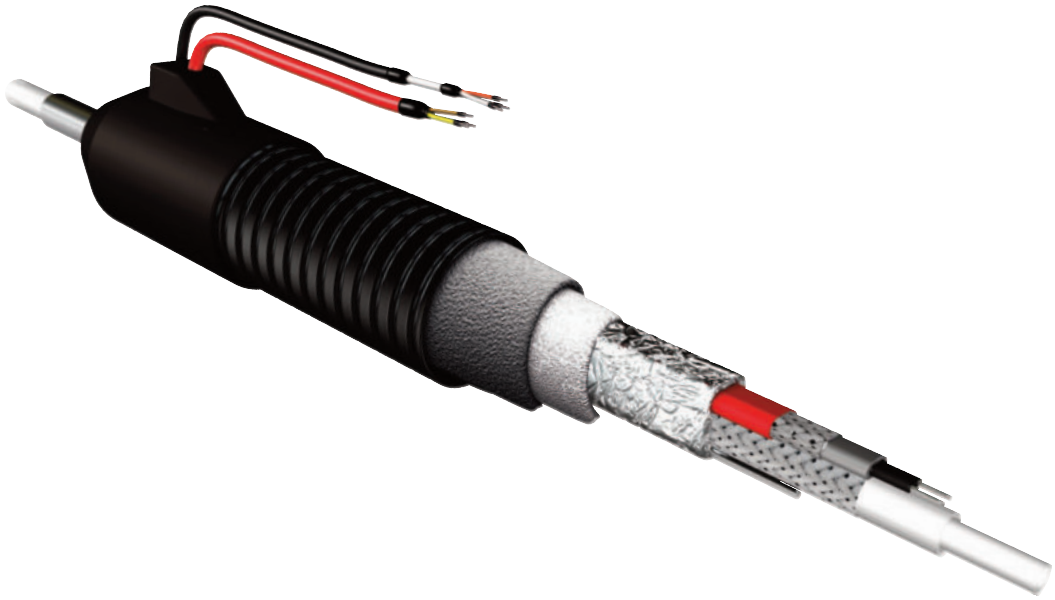
JH3BE
Heated Sample Line self-regulating cut-to-length



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 or for frost protection
- To prevent measurement faults
- Indoor and outdoor use

FEATURES
- Operating temperature up to 120 °C
- External jacket of corrugated polyamide PA12
- Heat insulation with thermo fleece
- Sample gas core: PTFE, PFA or SS316, DN 4 to DN 10 mm
- Delivered with end caps mounted from factroy or open end(s) for on site termination
- Second core for e.g. calibration gas as option

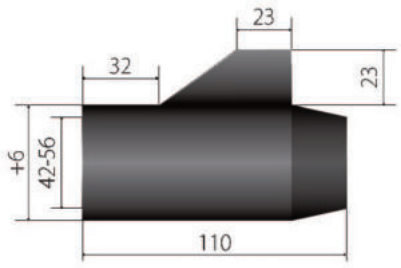
BENEFITS
- No condensate formation, no freezing
- Resilient external protection
- Excellent insulation
- Optimal heat deployment
- Available for "cut-to-length on-site" in rolls up to 150 m with additional termination kits
- Available as "ready-to-use" heated sample line with termination from factroy

