







CHARACTERISTIC FEATURES TECHNICAL DATA APPEARANCE

PGD-100 prepares gas sample for the co-operating analyser by removing dust, salts particles and condensate, so the sample is dry and clean.

Using gas conditioner is essential in case of majority measurements with gas analysers.

PGD-100



PGD-100

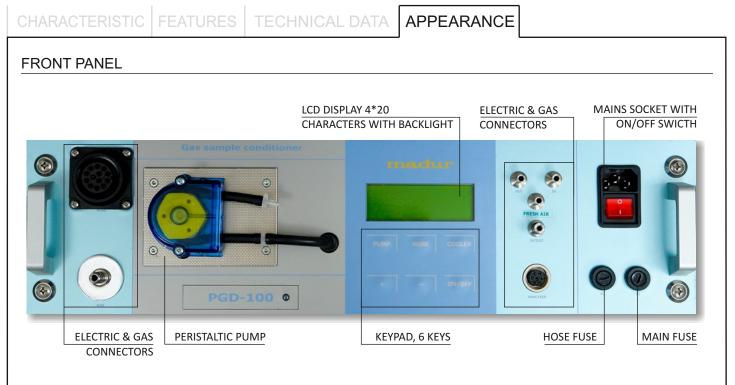


CHARACTERISTIC FEATURES TECHNICA	L DATA APPEARANCE
PGD-100 GAS DRYER WITH SINGLE CONDENSATION DRYER	
Dimensions (W * H * D)	500 mm * 340 mm * 150 mm
Weight	12 kg ÷ 13 kg
Casing material	Plywood covered with aluminium
Operating conditions	T: 10°C ÷ 50°C, RH: 5% ÷ 90% (non-condensing)
Dryer type	Based on Peltier cooling element with fan (12V DC supply)
Drying method	Water condensation by rapid cooling down
Cooling temperature	0°C ÷ 20°C
Ready to operate after	5 minutes
Storing temperature	0°C ÷ 60°C
Maximum gas flow for efficient drying (at inlet gas temp. 100°C and RH 100%)	100 l/h
Gas filters: quantity material	2 PA - body, PC - cover, viton - sealing
Filter insert: length ID OD material pore size	32mm 12mm or 15mm 18mm or 20mm PE 5µm
Condensate removal	With built-in peristaltic pump
Peristaltic pump capacity	38 ml/min
Power supply: input maximal power consumption	230V AC 40W (without heated hose)
Heated hose temperature	+180°C electronically stabilised
Heated hose temperature hysteresis	~5°C
Heated hose length	3m (optionally 5m or 10m)
Heated hose power supply: input maximal power consumption	230V AC 1000W
Heated hose thermocouple wires	K-type (S-type optionally)

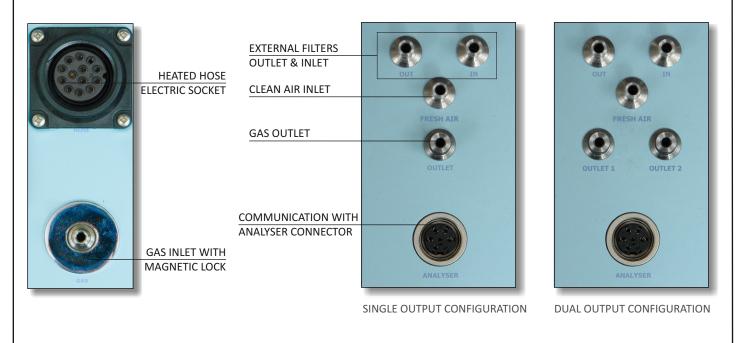


CHARACTERISTIC FEATURES T	ECHNICAL DATA APPEARANCE	
PDG - 100 GAS DRYER WITH SINGLE NAFION® DRYER		
Weight	9kg ÷ 10kg	
Dryer type	Based on Nafion [®] exchanger	
Drying method	Water transfer through Nafion [®] membrane driven by partial vapour pressure differential - first order kinetic reaction	
Cooling temperature	n/a	
Ready to operate after	1 minute	
Under pressure in Nafion [®] collar	~ 500 mbar	
*all other data is the same as for PDG-100 gas dryer with single condensation dryer		
PDG - 100 GAS DRYER WITH NAFION® DRYER + CONDENSATION DRYER		
Weight	11 kg ÷ 12 kg	
Dryer type	Outlet 1: Based on Nafion [®] exchanger Outlet 2: Based on Peltier cooling element with fan (12V DC supply)	
Drying method	Outlet 1: Water transfer through Nafion® membrane driven by partial vapour pressure differential - first order kinetic reaction Outlet 2: Water condensation by rapid cooling down	
Cooling temperature	Outlet 1: n/a Outlet 2: 0°C ÷ 20°C	
Ready to operate after	5 minutes	
*all other data is the same as for PDG-100 gas dryer with single condensation dryer		
PDG - 100 GAS DRYER WITH DUAL CONDENSATION DRYER		
Weight	12 kg ÷ 13 kg	
Cooling temperature	First dryer: Constant, about +1°C, output gas dewpoint about +4°C Second dryer: 0°C ÷ 20°C	
Ready to operate after	5 minutes	
*all other data is the same as for PDG-100 gas dry	er with single condensation dryer	

PGD-100



GAS AND ELECTRONIC CONNECTORS



EXAMPLE PRINT SCREENS



