

Analyzer Sample-Conditioning Systems | Compressor Sample Gas Coolers | Peristaltic Pumps | Pre-Separators | Moisture Sensors
Refrigeration Gas Dryers | Refrigeration Air Dryers | Compressed Air Filters | Compressed Air Separators

CONDITIONING SYSTEMS

BCR 01

BCR 02

GENERAL

The BCR01 & BCR02 Class Sample Gas Cooler is designed to lower the sample dew-point and separate water vapour 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 BCR01 Class Cooler features a single gas path and the BCR02 Class Cooler features a single or dual gas path, each 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.



◆ BCR01



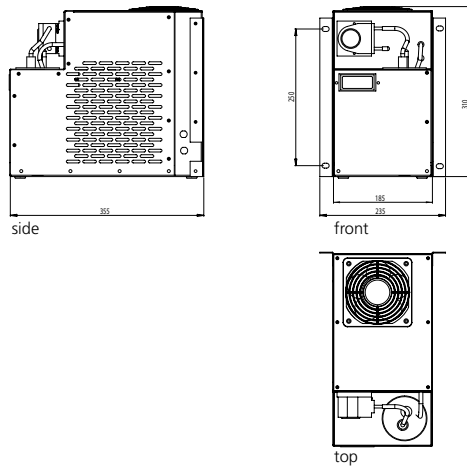
◆ BCR02

FEATURES

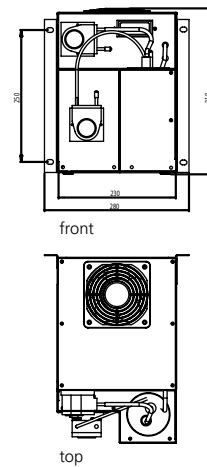
- ◆ Proven and reliable technology
- ◆ Built-in condensate discharge pump
- ◆ Stable dew-point +3°C
- ◆ Digital temperature display
- ◆ High performance heat exchanger
- ◆ Proportional temperature control
- ◆ Compact and robust
- ◆ Environment-friendly

TECHNICAL DATA

BCR01 Rear Panel Mounting



BCR02 Rear Panel Mounting



SPECIFICATIONS

		BCR01			BCR02			BCR02	
Gas ducts		1			1			2	
Heat exchanger		1 x MONO			1 x MONO			1 x DUAL	
Material in contact with sample		PVDF	GLASS	SS316	PVDF	GLASS	SS316	PVDF	SS316
Gas flow 1)	L/h	125	150	250	180	200	350	2x90	2x160
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 temperature	°C	3°C			3°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 4/6 mm							
Dead volume per gas duct	ml	67	98	67	67	98	67	2x55	
Cooling power	W	160 Watt Ta 25°C			215 Watt Ta 25°C				
Protection rate / electrical standards		IP 20 acc. EN 60529 / EN 61010							
Dimension	mm	185x300x355 (WxHxD)			230x300x355 (WxHxD)				
Temperature monitoring		Digital display and isolated alarm relay contacts							
Power supply		230V 50/60 Hz or 115V 50/60 Hz							
Power consumption	W	190W							
Weight	kg	17			18,5			19	

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