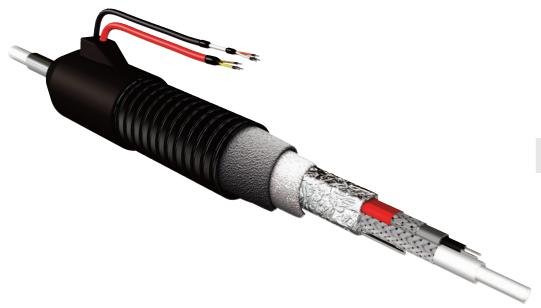
JH3BE Heated Sample Line self-regulating cut-to-length







Gas Sampling Probes

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

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

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

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TECHNICAL DATA

MODEL	JH3BE
MUDEL	JUODE

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

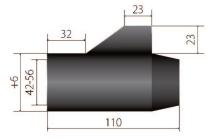
Operating temperature	self-regulating 30 °C / 100 °C / 120 °C (optional 5 °C / 50 °C / 80 °C) at –20 °C ambient temperature
Operating pressure (max. at 150 °C)	atmospheric option pressure hose: - PFTE / PFA core: DN 4/6 mm 6 bara; DN 6/8 mm 4 bara; DN 8/10 mm 3 bara, 1/4" OD 7 bara, 3/8" OD 5 bara - SS316 core, all diameters: 10 bara
Ambient temperature	-20 °C to +60 °C

CONSTRUCTION

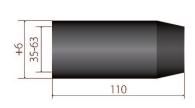
CONSTRUCTION	
Material sample gas core	PTFE, PFA, SS316
Heating Element	heating cable
Thermal insulation	multi-layered thermal fleece
End configuration	silicone caps (mounted ex-works or on-site termination kit)
Maximum length of finished sample line	see table "rated output" / column "maximum length 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	1,000 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 = $3 \times 1.5 \text{ mm}^2$ cables up to $25 \text{ A} = 3 \times 2.5 \text{ mm}^2$ cables up to $32 \text{ A} = 3 \times 6 \text{ mm}^2$ cables with modified end cap				



end cap for self termination, included in set



end cap side 2



end cap for factroy termination type "L"

ORDER CODE

JH3BE

Order code		4	0									XY
, , ,												
Customized version (detailed description needed)												XY
With 2-wire PT100 (built in from factroy, only with end configuration "L")											T1	
Without temperature sensor											T0	
End configuration side 1 (with electrical connection): silicone cap										L		
End configuration side 1 (with electrical connection): open (for self termination)										0		
End configuration side 2 (without elect. connection): silicon cap									Н			
End configuration side 2 (without electr. connection): open (for self-termination)									0			
Calibration gas core DN 4/6 mm, PTFE								4				
Without calibration gas core								0				
Power supply 115 VAC / 50/60 Hz							1					
Power supply 230 VAC / 50/60 Hz							2					
SS316 core						SS						
PFA core						PFA						
PTFE core						PTFE						
Diameter DN 3/8"					7	ces	corres	oond to I	DIN 2006	66.	_	
Diameter DN 1/4"					5				ons of doses. The			
Diameter DN 8/10 mm					8	tru	ding insi	de tube	is not in	cluded.		
Diameter DN 6/8 mm					6	len	gth inclu	iding the	without end cap	s. The I		
Diameter DN 4/6 mm					4	len	gth inclu	iding the	s with fit fittings			
Line length* without protrusion in dm (e.g.: 10 m = 0100; 4.5 m = 0045)				-XXXX-					e length i			
Core 500 mm protruded			0									
Jacket made of corrugated PA 11/12		4										
Maintain temperature max. 120 °C at −20 °C	3											
Maintain temperature max. 100 °C at −20 °C	2											
Maintain temperature max. 30 °C at −20 °C	1											

	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

for self assembly, holding temp. 120 °C

 $2\ x$ silicone cap connection, $1.5\ m$ connection cable (silicone, $3\ x\ 1.5\ mm^2$),

Accessories

Part Number

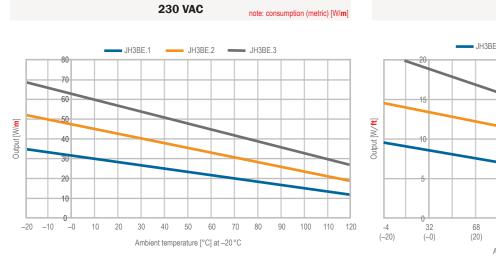
68.00120

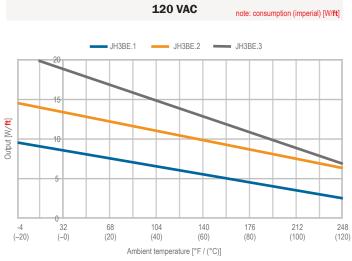
RATED OUTPUT

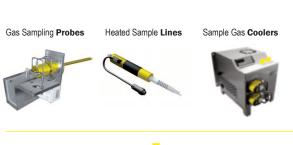
230 VAC							
Start-up	Fuse circuit	max. length of heating circuit (m)					
temperature	breaker (A)	JH3BE.1	JH3BE.2	JH3BE.3			
	16	80.0	53.0	39.0			
10°C	20	100.0	66.0	49.0			
10 0	25	109.0	83.0	62.0			
	32	109.0	89.0	77.0			
	16	75.0	50.0	37.0			
0°C	20	95.0	63.0	47.0			
0 0	25	106.0	79.0	59.0			
	32	106.0	86.5	75.0			
	16	71.0	48.0	35.0			
−10 °C	20	90.0	60.0	44.0			
	25	103.5	75.0	56.0			
	32	103.5	84.5	68.0			
	16	68.0	45.0	34.0			
−20 °C	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	Fuse circuit max. length of heating circuit (m)							
temperature	breaker (A)	JH3BE.1	JH3BE.1 JH3BE.2					
	15	49.5	31.0	22.0				
10°C	20	66.5	42.0	30.0				
10 0	25	84.0	53.0	38.0				
	30	101.0	64.0	46.0				
	15	47.0	29.5	21.0				
0°C	20	64.0	40.0	28.0				
	25	80.0	51.0	36.0				
	30	69.0	62.0	44.0				
	15	45.5	29.0	20.0				
−10 °C	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













NOx Converter



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