# 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 (requires 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, PFA, 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)	<b>115 V:</b> DN 4/6 and 6/8 mm – 25 m, <b>230 V:</b> DN 4/6 and 6/8 mm – 50 m, <b>400 V:</b> 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 40	0 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					

<sup>\*</sup> 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	9 <del>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 </del>		К	silicone cap	
			L	silicone cap	Dimensions in mm

# **ORDER CODE**

## JH3E with fixed 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	4
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)	XXX
Diameter DN 4/6 mm	4
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	
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)	XY
	<b>+ + + + + + + + + + +</b>
Order code	JH3E.

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

## **ORDER CODE**

## JH3ER with interchangeable inner core

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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	
Line length without protrusion in dm (e.g.: 10 m = 100; 4,5 m = 045)	XXX
Diameter DN 4/6 mm	4
Diameter DN 6/8 mm	6
Outer diameter 1/4"	5
PTFE core	PTFE
PFA core	PFA 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
	<b>+++++++++++++</b>
Order code	JH3ER.

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

**Accessories Part Number** 



Universal mounting clamp for mounting at JES series gas sample probes for line diameters 35 to 50 mm

35.00980









