

# JCE-2 Ex Midi Sample Gas Compressor Cooler



## JCT

Analysentechnik  
GmbH

Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate  
Treatment

Accessories

Gas Conditioning  
Systems

Sample Gas  
Converters

## APPLICATION

- For operation in Ex-zone 2
- For extractive gas analysis
- For emission and process monitoring
- Continuous drying of sample gas to a precise low and constant outlet dew point
- Minimises water vapour cross sensitivities and volumetric errors

## BENEFITS

- Extremely precise long term stable dew point even under varying loads
- High flow rates and water vapour 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 optimised construction
- High performance heat exchanger with flow rates up to 350 NI/hr
- Heat exchanger material PVDF or stainless steel
- One or two independant gas paths
- Proportional temperature controller
- Digital temperature display
- Integrated condensate pumps
- Status contact
- Compact design

MADE IN AUSTRIA



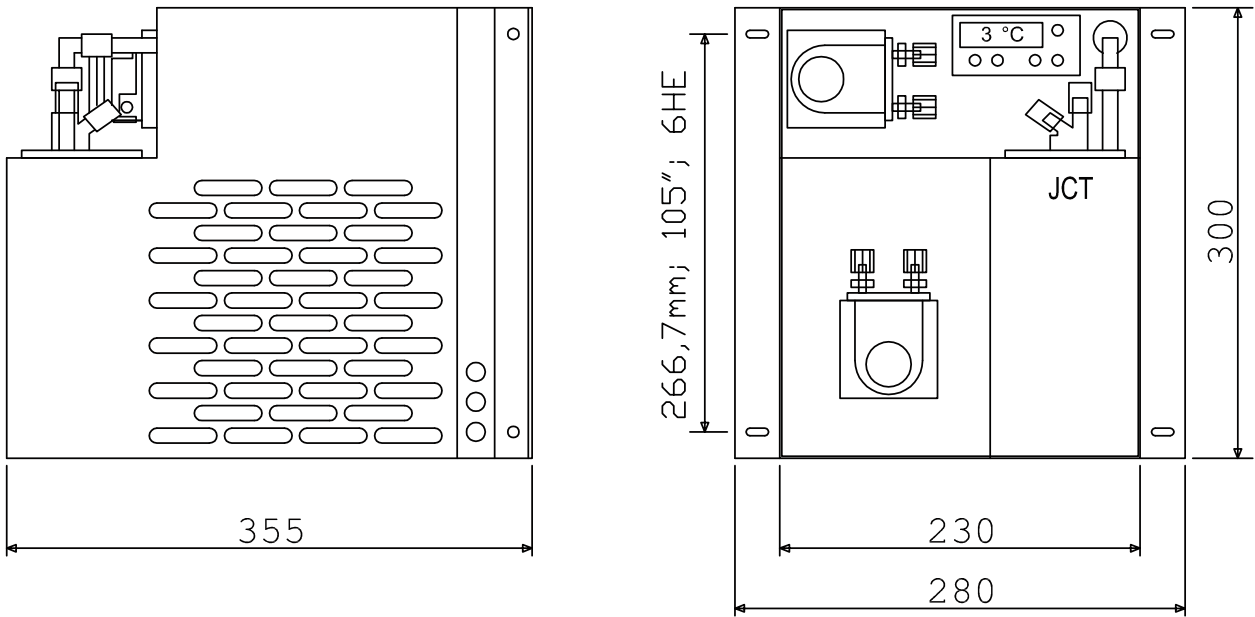
## TECHNICAL DATA

Model	JCE-2 Ex Midi			
Description	explosion proof sample gas compressor cooler for Ex-zone 2			
Cooling principle	compressor cooling			
Number of heat exchangers / gas paths	1 / 1 (Mono)		1/2 (Dual)	
Material heat exchangers	PVDF	SS316	PVDF	SS316
<b>Operation</b>				
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)	±0,3K			
Ambient temperature	+5...+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...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			
<b>Construction</b>				
Dimensions over all (W x H x D)	rear panel mounting: 230 x 300 x 355 mm side panel mounting: 355 x 300 x 230 mm			
Installation	stand alone or wall mounting (rear or side panel)			
