

DISPERMAT® LC110/220

Strong and versatile dissolvers up to 2.2 kW with electric height adjustment for laboratory and pilot plant

Laboratory and pilot plant dissolver with high torque

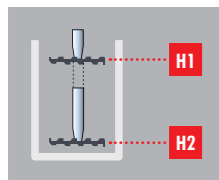
Due to its electric height adjustable stand the DISPERMAT® LC is an easy to use dissolver for laboratory and pilot plant operation.

The most powerful version with 2.2 kW motor is suitable even for small production applications. The compact and robust stands contain a safety device according to the EC machine directive 2006/42/EC as standard.

The central container clamping system allows for a particularly simple handling. The container is placed between the clamping arms and it is centrally clamped in place.

The safety device according to the 2006/42/EC Machine Directive provides that the motor should be switched off whenever the dispersion tool is outside the dispersion container. The corresponding switching points are directly entered via the membrane keyboard.

Setting is very simple:
Press the keys for the electrical height adjustment to approach the desired switching positions and press the H1 or H2 keys to save them.



When the rotating dissolver disc reaches position H1, the lifting motor and the dissolver motor are deactivated. When the rotating dissolver disc reaches position H2, the lifting motor is deactivated.

Furthermore, the actual height HA of the dissolver disc is permanently and digitally displayed. The distance between the container bottom and the dissolver disc (0.25 D - 0.5 D) can be set precisely and reproducibly to achieve an optimum doughnut effect.

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Selection aid:

- Product volume and viscosity
- Refer to page 22 for the container size and the dissolver disc diameter

LC - technology



- **DISPERWHEEL® speed adjustment**
infinitely variable speed adjustment with rotary pulse encoder
- **Digital indication**
display for speed, time, torque, product temperature, height of the dispersion tool and safety device
- **Switch off parameters**
switch off function for temperature

- **Timer**
timer function with display of the pre-selected time as well as the elapsed time
- **Height adjustment**
control of the convenient height adjustment of the drive motor via the foil keyboard
- **DISPERSAFE®**
TÜV-certified safety module for convenient use of variable container sizes without limit switches or mechanical contraption.
- **Height measurement**
adjustable working range for different container sizes
- **Foil keyboard**
the splash water protected and solvent-resistant wipe clean foil keyboard allows for a particularly ease of use



DISPERMAT® LC 110 / 220
H2L STAND

Dimensions W x H x D	73 x 145 x 55 cm
Height adjustment	electric
Container capacity	0.25 - 25 litres
Container clamping range	Ø = 5 - 35 cm
Container height	9 - 44 cm
Weight	80 kg

DISPERMAT® LC110-220

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The DISPERMAT® LC 110-220 series dissolvers are designed for laboratory and pilot plant operation. The compact drive unit not only contains the powerful three-phase motor and the separately driven and low-noise ventilation but also the power electronics installed in the motor. A separate switchgear cabinet is not required. The DISPERMAT® LC dissolver can be connected directly to the mains.

The proven and well-shaped H2L compact stand with electric height adjustment complements the DISPERMAT® LC

- **ACCESSORIES** APS, TML, CDS, SR, ASC
Flexible. Powerful. Innovative.
- **DISPERWHEEL® SPEED ADJUSTMENT**
with rotary pulse encoder
- **DISPERSAFE® TÜV CERTIFIED**
Safety module (EN ISO 13849-1)
- **HEIGHT ADJUSTMENT ELECTRIC**
Easy handling, functional design
- **WORK SAFE DIRECTIVE 2006/42/EC**
Integrated safety equipment
- **MADE IN GERMANY SINCE 1972**
Quality, precision and durable technology



DISPERMAT® type	Power kW	Speed rpm	Torque Nm	Product volume, litre		
				low-viscosity	medium-viscosity	high-viscosity
LC110-12	1.1	0-12000	1.8	0.25-20	0.25-10	0.25-5
LC220-12	2.2	0-12000	3.6	0.25-20	0.25-15	0.25-8
LC110-6	1.1	0-6000	3.6	0.5-20	0.5 15	0.5 - 8
LC220-6	2.2	0.0-6000	7.2	0.5-20	0.5 - 20	0.5 - 12

APS bead mill litre [page 146]	TML basket mill litre [page 148]	CDS vacuum system litre [page 76]	SR rotor-stator litre [page 104]	ASC scraper system litre [page 90]
0.01 - 0.5	0.25 - 3	0.1 - 14	0.5 - 15	3.5
0.01 - 1.5	0.25 - 11	0.1 - 14	0.5 - 15	3.5
0.03 - 0.5	0.25 - 3.5	0.1 - 14	0.5 - 15	3.5
0.03 - 1.5	0.25 - 11	0.1 - 18	0.5 - 15	3.5