USER MANUAL
Recirculating air filter storage cabinet
EN 14470-1
Sehr geehrte Kundin, sehr geehrter Kunde,
mit dem Kauf Ihres asecos-Sicherheitsschrankes haben Sie eine entscheidende Investition für die Sicherheit in Ihrem Haus getätigt. Vor Ihnen steht ein innovatives Produkt aus hochwertigen Materialien, das höchste Qualität garantiert.

Sicherheitsschränke aus dem Hause asecos verfügen über eine lückenlose Zulassungs-Dokumentation. Wir archivieren Ihre Zulassungsunterlagen jedes einzelnen Schrankes für Sie, bis Sie diese im Bedarfsfall (z. B. einer Betriebsbegehung o. ä.) mit diesem Formular von uns anfordern.

Dazu einfach dieses Formular herauszupräparieren/anleihen und mit Ihrer Adresse und der Seriennummer des Schrankes versehen per Fax zurück an uns.

Mit freundlichen Grüßen
asecos GmbH

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 off 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

Firma • company
Abteilung • department
Name • name
Straße • street
PLZ • postal code
Ort • city
Schrank • cabinet
Seriennummer(n) • serial number(s)
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 ordinances.
- 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 spill containment sump may not be placed inside the cabinet; spill 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.
- The storage of corrosive liquids or gases can affect the function of the shut-off equipment for the air supply and exhaust.
- Before the initial commissioning, the safety storage cabinet is to be examined by the user for possible damage. (See point 3.2)

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! Only the original asecos accessories and spare parts are accepted! Otherwise the customer’s guarantee claim against the manufacturer expires and asecos assumes no liability for potential damage!

1.3. CABINET DETAILS

A complete overview of the models can be found at the start of the operating instructions.

- Cabinet data
- Technical drawing
- Technical data

FX-LINE

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

2. FIRE • DISPOSAL

2.1. 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

2.2. DISPOSAL

The models can be disposed of once they have been dismantled and the materials sorted. They are free from materials that have to be disposed of as special waste.

3. SAFETY CHECKS

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 check 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 doors:
  - hinges
  - locking system
  - door closer
  - door open arrest system
  - regular filter check (see point 8)
- correct seating and condition of the fire protection seals

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.

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
4. 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.

FX-LINE type 90, width 600 mm
The clearance drive-in width of the base is 520 mm.

FX-LINE type 15/30, width 560 mm
The clearance drive-in width of the base is 406 mm.

You must observe this when selecting a pallet truck! Appliances with a carrying width larger than the drive-in width may not be used.

**Tilting the cabinet (may only be done without jolts)**

4.1. DISMANTLING OF THE TRANSPORT PACKAGING

4.2. IN-PLANT TRANSPORT

• is also possible without transport locks (inserted as standard in the door joints)

**CAUTION:**
Before moving the cabinet, the recirculating air filter module must be taken off the cabinet.

**Titling onto the side wall**
• is only possible with the optionally available tilting bracket (order no. HF.27665)

**Q-Mover**
• Order no. HF.23526, available from your authorised dealer

5. ERECTION OF THE CABINET

5.1. ALIGNMENT OF THE CABINETS

**CAUTION:**
Door elements must not scrape against the fire prevention seals in the fold of the door when opening and closing!
Doors with an automatic closing mechanism must close automatically from every position and the lock must be able to lock!
The cabinet body must be aligned before installing the recirculating air filter module!
5.2. ANTI-TILT DEVICE (MODEL FX30)

CAUTION: Use for this the enclosed anti-tilt angle and position this in the middle of the cabinet cover.

6. ERECTION OF THE RECIRCULATING AIR FILTER MODULE

6.1. INSTALLATION

CAUTION: The cabinet body must be aligned before installing the recirculating air filter module! Place only in pairs the recirculating air filter module on the cabinet body!

6.2. FALL PROTECTION OF THE RECIRCULATING AIR FILTER MODULE

CAUTION: Fixing the ventilation filter module on the upper part of the cabinet is absolutely necessary for all modules! Screwing down should be finger tight. Use the screws supplied for this.

6.3. POTENTIAL-FREE ALARMCONTACT

The three pole connector which is also supplied must be used in order to use the voltage free alarm contact. Only clamps XS3(2) and XS3(1) are normally connected to the connector! Internally a contact will be switched (opened), as soon as the ventilation filter cabinet has reached the prescribed volume flow. If there is a ventilation breakdown or a filter saturation it can therefore be signalled. Furthermore, it will signal if the ventilation filter has been cut off from the mains power.

