USER MANUAL
Recirculating air filter storage cabinets
ChemFlex
Sehr geehrte Kundin, sehr geehrter Kunde,
mit dem Kauf Ihres asecos-Sicherheitsschranks 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 Zulassungsdokumente 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 herausznten/kopieren 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

INHALTSVERZEICHNIS

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1. NOTES • GUIDELINES • GUARANTEE

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.
- Ensure accident prevention regulations and workplace ordinances.
- Ensure that 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.
- Sufficient technical ventilation must be ensured.
- 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.

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.

<table>
<thead>
<tr>
<th>Cabinet data</th>
<th>Logbook (included with the cabinet)</th>
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</thead>
<tbody>
<tr>
<td>Technical drawing</td>
<td>Appendix 2</td>
</tr>
<tr>
<td>Technical data</td>
<td>Table in Appendix 1</td>
</tr>
</tbody>
</table>

CX-LINE
secure storage of chemicals in accordance with regulations (not for the storage of inflammable liquids)

SLX-LINE
secure storage of aggressive liquids in accordance with regulations (not for the storage of inflammable liquids)

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

The cabinets are designed and built in such a way that no significant servicing is required. If safety-relevant damage (such as to the seals in acid and alkali cabinets) is found, the operator must ensure that original parts are used to restore the cabinet to good order before it is used again. In order to check the evacuation, take a light piece of fluff or a smoke tube, and check that you can observe a draught inside the cabinet in the area of the outlet opening (on the right of the cabinet or at the rear wall).

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
- regular filter check (see point 8)

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
5. ERECTION OF THE CABINET

5.1. ALIGNMENT OF THE CABINETS

CAUTION: The cabinet body must be aligned before installing the recirculating air filter module!

5.2. ANTI-TILT DEVICE

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!
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

- 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.

7.4. CHANGE OF SYSTEM LANGUAGE

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

8.1.1. 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).

Please note!
The filter saturation must be checked manually at regular intervals.

NOTE: Only the original ascos accessories and spare parts are accepted! Otherwise the costumer’s guarantee claim against the manufacturer expires and ascos assumes no liability for potential damage!
9. INTERIOR FITTINGS

9.1. SHELVES

CAUTION:
When adjusting the shelves, ensure that no containers are resting on the shelf so that they cannot be
pushed over or damaged by the modification work in the cabinet.

CX-LINE

SLX-LINE

ACHTUNG:
Die Tablerauszüge sind fest im Schrank eingebaut und besitzen eine Ausziehsicherung.
Sie müssen nach Benutzung per Hand in den Schrank eingeschoben werden.

9.2. SPILL CONTAINMENT SUMP

CAUTION:
The individual volumes that can be collected can be found in the table of technical data in the appendix.

CX-LINE
- It is the purpose of the spill containment sump to collect any liquids that might escape inside
  the cabinet.

SLX-LINE
- Plastic sumps, impervious to liquids, at each storage level for trapping any liquid leaks.

10. TYPES OF CLOSING · LOCKING

CAUTION:
Make sure that the door(s) are always closed again after use. The door is/doors are
always locked by hand.

CX-LINE
- The cabinets are lockable by means of safety cylinders

SLX-LINE
- Are available with profile lock
### APPENDIX 1: TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
<th>Int.</th>
<th>( \text{m}^3/\text{h} )</th>
<th>( \Delta p_{\text{ges}} ) (EKS/AK4 09-10)</th>
<th>( \text{m}^2/\text{h} )</th>
<th>( \Delta p_{\text{ges}} ) (EKS/AK4 09-10)</th>
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<tbody>
<tr>
<td>CX.229.105/WDFW</td>
<td>105</td>
<td>520</td>
<td>2290</td>
<td>196</td>
<td>493</td>
<td>1835</td>
<td>105</td>
<td>600</td>
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<td>CX.229.081/WDFW</td>
<td>810</td>
<td>520</td>
<td>2290</td>
<td>751</td>
<td>493</td>
<td>905</td>
<td>90,64</td>
<td>22</td>
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<tr>
<td>CX.229.105/MM.4WD</td>
<td>105</td>
<td>520</td>
<td>2290</td>
<td>175/425</td>
<td>493</td>
<td>905/905</td>
<td>98</td>
<td>20</td>
</tr>
<tr>
<td>SLX.230.120/MV</td>
<td>1197</td>
<td>615</td>
<td>2300</td>
<td>128/485</td>
<td>565</td>
<td>1865</td>
<td>159</td>
<td>30</td>
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<tr>
<td>SLX.230.060/MH(.MHR)</td>
<td>600</td>
<td>615</td>
<td>2300</td>
<td>485</td>
<td>565</td>
<td>914/914</td>
<td>93</td>
<td>600</td>
</tr>
<tr>
<td>SLX.230.105/MM.4WD</td>
<td>1055</td>
<td>520</td>
<td>2290</td>
<td>475/475</td>
<td>493</td>
<td>905/905</td>
<td>98</td>
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**Legend for Table “Technische Daten”**

