Innovation

on Gas Analysis

JCL-301 Sample Gas Cooler





Analysentechnik GmbH

Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Gas Converters

Accessories



APPLICATION

- · Emission and process monitoring
- Continuous gas conditioning in humid and dusty processes
- · For extractive gas analysis
- · Drying sample gas
- · Reducing dew point

BENEFITS

- Very low dissolution rates for water soluble gases
- Small dead space in heat exchanger
- · Sustainable reproducible results
- · Precise and longterm stable dew point
- · Low maintenance
- · Long lifetime also in harsh conditions
- · Rapid availability

FEATURES

- 1 to 2 seperate gas streams
- Modular design from sample gas cooler to gas conditioning unit
- 11 status LEDs with event memory
- 2 status contacts
- Integrated condensate pump(s)
- · Additional options:
 - · For wall or 19" rack mounting
 - Acid dosing pump
 - · Condensate detector
 - Fine dust filter
 - · Flow meter with needle valve
 - · RS485 interface



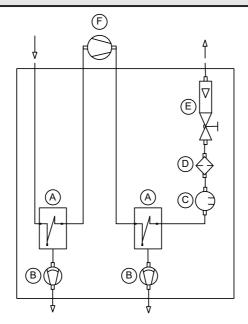
www.jct.at

TECHNICAL DATA

Modell	JCL-301								
Cooling principle	Compressor with hot gas bypass technology								
Number of gas paths	1 - 2								
Operation									
Flow rate*	max. 150 l/h								
Gas temperature inlet*	max. +140°C								
Dew point inlet*	max. +80°C								
Dew point outlet*	+3°C								
Dew point stability (for constant inlet conditions)	±0,1 K								
Ambient temperature*	+5+45 °C								
Operating pressure	0,51,5 bar abs.								
Ready for operation	< 10 min								
Pressure drop at max. flow rate	2 mbar								
Construction									
Dimensions over all (W x H x D)	320 x 310 x 328 mm								
Mounting position	Stand alone or wall mount								
Alignment	horizontal								
Weight	approx. 22 kg								
Housing, colour	Sheet steel 1,5 mm, powder coated RAL 7035 GS / RAL 1016 S								
Heat exchanger material	PVDF								
Dead volume per gas path	48 ml								
Connection sample gas/ condensate outlet	PVDF hose fitting ID/OD 4/6 mm								
Approval / Sign	CE								
Electrical									
Supply voltage Option	100-115 VAC 50/60 Hz 220-240 VAC 50/60 Hz								
Power consumption (depending on load, ambient temperature and configuration)	200345 VA								
Connection power / status signal	Connector EN175301-803 form A/B with PG9-panduit, 3/4 pole								
Fusing	External on installation site, fuse characteristic C: 230 VAC 6A; 115 VAC 10A								
Protection class	IP 20 (EN 60529)								
On - time	100 %								
Alarm set points	<0 / >+10°C								
Status relay	volt free changeover contact								
Switching capacity relays	max. 250 VAC/8(1,5)A; min. 5 VADC 5mA								
Data interface (option)	DB9 female								
Interface protocol	RS485 / ST Bus								
Bus cable length max.	1000 m								
	1000 111								

^{*...}may be affected by other values

GAS FLOW DIAGRAM



Part No: JCL-301.2221110

B Condensate pump E Flow meter with needle valve	ger D Fine dust filter	
	Flow meter with needle valve	
C Condensate sensor F External sample gas pump (not included)	or F External sample gas pump (not included)	1)

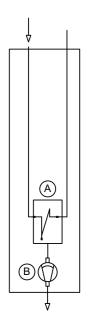
ORDER CODE

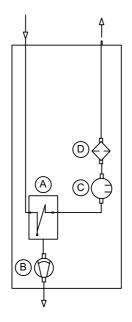
Order code	JCL-301.			•				
			$\overline{\mathbf{V}}$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$
JCT VISU-System, remote control, RS485 interface								1
Without additional options								0
<u>Option</u>			\perp					
1 Flow meter 10100 NI/h							1	
Without flow meter							0	
Flow meter with needle valve	E							
1 condensate detector KW-2						1		
Without condensate detector						0		
Condensate detectors	С				1			
1 Fine dust filter JF-1 incl. PTFE filter element					1			
Without fine dust filter					0			
Fine dust filter	D		\top					
1 Dosing pump JSR25 + 1 condensate pump				3				
2 Condensate pumps JSR25				2				
1 Condensate pump JSR25			+	1				
Condensate pumps	В		÷					
2 Gas paths			2	1				
1 Gas path	_ A		1					
Gas paths	A			Ι				
230 VAC 50/60 Hz		2						
115 VAC 50/60 Hz		4						

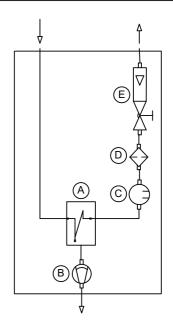
Scope of delivery: device, operating manual

Some possible combinations of options are technically futile and therefore not available. Please ask the JCT sales team for advise.

APPLICATION EXAMPLES / GAS FLOW DIAGRAMS





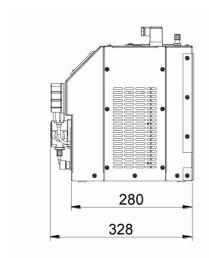


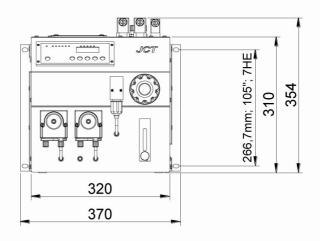
Part No: JCL-301.2110000

Part No: JCL-301.2111100

Part No: JCL-301.2111110

DIMENSIONS





Specifications are subject to change without notice.

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