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conditioning systems

CONDITIONING SYSTEMS

Sample Gas Conditioner JCC



FEATURES

- ◆ Stable dew point at +3°C
- ◆ Ambient temperature + 5...+45°C (50°C)
- ◆ Proportional temperature & pressure control
- ◆ Built-in pump & condensate discharge pump
- ◆ Digital temperature display and flowmeter
- ◆ High performance heat exchanger
- ◆ Proven and reliable technology
- ◆ Compact and robust
- ◆ Environment-friendly (CFC free)

GENERAL

The JCC Sample Gas Conditioner is designed to lower the sample dew point and supply dehumidified sample gas with a pump to the moisture intolerant analysis equipment. The operation capability at high ambient temperature enables also applications i.e. in boiler houses.

TECHNOLOGY

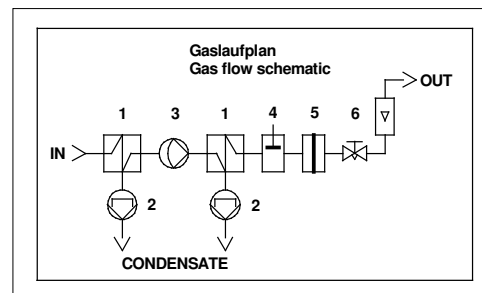
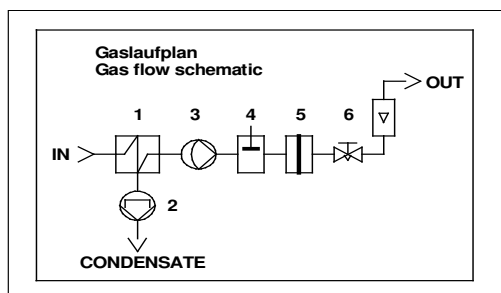
A constant dew point independent of varying sample specifications and ambient temperature is ensured by an improved proportional temperature and pressure control. The cooling system features a continuously running non-CFC compressor motor filled

with environmentally friendly R134a. The high performance heat exchanger guarantees maximum heat transfer rate and leak free operation. A built-in condensate discharge pump removes the condensate continuously and respectively a sample filter the impurities.

FEATURES

The JCC Sample Gas Conditioner features a single or dual gas path made of PVDF. A flowmeter allows the adjustment of the required flow rate. A digital temperature display, an isolated contact and interlocked pump provide unattended trouble free operation.

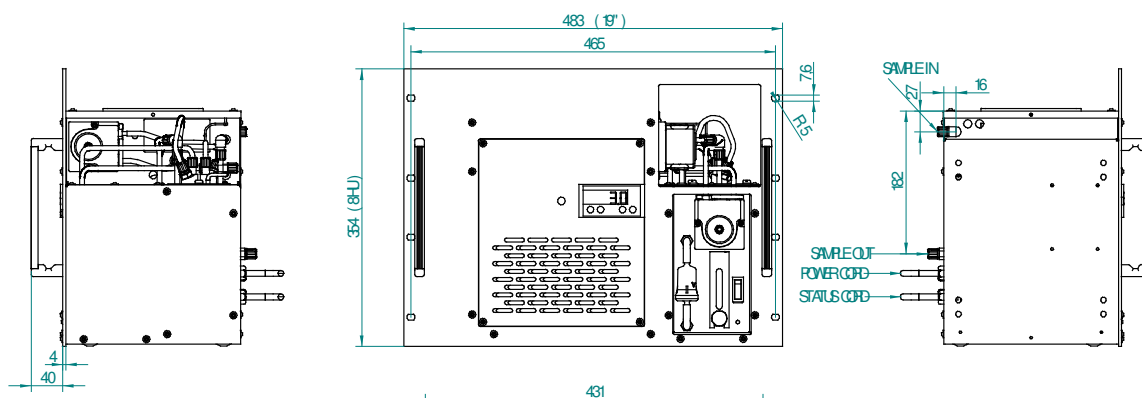
TECHNICAL DATA



Gas flow

- 1 Heat Exchanger
- 2 Peristaltic Pump
- 3 Diaphragm Pump
- 4 Condensate Sensor Option)
- 5 Filter
- 6 Flowmeter needle valve

Dimensions



SPECIFICATIONS

Gas flow rate	100NI/h 1 gas path 200NI/h 2 gas paths
Gas inlet dew point	max. 65°C
Gas inlet temperature	max. 140 °C
Gas outlet dew point	+3°C (factory set point)
Dew point stability	+/- 0.2°C @ 20°C DP in 60°C
Ambient temperature	+5 ... +45°C (50°C)
Cooling power	160W at ambient 25°C; Evaporation temperature 0°C
Dead volume	max. 160ccm
Condensate discharge	1 condensate pump / gas path Capacity 300ml/h
Gas filter	One way filter 1µm Nylon/ Borosilicatefibre

SPECIFICATIONS

Flow meter	with needle valve PP/Glass/PVDF
Flow meter range	10...100NI/h / 15...150NL/h
Operating control	Digital indication of heat exchanger temperature
Contact rating	Built-in temp. Alarm and pump will be interlocked at >8°C
Gas connection	Gas inlet: Fitting DN 4/6 PVDF Gas outlet: Fitting DN 4/6 PP
Mains	3P cable 2m
Housing	Steel sheet; coated RAL 7035
Dimension	430x225x300mm (WxDxH)
Weight	max. 20kg

ORDER CODE

Order code		JCC-							
Housing	Wall mounting on rear panel	L							
	19" rack mounting	R							
Gas Path	1 gas path; PVDF, 1 condensate pump		1						
	2 gas path; PVDF, 2 condensate pumps		4						
Fine dust filter	One way filter			1					
	Fine dust filter JF-1			2					
Gas sample pump	< 200NI/h Standard pump				2				
	< 200NI/h Membrane pump (incl. Relay for remote control)				4				
Gas flow control	Flow meter PVDF with needle valve 15...150 NI/h					3			
	Flow meter PVDF with needle valve 10...100 NI/h					4			
	Flow meter PVDF incl. flow alarm and light barrier					5			
Condensate detector	without						0		
	With KW-1 (interlocks pump by condensate breakthrough)						1		
Power supply	230V 50Hz							1	
	230V 60Hz							2	
	115V 50Hz							3	
	115V 60Hz							4	

Order code		JCC-							
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Specification subject to change without notice.

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