

FSS-.../H350

Electrically Heated Filter

Type FSS-2K/H350, FSS-3SS/H350 and FSS-FW/H350

with integrated thermostat, max. 350 °C [662 °F]

Special Features

- Electrically heated, max. 350 °C [662 °F]
- Large filter surface
- Consistent connection technique
- No cold bridges
- Integrated thermostat
- Status alarm
- Easy maintenance

Application

The electrically heated M&C filter type FSS/H350 is used for the separation of solid contaminations in analytical technology up to an operating temperature of 350 °C [662 °F]. Filter elements with high filter porosity and great deep-acting effect are used for optimum filtration of ultrafine particles.

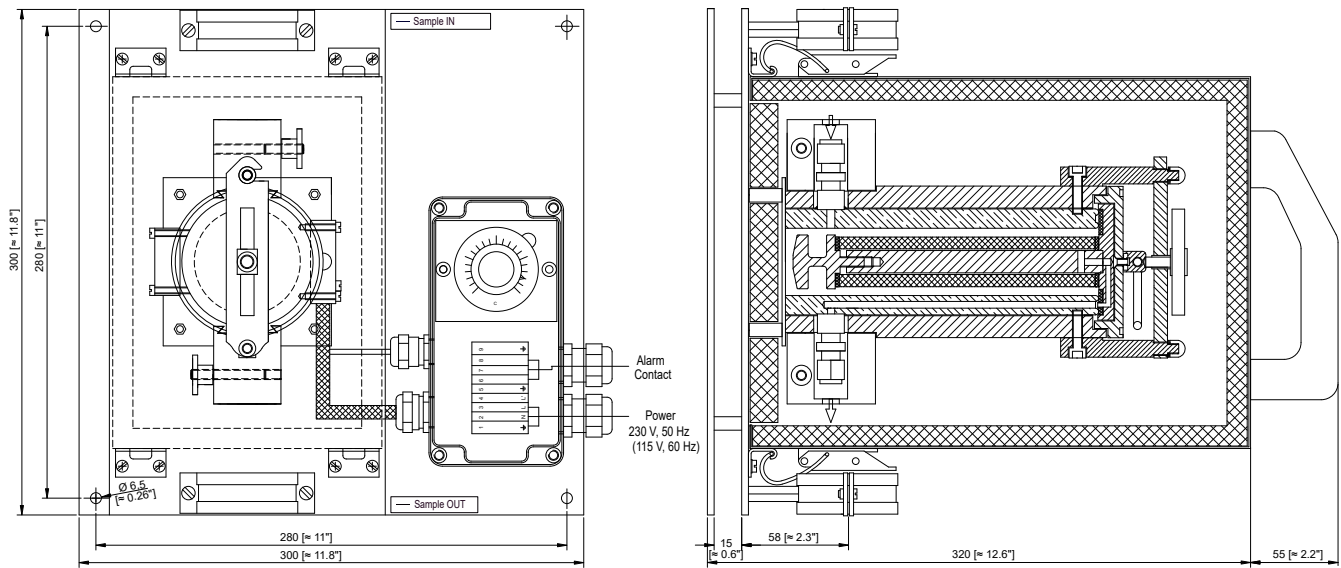
The overall concept guarantees reliable operation and easy maintenance. Filter cleaning or filter element replacement can be carried out without using tools, and the heated sample lines do not have to be dismantled for this purpose.

Description

The electrically heated M&C filter FSS/H350 is mounted on a thermally insulated mounting plate. The stainless steel filter body with integrated filter element, optionally ceramic, stainless steel or glass fibre filter wool, is fully enclosed by a metallic heat-conducting jacket. Heating is provided by a high-performance heating element. The control temperature can be set from +50 °C to 350 °C [122 to 662 °F] at the integrated control thermostat with high temperature limiter at 30 °C above the setpoint and low temperature alarm contact at 30 °C below the setpoint.

To avoid cold bridges, the gas-tight welded connection fittings are also heated by means of two-part heat-conducting jaws. The filter has a thermally insulated cover. The electrical terminal box with integrated thermostat and two tube clamps are located outside the cover. These serve to fasten the electrically heated sample lines - see data sheets for electrically heated sample lines type 3/4/5-N/M/H, type 3/4M-S for permanent installation, type 3/4/5-N/M EX and type 3/4/5-5/30/50/80/100/120 (Ex).

Heated Filter Type FSS/H350



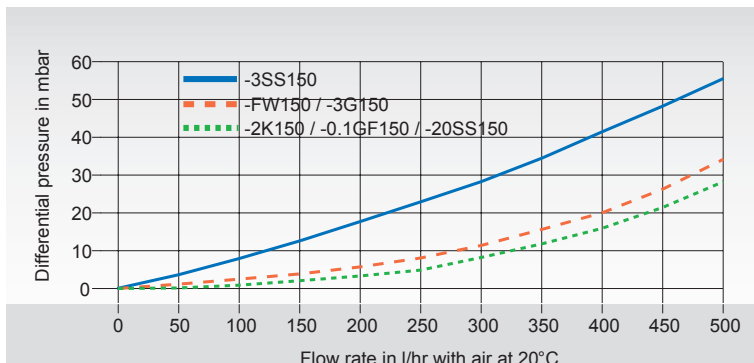
Dimensions in mm [Inches]

Technical Data

Heated filter type	FSS-2K/H350	FSS-3SS/H350	FSS-FW/H350
Part No.	01F3035(a)*	01F3030(a)*	01F3045(a)*
Filter element length 150 mm, material	Ceramic	Stainless steel SS316	Spun glass
Filter porosity	2 µm	3 µm	
Filter surface	140 cm ²		
Operating pressure max.	5 bar g		
Ambient temperature/storage temperature	-20 °C to +60 °C [-4° F to 140 °F]		
Dead volume	130 cm ³		
Gas connections	Swagelok tube connector ø 6 mm, optional ø 1/4"		
Temperature controller	Capillary tube thermostat integrated in electrical junction box, with high temperature limiter and low temperature alarm contact		
Operating temperature	Adjustable from +50 °C to 350 °C [122 °F to 662 °F], factory-set at 250 °C [482 °F]		
Temperature alarm contact	Alarm point at -30 °C below T _{SET} change over contact, voltage-free, contact rating 250 V, 3 A ~0.25 A =		
Power supply	230 V 50 Hz, 800 VA or Part No. with (a)*: 115 V, 60 Hz		
Electrical connections	Terminals 4 mm ² , 2 x cable glands PG13		
Method of mounting	Wall-mounting		
Protection classification/electrical standard	IP 54 EN 60529/EN 61010, EN 60519-1		
Dimensions (W x H x D)	250 x 300 x 300 mm [≈ 9.8" x 11.8" x 11.8"]		
Weight	11 kg [≈ 24.3 lbs]		
Material of sample-contacting parts	Filter chamber: stainless steel 316Ti/sealing: graphite		

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

Differential pressure in mbar with clean filter element



The differential pressure data of filter element FW150 are average values depending on the variable filling density.