

Gas conditioning systems

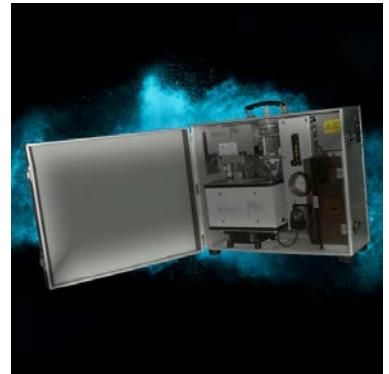


GOT 100

Cooling- Filtering- Drying

EMISSIONS ANALYSIS WITH IMPROVED MEASUREMENT RESULTS GOT 100

Achieve perfect measurement results in emission analysis by optimizing the processing of the gas to be analyzed with the patented GOT 100 measuring gas treatment system.



The GOT 100, your complete solution in emissions analysis. Effective combination of Peltier coolers with cyclone heat exchangers (patent No. DPB 38 33 192), filters and permeation dryers, which reliably dedust and dust the sample gas.

To obtain perfect test results when analysing emissions, the gases to be analysed must be conditioned optimally. Experience shows that it is not always sufficient to dry sample gases by cooling them to approx. + 5 to + 8 °C. The residual water content of about 8 g/m³ produces variations in the test results of the gas analysers; these variations cannot be compensated by calibrating to remove the side effects. If the sample gas contains aggressive components such as SO₂, insufficient drying can damage the analysers.

The patented sample gas conditioning systems of the series GO 100 and GO 200 (DBP 37 16 350) are a complete solution and offer the effective combination of Peltier cooler and cyclone heat

exchanger (pat. DPB 38 33 192), filters and permeation dryer, which remove dust and dry the sample gas reliably. In addition, aerosols and extraneous gases are removed. The outlet dew point achieved in this manner is below - 10 °C and ensures that there will be no further condensation in the gas analyser.

The sample gas conditioning systems of the series GO 100 and GO 200 have been certified for emission control according to TA Luft (air-pollution control code) and 13. BImSchV (Federal German law on emission control).

ADVANTAGES

- ☑ Aerosols and interfering gases are retained
- ☑ Reliable dedusting and drying of the sample gas
- ☑ A device for cooling, filtering and drying
- ☑ Detailed preparation on mounting plate
- ☑ Fast operation in about five minutes

PERFORMANCE PROFILE GOT 100

Cooler	Peltier cooler GO-PK 1 with cyclone heat exchangers, function-monitored Peltier element and floating temperature alarm contact
Ambient temperature	max. 30 °C
Cooling temperature	+5 to +8 °C controlled
Cooling rate	110 kJ/h
Flow rate	GOT-100: 50 to 120 L/h
Inlet dew point	max. 70 °C
Outlet dew point	< - 10 °C, depending on inlet dew point and flow rate
Condensate drain	1 pump capacity each 0,5 L/h to collecting vessel 1 l
Filter	Aerosol filter Membrane filter 10 µm
Drying	Permeation dryer and Peltierelement
Gas connections	Bulkhead unions PP 6 x 8 mm
Volume of the gas passage	approx. 200 ml
Gas passage made of	Glass, PP, PVC, PTFE, PVDF, Acrylic
Operative after	approx. 10 minutes
Power consumption	max. 950 VA (depending on length of heater)
Power supply	230 V, 50 Hz

OPTIONS

- ☑ Power supply for heated gas sampling probe
- ☑ Power supply plug and temperature control for heated analyzer
- ☑ Holder for heated analysis cable for attachment to the case
- ☑ Membrane filter with condensate monitor for shutting off the sample gas pump with moisture penetration



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