

Innovation in Gas Analysis

JCT-3 Grand Sample Gas Compressor-Coolers



APPLICATION

- 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
- Performance optimised construction
- High performance heat exchanger
- Heat exchanger material PVDF, Duran glass oder stainless steel
- One to four independant gas paths
- Proportional temperature controller
- Digital temperature indication
- Integrated condensate pump
- Status contact



JCT

Analysentechnik
GmbH

Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate
Treatment

Accessories

Gas Conditioning
Systems

Sample Gas
Converters

MADE IN AUSTRIA



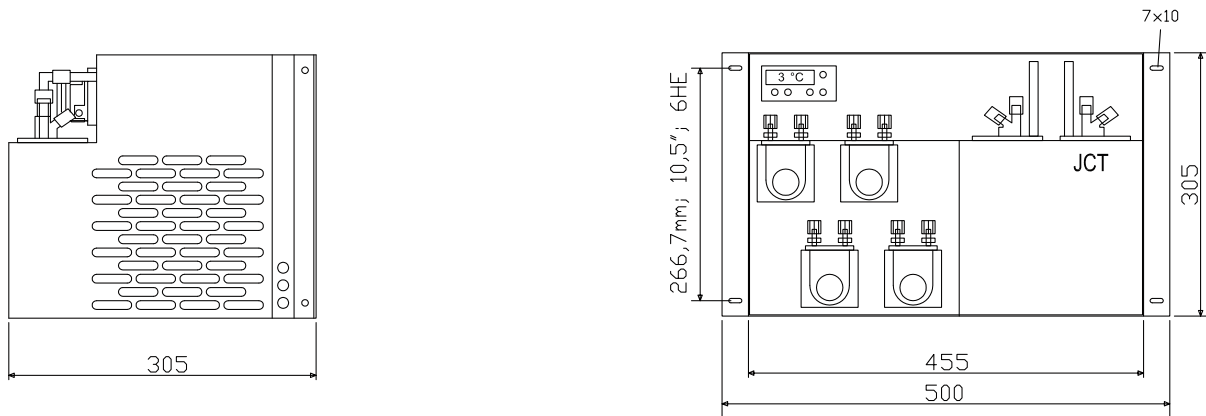
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TECHNICAL DATA

Model	JCT-3 Grand							
Description	sample gas compressor cooler							
Cooling principle	compressor cooling							
Number of heat exchangers / gas paths	1 / 1 (Mono)			2 / 2 (Mono)			2 / 4 (Dual)	
Material heat exchangers	PVDF	Duran glass	SS316	PVDF	Duran glass	SS316	PVDF	SS316
Operation								
Max. gas flow rate* [NI/hr]	250	300	500	2 x 250	2 x 300	2 x 500	4 x 125	4 x 150
max. gas inlet temperature* [°C]	140	160	180	140	160	180	140	180
Max. gas inlet dew point* [°C]	70	65	80	70	65	80	70	80
Gas outlet dew point	3°C							
Dew point stability (for constant inlet conditions)	±0,3K							
Ambient temperature	+5...+45 °C							
Cooling capacity	300 W							
Temperature alarm limits	<0 / >+10°C							
Operating pressure with condensate pump	0,2...2,2 bara							
Max. operating pressure without condensate pump [bara]	2,5	2,0	160	2,5	2	160	2,5	160
Ready for operation	< 20 min							
Pressure drop at 100 NI/hr	6 mbar							
Construction								
Dimensions over all (W x H x D)	450 x 300 x 300 mm							
Installation	stand alone or wall mounting							
Mounting position	horizontal							
Weight	21 kg						23 kg	
Housing, colour	sheet steel 1,5 mm, powder coated, RAL 7035							
Dead volume per gas path	67 ml						2 x 50 ml	
Connection sample gas inlet	PVDF and 1.4401: 6 mm tube; glass: GL14 with hose connection							
Connection sample gas outlet and condensate outlet on top (standard)	PVDF: PVDF hose fitting DN 4/6; 1.4401: 6 mm tube; glass: GL14 with hose connection							
Connection condensate outlet at the bottom (on request)	PVDF and 1.4401: 12 mm tube; glass (only Mono available): GL18 with hose connection							
Protection class	IP 20 (EN 60529 / EN 61010)							
Approvals / signs	CE							
Electrics								
Power supply	220....240 VAC 50 Hz or 220....240 VAC 60 Hz or 100....115 VAC 50/60 Hz							
Power consumption (depending on load and ambient temperature)	200 VA							
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



Dimensions in mm

ORDER CODE

JCT-3 Grand Class

Basic Unit	Housing rear panel mounting with 1 gas heat exchanger	1							
	Housing rear panel mounting with 2 gas heat exchangers	2							
	Housing 19" rack mounting with 1 gas heat exchanger	5							
	Housing 19" rack mounting with 2 gas heat exchangers	6							
Gas heat exchanger 1	1 Mono PVDF gas heat exchanger							1	
	1 Mono SS316 gas heat exchanger							2	
	1 Mono Duran glass gas heat exchanger							3	
	1 Dual PVDF gas heat exchanger							4	
	1 Dual SS316 gas heat exchanger							5	
Gas heat exchanger 2	Without gas heat exchanger								0
	1 Mono PVDF gas heat exchanger								1
	1 Mono SS316 gas heat exchanger								2
	1 Mono Duran glass gas heat exchanger								3
	1 Dual PVDF gas heat exchanger								4
	1 Dual SS316 gas heat exchanger								5
Condensate pump	Without condensate pump JSR-25								0
	1 Condensate pump JSR-25								1
	2 Condensate pumps JSR-25								2
	3 Condensate pumps JSR-25								3
	4 Condensate pumps JSR-25								4
Power supply	230 VAC 50 Hz								1
	230 VAC 60 Hz								2
	115 VAC 50/60 Hz								3
Options	Standard version								X
	Special version (on request)								1

Order code

JCT-3.

JCT Analystechnik GmbH

Werner Heisenberg-Straße 4 A-2700 Wiener Neustadt
Tel. +43 (0) 2622 / 87201 Fax +43 (0) 2622 / 872011
E-Mail: sales@jct.at Web: www.jct.at

Subject to change without notice

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