



DISPERMAT® AE-EX

Powerful dissolvers for hazardous areas according to zone 1/0
2014/34 EU product directive

The DISPERMAT® AE-M-EX and AE-C-EX are explosion-proof laboratory and pilot plant dissolvers for use in hazardous areas applications. In these dissolvers the motor, the control system, the electric height adjustment and the complete safety device are all explosion-proof. The enclosure with built-in electronics is not explosion-proof and must be installed in a suitable safe area.

The motors are three-phase (EEx d II B T3 ignition protection) which allow a smooth start from zero; the speed is infinitely variable due to the use of advanced frequency converters. During the motor operation the generated heat is dissipated either through the surface of the motor or via an external fan; this will ensure a low-noise operation.

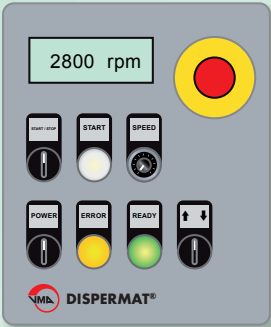
The dissolver DISPERMAT® AE-EX is available with C-EX or M-EX control

C-EX – technology



- Large color display with indication of speed, torque, power, product temperature, timer, peripheral speed and height of the dispersing tool
- Data recording with graphical indication
- Switch off function for parameters as temperature, speed, power, etc.
- 100 individual PRESET configurations
- Explosion-proof according to ATEX, standard zone 1
- Constant mechanical power or constant speed

M-EX – technology



- Variable speed adjustment
- Electric height adjustment
- Digital speed indication
- Explosion-proof according to ATEX, standard zone 1



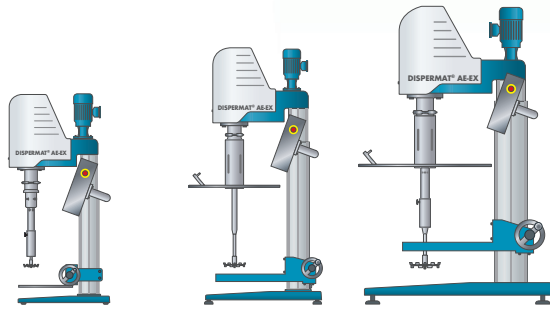
DISPERMAT®
AE01-EX – AE06-EX

Explosion-proof DISPERMAT®
AE01-EX – AE06-EX dissolvers

The DISPERMAT® AE01-EX to AE06-EX are proven explosion-proofed laboratory dissolvers which are for dispersing both very small product volumes and larger formulations. The high quality explosion-proof control system provides comprehensive data relating to the dispersion process and is especially suitable not only for quality assurance but also for research and development assignments. The modular range of accessories ensures that the AE dissolvers are suitable for a wide range of applications.



DISPERMAT® AE04-EX
with C-EX technology



	DISPERMAT® AE01-EX – AE06-EX / H2ST-Ex STAND	DISPERMAT® AE07-EX – AE10-EX / H2SF-Ex STAND	DISPERMAT® AE11-EX – AE12-EX / H3S-Ex STAND
Dimensions W x H x D	85 x 162 x 60 cm	90 x 230 x 70 cm	120 x 237 x 105 cm
Height adjustment	electric	electric	electric
Container capacity	0.25 – 25 litres	15 – 100 litres	25 – 250 litres
Container clamping range	Ø = 5 – 40 cm	Ø = 25 – 61 cm	Ø = 30 – 75 cm
Container height	6 – 50 cm	25 – 74 cm	39 – 90 cm
Weight	170 kg	250 kg	400 kg

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]	ASC scraper system litre [page 90]
AE01-EX	0.55	0 – 10000	1	0.25 – 12	0.25 – 6	0.25 – 3	0.008 – 0.5	0.25 – 0.4	0.2 – 8	0.5 – 15	0.35 – 3.5
AE02-EX	0.55	0 – 6000	1.8	0.5 – 14	0.5 – 7	0.5 – 3.5	0.03 – 0.5	0.5 – 3	0.2 – 8	0.5 – 15	0.35 – 3.5
AE03-EX	1.1	0 – 10000	2	0.25 – 20	0.25 – 10	0.25 – 5	0.03 – 0.5	0.25 – 3	0.2 – 16	0.5 – 15	0.35 – 3.5
AE04-EX	2.2	0 – 10000	4	0.25 – 20	0.25 – 15	0.25 – 7.5	0.03 – 1.5	0.25 – 12	0.2 – 16	0.5 – 15	0.35 – 3.5
AE05-EX	1.1	0 – 6000	3.7	0.5 – 20	0.5 – 15	0.5 – 7.5	0.03 – 0.5	0.5 – 12	0.2 – 16	0.5 – 15	0.35 – 3.5
AE06-EX	2.2	0 – 6000	7.4	0.5 – 20	0.5 – 20	0.5 – 10	0.03 – 2	0.5 – 12	0.2 – 20	0.5 – 15	0.35 – 3.5