

Laboratory Microwave Equipment, Landgraf

Laboratory microwave units

These microwave units are optimized for use in the laboratory. Unlike household equipment the power is generated continually and not by simply switching off the magnetron. This therefore permits more uniform heating especially for lower levels of power.

Exhaust air outlet

The exhaust air is removed via an air outlet fitting which can be connected to an air extractor.

Optimized power control

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. The heating time can be set to for up to 99 minutes with the digital stopwatch.

Media fittings

2 hole connections are included for attaching hoses for feeding in media, extractions, cooling agents, application of gas to the sample, etc.

External setpoint value

The power of the microwave device can be regulated by an external setpoint value of 0 – 10V.

Magnetic mixer (optional)

As an alternative to the rotating plate for several samples a magnetic mixer can also be fitted. This enables the material being heated in the middle of the microwave device to be mixed during heating at the same time. The adjustable speed range of the mixer is 50 to 1200 rpm.

Temperature control (optional)

As an alternative to the power controller 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 and a serial interface permits communication with a PC.

Technical data:

Power:	600 Watt
Internal dimensions (W × D × H):	350 × 320 × 210 mm
External dimensions (W × D × H):	540 × 500 × 420 mm
Air extractor connection:	70 mm fitting
Connected load:	220 – 240 V/ 50 Hz, 1000 W
Weight:	20 kg

Article	Order No.
① Laboratory microwave unit 3000 with rotating bottom	41 67 73000
Laboratory microwave unit 3100 with magnetic stirrer	41 67 73100

Accessories

Article	Order No.
② Optional temperature control Pt100 (not retrofittable)	41 67 73110
Condensation cooler at outlet	41 67 73120
Continuous cooler	41 67 73130

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
③ 100	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