CAUTION: Max. Nominal voltage AC: 250 V ~
Max. permanent current at 250 V AC: 6 A
7. 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.

7.1. VENTILATION

Using the wool thread test the effectiveness of the ventilation and/or the correct connection of the ventilator support to the cabinet supports!

7.2. HOME DISPLAY AND MAIN MENU

7.3. CHANGE OF TIME AND DATE

7.4. CHANGE OF SYSTEM LANGUAGE

7.5. CHANGE OF SYSTEM SETTINGS

7.6. CHANGE OF VOLUME FLOWS

7.7. CHANGE OF ADVISORY ALARM

Volume flows can be adjusted via the slide control or the key pad within a pre-set range.

The set range depends on the model size.
8. FILTER CHECK AND FILTER CHANGE

8.1. FILTER CHECK

- Under the touch displays, all ventilation filter cabinets have a device for manually inspecting the filter saturation.
- The FX-Line has in addition a gas detector for the permanent monitoring of the filter saturation by hydrocarbons according to the positive material list.
- On the factory site, there is an indicator alarm for the manual filter check every 336 hours (this can be moved in the framework of the risk assessment, see for this Point 7.7)
- In the delivery scope, there is a 1 m long hose line suitable for commercially available inspection tubes (for instance, Dräger) including an adaptor suitable for the withdrawal equipment.

8.2. FILTER CHANGE

Each filter of the ventilation cabinets is matched according to the size and characteristics of the cabinet model and the intended passive storage therein (according to positive material list). The filter must be changed after a more substantial leakage and at latest after 8640 operational hours (12 months).

9. ADVISORY ALARMS AND ERROR

- Under the touch displays, all ventilation filter cabinets have a device for manually inspecting the filter saturation.
- The FX-Line has in addition a gas detector for the permanent monitoring of the filter saturation by hydrocarbons according to the positive material list.
- On the factory site, there is an indicator alarm for the manual filter check every 336 hours (this can be moved in the framework of the risk assessment, see for this Point 7.7)
- In the delivery scope, there is a 1 m long hose line suitable for commercially available inspection tubes (for instance, Dräger) including an adaptor suitable for the withdrawal equipment.

8.1. FILTER CHECK

- Please connect the hose included. Adaptor with withdrawal equipment and an empty or used inspection tube included. Gas detection pump.
- In order to remove the dead volume of the hose, first of all a hub with an empty or an already used inspection tube is implemented.
- Immediately afterwards use the correct inspection tube and implement the test according to the instructions of the testing equipment manufacturer.
- If the measurement results approach the limit value according to your risk assessment, a filter change should be initiated, at latest however when the WEL (Workplace Exposure Limit according to the Technical Rule for Hazardous Materials TRGS900 or the Safety Data sheet of the Medium)

8.2. FILTER CHANGE

Each filter of the ventilation cabinets is matched according to the size and characteristics of the cabinet model and the intended passive storage therein (according to positive material list). The filter must be changed after a more substantial leakage and at latest after 8640 operational hours (12 months).

10. INTERIOR FITTINGS

10.1. SPILL CONTAINMENT SUMP

- Loose parts (e.g. insertable sumps) must always be fully installed/inserted in order to ensure secure closing of the cabinet doors in case of fire.

- Use as a storage surface in case of cabinets with several storage levels:

CAUTION: Use as a storage surface is possible only in conjunction with a perforated metal plate insert

Leaks:
- Liquid in the sump is to be collected using suitable means.
- The choice of means is your own responsibility.
10.2. DRAWERS, SECOND STORAGE LEVEL

- All drawers have been designed in such a way that they are permanently drawn in the cabinet or automatically drawn into the cabinet in the case of fire, making it possible to close the cabinet doors.

**CAUTION:**
The height of the drawers in safety storage cabinets may be adjusted only by authorised asecos employees, since the safe retraction of the drawers in case of fire must be guaranteed!

10.3. TRAY SHELVES (HEIGHT-ADJUSTABLE)

10.4. SHELVES (HEIGHT-ADJUSTABLE)

11. 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 demanded in section 9.1. 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!

