

Gas Cooler Series TC-Standard



- Compact design: Pre-installed and ready to connect
- Low maintenance costs based on easy accessibility
- One or two gas paths
- Heat exchanger made from stainless steel, Duran glass or PVDF
- Adjustable outlet dew point and alarm thresholds
- Low operating noise
- Nominal capacity 100/90 kJ/h respectively 5/85 Btu/h, 40 °C / 50 °C - Version respectively 104 °F / 122 °F - Version
- Dew point stability 0.1 °C / 2.2 °F
- Status display and output
- Cooling block temperature display
- Moisture detector connection, analogue output, filter, and peristaltic pump optional
- Successor of the PKE 5

In the chemical industry, petrochemistry or biochemistry, reliable process control relies on prompt and exact determination of the operating parameters. Here, gas analysis is key for safe and efficient control of process flows, environmental protection, and quality assurance.

This benefits controlling flue gas emission in power stations or exhaust gas analysis in automotive engineering, as well as the efficient control of air separators or sterile production and packaging in the food industry. Many of the analysis processes used in these fields require extracting the sample gas. This inevitably also extracts process-related contamination such as particles or moisture. These in turn can impact the measurement results or damage the measuring cells. The sample gas



must therefore be conditioned before entering the analyser. The small dimensions make the TC-MINI sample gas cooler particularly suited for OEM's to build into compact sample gas conditioning systems.

Technical data gas cooler																									
Operational readiness	after max. 10 minutes																								
Ambient temperature	5 °C to 50 °C																								
Gas outlet dew point preset:	5 °C																								
adjustable:	2 °C...20°C or Delta T-Regulation																								
Protection class	IP 20																								
Housing	Stainless steel, brushed																								
Packing dimensions	approx. 355 x 220 x 205 mm																								
Weight incl. heat exchanger	approx. 7.5 kg approx. 6 kg (at 24 V DC) approx. 9 kg at full expansion stage																								
Electrical data	<table border="1"> <thead> <tr> <th colspan="3">Device without attachment</th> <th colspan="3">Device with attachment, (1 peristaltic pump)</th> </tr> <tr> <th>24 V DC</th> <th>230 V AC</th> <th>115 V AC</th> <th>24 V DC</th> <th>230 V AC</th> <th>115 V AC</th> </tr> </thead> <tbody> <tr> <td>5 A</td> <td>0,6 A</td> <td>1,2 A</td> <td>5,5 A</td> <td>0,7 A</td> <td>1,4 A</td> </tr> <tr> <td>120 W</td> <td colspan="2">110 W / 140 VA</td> <td>130 W</td> <td colspan="2">110 W / 140 VA</td> </tr> </tbody> </table>	Device without attachment			Device with attachment, (1 peristaltic pump)			24 V DC	230 V AC	115 V AC	24 V DC	230 V AC	115 V AC	5 A	0,6 A	1,2 A	5,5 A	0,7 A	1,4 A	120 W	110 W / 140 VA		130 W	110 W / 140 VA	
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Switching power status output	max. 230 V AC, 150 V DC, 2 A, 50 VA, potential-free																								
Electrical connections	Plug according to DIN 43650																								
Gas connections and condensate outlet	Filter, humidity sensor adapter G1/4 or NPT 1/4".																								
Wetted parts: Filter, humidity sensor, heat exchanger, peristaltic pump, tubing:	PVDF, PTFE, epoxy resin, stainless steel 1.4571, 1.4576, Norprene (standard), Marprene, Fluran, PVDF, Duran glass, Viton																								