JH3E & JH3ER Heated Sample Line







Heated Sample Lines

Sample Gas Coolers

Condensate Treatment

Accessories

Gas Conditioning Systems

> Sample Gas Converters



APPLICATION

- · Extractive gas analysis
- · Emission and process monitoring
- Transport of sample gas from sample point to analysis system
- · Remains steadly/safely above acid dew point
- Protection against measured value falsification and frost
- · Indoor and outdoor use

BENEFITS

- · No condensate formation, no freezing
- · Resilient external protection
- · Excellent insulation
- · Optimal heat deployment
- · Customer-specific executions
- · Easy exchange of the inner core (JH3ER)
- · Long lifetime
- Kink protection

FEATURES

- Operating temperature up to 180 °C with temperature controller
- External jacket of corrugate polyamide PA12
- · Heat insulated by thermo fleece
- · Ready to use
- Interchangeable inner core for JH3ER
- · Second core for e.g. calibration gas as option
- · Inner core reinforced with stainless steel braid
- Built-in control wires for JES-family sample probes (option)

TECHNICAL DATA

Model	JH3E	JH3ER			
Description	regulated heated sample line (r	equires temperature controller)			
External jacket	corrugated polyamide 11/12 jacket, black option: with silicone layer				
Sample gas core	fixed interchangeable				
Area of application	mobile and fixed installation indoor and outdoor				
Integrated control lines (option)	control line 3 x 1 mm² (power supply) plus 2 x 0,75 mm² (status control) or control line 3 x 1,5 mm² (power supply) plus 2 x 1 mm² (status control)				
Operation data					
Operating temperature	max. 180 °C				
Operating pressure at 200 °C	atmospheric option pressure hose: - PFTE / PFA core: DN 4/6 mm 4 bara; DN 6/8 mm 3 bara; DN 8/10 mm 2 bara, 1/4" OD 5 bara, 3/8" OD 4 bara - SS316 core, all diameters: 10 bara				
Ambient temperature*	-20 °C to +60 °C (up to +80 °	C with optional silicone layer)			
	Construction				
Material inner core	PTFE, PF	A, SS316			
Heating element	design according to DIN moisture proof with protection braid				
Thermal insulation	multi-layered thermo fleece				
End configuration	silicone caps (see table below), sample gas core 100 mm protruded				
Maximum sample line length*	115 V: DN 4/6 and 6/8 mm – 30 m, DN 8/10 and 10/12 mm – 25 m 230 V: DN 4/6 and 6/8 mm – 60 m, DN 8/10 and 10/12 mm – 50 m, 400 V: all diameters – 100 m (only for sample gas core 6/8 mm or bigger)	115 V: DN 4/6 and 6/8 mm – 25 m, 230 V: DN 4/6 and 6/8 mm – 50 m, 400 V: all diameters – 50 m			
Diameter sample line outside	43 mm				
Minimum bending radius	DN 4/6 mm: 200 mm, DN 6/8 mm: 200 mm, DN 8/10 mm: 250 mm, DN 10/12 mm: 250 mm	DN 4/6 mm: 260 mm DN 6/8 mm: 260 mm			
Dimensions of silicone caps	L = 110 mm, Ø 49 mm, Ø 56 mm with integrated control lines				
Protection class	IP 54 (EN60529)				
	Electrics				
Power supply	115 VAC 50/60 Hz or 230 VAC 50/60 Hz or 400 VAC 50/60 Hz Y-connection (L1, L2, L3, PE)				
Power consumption	DN 4/6 mm: 90 W/m; DN 6/8 mm: 90 W/m; DN 8/10 mm: 100 W/m ; DN 10/12 mm: 100 W/m	DN 4/6 mm: 100 W/m; DN 6/8 mm: 100 W/m			
Connection cable	1,5 m with open leads				
Connection plug (option)	4-pin + PE or 6-pin + PE connector				

^{*} To achieve extended length, **JCT** offers heated lines with reduced power (W/m) or with a second heating circuit. For lower ambient temperatures versions with higher performance are available. Please consult **JCT** sales team.

End configuration of sample line

		With electrical connection (side 1 – cabinet side)		Туре	
Н	φ (8) (8		К	silicone cap	
				silicone cap	Dimensions in mm

ORDER CODE

JH3E with fixed inner core

3110E 11101 11101 0010	
Temperature sensor PT100	2
Temperature sensor NiCr-Ni type K	4
2 x Temperature sensor PT100	9
Jacket made of corrugated PA 11/12	4
Jacket made of corrugated PA 11/12 with silicone layer	9
Core 100 mm protruded	0
Line length without protrusion in dm (e.g.: 10 m = 100; 4,5 m = 045)	XXX
Diameter DN 4/6 mm	
Diameter DN 6/8 mm	6
Diameter DN 8/10 mm	8
Outer diameter 1/4"	5
Outer diameter 3/8"	7
PTFE core	PTFE
PFA core	PFA
SS316 core	SS
Power supply 115 VAC 50/60 Hz	1
Power supply 230 VAC 50/60 Hz	2
Power supply 400 VAC 50/60 Hz Y-connection	4
End configuration side 2 type H (without electrical connection)	н
End configuration side 1 type K (with electrical connection)	K
End configuration side 1 type L (with electrical connection)	
Without calibration core	
Calibration core DN4/6 mm, PTFE	
No connection plug, wire open end	A
Connection plug 6-pole + PE plug (max. 10 A)	В
Connection plug 4-pole + PE plug (max. 20 A)	C
Customized version (detailed description needed)	X
	
Order code	JH3E.

Suitable temperature controller can be found at www.jct.at

ORDER CODE

JH3ER with interchangeable inner core

Temperature sensor PT100	2
Temperature sensor NiCr-Ni type K	4
2 x Temperature sensor PT100	9
Jacket made of corrugated PA 11/12	
Jacket made of corrugated PA 11/12 with silicone layer	9
Core 100 mm protruded	
Line length without protrusion in dm (e.g.: 10 m = 100; 4,5 m = 045)	T T XXX
Diameter DN 4/6 mm	4
Diameter DN 6/8 mm	6
Outer diameter 1/4"	5
PTFE core	PTFE
PFA core	PFA
Power supply 115 VAC 50/60 Hz	
Power supply 230 VAC 50/60 Hz	2
Power supply 400 VAC 50/60 Hz Y-connection	4
End configuration side 2 type H (without electrical connection)	Н
End configuration side 1 type K (with electrical connection)	К
End configuration side 1 type L (with electrical connection)	
Without calibration core	0
Calibration core DN4/6 mm	4
No connection plug, wire open end	A
Connection plug 6-pole + PE plug (max. 10 A)	В
Connection plug 4-pole + PE plug (max. 20 A)	С
Customized version (detailed description needed)	XY
	
Order code J	JH3ER.

Suitable temperature controller can be found at www.jct.at

Accessories Part Number



