



Air filtration and clean room units

**GFF In-line filter housing**

At Gerhman we are driven by a strong desire to continuously generate improvements. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability.



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## Air filtration and clean room units

### GFF In-line filter housing



In-line (or duct type) filter housings are appropriate for HVAC systems used in return-air, exhaust-air, and supply-air applications, where improved particle management is needed.

### Key features and applications

- H10, H13 and H14 class standard and high airflow HEPA filters available
- Suitable for both supply and exhaust air.
- Antibacterial epoxy-polyester powder paint finishing to prevent microbial growth
- Easy filter change
- Pressure difference transmitter to inform the user when to change the filter (optional).
- Test probe for measuring the filter pressure loss
- Test probe for measuring particle concentration above the filter
- Sterile air supply in hospitals - also in combination with sterile air contributors
- Exhaust air filtration in ATEX2 –Zones as assembly part of machinery and heavy equipment
- Filtering tasks in off-shore areas (seawater resistant filter system)
- Filtration of corrosive gases or aerosols
- Process air filtration
- Supply air for clean work places in laboratories and industry such as
- Pharmacy, food and electronics production


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#### Unit Options

	Options	
	Code	Detail
<b>Housing</b>	Standard	DKP Steel + Epoxy Polyester Powder Coated
	Option 1	Aluminium + Epoxy Polyester Powder Coated
	Option 2	SS304 Stainless Steel
	Option 3	SS316 Stainless Steel

#### On demand options

- connection pieces and flanges according to the requirements on site
- measuring equipments (pressure gauges, pressure sensors etc.) fans (axial, radial)
- EX protected 
- mobile unit on rollers
- leak test port to ensure a bypass free filter insertion
- condensate drain port

Suitable filter options	Properties
Panel filters	G3 to M5 (EN 779) / ISO coarse to ePM10 (ISO 16890)
Bag filters	G3 to F9 (EN 779) ISO coarse to ISO ePM1 (ISO 16890)
Compact filters	M5 to F9 (EN 779) ISO coarse to ISO ePM1 (ISO 16890)
Hepa filters	E11 to H14 2 1 (EN 1822)
Molecular filters	Adsorption of gaseous air impurities such as VOC's, Odours, harmful and corrosive gases such as H <sub>2</sub> S or SO <sub>2</sub>

## Module size

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modulesize in relation to the filtertype Width x Height	outer dimension W x H [mm]	airflow class EN 779 G4 [m <sup>3</sup> /h]	airflow class EN 779 M5 - F9 [m <sup>3</sup> /h]	airflow class EN 1822 E11 - H14 [m <sup>3</sup> /h]	filter cartridge dimension (according to type) W x H [mm]
0,5 x 0,5	345 x 415	500 - 1000	240 - 1000	140 - 700	287 x 287 305 x 305
0,5 x 1	345 x 720	1000 - 2100	540 - 2100	300 - 2000	287 x 592 305 x 610
1 x 1	650 x 720	1800 - 4200	1100 - 4200	650 - 4000	592 x 592 610 x 610
1 x 2	650 x 1440	3600 - 8400	2200 - 8400	1300 - 8000	592 x 592 610 x 610
2 x 1	1300 x 720	3600 - 8400	2200 - 8400	1300 - 8000	592 x 592 610 x 610
2 x 2	1300 x 1440	7200-16800	4400 - 16800	2600 - 16000	592 x 592 610 x 610

#### standard module length [mm]

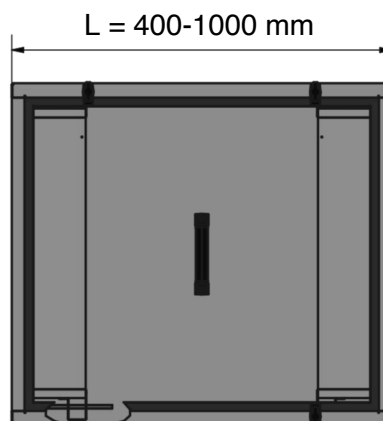
A = 550 mm

B = 800 mm

C = 1000 mm

#### Standards

- each housing comes with 2 individually configurable filterstages
- inspection doors are related to Height x Length always positioned left or right
- sheet metal strength: 1,5 mm



## Accessories

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#### Duct connection adaptor

Round or rectangular connection adaptor



#### Mounting Frames

Corrosion-free mounting frames made of galvanized steel or stainless steel



#### Differential pressure sensor





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[gerhman.com](http://gerhman.com)



• +90 0850 303 4766



• [info@gerhman.com](mailto:info@gerhman.com)



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