



FT...H2

# Electrically Heated Universal Filter Series FT®

Version FT-...-H2, heated at 180 °C [356 °F]

## Special Features

- Electrically heated, max. 180 °C [356 °F]
- Consistent connection technique
- No cold bridges
- Integrated thermostat
- Status alarm
- Easy maintenance

## Application

The electrically heated M&C universal filter is used for separating solid contaminations in analytical technology up to max. 180 °C [356 °F] operating temperature.

Filter elements with high filter porosity and great deep-acting effect are used for optimum filtration of ultra-fine particles.

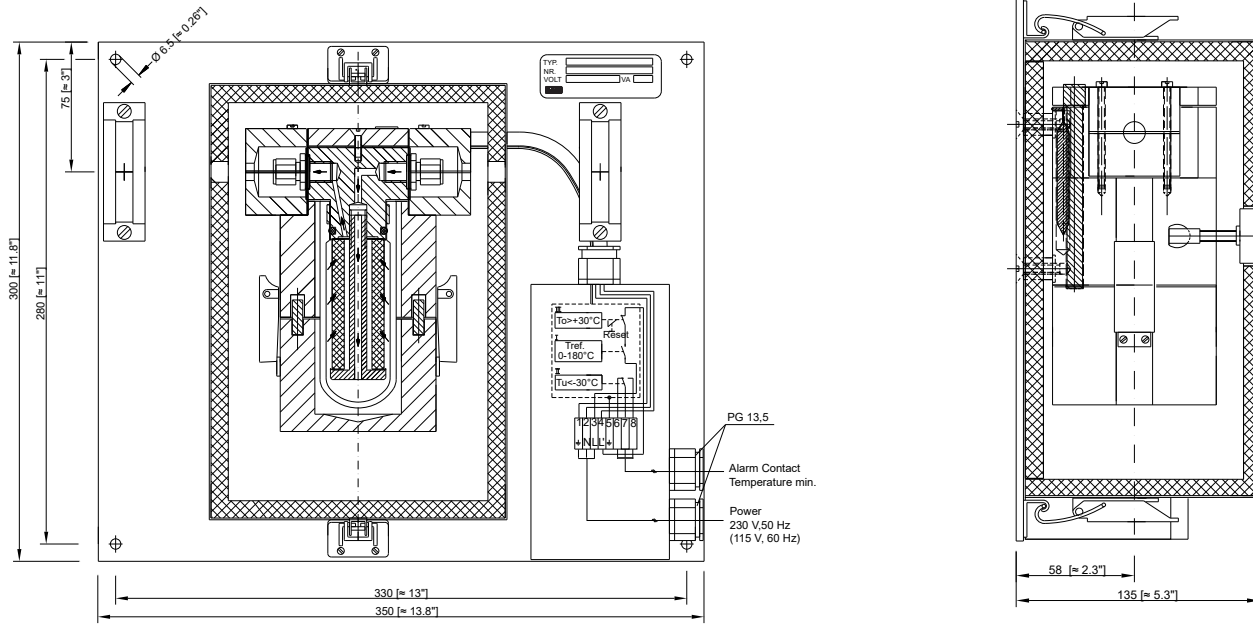
## Description

The universal filter made of temperature-resistant PTFE with integrated filter element (porosity: 3 µm or 0.1 µm) is located in a two-part aluminium body.

Heating and temperature control are provided by a heating cartridge and an adjustable thermostat (Pt100 resistance thermometer on request) incl. high temperature limiter and low temperature alarm with 30 °C fixed to the temperature setpoint.

The switching element of the thermostat and the electrical connection terminals are arranged in a junction box. The operating temperature of the filter is indicated by a thermometer. For thermal insulation and for reasons of touch protection, the heated filter section is covered with an insulated cover.

In order to prevent cold spots at the connection fittings, these are also heated. Tube clamps on both sides are used to support the sample lines.



Dimensions in mm [Inches]

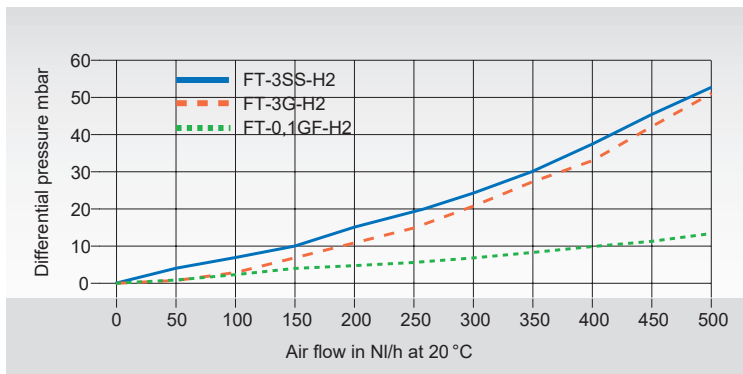
Technical Data

Filter series FT*	FT-3G-H2	FT-3SS-H2	FT-0,1GF-H2
Part No.	01F3006(a)*	01F3008(a)*	01F3007(a)*
Filter porosity/material of filter element	3 µm/glass	3 µm/stainless steel	0.1 µm/glass fiber
Operating pressure max.	4 bar g		
Operating temperature max.	180 °C [356 °F] (for filter up to max. 350 °C [662 °F] see data sheet "Electrically Heated Filter Type FSS-2K/H350, FSS-3SS/H350 and FSS-FW/H350")		
Ambient temperature max.	50 °C [122 °F]		
Stagnant space	65 cm <sup>3</sup>		
Filter surface	70 cm <sup>2</sup>		
Power supply	230/240 V, 50 Hz, 350 VA or Part No. with (a)*: 115 V, 60 Hz		
Electrical connection	2.5 mm <sup>2</sup> terminals, 2 x PG13.5 cable glands		
Protection classification/electrical standard	IP 44 EN 60529/EN61010, EN 60519-1		
Temperature control	Thermostat (Pt100 optionally)		
Temperature adjustment	0 to 180 °C, [32 to 356 °F] (180 °C [356 °F] factory-set)		
Temperature alarm contact	Alarm point: ΔT 30 °C at T <sub>SET</sub> , contact rating: 250 V, 3 A~, 0.25 A =		
Dimension (W x H x D)	350 x 300 x 140 mm [≈ 13.8" x 11.8" x 5.5"]		
Weight	6 kg [≈ 13.2 lbs]		
Method of mounting	Wall-mounting		
Sample connections	G 1/4" i DIN ISO 228/1**		
Material of sample-contacting parts	PTFE, glass, FKM		

\* (a) is an addition to the Part No. for 115 V versions.

\*\* The thread lengths of the screw-in threads correspond to the respective applicable standard. The tolerances of the thread standards are matched to metal threads and cannot be applied to plastic threads.

Differential pressure in mbar with clean filter elements



Please note: NI/h and NI/min refer to the German standard DIN 1343 and are based on these standard conditions: 0 °C [32 °F], 1013 mbar.