JCE-2 Ex Sample Gas Compressor Cooler





- · Operation in Ex zone 2
- · Extractive gas analysis
- · Emission and process monitoring
- Continuous drying of sample gas to a precise low and constant outlet dew point
- Minimizes water vapor cross sensitivities and volumetric errors

BENEFITS

- Extremely precise long-term stable dew point even under varying loads
- High flow rates and high water vapor dew points possible
- · Easy to change heat exchangers
- · Continuous condensate removal
- · Low maintenance operation
- · Easy to maintain design

FEATURES

- Proven and reliable technology with ATEX approval
- · Performance optimized construction
- High performance heat exchanger with flow rates up to 350 NI/hr
- Heat exchanger material PVDF or stainless steel
- · One or two independent gas paths
- · Proportional temperature controller
- Digital temperature display
- · Integrated condensate pumps
- · Status contact
- Compact design





Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate Treatment

Accessories

Gas Conditioning System

Sample Gas
Converters

TECHNICAL DATA

Model	JCE-2 Ex
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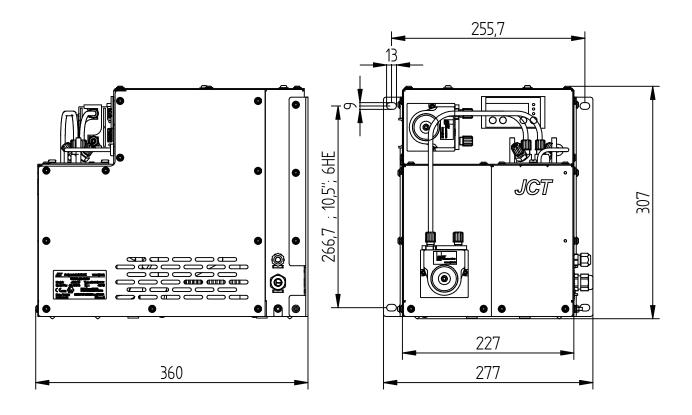
Description	explo	explosion proof sample gas compressor cooler for Ex zone 2			
Cooling principle		compresso	or cooling		
Number of heat exchangers / Gas paths	1 / 1 (Mono) 1/2 (Dual)				
Material heat exchangers	PVDF	SS316	PVDF	SS316	
	Operatio	n			
Max. gas flow rate* [NI/hr]	250	350	2 x 125	2 x 180	
Max. Gas inlet temperature* [°C]	140	180	140	180	
Max. Gas inlet dew point* [°C]	70	80	70	80	
Gas outlet dew point		+3	°C		
Dew point stability (for constant inlet conditions)		±0,3 K			
Ambient temperature		+5° to +	-40 °C		
Cooling capacity	90 W	160 W	90 W	160 W	
Temperature alarm limits	< 0 / > +10 °C				
Operating pressure with condensate pump		0,2 to 2,	2 bara		
Max. operating pressure without condensate pump [bara]	2,2	100	2,2	100	
Ready for operation		< 20	min		
Pressure drop at 100 NI/hr		ca. 6	mbar		
	Construct	ion			
Dimensions over all (W x H x D)	rear panel mounting: 277 x 307 x 360 mm side panel mounting: 403 x 307 x 234 mm				
Installation	stand alone or wall mounting (rear or side panel)				
Mounting position	horizontal				
Weight		19 kg			
Housing / Colour		stainless steel SS304 / natural			
Dead volume per gas path	67 ml				
Connection sample gas inlet	6 mm tube				
Connection sample gas outlet and condensate outlet on top (standard)	PVDF: PVDF hose fitting DN 4/6; 1.4401: 6 mm tube				
Connection condensate outlet at the bottom (on request)	12 mm tube				
Protection class	IP 20 (EN 60529 / EN 61010)				
Type of protection		ы II 3G Ex pzc mc nA ic IIc T3 Gc (EN60079)			
Approvals / Signs		CI	E		
	Electrics				
Power supply	22	220 to 240 VAC 50/60 Hz or 100 to 115 VAC 50/60 Hz			
Power consumption (depending on load and ambient temperature)		190 W			
Connection power / Status signal		2,3 m cable, open ends			
Fusing	external on in	external on installation site, fuse characteristic C: 230 VAC 6 A; 115 VAC 10 A			
On time		100	%		
Temperature indication		digi	tal		

Status contact

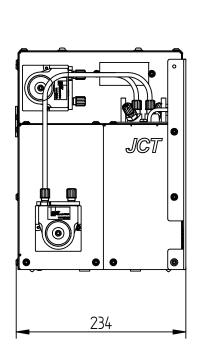
volt free changeover contact max. 230 VAC / 2 A min. 5 VADC / 5 mA $\,$

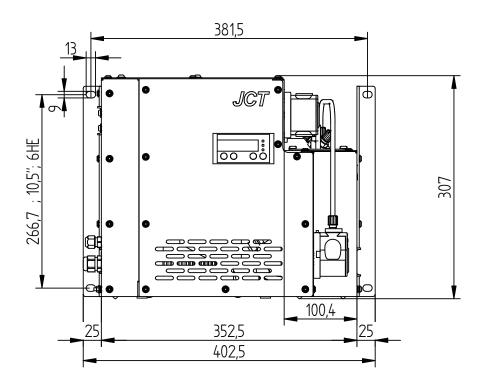
^{*} Results from the effective cooling capacity at 25 °C ambient temperature and 3 °C outlet dew point and can be influenced by further operational parameters

JCE-2 Ex for rear panel mounting



JCE-2 Ex for side panel mounting





ORDER CODE

JCE-2 Ex

	for side panel mounting		Q	4			
Gas heat exchanger with condensate outlet on top	1 Mono PVDF gas heat exchanger			1			
	1 Mono SS316 gas heat exchanger			2			
	1 Dual PVDF gas heat exchanger			4			
	1 Dual SS316 gas heat exchanger			5			
	1 Mono PVDF gas heat exchanger			Α			
Gas heat exchanger with condensate outlet at bottom	1 Mono SS316 gas heat exchanger			В			
(only without condensate pump)	1 Dual PVDF gas heat exchanger			D			
	1 Dual SS316 gas heat exchanger			Ε			
	without condensate pump JSR-25				0		
Condensate pump	1 condensate pump JSR-25				1		
	2 condensate pumps JSR-25				2		
Dowor cupply	230 VAC 50/60 Hz					1	
Power supply	115 VAC 50/60 Hz					3	
Ontions	Standard version						Χ
Options	Special version (on request)						1
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Order code		JCE-2.					

Accessories

Order code	Description
K9521500	Automatic liquid drainer 11-LD, completely out of stainless steel, connections 1/2" NPT female (further information see data sheet in chapter 4).
K1738066	Male connector 1/2" NPT, 12 mm tube for connection of the 11-LD at the heat exchanger











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