



## You can avoid this in the future!

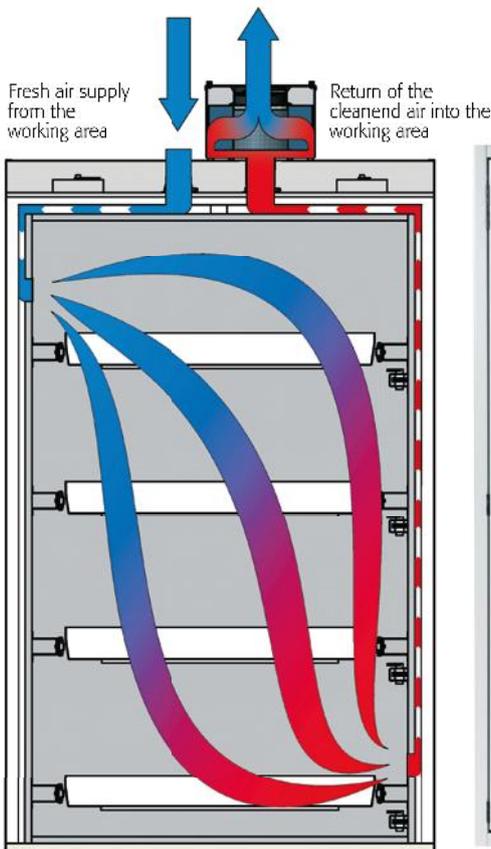


## Our solution: the asecos recirculating air filter system

- 1 Extraction air monitoring**
  - permanent, electronic (VDE-approved) monitoring of the extraction air quantity
  - integrated pressure drop sensor
  - optical and acoustical alarm including potential-free alarm contact
- 2 Filter monitoring**
  - continuous monitoring of the filter saturation
  - two-stage alarm: optical and potential-free switch contact
- 3 Installation, easy and safe in just two steps:**
  - position the recirculating air filter unit on top of the cabinet
  - plug in the power cord
  - optionally use the potential-free contact for alarm activation



## Operating principle



## Your advantages

- avoid complex wall and ceiling openings and expensive exhaust air ducts
- high flexibility in choosing the installation location
- active personal protection through safe capture of harmful vapours with retention in the filter system
- very low noise, only approx. 39 dB (A)
- principle avoidance of hazardous area zones inside and around the safety storage cabinet according to BGR 104 (Ex-RL)



**Recirculating air filter system**  
for tall cabinets, for assembling on the safety storage cabinet  
**Order No. 25099**

**The recirculating air filter system from asecos—successfully tested by the certified testing institute:**



**Recirculating air filter system – avoid complex wall breakthroughs and expensive exhaust air ducts**

- high flexibility in choosing the installation location
- active personal protection through safe capture of harmful vapours with retention in the filter system
- very low noise, only approx. 39 dB (A)
- ATEX compliant: **CE II 3/-G Ex ic nA IIB T4 Gc**
- housing made of sheet-steel powder-coated
- with multistage filter system and power cord
- incl. monitoring electronics for exhaust air and filter monitoring, EMC-tested by VDE
- optical and acoustic alarm including potential-free alarm contact

**The plug-in recirculating air filter system, type UFA.20.30 is capable of retaining solvent vapours (hydrocarbons) permanently up to a filter saturation of more than 99.999%, under normal operating conditions as well as for a simulated accident in the safety storage cabinet.**

A special version of the recirculating air filter system is also available to meet the pressure and volumetric flow conditions inside XL-drum cabinets.

Please adhere to the country-specific terms of use binding for you. In case of any doubt, the possible applications must be agreed with the relevant authority.

**Recirculating air filter system in accordance with RL 2006/95/EC (low-voltage directive) marking **CE II 3/-G Ex ic nA IIB T4 Gc** and **EMC Directive RL 2004/108/EC** and **RL 94/9/EC** (ATEX Directive)**



Technical data	All models	
External dimensions W x D x H	mm	305 x 555 x 210
Nominal voltage	V	230
Frequency	Hz	50/60
Max. current consumption	A	0.07
Noise level	dB	39.0
Speed	rpm	2200
Weight	kg	17
Volume flow	m <sup>3</sup> /h	25
<b>Potential-free alarm contact</b>		
Max. continuous current	A	10
Max. nominal voltage AC	V	230
Max. nominal voltage DC	V	30



**Model**  
recirculating air filter system with exhaust air monitoring  
recirculating air filter system with exhaust air monitoring for drum cabinets

**Order No.**  
25099  
27887



**Accessories**  
filter, new (activated carbon)

**Order No.**  
24212





# Technical ventilation of safety storage cabinets

## 1.

The legislative authority has facilitated the operation of safety storage cabinets without technical ventilation on the basis of **TRGS 510**, Annex 3, 2.2. If technical ventilation is not carried out in the long-run, contingency measures must be implemented, which ensure comparable explosion protection.

## 2.

Please bear in mind that other regulations in addition to **TRGS 510** (Annexe 3) can also make technical ventilation necessary. For example, if corrosive or poisonous substances are stored or there is unpleasant odour for the employees due to the substances stored, a technical ventilation of the safety storage cabinet must be planned as a rule; for this, please refer to the Ordinance on Hazardous Substances or Workplaces Ordinance.

## 3.

With the **recirculating air filter system UFA.20.30**, it is also possible to ensure a technical ventilation of safety storage cabinets without an expensive exhaust fan and by avoiding explosion protection measures in a cost-effective manner!

Please adhere to the country-specific terms of use binding for you. In case of any doubt, the possible applications must be agreed with the relevant authority.

### What are the advantages/disadvantages in case of technical ventilation (min. 10x/h) and exhaust duct outwards?

- + no health risk to the employees
- + all the hazardous materials (also acid and base vapours) will be eliminated
- cost-intensive exhaust air ducts with possible wall/ceiling breaks will be necessary
- installation of the safety storage cabinet is no longer flexible
- energy consumption due to heat losses in the exhaust air

### What are the advantages/disadvantages in case of technical ventilation (min. 10x/h) with a recirculating air filter system and without an exhaust duct outwards?

- + no health risk to the employees/workers
- + no cost-intensive exhaust air ducts are necessary
- + flexible installation of the safety storage cabinet
- + no energy losses due to exhaust duct outwards
- + permanent electronic monitoring of the exhaust air volume
- + tested and certified system
- only solvent vapours (hydrocarbons) can be filtered

### What are the advantages/disadvantages without technical ventilation of the safety storage cabinet?

- + no cost-intensive exhaust air ducts are necessary
- explosion zones must be permanently ensured around the safety storage cabinet
- possible health risk to the employees



**In case of any further questions on ventilation of safety storage cabinets, please contact us.**

**Our employees will be happy to help you.**

Please adhere to the country-specific regulations and provisions binding for you.



### Recirculating air filter system

for underbench cabinets, for wall mounting or installation in the optional housing unit

**Order No. 27144**

(housing unit and safety storage cabinet optional)

### Recirculating air filter system for underbench cabinets – safe capturing of escaping vapours at the point where they are released or produced

The recirculating air filter system UFA.20.30-AUS was especially designed for the pressure conditions and volumetric flows of safety storage cabinets with a small internal volume. It can be installed on a wall bracket (illustration below) or in a convenient housing unit (illustration on left).

- high flexibility in choosing the installation location
- active personal protection through safe capture of harmful vapours with retention in the filter system
- very low noise, only approx. 39 dB (A)
- ATEX compliant:  $CE$  II 3/-G Ex ic nA IIB T4 Gc
- housing made of sheet-steel powder-coated
- with multistage filter system and power cord
- incl. monitoring electronics for exhaust air and filter monitoring, EMC-tested by VDE
- optical and acoustic alarm including potential-free alarm contact



Adapter for wall mounting (sheet steel powder-coated)

**Order No. 23458**

### Technical data

External dimensions W x D x H	mm	305 x 555 x 210
Nominal voltage	V	230
Frequency	Hz	50/60
Maximum current consumption	A	0.07
Noise level	dB	39
Speed	rpm	2200
Weight	kg	17
Volume flow	m <sup>3</sup> /h	25

### Potential-free alarm contact

Max. continuous current	A	10
Max. nominal voltage AC	V	230
Max. nominal voltage DC	V	30



### Model

recirculating air filter system with exhaust air monitoring, for underbench cabinets

**Order No.**

27144



### Accessories

adapter, for wall mounting

adapter, as separate housing unit for lateral mounting

filter, new (activated carbon)

**Order No.**

23458

26885

24212