12. CLOSING MECHANISMS

12.1. TYPES OF CLOSING

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Thermal release: in the case of fire the doors close automatically (even if latched)</td>
</tr>
<tr>
<td>2</td>
<td>Automatic door closing system TSA</td>
</tr>
<tr>
<td>3</td>
<td>Doors permanently self-closing</td>
</tr>
<tr>
<td>4</td>
<td>Doors with arrest system</td>
</tr>
<tr>
<td>5</td>
<td>Doors closable only by hand</td>
</tr>
</tbody>
</table>

**CAUTION – FX-CLASSIC-30/-90:**
If the doors no longer latch in any position, then the fusible link of the thermal release has tripped. The cabinet is to be returned to its delivery condition immediately in order to avoid malfunctions.

12.2. LOCKING

**CAUTION:**
Applicable for all models: The owner/user must ensure that all doors and drawers are kept closed whenever the contents of the cabinet are not being accessed! In general it must be noted that the cabinets do not possess an emergency unlocking facility. This means that persons trapped inside the cabinet cannot free themselves!

12.3. AUTOMATIC DOOR CLOSING SYSTEM: TSA

**CAUTION:**
The doors close automatically. The time interval until the doors close can be set individually by means of a jumper (preset: 60 seconds).

Do not push the doors to close by hand, since this can lead to damage to the mechanism!

**Sequence**
Battery replacement

Changing the closing times with the aid of the jumper

CAUTION:
The electrical cable on the housing may not come into contact with the locking linkage of the cabinet!
### APPENDIX 1: TECHNICAL DATA

<table>
<thead>
<tr>
<th>DE</th>
<th>EN</th>
<th>NL</th>
<th>FR</th>
<th>ES</th>
<th>IT</th>
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<tr>
<td>X</td>
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<td>Y</td>
<td>Z</td>
<td></td>
</tr>
</tbody>
</table>
| **Abmessungen** | Dimensions | Abmessungen | Dimensions | Dimensiones | Dimensi
| **Typklasse** | Type-Classification | Typeklasse | Type de classe | Clase tipo | Classe del tipo |
| **Leergewicht gesamt** | Net Weight | Leeggewicht totaal | Poids total à vide | Peso en vacío total | Peso a vuoto completo |
| **Max. Belastung** | max. Load | Cabinet max. belasting | Chargement max. de tiroir | Carga máx. cajón | Carico max. |
| **Flächenlast** | Area Load | Oppervlaktebelasting | Charge superficie | Carga superficial | Catico superfi
ciale |
| **Max. Belastung Fachboden** | max. Load Shelf | max. belasting opvangbord | Charge max. d’étagère | Carga max. cajón | Carico max. |
| **Max. Belastung Auszug** | max. Load Drawer | max. belasting schuiflade | Charge max. de tiroir | Carga max. cajón | Carico max. |
| **Aufsatzschranken Bodenaufangwanne und Auszug** | Capacity Bottom collecting sump and Drawer | Opgaatschappen onderopvangbord en schuiflade | Volume de recogida del cubito de retención inferior y del cajón | Volume de recogida del cubito de retención inferior e estante | Volume de recogida del cubito de retención inferior e estante |

**Legende für Tabelle „Technische Daten“**

**Key for “Technical data” table**

**Legenda del la tabla “Datos técnicos”**

**Legenda per tabella “Dati tecnici”**

**Legenda para a tabela “Dados técnicos”**

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| **FX90.229.120.WDAC** | 1193 | 615 | 2294 | 519 | 1647 | 90 | 549 | 600 | 546 | 75 | 60 | 33 | 29 | 50 | 26 | — | — | — | — |
| **FX90.229.090.WDAC** | 893 | 615 | 2294 | 519 | 1647 | 90 | 370 | 600 | 595 | 75 | 60 | 25 | 19 | 50 | 4 | — | — | — | — |
| **FX90.229.060.WDAC** | 599 | 615 | 2294 | 519 | 1647 | 90 | 227 | 600 | 595 | 75 | 60 | 22 | 4,5 | 20 | 19 | — | — | — | — |
| **FX90.229.120.MV** | 1193 | 615 | 2294 | 519 | 1647 | 90 | 554 | 600 | 608 | 75 | 60 | 22 | 4,5 | 50 | 4 | — | — | — | — |
| **FX30.229.086.WDFW** | 864 | 620 | 2294 | 522 | 1626 | 30 | 245 | 600 | 667 | 75 | 60 | 25 | 19 | 60 | 25 | — | — | — | — |