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DRM Technic

Suppliers of Gas Analysis Equipment

**EGK 1 Ex2
Sample Gas Cooler**

EGK 1 Ex2 SAMPLE GAS COOLER

The EGK 1 Ex2 compressor sample gas cooler is ATEX, IECEx and EAC Ex approved and is suitable for operation in explosive zones with up to 2 gas paths.

FEATURES

**EX Approved Zone 2 | EAC Ex Approval | Compact Installation
One or Two Gas Paths | Self-Monitoring | Block Temperature Display
Status Alarm | CFC-Free**



SPECIFICATIONS

| Product No. | EGK 1SD |
|--|--|
| Ready for Operation | Max. 15 minutes |
| Cooling Capacity (at 25 °C) | 320 kJ/h |
| Ambient Temperature | +5 °C to + 50 °C |
| Dew Point (set at factory) | Approx. 5 °C |
| Dew Point Variations (Static) (Over Full Operation Range) | 0.1 K ± 1.5 K |
| Power Supply | 115 or 230 V, 50/60 Hz, plug acc. to DIN 43650 |
| Power Consumption | 290/260 VA, fuse (external) max. 10 A |
| Alarm Output | Switching Capacity Max. 250 V, 2 A, 50 VA |
| Protection Class | IP 20 |
| Housing | Stainless Steel |
| Installation | Table or Wall Mounting |
| Packing Dimensions | Approx. 390 mm x 300 mm x 400 mm |
| Weight (inc. heat exchanger) | Approx. 15 kg |

For more information, please contact our sales department

CONTACT US: DRM Technic, 15C Raleigh Hall Industrial Estate, Stafford, Staffordshire, ST21 6JL

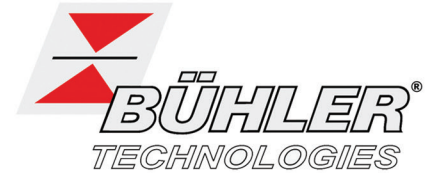
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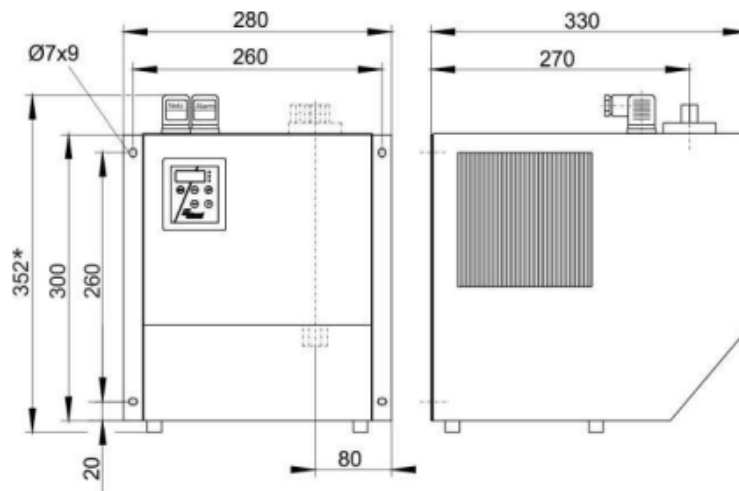
HEAT EXCHANGERS

| Heat Exchanger | TS / TS-I ¹ | TG | TV-SS / TV-I ¹ | DTS (DTS-6 ²) / DTS-I (DTS-6-I ²) | DTG | DTV ¹ / DTV-1 ¹² |
|---|------------------------|--|---------------------------|---|--|--|
| Flow Rate v_{max} | 530 l/h | 280 l/h | 155 l/h | 2 x 250 l/h | 2 x 140 l/h | 2 x 115 l/hl |
| Inlet dew point $\tau_{e,max}$ | 80 °C | 80 °C | 65 °C | 80 °C | 65 °C | 65 °C |
| Gas Inlet Temperature $\vartheta_{G,max}$ | 130 °C | 130 °C | 130 °C | 130 °C | 130 °C | 130 °C |
| Max. Cooling Capacity Q_{max} | 450 kJ/h | 230 kJ/h | 120 kJ/h | 450 kJ/h | 230 kJ/h | 185 kJ/h |
| Gas Pressure p_{max} | 160 bar | 3 bar | 3 bar | 25 bar | 3 bar | 2 bar |
| Pressure Drop Δ ($v=150$ l/h) | 8 mbar | 8 mbar | 8 mbar | 5 mbar each | 5 mbar each | 15 mbar each |
| Dead Volume V_{tot} | 69 ml | 48 ml | 129 ml | 28 / 25 ml | 28 / 25 ml | 21 / 21 ml |
| Sample Gas Connections (Metric/US) | G 1/4" / NPT 1/4" | GL 14 (6mm) ³ / GL 14 (1/4") ³ | DN 4/6 / 1/4" - 1/6" | Tube 6mm / Tube 1/4" | GL 14 (6mm) ³ / GL 14 (1/4") ³ | DN 4/6 / 1/4" - 1/6" |
| Condensate Out Connections (Metric/US) | G 3/8" / NPT 3/8" | GL 25 (12 mm) ³ / GL 25 (1/2") ³ | G 3/8" / NPT 3/8" | Tube 10 mm (6mm) / Tube 3/8" (1/4") | GL 18 (10 mm) ³ / GL 18 (3/8") ³ | DN 5/8 / 3/16" - 5/16" |

¹ Max. Cooling Capacity of the Cooler must be considered | ² Types marketing "I" have NPT-threads or US tubes, respectively

³ Can only be used with peristaltic pumps | ⁴ Inner diameter gasket

TECHNICAL DRAWINGS



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