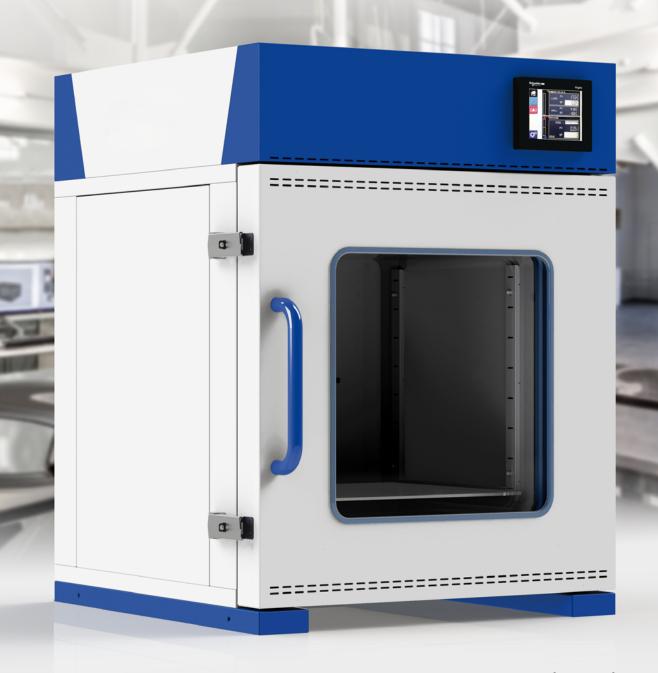


VACUUM & COATING SOLUTIONS



www.plasmadiam.com

MVO RANGE

Up to 10⁻² mbar and 200°C

VACUUM OVENS MVO

MVO vacuum ovens are suitable for sensitive product drying applications, outgassing, thermal treatments of oxidizable materials, quick drying of powders and granulates...

Robust construction for lasting performances.

Exterior made of steel coated with blue and white epoxy paints.

Inner casing made of stainless steel, corrosion resistant.

Rounded corners and removable racks allow easy cleaning. Low surface temperature, low energy consumption.

Reliable temperature on your products.

Heating is ensured by heating elements located on outer faces of the inner casing for best homogeneity. 1 probe fixed on the side, 1 other is mobile to be integrated on your product. The controller automatically adjusts the temperature of the walls for a perfect precision on your products.

Protections for your oven and your products.

Adjustable and non-resettable mechanical thermostat (class 3.1 protection). It stops heating and it supports the temperature control in case of failures. Visual and audible alarm.



One device, complete management!

The oven is controlled by a 5.7 "color touch screen controller. Very intuitive and easy to use. Automatic control and real-time monitoring of temperature and vacuum level.

Several modes of vacuum regulation (set value, max vacuum, ...). The oven can be controlled via a PC with an RJ45 cable.



Easy temperature measurements!

An entry port allows to insert up to 4 probes.

Easy loading and unloading.

1 tray provided. Aluminium tray with anti-tilting guide bars. Multiple load levels.

A reliable connection of your vacuum pump.

The electrical connection of the vacuum pump is made directly to the back of the oven. A KF-type connector allows the air to be pumped and a nipple ensures air release.



MVO 020 MVO 050 MVO 120 MVO 240

OPTIONS





Temperature + vacuum profiler

Door gasket made of Viton

ACCESSORIES



Tray with guide bars



Vacuum kit



Subframe



Data logger with 2 channels



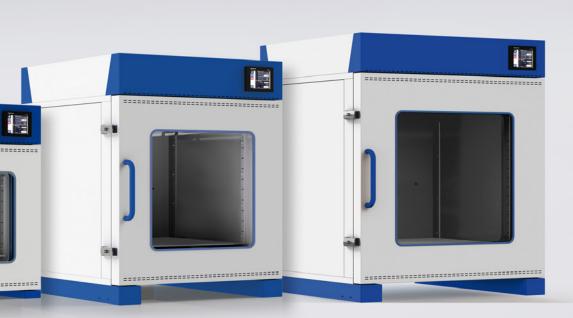
Portable paperless recorder with graphical screen



Probe shutter



Thermocouple J probe



1 Temperature + vacuum profiler

4 programs with 16 steps each.

Allows the creation of temperature and vacuum programs.

2 Door gasket made of Viton

Replacement of the silicone door gasket by a gasket made of Viton (limited to 200°C).

Aluminium tray with guide bars

Max distributed loading 30 kg. With 2 anti-tilting guide bars.

2 Vacuum kit

Oil sealed vacuum pump with 1 m flexible hose and

3 Subframe (except MVO 320 and MVO 512) Elevates the oven for a better loading comfort. Safety glass in the front. Clever storage of the

Safety glass in the front. Clever storage vacuum pump inside.

- subframe with height adjustable feet
- subframe with castors (2 with brakes)
- subframe with height adjustable feet (especially for $\rm XFM320$ and $\rm XFM512).$

4 Data logger with 2 channel

Saves the temperatures measured by 2 mobile sensors.

Software for data logger with 2 channels

Can set data logger and retrieve stored data on a PC.

5 Portable paperless recorder

Color graphical display for real monitoring of temperature changes. With USB and RJ45 plugs, and 4 connectors for mobile sensors.

6 Probe shutter

To be placed in the DN16 entry port to insert up to 4 probes (not included).

Thermocouple J probe

Stainless steel. Length of 2m. With plug. To be placed in entry port DN16.

TECHNICAL DATA

	MVO020	MVO050	MVO120	MVO240	MVO320	MVO512
Working volume (L)	20	51	110	220	316	512
	SIZES					
Internal width (mm)	250	320	470	470	650	800
Internal depth (mm)	320	500	500	1000	750	800
Internal height (mm)	250	320	470	470	650	800
External width* (mm)	510	580	800	800	992	1130
External depth* (mm)	585	765	820	1320	1095	1150
External height* (mm)	715	785	1000	1000	1230	1330
External height* with subframe (mm)	1480	1550	1765	1765		1735
Weight, empty (kg)	60	85	170	235	315	370
	PERFORMANCES					
Temperature range (°C)	Ambiant + 20°C up to 200°C					
Temperature fluctuation (+/- °C)	< 0.2					
Vacuum range (mbar)	up to 10-2 (absolute pressure)					
Sensor type	Piezo					
Vacuum control accuracy*** (%)	+/- 2					
Pumping connector	DN25 KF	DN25 KF	DN25 KF	DN25 KF	DN25 KF	DN25 KF
Vacuum breaking connection	Nipple-Hose Ø4	Nipple-Hose Ø4	Nipple-Hose Ø7	Nipple-Hose Ø7	Nipple-Hose Ø13	Nipple-Hose Ø13
	ELECTRICAL DATA					
Heating power (W)	800	1200	2400	3600	6000	9000
Electrical supply	230V ~1P 50Hz 400V ~3P +N 50Hz					
Amperage connection (A)	16	16	16	20	16	20
	LOADING TRAYS					
Number of trays provided / max. in the oven	1/4	1/5	1/8	1/8	1 / 11	1 / 15
Trays sizes (LxP) (mm)	224x280	294x460	444x460	444x960	624x710	772x760
Trays sizes (working surface) (LxP) (mm)	216x280	285x460	436x460	436x960	614x710	768x760
Max. weight on a tray / max. in the oven (kg)	30 / 60	30 / 60	30 / 90	30 / 90	30 / 120	30 / 200
<u> </u>	* Come entires may change the querie size.					

^{*} Some options may change the oven's sizes

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 $[\]ensuremath{^{**}}$ According to the characteristics of the associated vacuum pump