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# DRM Technic

Suppliers of Gas Analysis Equipment



## PKE 52 SAMPLE GAS COOLER

The PKE 52 is the most powerful Peltier Cooler in our Sample Gas Cooler range. It can be equipped with Stainless Steel, Glass or PVDF heat exchangers and up to 2 gas paths.

### FEATURES

**Compact Design | Low Maintenance Cost Due to Easy Accessibility | One or Two Gas Paths  
Adjustable Outlet Dew Point and Alarm Limits | Self-Monitoring | Status Outputs  
Ambient Temperatures up to 50 °C | Nominal Cooling Capacity 200 kJ/h | Dew Point Stability 0.1 K**

### SPECIFICATIONS

Product No.	PKE 52
<b>Technical Data</b>	
Warming Up Time	Max. 10 min
Nominal Cooling Capacity (at 25 °C)	200 kJ/h
Ambient Temperature	5 ... 50 °C
Factory Set Dew Point	ca. 5 °C
Dew Point Stability (Static)	0.1 K
Drift Over Full Range	± 1.5 K
<b>General Data</b>	
Housing	Stainless Steel
Packing Dimensions	Approx. 600 x 450 x 300 mm
Weight inc. Heat Exchangers	Approx. 11 kg
Weight Fully Equipped	Approx. 13 kg
Gas Terminals: Exchangers	Filter; Adaptor Moisture, detector DN 4/6 or 1/4"-1/6"
Gas Terminals: Condensate Drain Pump	Hose Nipple Ø6 mm (approx. 1/4")
<b>Electrical Specification</b>	
Power Supply	115 or 230 V, 50/60 Hz
Power Consumption inc. Pumps	Max. 250 VA
Alarm Output, Switching Load	Max. 230 V AC, 150 V DC, 2 A, 50 VA, potential-free, plug according to DIN 43650
Protection Class	IP 20

### OPTIONS AND ACCESSORIES

Product No.	Description
41030050	Spare Filter Element F2, VE 5 units
9124030027	Spare Tube for Peristaltic Pump, Right Angle Terminals
9144050038	Cable for Analog Output Temperature Cooling Block (4m)
4510008	Automatic Condensate Drain AK 52
4410005	Condensate Vessel GL 1, 0.4 l

For more information, please contact our sales department

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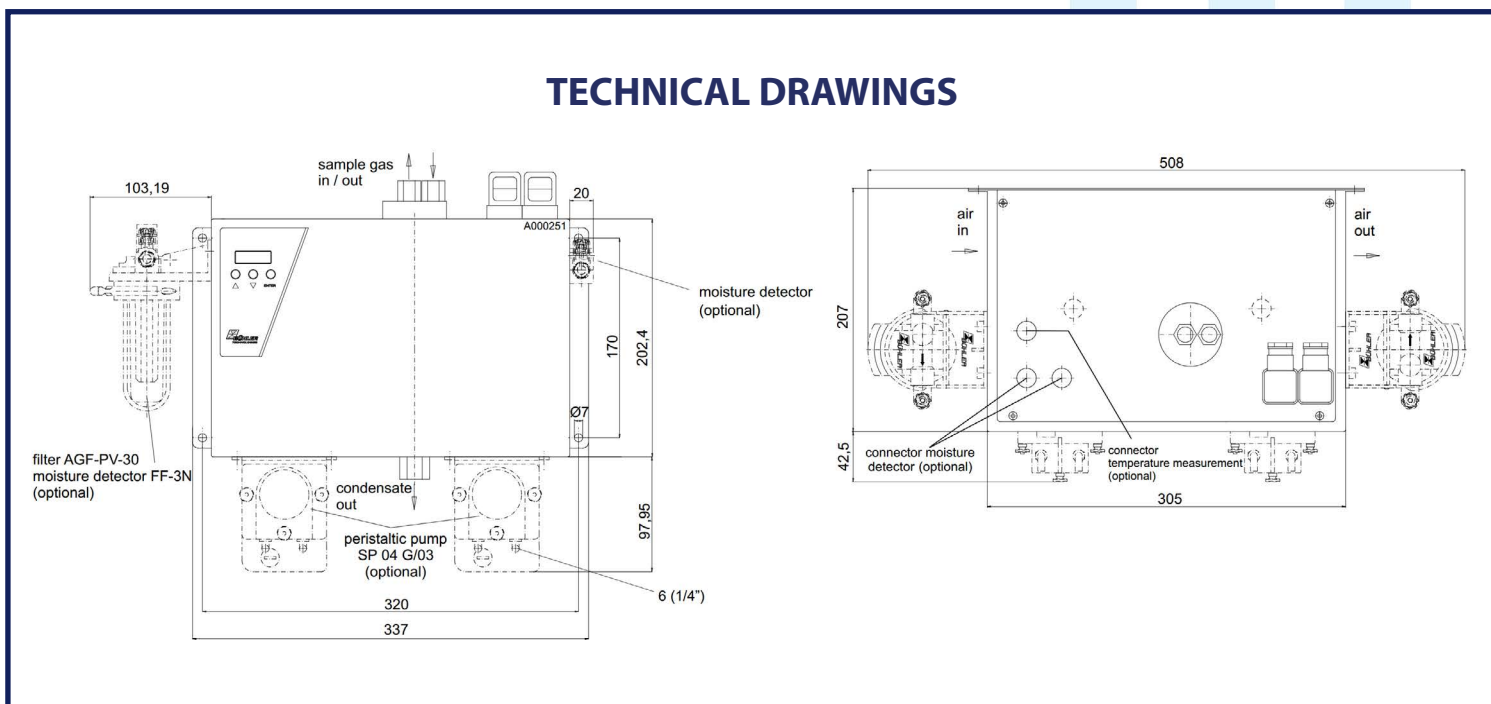
## HEAT EXCHANGERS

Heat Exchanger	TS TS-I	TG TG	TV-SS TV-I	DTS (DTS-6) DTS-I (DTS-6-I)	DTG DTG	DTV DTV-I
Flow Rate $v_{max}^1$	500 l/h	400 l/h	235 l/h	2x 250 l/h	2 x 200 l/h	2 x 160 l/h
Inlet dew point $\tau_{e,max}^1$	80 °C	80 °C	65 °C	80 °C	65 °C	65 °C
Gas Inlet Temperature $\vartheta_{G,max}^1$	180 °C	140 °C	140 °C	180 °C	140 °C	140 °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	3 bar	3 bar	2 bar
Pressure Drop $\Delta$ (v=150 lpm)	8 mbar	8 mbar	8 mbar	each 5 mbar	each 5 mbar	each 5 mbar
Dead Volume $V_{tot}$	69 ml	48 ml	129 ml	28 / 25 ml	28 / 25 ml	21 / 21 ml
Sample Gas Connections <sup>4</sup>	G 1/4"	GL 14 (6mm)	DN 4/6	tube 6 mm	GL 14 (6mm)	DN 4/6
Condensate Out Connections <sup>4</sup>	G 3/8"	GL 25 (12 mm)	G 3/8"	tube 10mm (6 mm)	GL 18 (10 mm)	DN 5/8

<sup>1</sup> Max. Cooling Capacity of the Cooler must be considered | <sup>2</sup> NPT-threads upon request | <sup>3</sup> Can only be used with peristaltic pumps

<sup>4</sup> All Measurements are Metric; US Connections are Available

## TECHNICAL DRAWINGS



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