

Peltier Gas Dryer PGD-100



Peltier gas conditioning system Suitable for continuous use

The gas preparation system PGD-100 is a further development of our tried and tested GD-10. It is now fitted with an even more powerful Peltier cooler and can be directly controlled from the infrared analyser Photon. The compact and logical design makes the instrument small, convenient and easy to service. Special, patented processes ensure that aerosols are also removed from the gas.

Description

- Heated hose with software control of temperature
- Heated 25 µm filter
- Filter set on gas outlet (5 and 20 µm)
- Cooler temperature controlled by software
- Pump speed controlled by software
- Acoustic and visual warning for errors
- Directly controlled from the infrared analyser Photon

Operating data

- Power supply 230 or 120 VAC, 50/60 Hz
- Power requirement:
 - Control system 120 VA Max
 - Hose 1500 VA Max
- Operating temperature: 0°C ÷ 30°C
- Storage temperature: -20 ÷ +55°C
- Size: W x H x D: 500 x 340 x 150 mm
- Weight: approx. 11 kg

Parameter	Description
Cooler	
Method	Condensation due to rapid cooling
Cooler unit	Peltier element (70 W) with precooling and fan
Dew point	1 °C ÷ ambient, constant ±0.2 °C (ambient temperature up to +30°C)
Dead capacity	approx. 50 cc
Operational	after 15 min, dependent on ambient temperature
Gas inlet temp.	max. 200°C
Heated hose	
Hose temperature	20 °C ÷ 200 °C programmable, controlled ±1 °C
Inside diameter	6.0 mm
Length/diameter	Standard 3.0 m, other lengths available. Diameter approx. 42 mm
Gas pump	
Type	Membrane pump
Flow rate	Max 120 l/h, programmable
Operating pressure	0.5 ÷ 1.6 bar absolute
Condensate pump	
Type	Peristaltic
Flow rate	approx. 0.2 l/h
Display	
Type	LCD monochrome text display with backlighting
Size	4 lines, 20 characters per line