

Our safety cabinets for the storage of hazardous substances are provided with a DN 75 / DN 80 exhaust air connection. The forced ventilation can be carried out by one of our standard extraction fans or by a suitable in-house air extraction system. The exhaust air is to be discharged from the building into a hazard-free zone.

The operation of safety cabinets for the storage of flammable liquids as per EN 14470-1 is governed by TRbF 20-L. If the cabinets are used without forced ventilation then an EX zone (Zone 2) must be set up and maintained around the cabinet at a:

- distance of 2.5 m around the cabinet, and
- 50 cm high

For this reason, and also to avoid the presence of hazardous vapours in the atmosphere near the cabinet, we always recommend that safety cabinets are operated with an extraction fan (min. air exchange rate 10 times per hour) for proper operation in accordance with TRbF 20-L! If an extraction fan is to be used in an EX-endangered zone then it is essential that an EX-proof version is used!

### Models 1 - 3

#### Extraction from individual safety cabinets

For mounting directly on the storeLAB® safety cabinet - complicated connections from the extraction fan to the safety cabinet are no longer necessary!

- Not suitable for fume hood underbenches
- With mounting plate for easy mounting on cabinet roof - suction side of fan is connected



**If the safety cabinet is used together with an extraction fan then it is no longer necessary to set up and maintain an EX-zone around the safety cabinet!**

### Models 5 - 7

#### Extraction from several safety cabinets

Extraction fan with mounting base, for separate installation beside (e.g. on wall of room) or on the safety cabinet

- Suitable for all storeLAB® safety cabinets
- With mounting plate for easy mounting on cabinet roof

### Models 4 + 8

#### Plug-in versions

Easy extraction fan connection (suction side) with DN 75 flexible aluminium tubing, with earthed plug and 2 m connection cable.

- Not suitable for fume hood underbenches
- For mounting on safety cabinet

Model 8 with exhaust air monitoring:

- Extraction fan operation checked by monitoring the air flow
- Acoustic message if extraction fan stops working or safety cabinet ventilation openings become blocked



Installation example: Models 1-3



Installation example: Models 5-7



Installation example: Models 4 + 8

Description	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8
EX-proof	NO	NO	YES	NO	NO	NO	YES	NO
Electricity supply	230 V	400 V	400 V	230 V	230 V	400 V	400 V	230 V
Weight (kg)	6,0	6,0	6,0	7,5	6,0	6,0	6,0	7,5
Art.-No.	B80-2839-A	B80-2840-A	B80-2841-A	B80-2842-A	B80-2844-A	B80-2845-A	B80-2846-A	B80-2843-A

All extraction fans comply with EU Directive 94/9/EU (ATEX)

Connection work to be done by customer!



The LACONT Hazardous Substances Filter Attachment GFA Basic works with forced air circulation and is used for the technical ventilation of storeLAB® safety cabinets Type 30 / Type 90 as per EN 14470-1 for the storage of flammable liquids.

Because of its quiet operation the LaCont hazardous substances filter attachment GFA Basic is ideal for direct use at the workplace.

### **Functioning, display and operation:**

The LACONT Hazardous Substances Filter Attachment Basic reacts to coarse particulate contaminants (dust, etc.) as well as to strong contamination of the exhaust air by hydrocarbon vapours and gases. A saturated filter is indicated by warning LEDs.

Hydrocarbon vapours are removed from the exhaust air from the cabinet by passing it through the built-in active charcoal filter so that the air can be discharged directly into the room atmosphere. The special feature of the filter is its tandem structure. If a breakthrough is detected then the second built-in filter will retain the breakthrough for a period of up to 14 days.

In order to ensure hazard-free working conditions the LaCont hazardous substances filter attachment Basic should be serviced and its functions checked by an expert at least once per year. The tandem active charcoal filter should be replaced during this check.



### **Technical data:**

Housing:	Powder-coated sheet steel, RAL 7035, light grey
Ext. dimensions (width x depth x height):	310 mm x 510 mm x 210 mm
Motor performance:	0,03 kW
Nominal voltage:	230 V
Frequency:	50 Hz
Current consumption:	0,2 A
Noise level:	<42 dB (A)
Net weight (without filter):	10 kg
Weight of active charcoal filter:	3 kg
Volume flow (at cabinet):	25 m³/h



### **Benefits:**

- ☞ If a LACONT Hazardous Substances Filter Attachment GFA Basic is used then it is no longer necessary to maintain an explosion-endangered zone around the safety cabinet (see TRbF 20 Annex L # 4.2.), as proved by a test report issued by a recognised testing, monitoring and certification office (test laboratory accredited by the German Accreditation Council DAR)
- ☞ Exhaust ducts venting in the open air are no longer necessary, so no cost-intensive installation work is required
- ☞ No room atmosphere pollution due to virtually 100% filtering of all solvent vapours – employee health protection!
- ☞ Low service and maintenance costs



Description	Art.-No.
Hazardous Substances Filter Attachment GFA Basic	B80-2880-A
Attachment adapter for storeLAB® Type 30/90 cabinets	B80-2883-A
Attachment adapter for storeLAB® CHS 950 / SiBox	B80-2885-A
Attachment adapter for storeLAB® SiS-FAS Type 90/900	B80-2884-A
Attachment adapter for storeLAB® SiS-FAS Type 90/1550	included



**Further attachment adapters for older safety cabinets available on request!**