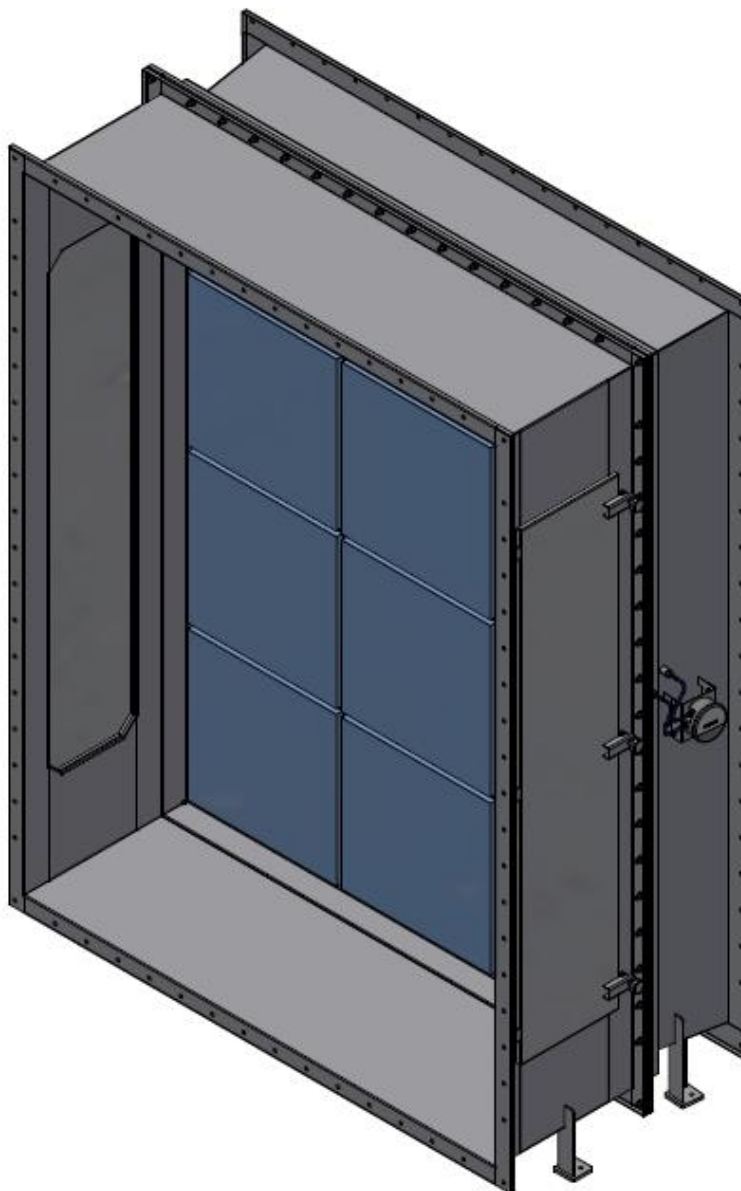


Static filter for Industrial Applications



Manufacturer

LTC – Lufttechnik Crimmitschau GmbH
Gewerbering 24
08451 Crimmitschau
Germany

Tel.: +49 3762 / 95 52 0
E-Mail: info@ltc-crimmitschau.com
Web: www.ltc-crimmitschau.com

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Subject to change.

Table of contents

	Page
1. Area of Application	4
2. Safety Instructions	5
3. Dimensions	6
4. Material	7
5. Designs	7
6. Order Details	8
7. Documentation	9
8. Spare Parts	9

1 Area of Application

Static filters can be used in a wide variety of dedusting and ventilation systems.

The filters can be subdivided into the following groups based on the filter class used:

- Coarse dust filter according to ISO 16890: ISO Coarse >90% (according to Old DIN EN 779: G4)
- Fine dust filter according to ISO 16890 ISO ePM_{2,5} >65% (according to Old DIN EN 779: F7)
- Fine dust filter according to ISO 16890 ISO ePM₁ >80% (according to Old DIN EN 779: F9)
- HEPA-filter according to DIN EN 1822:H13; Deposition rate >99,95%

All filters are used to separate dust from airflows.

In their standard configuration, the units in the following configurations can be used in the following areas:

- Design temperature: from -10 up to 250°C
- Design pressure from -2.500 up to 2.500 Pa (-25 / +25 mbar)

For special versions, higher design pressures and designs resistant to explosion pressure surges are possible.

2 Safety Instructions

The filters are developed, designed, and manufactured in accordance with recognized technical standards. During operation, hazards to the operator or third parties, or damage to the system or other property, may arise.

Safety instructions serve the purposes of occupational safety and accident prevention and must be strictly observed and adhered to.

Static filters do not feature active cleaning systems and, consequently, lack discharge systems. Depending on the level of dust loading, the filters require regular maintenance and cleaning, and the filter bags must be replaced and/or cleaned.