Key for “Technical data” table

Legende für Tabelle “Technische Daten”

Légende du tableau « Caractéristiques techniques »

Leyenda de la tabla “Datos técnicos”

Legenda para a tabela “Dados técnicos”

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<td>Abmessungen</td>
<td>Dimensions</td>
<td>Abmessungen</td>
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<td>Type-Classification</td>
<td>Typkategorie</td>
<td>Type de classe</td>
<td>Clase tipo</td>
<td>Classe del tipo</td>
<td>Classe de classe</td>
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<tr>
<td>Leergewicht gesamt</td>
<td>Net Weight</td>
<td>Poids total à vide</td>
<td>Peso en vacío total</td>
<td>Peso a vuoto completo</td>
<td>Peso total em vazio</td>
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<tr>
<td>Flächenlad</td>
<td>Area Load</td>
<td>Capacidade superficial</td>
<td>Carga superficial</td>
<td>Capacity superficial</td>
<td>Carga superficial</td>
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<tr>
<td>Max. Belastung Fachboden</td>
<td>max. Load Shelf</td>
<td>Charge max.</td>
<td>Cargo max. bandeja base</td>
<td>Caixão max. base</td>
<td>Cargo max. da prateleira</td>
<td></td>
</tr>
<tr>
<td>Belastung Auszug</td>
<td>max. Load Drawer</td>
<td>Charge max.</td>
<td>Cargo max. caixa</td>
<td>Caixão max. caixa</td>
<td>Cargo max. do extrato</td>
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</tr>
<tr>
<td>Aufsatzwanne Bodenauffangwanne und Auszug</td>
<td>Capacity Bottom collecting sump and Drawer</td>
<td>Volume de recogida de las cubetas de recogida inferior e extrato</td>
<td>Volume di raccolta vasca di raccolta sul fondo e cassetto</td>
<td>Volume de recolha da bacia de retenção inferior e extrato</td>
<td>Volume e perda de pressão de 10 vezes a renovação de ar</td>
<td></td>
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</tbody>
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<tbody>
<tr>
<td>Volumen und Druckverlust bei 10fachem Luftwechsel</td>
<td>Volume and Pressure Loss at 10times Air change</td>
<td>Volume en chambres de pression avec une vitesse de renouvellement de l’air de 10 fois</td>
<td>Volumen y caída de presión con renovación de aire de 10 veces</td>
<td>Volume e perdita di pressione con decuplo cambio dell’aria</td>
<td>Volume e perda de pressão de 10 vezes a renovação de ar</td>
<td>Volume e perda de pressão de 10 vezes a renovação de ar</td>
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<tr>
<td>Volumen und Druckverlust bei 120fachen Luftwechsel</td>
<td>Volume and Pressure Loss at 120times Air change</td>
<td>Volume en chambres de pression avec un taux de renouvellement de l’air de 120 fois</td>
<td>Volumen y caída de presión con renovación de aire de 120 veces</td>
<td>Volume e perdita di pressione con centoventesimo cambio dell’aria</td>
<td>Volume e perda de pressão de 120 vezes a renovação de ar</td>
<td>Volume e perda de pressão de 120 vezes a renovação de ar</td>
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<td>Safety storage cabinets</td>
<td>Armarios de seguridad Armoires combinées Armadi di sicurezza Armários de segurança</td>
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</tbody>
</table>
APPENDIX 2: TECHNICAL DRAWINGS

Front view Side view Top view

Natural ventilation Natural ventilation
Ihr Fachhändler:
Your partner:
Uw partner:
Votre partenaire :
Su distribuidor:
su richiesta: