







CHARACTERISTIC FEATURES TECHNICAL DATA APPEARANCE

PGD-100 is a powerful gas conditioner necessary to prepare gas sample before further analysis. It removes most particles from the gas and keeps stable level of its humidity during whole measurements.

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

PGD-100



PGD-100

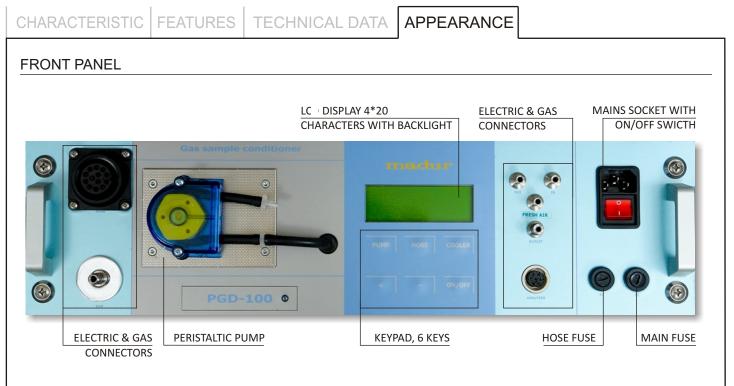


CHARACTERISTIC FEATURES TECHNIC	CAL DATA APPEARANCE
PGD-100 GAS DRYER WITH SINGLE CONDE	ENSATION DRYER
Dimensions (W * H * D)	500 mm * 340 mm * 150 mm
Weight	12 kg ÷ 13 kg
Casing material	Plywood covered with aluminium
Operating conditions	T: 10°C ÷ 50°C, RH: 5% ÷ 90% (non-condensing)
Dryer type	Based 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)

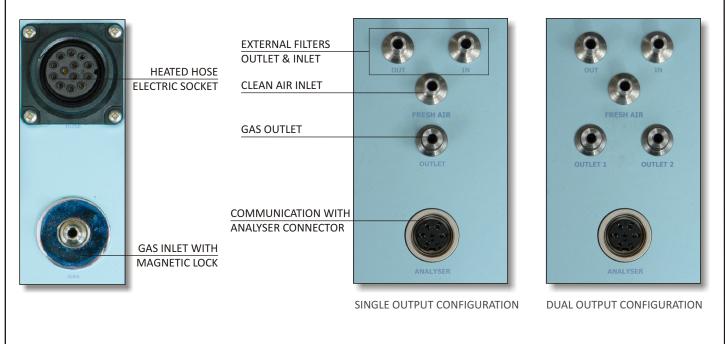


CHARACTERISTIC FEATURES	TECHNICAL DATA APPEARANCE
PDG - 100 GAS DRYER WITH SINGLE NAFION® DRYER	
Weight	9kg÷10kg
Dryer type	Based on Nafion [®] exchanger
Drying method	Water transfer through Nafion [®] membrane driven by partial vapour pressure differential - first order kinetic reaction
Cooling temperature	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 d	ryer with single condensation dryer
PDG - 100 GAS DRYER WITH NAF	ION® 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	10-15 minutes
*all other data is the same as for PDG-100 gas d	ryer with single condensation dryer
PDG - 100 GAS DRYER WITH DUA	AL 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	10-15 minutes
*all other data is the same as for PDG-100 gas d	ryer with single condensation dryer

PGD-100



GAS AND ELECTRONIC CONNECTORS



EXAMPLE PRINT SCREENS

*** PGD 102 *** www.madur.com



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