



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

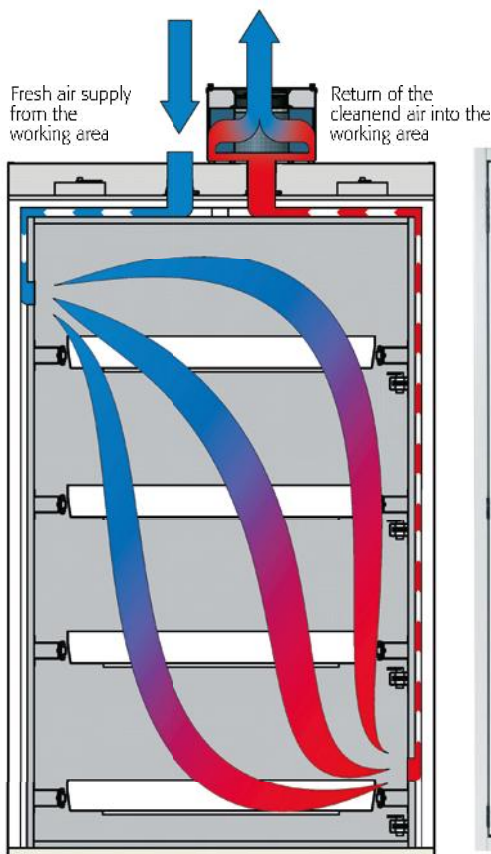
3

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	m³/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

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.

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

2.

Please bear in mind that other regulations in addition to **TRGS 510** (Annex 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.

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

3.

With the **recirculating air filter systemt 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 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

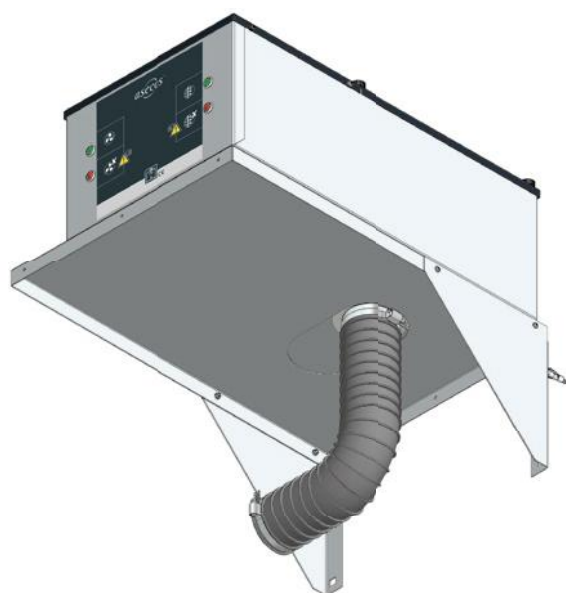
Order No. 27144

(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: $\text{CE II 3/-G Ex ic nA IIB T4 Gc}$
- 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 ³ /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