.VDAC



V90.196.045.VDAC

