

Gas cooling system

GO-PKK 1/2

Cooling- Condensate Drain

GAS COOLING SYSTEM GO-PKK 1/2

Device for cooling the gas to separate the water vapor contained.

Prior to analysing the gas, the gas sample must normally be conditioned; generally, it is necessary to cool the gas in order to condense the water vapour contained in it.

The substances to be analysed must always be preserved. This means that for water-soluble gas components (e. g. SO₂) special procedures must be followed. In the cooling systems GO-PP and GO-PKK, the heart of the gas-drying process is a gas cooler with a cyclone heat exchanger that dries the gas down to a dew point of 5 °C without causing measurable losses of the components to be analysed in the gas.

Due to its special geometry (analogous to the cyclone particle separator), the patented heat exchanger cools the gas suddenly, and then the gas is immediately separated from the condensate, and does not have any further contact to it in the downstream gas passage. This effectively prevents substances from being washed out and lost.

In addition to the cooler, the cooling systems are

already equipped with pumps and vessels for draining off the condensate. The following options are available to complement the cooling systems: various filters, power connectors, and temperature controls for heated gas samplers and heated analysis pipes.

The cooling system GO-PP is installed on a mounting plate and is therefore suitable for installation in cabinets and industrial plants. The portable case makes the cooling system GO-PKK a system for mobile use.

The gas cooling systems of the series GO-PP and GO-PKK are designed for diverse applications and for varying flow rates (see Technical Data on the next page).

ADVANTAGES

- ☑ Compact design in a transportable case
- ☑ With cyclone heat exchanger pat. DPB 38 33 192
- ☑ Fast operational readiness of approx. five minutes
- ☑ Helps to accurate readings
- ☑ Leaching losses are prevented
- ☑ Stable exit dew point



PERFORMANCE PROFIL GO-PKK 1/2 (I)

Heat exchanger	GO-PKK 1 with one Cyclone separator GO-PKK 2 with two Cyclone separator
Volume of heat exchangers	GO-PKK 1 / 25 ml GO-PKK 2 / 50 ml
Outlet dew point	set at factory to + 5 °C, visual alarm with deviations of + 3 °C
Alarm output	Floating temperature alarm contact/changeover max. 250 V/30 W
Inlet dew point	GO-PKK 1 / max. 55°C GO-PKK 2 / max. 60°C
Cooling rate	110 J/h
Flow rate	GO-PKK 1 / 50 – 150 L/h GO-PKK 2 / 50 – 250 L/h
Ambient temperature	+ 5 to + 30 °C
Operative	within approx. 10 minutes (depending on ambient temperature)
Weight	approx. 9 kg

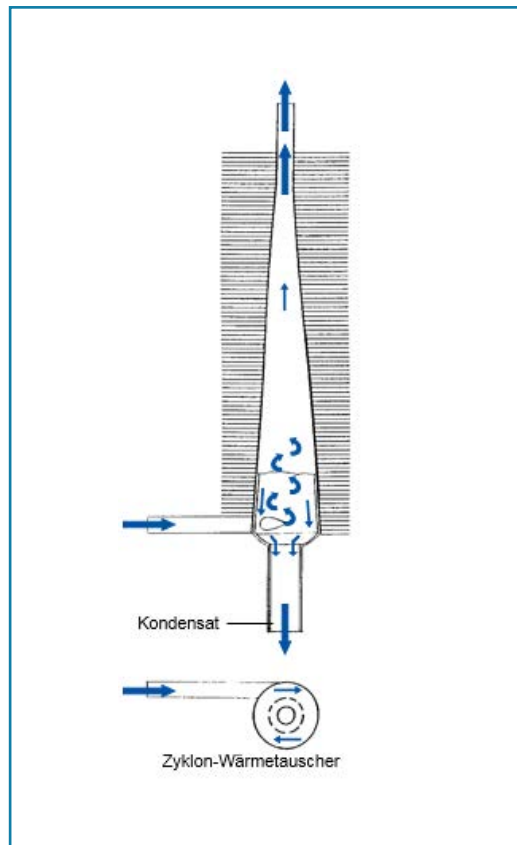


OPTIONS

- Aerosol filter
- Brackets for heated pipe
- Power plug for heated gas sampling probe and heated analysis line
- Temperature controller for heated analysis line

PERFORMANCE PROFIL GO-PKK 1/2 (II)

Peltier element	function-monitored with visual alarm
Operating pressure	max. 4 bar
Gas connections	Tube 4 x 6 mm, glass
Condensate drainage	Hose pump, output 0,5 l/h in receiver (1 l content)
Power consumption	max. 200 VA
Power supply	230 V, 50 Hz
Dimensions	L 450 x W 230 x H 310 mm
Weight	approx. 9 kg



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