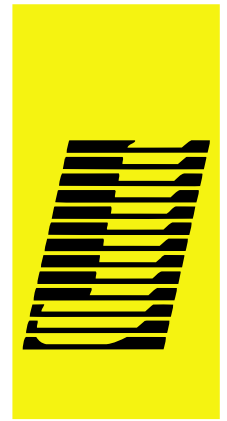


- Sampling Conditioning Systems
- Process Analytics
- System Integration
- Gas Generators
- FTIR-Analysers



conditioning systems

CONDITIONING SYSTEMS

JCT Grand Class



FEATURES

- ◆ Proven and reliable technology
- ◆ Built-in condensate discharge pump
- ◆ Stable dew point +3°C
- ◆ Digital temperature display
- ◆ High performance heat exchanger
- ◆ Proportional temperature control
- ◆ Compact and robust
- ◆ Environment-friendly (CFC free)

GENERAL

The JCT GRAND Class Sample Gas Cooler is designed to lower the sample dew point and separate water vapor from humid sample streams in gas analysis systems. A typical application is to provide and maintain a conditioned gas sample prior to gas analysis by moisture intolerant analysis equipment.

TECHNOLOGY

To achieve a stable dew-point at varying inlet conditions, an improved proportional temperature controller and a high performance heat exchanger have been designed. The cooling system features a continuously running non-CFC compressor motor filled with

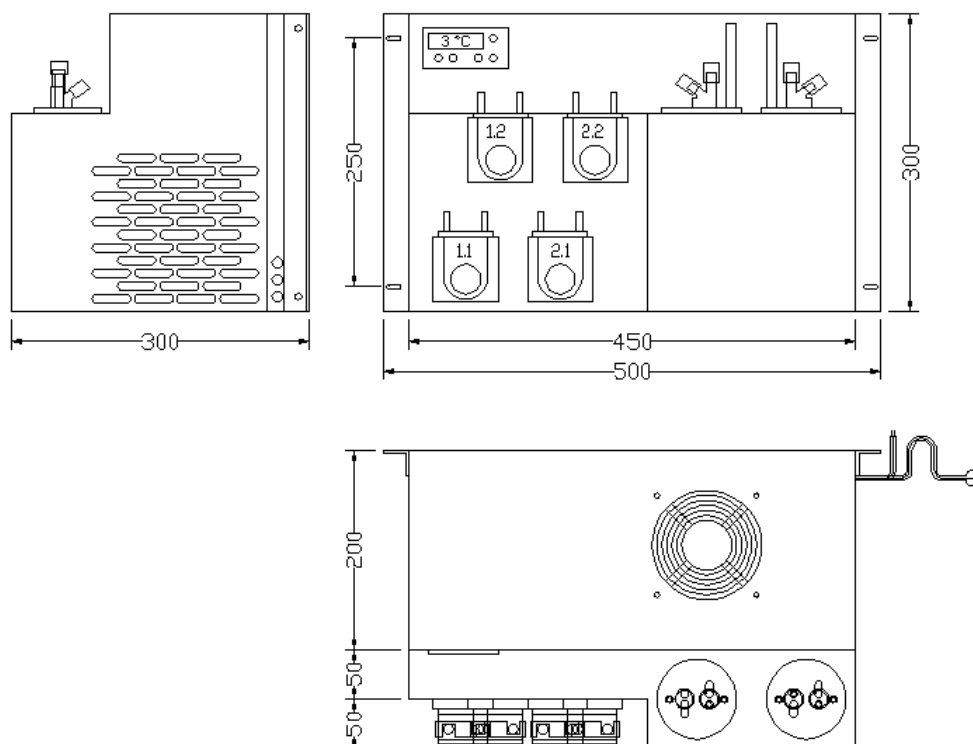
environmentally friendly R134a. The heat exchanger is built into an aluminum cylinder, which absorbs peak loads and utilises maximum heat transfer rate and guarantees leak free operation. A built-in condensate discharge pump removes the condensate continuously.

FEATURES

The GRAND Class Cooler features a single or dual gas path with a choice of 3 different heat exchanger materials PVDF, Stainless Steel or Glass. A digital temperature display and an isolated contact providing unattended trouble free operation.

TECHNICAL DATA

Dimensions Grand Cooler



SPECIFICATIONS									
Gas Ducts		1			2			4	
Heat exchanger		1 x MONO			2 x MONO			2 x DUAL	
Material in contact with sample		PVDF	GLASS	SS316	PVDF	GLASS	SS316	PVDF	SS316
Gas flow ¹⁾	L/h	250	300	500	2x250	2x300	2x500	4x125	4x150
Gas inlet dew-point (max.)	°C	70	65	80	70	65	80	70	80
Gas inlet temperature (max.)	°C	140	160	180	140	160	180	140	180
Gas outlet temperaturer	°C	3°C							
Gas pressure with peristaltic pump	bar	0,5 ... 1,5							
Gas pressure without peristaltic pump	bar	2,5	2	160	2,5	2	160	2,5	160
Gas connection	mm	Gas inlet and gas outlet: tube 4/6mm							
Dead volume per gas duct	ml	67	98	67	2x67	2x98	2x67	4x25	
Cooling power	W	300 Watt Ta 25°C							
Protection rate / electrical standard		IP 20 acc EN 60529 / EN 61010							
Dimension	mm	450 x 300 x 300 (W x H x T)							
Temperature monitoring		Digital display and isolated alarm relay contacts							
Power supply		230V 50/60 Hz oder 115V 50/60 Hz							
Power consumption	W	220 Watt							
Weight	kg	21						23	

¹⁾ At standard condition, dewpoint 65°C inlet at 5..40°C ambient temperature

ORDER CODE

JCT-3 Grand Cooler			
Housing	Rear Panel with 1 evaporator	1	
	Rear Panel with 2 evaporators	2	
Gas path 1	1 MONO PVDF heat-exchanger	1	
	1 MONO SS heat-exchanger	2	
	1 MONO Glas heat-exchanger	3	
	1 DUAL PVDF heat-exchanger	4	
	1 DUAL SS heat-exchanger	5	
Gas path 2	without heat-exchanger	0	
	1 MONO PVDF heat-exchanger	1	
	1 MONO SS heat-exchanger	2	
	1 MONO Glas heat-exchanger	3	
	1 DUAL PVDF heat-exchanger	4	
	1 DUAL SS heat-exchanger	5	
Condensate Pump	without	0	
	1 condensate pump	1	
	2 condensate pumps	2	
	3 condensate pumps	3	
	4 condensate pumps	4	
Power Supply	230V 50Hz	1	
	230V 60Hz	2	
	115V 50 / 60Hz	3	
Option	No		X
	Special		1

ORDER CODE:

JCT3-

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Specification subject to change without notice.

PDS_E_Grand Class_12/07_Rev.4

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