

JCT
Analysentechnik

JHAF

Heated Filter integrated in heated JCT Sample Lines



Gas Sampling
Probes

Heated Sample Lines

Sample Gas
Coolers

Condensate
Treatment

Accessories

Gas Conditioning
Systems

Sample Gas
Converters

APPLICATION

- Easy extractive mobile gas analysis
- Gas sampling in dusty and humid processes
- Removal of dust from the sample gas
- In combination with portable analysers
- Protection of the analyzer and to prevent measurement faults

BENEFITS

- Quick and easy ready for use
- Easy handling
- Different sample tubes adaptable
- Easy to change heated filter element
- No condensate formation
- Excellent insulation
- Optimum heat distribution

FEATURES

- Heated **JCT** sample lines JH3F(R) and JH3FG(R) with integrated filter
- Completely heated up to 200 °C
- Filter housing stainless steel SS316Ti (PTFE-coated or Hastelloy as option)
- Ceramic filter element (5 or 20 µm)
- Jacket PA-corrugated hose or PA-braid
- Fixed or interchangeable core
- Completely assembled
- Ready for connection with temperature controllers series HT

TECHNICAL DATA

Model

JHAF

Description	sample gas filter integrated in the heated sample lines JH3F(R) & JH3FG(R)
External protection jacket	PA-corrugated hose or PA-braid, black
Inner core	DN 4/6 fixed or interchangeable, DN 8/10 fixed
Area of application	mobile installation indoor and outdoor

Operation

Temperature	max. 200 °C
Operating pressure	max. 2 bara
Ambient temperature	-40° bis +60 °C

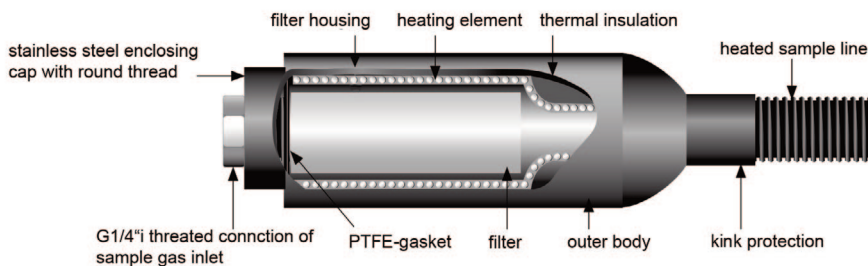
Construction

Filter element	ceramic, 5 µm or 20 µm, 30/15 x 80 mm
Filter housing dimensions / material	Ø 70 mm, L = 195 mm / SS316Ti or Hastelloy resp. PTFE coating as option
Material inner core	PTFE, PFA as option
Heating element	design according to DIN humidity protected with protection braid
Thermal insulation	closed-pore waterproof silicone hose, thermally stabilised, or thermo fleece
End cap filter	hard cap
External diameter JH3FG(R) / JH3F(R)	DN 4/6 mm: 32 / 42 mm; DN 8/10 mm: 42(48) / 42 mm
Minimum bending radius	50 mm

Electrics

Power supply	230 VAC 50 to 60Hz or 115 VAC 50 to 60Hz
Power consumption	100 W/m
Connection cable	3 m long
Connection plug	7-pole plug for connection of temperature controller HT-43 and HT-55 HANQ8 plug for connection of temperature controller HT-41
Sample tubes 1 m, Ø 10 mm and stainless steel fitting 1/4" NPT a - 10 mm	SS316 up to 600 °C / Hastelloy up to 900 °C / Kanthal up to 1,200 °C

Design of integrated filter

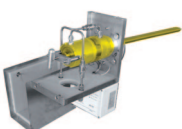


More information about heated sample lines JH3F(R) / JH3FG(R) and suitable temperature controllers can be found in this chapter (2). For mobile applications a temperature controller integrated in the heated sample line is available (see data sheet JH3FG & JH3FGR in this chapter(2)). Please consult **JCT** sales for possible filter and heated sample line configurations.

The specified hose length is determined as follows:

- 1) for heated hoses with fittings - the heated hose length including the fittings
- 2) for heated hoses without fittings - the heated hose length including the end terminations
- 3) for heated hoses with core projection - the heated hose length including the end terminations (if necessary incl. fitting), the projection is shown separately the length tolerance is +/- 2 % without special specification and refers to a temperature of 22 °C, operational changes in length (pressure, temperature...) are not covered by this specs

Gas Sampling **Probes**



Heated Sample **Lines**



Sample Gas **Coolers**



Gas Conditioning **Systems**



NOx **Converter**



and **solutions** for

