www.madur.com

md3

madur universal conditioning unit

More Info/Order From:
Electronic Measurement Labs, Inc.
"Best in Gas Detection"
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CHARACTERISTIC | FEATURES | TECHI

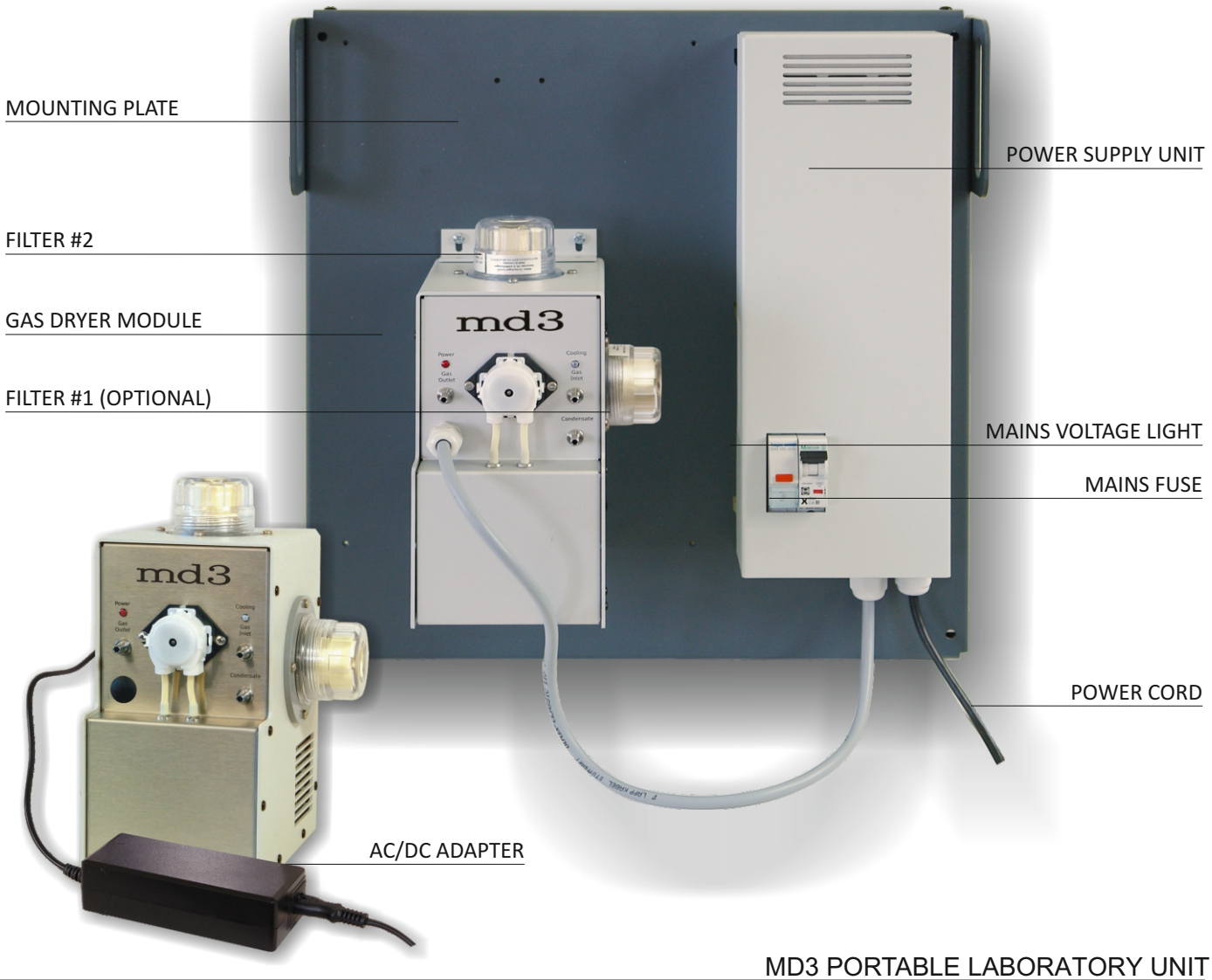
MD3 gas dryer was initially designed to be a part of our stationary maMoS analyser.

Though, thanks to the efficiency, small dimensions, and competitive price, MD3 dryer became interesting alternative to standalone gas conditioners.

It is available in three different versions: stationary (hung on the wall), portable for laboratory applications, and now also portable for field applications in a new convenient casing.

- Condensation dryer based on the Peltier element
- Built-in peristaltic pump for condensate removal
- Large surface gas filter (optionally two of them) that provides thorough cleaning of the gas sampleand long, maintenance-free intervals
- Md3 gas dryer, not only is it supplied as a part of mamos gas analyser, but also can work as an autonomous device.
- It is available in three versions:
    - Stationary dryer with power supply unit, provided on a common mounting plate. It's adjusted to be hung on the wall.
    - Portable dryer for laboratory applications - adjusted to set on table and equipped with uncoupled mains adapter.
    - Portable dryer - compact, lightweight, closed in a robust case. It's adjusted to work with portable devices without their own dryer. It works with different power sources, including battery packs.

