

Laboratory Microwave Equipment, Landgraf

Laboratory microwave unit MW 4000

These microwave units are optimized for use in the laboratory. Contrary to household equipment, they have the following characteristics:

Exhaust air outlet

The exhaust air is removed via an air outlet fitting which can be connected to an air extractor. A condensation cooler can be mounted in the exhaust air stream to condensate vapors over a collection basin.

Media fittings

Two 13-mm hole connections are included for attaching hoses for feeding in media, extractions, and cooling agents. When a microwave unit is operated with no or very little material loaded in it, the unit may be damaged because the energy is not absorbed. For discharge of excess energy, the laboratory microwave unit 4000 may optionally be equipped with a flow cooler.

Magnetic mixer (optional)

As an alternative to the rotating plate, the model 4100 has a magnetic mixer. This enables the material being heated in the middle of the microwave device to be mixed during the heating process. The adjustable speed range of the mixer is 50 to 1200 rpm.

Permanent output (optional)

The power is infinitely adjustable between 0 to 600 Watts and is radiated evenly without cycle interruptions. The material being heated is therefore heated very evenly and there is no risk of overheating. A temperature controller can also be fitted in the form of a submersible sensor. The sensor is inserted in the sample from above. The controller permits programmable temperature profiles to be run.

Technical data:

HF power:	800 Watt, 5 performance levels
Internal dimensions (W x D x H):	285 x 287 x 202 mm
External dimensions (W x D x H):	450 x 500 x 320 mm
Air extractor connection:	70 mm fitting
Connected load:	220 – 240 V/ 50 Hz, 1300 W



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Article	Order No.
① Laboratory microwave unit 4000 with rotating bottom	10 67 23200
Laboratory microwave unit 4100 with rotating bottom	10 67 23201

Accessories

Article	Order No.
Optional permanent output	10 67 23202
Optional temperature control Pt100 (416773203 required)	10 67 23203
Continuous cooler	41 67 73130
Condensation cooler	41 67 73120

PTFE digestion vessels with screw cap and pressure-proof foil

Volume ml	Ø mm	Height mm	pressure-proof up to bar	Order No.
5	15	32	25	41 67 07100
10	16	52	25	41 67 07101
20	20	60	20	41 67 07102
50	33	62	20	41 67 07105
② 100	35	110	15	41 67 07110

Rupture foils

Article	for vessel	Order No.	PU pc/Pack
Rupture foils	5 ml	41 67 07120	10
Rupture foils	10 and 20 ml	41 67 07121	10
Rupture foils	50 and 100 ml	41 67 07123	10