TECHNICAL DATA

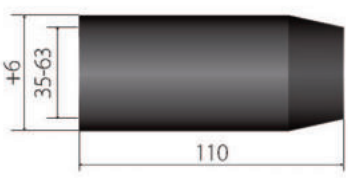
Model	JH3BE
Description	self-regulated heated sample line "cut-to-length on-site" or "pre-assembled" from factory
External jacket	corrugated polyamide 12 jacket, black option: with silicone layer
Sample gas core	fixed; interchangeable on request
Area of application	fixed installation indoor and outdoor
Operation Data	
Operating temperature	self-regulating 30 °C / 100 °C / 120 °C (optional 5 °C / 50 °C / 80 °C) at –20 °C ambient temperature
Operating pressure (max. at 150 °C)	atmospheric option pressure hose: - PFTE / PFA core: DN 4/6 mm 6 bara; DN 6/8 mm 4 bara; DN 8/10 mm 3 bara, 1/4" OD 7 bara, 3/8" OD 5 bara - SS316 core, all diameters: 10 bara
Ambient temperature	−20 °C to +60 °C
Construction	
Material sample gas core	PTFE, PFA, SS316
Heating Element	heating cable
Thermal insulation	multi-layered thermal fleece
End configuration	silicone caps (mounted ex-works or on-site termination kit)
Maximum length of finished sample line	see table "rated output" / column "maximum length of heating circuit" page 4
Outer diameter heated sample line (without end caps)	for operating temperatures up to 100 °C: 43 mm for operating temperature 120 °C: 55 mm
Dimensions silicone end caps	heated sample line diameter plus 6 mm
Minimum bending radius	DN 4/6 and DN 6/8 mm: 230 mm DN 8/10 and DN 10/12mm: 280 mm with interchangeable inner core: DN 4/6 and DN 6/8 mm: 280 mm
Weight	1000 g/m
Maximum production lenght	max. 150 m
Protection class	IP54 (EN60529)
Approvals / Sign	CE
Electrics	
Power supply	115 VAC 50/60 Hz or 230 VAC 50/60 Hz
Power consumption	see table "power consumption" page 4
Temperature sensor	without; optional 2-wire PT100; others on request
Power supply cable (if terminated from factory)	1.5 m cable with open leads, depending on power consumption: up to 16 A = 3 x 1.5 mm² cables up to 25 A = 3 x 2.5 mm² cables up to 32 A = 3 x 6 mm² cables with modified end cap

* At voltages below 230 VAC the power density is reduced and at ambient temperatures below 0 °C the max. temperature is reduced. For further information please contact our **JCT** sales team.

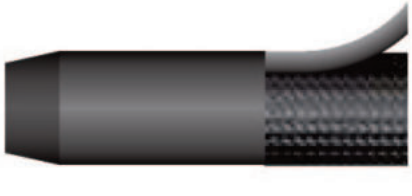
Dimensions of end caps



end cap for self termination, included in set



end cap side 2



end cap for factroy termination type "L"

Dimensions in mm

ORDER CODE

JH3BE

Maintain temperature max. 30 °C at −20 °C	1												
Maintain temperature max. 100 °C at −20 °C	2												
Maintain temperature max. 120 °C at −20 °C	3												
Jacket made of corrugated PA 11/12		4											
Core 500 mm protruded			0										
Line length without protrusion in dm (e.g.: 10 m = 0100; 4,5 m = 0045)				-XXXX-									
Diameter DN 4/6 mm					4								
Diameter DN 6/8 mm					6								
Diameter DN 8/10 mm					8								
Diameter DN 1/4”					5								
Diameter DN 3/8”					7								
PTFE core						PTFE							
PFA core						PFA							
SS316 core						SS							
Power supply 230 VAC / 50/60 Hz							2						
Power supply 115 VAC / 50/60 Hz							1						
Without calibration gas core								0					
Calibration gas core DN 4/6 mm, PTFE								4					
End configuration side 2 (without electr. connection): open (for self-termination)									0				
End configuration side 2 (without elect. connection): silicon cap									H				
End configuration side 1 (with electrical connection): open (for self termination)										0			
End configuration side 1 (with electrical connection): silicone cap										L			
Without temperature sensor											T0		
With 2-wire PT100 (built in from factroy, only with end configuration "L")											T1		
Customized version (detailed description needed)												XY	
Order code		4	0	-	-							XY	

Accessories

		Part Number
	Universal mounting clamp for mounting at gas sample probes series JES for line diameters 35 to 50 mm	**35.00980**
	Universal-mounting clamp for mounting at gas sample probes series JES for line diameters 50 to 61 mm	**35.00981**
Power connection and assembly kits 	2 x silicone cap connection, 1,5 m connection cable (silicone, 3 x 1,5 mm²), for self assembly, holding temp. 5 °C to 30 °C	**68.00100**
	2 x silicone cap connection, 1,5 m connection cable (silicone, 3 x 1,5 mm²), for self assembly, holding temp. 50 °C to 100 °C	**68.00110**
	2 x silicone cap connection, 1,5 m connection cable (silicone, 3 x 1,5 mm²), for self assembly, holding temp. 120 °C	**68.00120**
	Additional material is required for each set. Sufficient for 5 connections and terminations	**68.00130**
Temperature sensor	PT100 / 2-wire RTD	**68.00150**

