

Gas Conditioning System

GO-MO-SERIES

GO-MO 1

GO-MO 2

Cooling- Conveying- Measuring



GO-MO SERIES: GO-MO 1 / GO-MO 2 TREATMENT OF RAW GAS

Treatment of raw gas for continuous gas analysis (process analysis).



Gases, which have to be analysed according to TA Luft (Technical Instruction on Air Quality) to determine emissions, for example, contain a number of constituents which interfere with the gas analysis. They produce inaccurate test results and they may also damage the test equipment.

The gas conditioning system of the GO-MO series is designed to condition the untreated gas for continuous gas analysis (process analysis).

Extraneous constituents of the untreated gas have to be removed from the test gas to ensure that the substances to be measured (e.g. SO₂, CO, NO etc.) remain in the gas as completely as possible.

The gas conditioning system of the GO-MO series achieves this goal by means of the patented cyclone heat exchanger that cleans the test gas gently, dries it and avoids wash-out

effects .

Specification of Systems and Components

The test gas conditioning system GO-MO 1 comes with a Peltier gas cooler, a test gas pump and a condensate pump. The test gas conditioning system GO-MO 2 comes additionally with a test gas pump.

The temperature of the cooling block containing the patented cyclone heat exchanger of the Peltier cooler is freely selectable between 3° C and 15° C by means of a temperature control unit which is located on the front panel of the case .

All components of the system are housed in a plastic case which can be mounted on the wall.

ADVANTAGES

- ☑ Compact design
- ☑ Continuous processing
- ☑ Fast operational readiness of approx. five minutes
- ☑ Suitable for wall mounting
- ☑ With integrated cyclone heat exchanger
- ☑ Sample gas components remain in the gas
- ☑ Cooler temperature freely selectable in the range of 3 ° C to 15 ° C

PERFORMANCE PROFIL GO-MO SERIE (I)

| | |
|------------------------------------|--|
| Cooling | Peltier cooler |
| Power supply | 230 V / 50 Hz via appliance connector |
| Power consumption | max. 65 W |
| Volume of heat exchanger | approx. 25 ml |
| Cooling capacity of Peltier cooler | approx. 95 KJ/h |
| Gas inlet temperature | max. 50 °C |
| Gas outlet dew point | approx. 5° (depending on selected cooling block (temp.)) |
| Cooling block temperature | freely selectable from 3° C to 15° C |
| Flow rate | only GO-MO 2: approx. 75 L/h |
| Pressure / absolute vacuum | only GO-MO 2: 600 mbar / 350 mbar |
| Ambient temperature | +5° C to + 30 Ambient temperature |
| Number of gas inlets | 1 |
| Number of gas outlets | 1 |
| Number of condensate outlets | 1 |
| Ready | within approx. 10 minutes |
| Gas connections | bulkhead stuffing boxes PVDF DN 06/08 |
| Condensate drain | hose pump, pump capacity approx. 0.5 L/h |
| Gas passages made of | Glass, PVDF, PP, Viton and PVC |
| Dimensions L x W x H | 360 x 254 x 111 mm |
| Weight | 3,9 kg |

PERFORMANCE PROFIL GO-MO SERIE (II)

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|-------------------------------|--|
| Fuse | 2A, time-lag fuse, 230 V, 5 X 20 mm |
| System of protection | IP20 EN 60529 |
| Electrical Equipment Standard | EN 61010 |
| Alarm contact | potential-free two-way contact 10 A 230 V Cosφ 3 A 230 V Cosφ 0.8 |
| Temperature control | Type ATR121 with PT100 |
| Case | Polystyrene , colour gray, RAL 7035 for wall-mounting |



OPTIONS

- Hose pump
- Temperature controller
- Sample gas pump (GO-MO 2)

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