MD3 GAS DRYER AS STATIONARY UNIT



MD3 PORTABLE LABORATORY UNIT

FRONT PANEL

POWER LED (RED)

CONDENSATE PUMP

COOLING LED (BLUE)

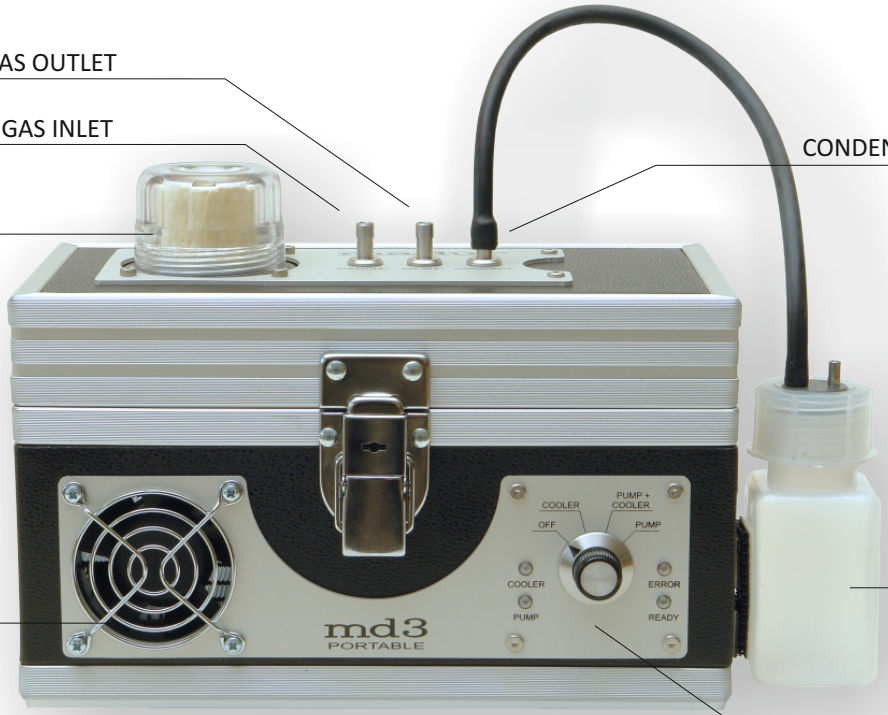
DRY GAS OUTLET

GAS INLET

SUPPLY CABLE PASS (A VERSION ONLY)

CONDENSATE OUTLET

MD3 PORTABLE UNIT



GAS OUTLET

GAS INLET

FILTER

CONDENSATE OUTLET

CONDENSATE TRAP

FAN

CONTROL PANEL

MD3 STATIONARY AND LABORATORY DRYERS

Dimensions (W * H * D)	Without filters: 110 mm * 205 mm * 160 mm With filters: 145 mm * 240 mm * 160 mm
Weight	1790 g (single filter version)
Mounting plate: dimensions (H * W) | material | weight	450 * 439 mm | aluminium | 1,55kg
Drying method	Water condensation by rapid cooling down
Cooler type	Based on Peltier cooling element with fan (12VDC supply)
Cooling temperature	Constant, about +1°C, output gas dewpoint about +4°C
Ready to operate after	5 minutes
Operating conditions	T: 0°C ÷ 50°C, RH: 5% ÷ 90% (non-condensing)
Storing temperature	0°C ÷ 60°C
Maximum gas flow for efficient drying (at inlet gas temp. 100°C and RH 100%)	100 l/h
Filter insert: length | ID | OD | material | pore size	42mm | 26mm | 32mm | glass fibre | 2µm
Condensate removal	With built-in peristaltic pump
Peristaltic pump capacity	38 ml/min
Power consumption	30 W

MD3 PORTABLE DRYER

Dimensions (W * H * D)	283 x 168 x 199 mm (max with electric plug connected)
Weight	~2,7 kg
Casing	Wood and stainless steel
Drying method	Water condensation by rapid cooling down
Cooler type	Based on Peltier cooling element with fan (12VDC supply)
Cooling temperature	Constant, about +1°C, output gas dewpoint about +4°C
Ready to operate after	5 minutes
Operating conditions	T: 0°C ÷ 40°C, RH: 5% ÷ 90% (non-condensing)
Storing temperature	0°C ÷ 55°C
Maximum gas flow for efficient drying (at inlet gas temp. 100°C and RH 100%)	10 l/h
Gas filters: quantity | material	1 | PA - body, PC - cover, viton - sealing
Filter insert: length | ID | OD | material | pore size	42mm | 26mm | 32mm | glass fibre | 2µm
Condensate removal	With built-in peristaltic pump
Peristaltic pump capacity	38 ml/min
Supply voltage	15÷45 VDC
Electric plug type	NEUTRIK NL2MP
Power consumption	20 W

POWER SUPPLY UNIT - STATIONARY UNIT

Dimensions (W * H * D)	360 mm * 130 mm * 56 mm
Weight (depends on equipment)	1,4kg
Casing material	Aluminum
Mounting plate	Power supply is mounted on common plate with analyser unit
Operating conditions	T: 10°C ÷ 50°C, RH: 5% ÷ 90% (non-condensing)
Storing temperature	0°C ÷ 55°C
Input voltage	100 ÷ 240V AC 50/60Hz
Output voltage	24V DC / 6,3A | 150W
Output current	6,3A max
Mains fuse	6A, B type
Cable pass	2 pcs PG-7

MAINS ADAPTER - LABORATORY UNIT

Dimensions (W * H * D)	115 mm * 55 mm * 35 mm
Weight	~300g
Casing material	PC or PPO
Operating conditions	0°C ÷ 40°C
Storing temperature	0°C ÷ 55°C
Input voltage	100 ÷ 240V AC 50/60Hz
Output voltage	+15V DC
Output current	4,33A max
Output plug type	5,5 * 2,1 * 11 mm (positive inner pin)
Output cable length	1,8m
Mains cable socket	IEC C8 (T2)