

# DISPERMAT® AE

Powerful dissolver up to 7.5 kW  
with extensive process control

### Dissolvers for reproducible dispersions in laboratory, pilot plant and production.

The popular and innovative DISPERMAT® AE  
dissolvers for laboratory, pilot plant and  
production are now available with a motor  
power up to 7.5 kW.

The operator has easy access to all of the  
machine controls from the control panel  
mounted conveniently on the machine stand.

The electric height adjustment as well as  
the control panel provides access to the  
complete control dispersion processes.  
Due to its process control the DISPERMAT®  
provides information about dispersion and  
milling processes.

DISPERMAT® pilot plant and production  
dissolvers with motors of 3 kW and  
larger are now equipped with one of the  
ergonomical stands of the H2SF/H3S-  
series. These functional and robust stands are  
equipped with an integrated safety device  
and an electric height adjustment. The stands  
are available in a table and a floor version.

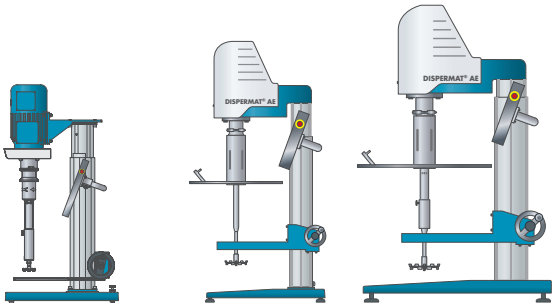
The central clamping system is height  
adjustable and allows the application of the  
versatile modular accessories.

### C – technology



- **DISPERWHEEL® speed adjustment**  
infinitely variable speed adjustment with  
rotary pulse encoder
- **Large color display**  
indications of speed, torque, power, product  
temperature, timer, peripheral speed and  
height of the dispersing tool

- **Repeatability**  
dispersion method: constant speed or  
constant mechanical power input for optimum  
repeatability, temperature-based dispersing
- **Data recording**  
recording of the process parameters with  
graphical indication
- **Switch off parameters**  
switch off function for temperature, speed,  
torque and power
- **Database**  
100 individual PRESET configurations for H1,  
H2, speed, time, switch off parameters, ramp  
function, etc.
- **DISPERSAFE®**  
TÜV-certified safety module for convenient  
use of variable container sizes without limit  
switches or mechanical contraption.
- **Power compensation**  
net power calibration
- **Height measurement**  
adjustable working range for different  
container sizes
- **Connectivity**  
USB, Wi-Fi, LAN



	DISPERMAT® AE01 – AE06 H2L STAND	DISPERMAT® AE07 – AE10 H2SF STAND	DISPERMAT® AE11 – AE12 H3S STAND
Dimensions W x H x D	70 x 142 x 55 cm	90 x 210 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 – 35 cm	Ø = 25 – 61 cm	Ø = 30 – 75 cm
Container height	9 – 47 cm	25 – 74 cm	39 – 90 cm
Weight	87 – 101 kg	190 kg	350 kg

**Selection aid:**

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

## DISPERMAT® AE01 – AE06



### DISPERMAT® AE01 – AE06 dissolver

The DISPERMAT® AE01 to AE06 dissolvers  
are well proven classical laboratory  
dissolvers which are ideally suited for  
dispersing both very small product volumes  
and larger formulations.

The high quality control system provides  
comprehensive data relating to the  
dispersion process and especially suitable  
not only for quality assurance but also for  
research and development assignments.  
The modular range of accessories ensure  
that the AE dissolvers are suitable for a  
wide variety of applications.

- ACCESSORIES** APS, TML, CDS, SR, ASC, TMS  
Flexible. Powerful. Innovative.
- PROCESS CONTROL C-TECHNOLOGY**  
Repeatable dispersion results
- 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		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	0.55	0 - 10000	1	0.25 - 12	0.25 - 6	0.25 - 3		0.01 - 0.5	0.25 - 1.4	0.1 - 2.1	0.5 - 1.5	3.5
AE02	0.55	0 - 6000	1.8	0.5 - 14	0.5 - 7	0.5 - 3.5		0.03 - 0.5	0.25 - 3.5	0.1 - 2.1	0.5 - 1.5	3.5
AE03	1.1	0 - 10000	2	0.25 - 20	0.25 - 10	0.25 - 5		0.03 - 0.5	0.25 - 3.5	0.1 - 18	0.5 - 15	3.5
AE04	2.2	0 - 10000	4	0.25 - 20	0.25 - 15	0.25 - 7.5		0.03 - 1.5	0.25 - 11	0.1 - 18	0.5 - 15	3.5
AE05	1.1	0 - 6000	3.7	0.5 - 20	0.5 - 15	0.5 - 7.5		0.03 - 0.5	0.25 - 3.5	0.1 - 18	0.5 - 15	3.5
AE06	2.2	0 - 6000	7.4	0.5 - 20	0.5 - 20	0.5 - 10		0.03 - 2	0.25 - 11	0.1 - 18	0.5 - 15	3.5