

Sample Gas Analyzers | Sample Gas Conditioners | Peristaltic Pumps | Pre-Separators | Moisture Sensors  
Refrigeration Gas Dryers | Refrigeration Air Dryers | Compressed Air Filters | Compressed Air Separators

## SAMPLE GAS COOLER MAK 6

The MAK6 sample gas cooler is designed to lower the sample gas dew-point and to 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.

The MAK6 series are long-standing proven and robust refrigerated coolers with environment-friendly, FCKW-free refrigerant R134a. The MAK8 series was rolled-out in year 1995 and is still available within the scope of our special plant manufacture.

MAK6 are pure coolers without conditioning accessory. They are optionally equipped with PVDF-, glass- and/or stainless-steel-heat-exchangers and can cool down nearly every gaseous medium. The coolers are also suitable for high gas flow rates and extreme high inlet temperatures and dew points.

The operation monitoring with status- and alarm-contact ensures a reliable and safe operation. As an option MAK6 can also be equipped with a digital temperature display.



### FEATURES

- ◆ Exchangeable heat-exchanger
- ◆ 1-4 gas paths (PVDF, glass, stainless-steel))
- ◆ 100-500NI/h per gas path
- ◆ Constant dew point 3°C
- ◆ Proven and reliable technology
- ◆ Operation monitoring, alarm-contact
- ◆ Optional digital temperature display

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## TECHNICAL DATA

Model						
Type	MAK 6 Mini	MAK 6-1	MAK 6-2	MAK 6-3	MAK 6-4	
Number of gas paths	1	1	2	3	4	
Heat-exchanger type	1 x Mono	1 x Mono	2 x Mono	3 x Mono	2 x Dual	

Heat-exchanger material		PVDF				
Sample gas flow rate	NL/h	1 x 100	1 x 250	2 x 250	3 x 250	4 x 100
Dead space	ml	1 x 137	1 x 137	2 x 137	3 x 137	4 x 70
Gas inlet temperature max.	°C	140				
Operation pressure max.	bar	2,5				

Heat-exchanger material		Stainless-Steel 1.4571				
Sample gas flow rate	NL/h	1 x 110	1 x 500	2 x 500	3 x 500	4 x 200
Dead space	ml	1 x 137	1 x 137	2 x 137	3 x 137	4 x 70
Gas inlet temperature max.	°C	180				
Operation pressure max.	bar	100				

Heat-exchanger material		Glass				
Sample gas flow rate	NL/h	1 x 110	1 x 300	2 x 300	3 x 300	
Dead space	ml	1 x 137	1 x 137	2 x 137	3 x 137	
Gas inlet temperature max.	°C	180				
Operation pressure max.	bar	2,5				

Design data						
Dimensions	mm	247x298x272	290x366x355	290x366x355	290x422x341	290x366x355
Weight	kg	13	19	21	25	21
Housing		wall-mounting / RAL 7035				
Gas connection		gas inlet+outlet pipe 4/6mm				
Gas outlet temperature	°C	3				
Ambient temperature	°C	5 - 45				
Approvals		CE				

Elektrische Daten						
Netzanschluss		Cable				
Kommunikation		potential-free alarm-contact				
Alarmgrenzwerte		< +2.0°C / > +10.0°C				
Gehäuseschutzart		IP 20 EN 60529 / EN 61010				
Stromversorgung		230V 50/60Hz +/-15% / 115V 50/60Hz +/-10%				
Leistungsaufnahme		160-180W	280-315W	280-315W	300-335W	280-315W

Subject to change without notice / Last update: 06.02.2014