

**NG 3000-SHS 3-1 Compact
&
SHS 3-2 Midi Sample Gas Compressor Cooler**



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Bont Technologies GmbH

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 or stainless steel.
- One or two independent gas paths.
- Proportional temperature indication.
- Integrated condensate pump.
- Status contact.
- Compact design.

Technical Data

Model	NG 3000-SHS 3-1			NG 3000--SHS 3-2				
Description	Sample gas compressor coolers							
Cooling principle	Compressor cooling							
Number of heat exchangers/gas paths	1/1 (Mono)			1/1 (Mono)			1/2 (Dual)	
Material heat exchangers	PVDF	Duran glass	SS316	PVDF	Duran glass	SS316	PVDF	SS316

Operation

Max. gas flow rate * [NL/hr]	125	150	250	180	200	350	2 x 90	2 x 160
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	160 W				215 W			
Temperature alarm limit	<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 NL/hr	Approx. 6 mbar							

Construction

Dimensions over all (W x H x D)	185 x 300 x 355 mm			230 x 300 x 355 mm				
Installation	Stand alone or wall mounting (rear or side)							
Mounting position	Horizontal							
Weight	17 kg			18.5 kg			19 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 SS316: 6 mm tube; glass: GL 14 with PVDF-hose fitting DN 4/6							
Connection sample gas outlet and condensate outlet on top (standard)	PVDF hose fitting DN 4/6 (without condensate pump for 1.4401: 6 mm tube)							
Connection condensate outlet at the bottom (on request)	PVDF and 1.4401: 12 mm tube; glass (only Mono available): GL18 with PVDF- tube fitting DN 10/12							
Protection class	IP 20 (EN 60529 / EN 61010)							
Approvals / signs	TUV EC Conformity							

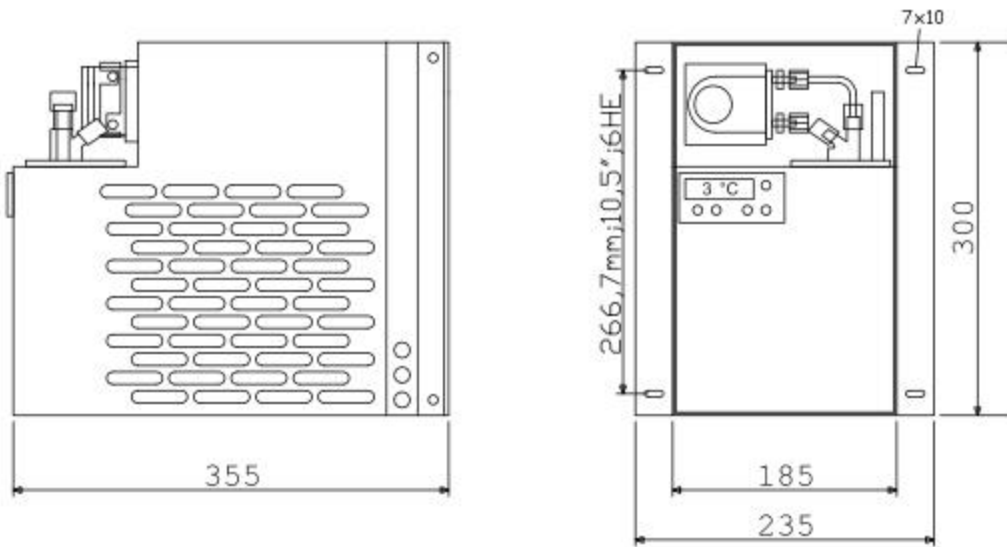
Electrics

Power supply	220 ... 240 VAC 50/60 Hz or 100 ...115 VAC 50/60 Hz
Power consumption (depending on load and ambient temperature)	190 W
Connection power / status signal	2.3 m cable, open ends
Fusing	External on installation site, fuse characteristic C: 230 VAC 6A; 115 VAC 10 A
On time	100 %
Temperature indication	Digital
Status contact	Volt free changeover contact max. 230 VAC / 2A min. 5 VADC /5 mA

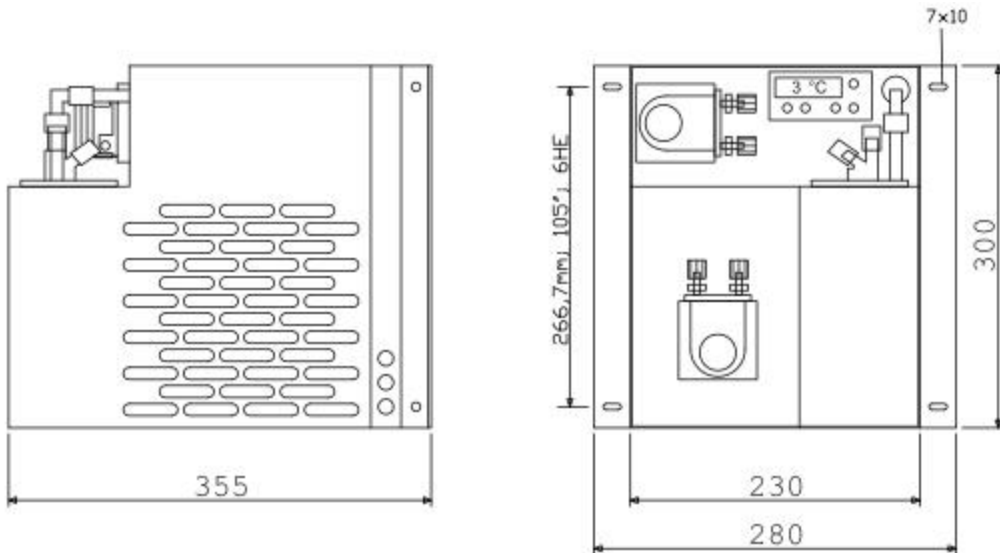
* Result from the effective cooling capacity at 25°C ambient temperature and 3°C outlet dew point and can be influenced by further operational parameters

Dimension

GA-LK-1000F-SHS 3-1



GA-LK-1000F-SHS 3-2



Order Codes

NG 3000-SHS 3-1

Housing	For rear panel mounting	S			
	For side panel mounting	Q			
Gas heat exchanger	1 Mono PVDF gas heat exchanger		1		
	1 Mono SS316 gas heat exchanger		2		
	1 Mono Duran glass gas heat exchanger		3		
Condensate pump	Without condensate pump SR-25			0	
	1 condensate pump SR-25			1	
Power supply	230 VAC 50 Hz				1
	230 VAC 60 Hz				2
	115 VAC 60 Hz				3
Options	Standard version				X
	Special version (on request)				1
Order code	NG 3000-SHS 3-1				

NG 3000 -SHS 3-2

Housing	For rear panel mounting	S			
	For side panel mounting	Q			
Gas heat exchanger	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 SR-25			0	
	1 condensate pump SR-25			1	
	2 condensate pump SR-25			2	
Power supply	230 VAC 50 Hz				1
	230 VAC 60 Hz				2
	115 VAC 60 Hz				3
Options	Standard version				X
	Special version (on request)				1
Order code	NG 3000-SHS 3-2				

Distributor



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