Mounting position	horizontal			
Weight	18,5 kg			
Housing, colour	sheet steel 1,5 mm, powder coated, RAL 7035			
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	⚠ II 3G Ex ma IIA T3; ⚠ II 3D Ex ma IIIB T180°C (EN60079)			
Approvals / signs	CE			
<b>Electrics</b>				
Power supply	220....240 VAC 50/60 Hz or 100....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 installation site, fuse characteristic C: 230 VAC 6 A; 115 VAC 10 A			
On-time	100 %			
Temperature indication	digital			
Status contact	volt free changeover contact max. 230 VAC / 2 A min. 5 VADC / 5 mA			

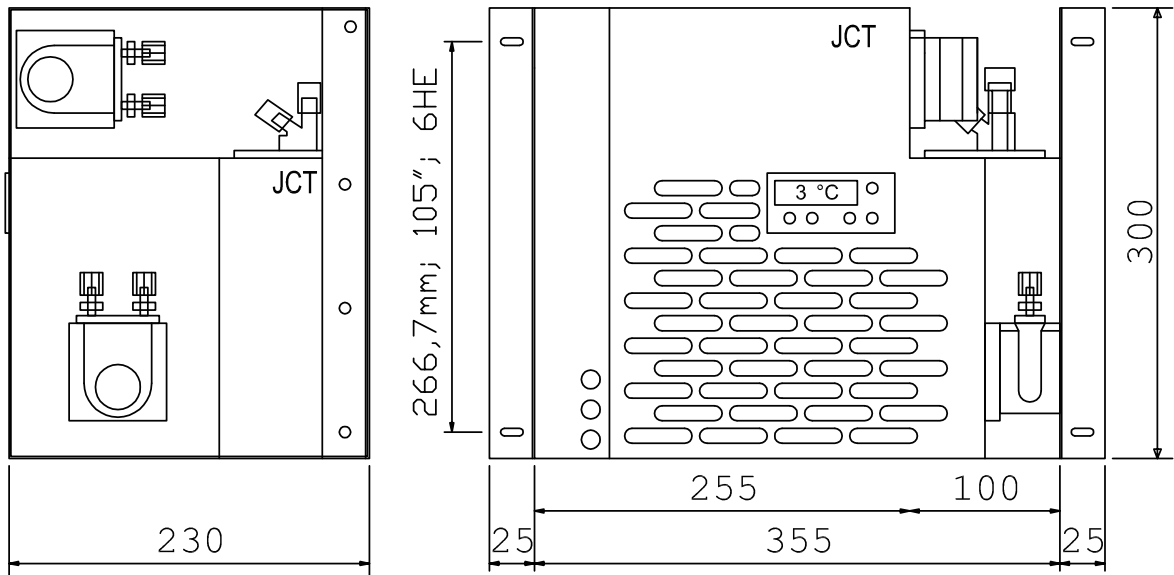
\* Results from the effective cooling capacity at 25°C ambient temperature and 3°C outlet dew point and can be influenced by further operational parameters

## DIMENSIONS

### JCE-2 Ex Midi for rear panel mounting



### JCE-2 Ex Midi for side panel mounting



Dimensions in mm

## ORDER CODES

### JCE-2 Ex Midi

Housing	For rear panel mounting	S							
	For side panel mounting	Q							
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	
Gas heat exchanger with condensate outlet at bottom (only without condensate pump)	1 Mono PVDF-gas heat exchanger							A	
	1 Mono SS316-gas heat exchanger							B	
	1 Dual PVDF-gas heat exchanger							D	
	1 Dual SS316-gas heat exchanger							E	
Condensate pump	Without condensate pump JSR-25							0	
	1 Condensate pump JSR-25							1	
	2 Condensate pumps JSR-25							2	
Power supply	230 VAC 50/60 Hz								1
	115 VAC 50/60 Hz								3
Options	Standard version								X
	Special version (on request)								1

Order code

JCE-2.

### Accessories

Part number	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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