RATED OUTPUT

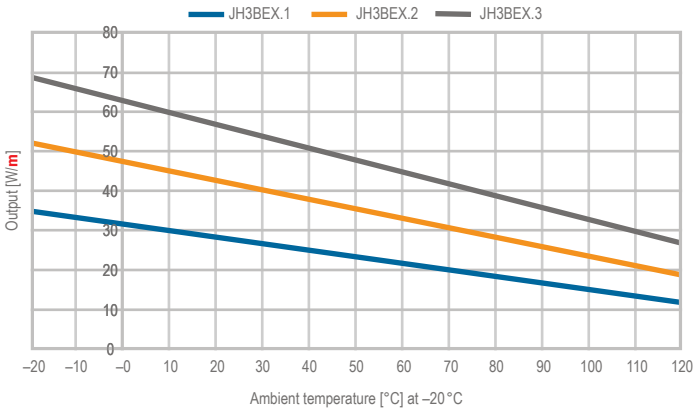
230 VAC				
Start-up temperature	Fuse circuit breaker (A)	max. length of heating circuit (m)		
		JH3BEX.1	JH3BEX.2	JH3BEX.3
10 °C	16	80,0	53,0	39,0
	20	100,0	66,0	49,0
	25	109,0	83,0	62,0
	32	109,0	89,0	77,0
0 °C	16	75,0	50,0	37,0
	20	95,0	63,0	47,0
	25	106,0	79,0	59,0
	32	106,0	86,5	75,0
–10 °C	16	71,0	48,0	35,0
	20	90,0	60,0	44,0
	25	103,5	75,0	56,0
	32	103,5	84,5	68,0
–20 °C	16	68,0	45,0	34,0
	20	85,0	57,0	42,0
	25	101,0	72,0	54,0
	32	101,0	82,5	65,0

115 VAC				
Start-up temperature	Fuse circuit breaker (A)	max. length of heating circuit (m)		
		JH3BEX.1	JH3BEX.2	JH3BEX.3
10 °C	15	49,5	31,0	22,0
	20	66,5	42,0	30,0
	25	84,0	53,0	38,0
	30	101,0	64,0	46,0
0 °C	15	47,0	29,5	21,0
	20	64,0	40,0	28,0
	25	80,0	51,0	36,0
	30	69,0	62,0	44,0
–10 °C	15	45,5	29,0	20,0
	20	61,0	39,0	27,0
	25	77,0	49,0	34,0
	30	93,0	59,0	41,5
–30 °C	15	68,0	26,5	18,0
	20	57,0	36,0	24,5
	25	72,0	46,0	31,0
	30	86,0	55,0	37,5

POWER CONSUMPTION

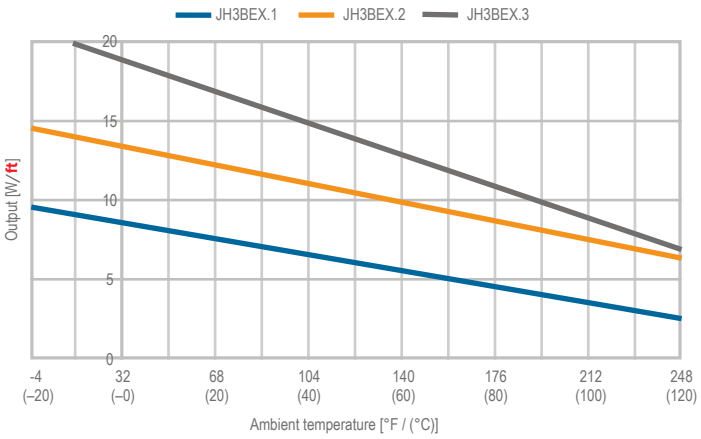
230 VAC

note: consumption (metric) [W/**m**]

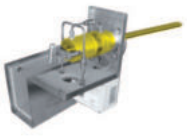


120 VAC

note: consumption (imperial) [W/**ft**]



Gas Sampling **Probes**



Heated Sample **Lines**

Sample Gas **Coolers**

JCT Analysentechnik

Gas Conditioning **Systems**

NOx **Converter**

and **solutions** for

IECEx
—fixed— installation
◂portable▸

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