Innovation in Gas Analysis

JCL-304 / JCL-319 Gas Conditioning Systems



APPLICATION

- For extractive gas analysis
- · For emission and process monitoring
- Continuous sample gas conditioning of humid process gases
- Continuous drying of sample gas to a precise low and constant outlet dew point
- Minimises water vapour cross sensitivities and volumetric errors

BENEFITS

- Complete solution for a great number of applications
- Longterm reliable reproducable measuring results
- Optimum operational safety due to self-monitoring
- Extremlely precise long term stable dew point even under varying loads
- · Fast response time due to low dead volume
- · Very low dissolution rates
- · Continuous condensate removal
- · Low maintenance operation
- · Easy to maintain design

FEATURES

- · For wall or 19"-rack mounting
- · Individual configuration due to modular design
- Basic device with high-performance compressor sample gas cooler
- 1 to 4 independent sample gas paths
- Integrated condensate pumps
- Speed controlled fan
 - 11 status-LED's with event memory
- · 2 status contacts
- · Additional options:
 - High performance corrosion resistant sample gas pump
 - Easy to maintain robust fine dust filter
 - Corrosion resistant flowmeter with precise needle valve
 - Reliable condensate monitoring
 - Acid dosing pump
 - RS 485 interface





Analysentechnik GmbH

Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate

Treatment

Accessories

Gas Conditioning Systems

> Sample Gas Converters



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TECHNICAL DATA

Model	JCL-304	JCL-319					
Description	Sample gas conditioning system						
Cooling principle	compressor cooling with hot gas bypass						
Number of gas paths	1 - 4						
	Operation						
Flow rate*	max. 120 NI/hr						
Gas temperature inlet*	max. +140°C						
Dew point inlet*	max. +80°C						
Dew point outlet	+3°C						
Dew point stability (for constant inlet conditions)	±0,1K						
Ambient temperature	+5+45°C						
Operating pressure	0,22,2 bara						
Ready for operation	< 10	min					
Pressure drop at max. flow rate	2 mbar						
	Construction						
Dimensions over all (B x H x T)	440 x 300 x 408 mm	483 x 310 x 408 mm					
Installation	stand alone or wall mounting	19"-rack mounting					
Mounting position	horizontal						
Weight	2531 kg (dependant on configuration)						
Housing, colour	sheet steel 1,5 mm, powder coated, RAL 1016 S, front alu nature						
Material heat exchanger	PVDF						
Dead volume per gas path	48	48 ml					
Connection sample gas / condensate outlet	PVDF hose fitt	ing DN 4/6 mm					
Approvals / signs	CE						
	Electrics						
Power supply	220240 VA 100115 V	VAC 50/60 Hz or 5 VAC 50/60 Hz					
Power consumption (depending on load, am- bient temperature and configuration)	2003	345 VA					
Connection power / status signal /sample gas pump	3 x connector EN175 PG 9 - pa	5301-803 form A / B with anduit, 3/4pole					
Fusing	external on installation s 230 VAC 6 A;	ite, fuse characteristic C: 115 VAC 10 A					
Protection class	IP 20 (EI	IP 20 (EN 60529)					
On - time	100 %						
Alarm set points	<0 / >	<0 / >+10°C					
Status relay	volt free changeover contact						
Gas sample pump relay	volt free contact NC						
Switching capacity relays	max. 250 VAC / 8 A (1,5 A at 250 VDC); min. 5 VADC 5 mA						
Data interface (option)	DB 9 f	DB 9 female					
Interface protocol (option)	RS 485	RS 485 / ST Bus					
Bus cable length max.	100	1000 m					

* 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 ** With internal sample gas pump use pump relay for release of this internal pump





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Dimensions in mm

APPLICATION EXAMPLES / GAS FLOW DIAGRAMS



Part No. JCL-304.22611210 Part No. JCL-319.22611210

А	Gas heat exchanger
В	Condensate pump / dosing pump

C Condensate sensor



Part No. JCL-319.24422200

- D Fine dust filter
- E Flow meter with needle valve
- F Sample gas pump (external not included, suitable sample gas pumps are to be found in chapter 5)

ORDER CODES

JCL-304 and JCL-319

19"-Rack mounting										
To Raok mounting		319.								
115 VAC 50/60 Hz			1							
230 VAC 50/60 Hz			2							
1 Gas heat exchanger				1						
2 Gas heat exchangers	٨			2						
3 Gas heat exchangers				3						
4 Gas heat exchangers				4						
1 Condensate pump JSR-25					1					
2 Condensate pumps JSR-25					2					
3 Condensate pumps JSR-25					3					
4 Condensate pumps JSR-25	В				4					
1 Dosing pump JSR-25 + 1 Condensate pump JSR-25					5					
1 Dosing pump JSR-25 + 2 Condensate pumps JSR-25					6					
1 Dosing pump JSR-25 + 3 Condensate pumps JSR-25					7					
Without fine dust filter						0				
1 Fine dust filter JF-1 incl. PTFE filter element	D	D				1				
2 Fine dust filter JF-1 incl. PTFE filter element						2				
Without condensate detector							0			
1 Condensate detector KW-2 with 1 sensor	С						1			
1 Condensate detector KW-2 with 2 sensors							2			
Without flowmeter								0		
1 Flowmeter 10100 NI/hr	Е							1		
2 Flowmeter 10100 NI/hr								2		
Without sample gas pump									0	
1 Sample gas pump JSP-86									1	
Without additional options										0
JCT VISU-System, software, remote control, RS485 interface										1
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Some possible combinations of options are technically futile and threfore not available. Please ask the JCT sales team for advice.

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