Moving parts can endanger people (e.g. risk of crushing). Interfering with moving parts during operation is not permitted.

Before working on the filters, the system must be shut down and the power supply to the fans disconnected.

Maintenance or repair work on electrical equipment may only be carried out by a qualified electrician, or by instructed people under the direction and supervision of a qualified electrician, in accordance with electrotechnical regulations.

3 Dimensions

Depending on operating pressure and operating temperature, the following filter configurations are available as standard for volume flows ranging from 2,200 to 68,000 m³/h:

Filter elements Column x Row	Dimensions: L x W x H in [mm]	ISO Coarse >90% DIN EN 779: G4 V-Flow in [m ³ /h]	ISO ePM2,5 >65% DIN EN 779: F7 V-Flow in [m ³ /h]	ISO ePM1 >80% DIN EN 779: F9 V-Flow in [m ³ /h]	DIN EN 1822: H13 99,95% separation V-Flow in [m ³ /h]
1 x 1	513 x 884 x 984	3.400	4.250	4.250	3.400
1 x 2	1066 x 924 x 1724	6.800	8.500	8.500	6.800
1 x 3	1066 x 924 x 2344	10.200	12.750	12.750	10.200
1 x 4	1066 x 964 x 3064	13.600	17.000	17.000	13.600
2 x 2	1066 x 1624 x 1724	13.600	17.000	17.000	13.600
2 x 3	1066 x 1624 x 2344	20.400	25.500	25.500	20.400
2 x 4	1066 x 1624 x 3064	27.200	34.000	34.000	27.200
3 x 3	1066 x 2244 x 2344	30.600	38.250	38.250	30.600
3 x 4	1066 x 2285 x 3064	40.800	51.000	51.000	40.800
4 x 4	1066 x 2964 x 3064	54.400	68.000	68.000	54.400

The integration into the piping or sewer network can be individually customized upon request.

4 Material

By default, the filters are supplied in the following materials:

- S235JRG2 in accordance with DIN EN 10025
- 1.4301 in accordance with DIN EN 10028-7
- 1.4571 in accordance with DIN EN 10028-7

Versions in other materials are available upon request.

Carbon steel filters are finished with an external coating as standard. The coating thickness is 80 µm. The color (RAL-XXXX) can be selected as desired.

5 Designs

The filters are configured based on volumetric flow rate, operating temperature, and filter class. Higher filter classes and operating temperatures may necessitate a larger filter surface area.

Suction- and discharge-side connections to the piping or ductwork system can be individually configured; consequently, these require a separate inquiry. Intake filters (fresh air) can additionally be equipped with weather and bird protection.

Flange connections are supplied as standard in accordance with DIN 24154 Part 2, Series 2; frame connections are supplied as standard in accordance with DIN 24193 Part 2. Other flange and frame designs are available upon request. Fasteners such as bolts, nuts, and gaskets are not included in the standard scope of supply.

6 Order Details

The following information is required when inquiring about and/or ordering the filters.

1. Volume flow rate:

2. Operating temperature:

3. Filter classification:

- Coarse dust filter according to ISO 16890: ISO Coarse >90% (according to Old DIN EN 779: G4)
- Fine dust filter according to ISO 16890 ISO ePM2,5 >65% (according to Old DIN EN 779: F7)
- Fine dust filter according to ISO 16890 ISO ePM1 >80% (according to Old DIN EN 779: F9)
- HEPA-filter according to DIN EN 1822:H13; Deposition rate >99,95%

4. Material:

- S235JRG2 in accordance with DIN EN 10025
- 1.4301 in accordance with DIN EN 10028-7
- 1.4571 in accordance with DIN EN 10028-7
- alternative Version = please specify material

5. Additional components:

- Suction-side transition
- Discharge-side transition
- Weather protection
- Bird guard

7 Documentation

The following documents are supplied as standard:

- Data sheet: Filter incl. filter media
- Material certificates
- Declaration of Conformity
- Operating Instructions

Additional documents are available upon request.

8 Spare Parts

We recommend using only original spare parts to replace damaged or worn parts.

We will send you a quote for spare parts upon request.

LTC - Lufttechnik Crimmitschau GmbH excludes all liability and warranty claims for damage resulting from the use of non-original spare parts.

When ordering spare parts, please provide the following information:

- Order number (LTC - Lufttechnik Crimmitschau GmbH):
- Filter configuration (column x row):
- Filter classification:
- Quantity:

Address for spare parts orders:

LTC - Lufttechnik Crimmitschau GmbH

Gewerbering 24

D 08451 Crimmitschau

Germany

phone: +49 3762 / 95 52-0

mail: info@ltc-crimmitschau.com