



# DISPERMAT® LC-EX

Explosion-proof laboratory dissolvers for zone 2 with electric height adjustment



Convenient dissolver for stirring, dispersing, dispersion under vacuum, homogenizing and fine grinding in hazardous areas of zone 2.

The DISPERMAT® LC-Ex dissolvers are designed specifically for laboratory dispersion work in hazardous areas where ATEX approved machines are required.

The new competitive DISPERMAT® LC-EX models are explosion-proof laboratory dissolvers according to explosion class Zone 2, Category 3G IIB T3.

The instruments have integrated control panels and contain all essential explosion-proof controls for easy operation of the unit: ON/OFF switch, potentiometer for an infinitely speed adjustment and a switch for operating the electric height adjustment.

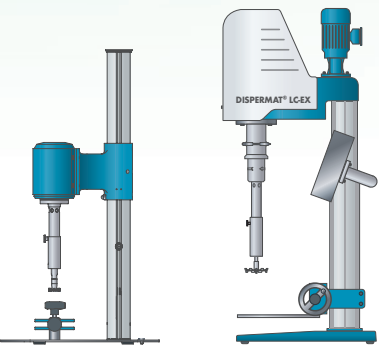
Due to the integrated explosion-proof safety device consisting of the container clamping system (LC25-EX: container clamping system), the working height monitoring of the dispersion tool and the shaft protection pipe, a safe and comfortable work with the laboratory dissolvers DISPERMAT® LC25-EX, LC55-EX and LC-75-EX is assured.

The separate control cabinet with the power electronics is situated outside the hazardous area.

### LC-EX – technology



- Emergency off switch
- Electric height adjustment  
Control of the convenient electrical height adjustment of the drive motor
- ON/OFF switch
- Speed adjustment  
infinitely variable speed adjustment from 0 to 12000 rpm



	DISPERMAT® LC25-EX H1B STAND	DISPERMAT® LC55-EX - LC75-EX H2BT STAND
Dimensions W x H x D	70 x 84 x 48 cm	73 x 121 x 61 cm
Height adjustment	electric	electric
Container capacity	0.125 – 10 litres	0.5 – 20 litres
Container clamping range	Ø = 3 – 34 cm	Ø = 5 – 35 cm
Container height	10 – 35 cm	7 – 38 cm
Container clamping system	FHV*	ZBS**
Safety device	—	•
Weight	40 kg	90 kg

\* FHV = clamping device / \*\* ZBS = central container clamping device



Selection aid:  
• Product volume and viscosity  
• Refer to page 22 for the container size and the dissolver disc diameter

DISPERMAT® type	Power kW	Speed rpm	Torque Nm	Product volume, litre			+				
				low-viscosity	medium-viscosity	high-viscosity		APS bead mill litre [page 146]	TML basket mill litre [page 148]	CDS vacuum system litre [page 76]	SR rotor-stator litre [page 104]
LC25-EX	0.25	0 – 12000	0.4	0.05 – 3	0.05 – 1	0.05 – 0.5		0.01 – 0.1	—	—	0.5 – 5
LC55-EX	0.55	0 – 12000	0.9	0.25 – 5	0.25 – 3	0.25 – 1.5		0.01 – 0.2	0.25 – 1.4	0.1 – 0.7	0.5 – 5
LC75-EX	0.75	0 – 12000	1.2	0.25 – 10	0.25 – 5	0.25 – 2.5		0.01 – 0.5	0.25 – 1.4	0.1 – 1.4	0.5 – 5

- ATEX ZONE 2**  
Explosion-protection according to 2014/34/EU
- ACCESSORIES** APS, TML, CDS, SR  
Flexible. Powerful. Innovative.
- 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