

# Gas treatment system MGK 744



## Gas treatment system MGK 744

Compact, portable and stationary gas treatment system in 1/2 19" housing for gas analysis systems which withdraws a gas sample for the analysis process. Especially for long-term or continuous measurements and measurements involving pollution and/or condensate. Crucial for accurate and reproducible measuring results.

### Description

The unit consists of a half 19" rack unit with permanently installed Peltier gas cooler which cools the gas to be measured to a temperature of +5 °C, irrespective of the withdrawal temperature or the ambient temperature. With hose pump for automatic condensate removal, gas pump, dust particle filter and flow meter with needle valve.

The gas treatment system is equipped with a status detection unit to show the operational state of the cooler and also an additional master switch for the gas pump.

### Gas cooler

Peltier gas cooler for cooling the gas to +5 °C.

### Gas filter

Fine dust filter

### Gas flow

Flow setting using a rotameter and needle valve

### Gas transport

Gas pump

### Condensate transport

Condensate removal by a hose pump

The following options are available:

### Options

- 3/2-way solenoid valve (operation via switch on the front or via digital input)
- Portable housing 1/2 19", 3HU

## Technical specifications

**Gas output dew point:** +5 °C

### Gas input

Max. 40 °C dew point, max. 80 °C gas temperature at 50 l/h and 20 °C ambient temperature

### Ready to operate

After approx. 15 min.

### Gas flow and filtering

- 60 l/h at 200 mbar
- Fine dust filter with glass fibre filter 2 µm

### Status indication of gas cooler via LED at the front

Temperature OK, cooling active, fault

### Connection

Capillary tube: 4 x 1 mm, clamping ring connection

### Wetted parts

Duran glass, PA, PC, Viton

### Supply voltage

AC 230 V/50 Hz, 60 W

### Operating temperature range

Ambient: +5 °C/+40 °C  
Storage: -15 °C/+55 °C

**Protection:** IP 20 (EN 60529)

### Dimensions and weight

W x H x D: 42 DU x 3 HU x 290 mm approx 4.5 kg

DG: E	Part no.	Price €
Gas treatment system MGK 744	69640	
Additional cost for 3/2-way solenoid valve	69641	
Additional cost for portable housing	69642	

