NEW





DISPERMAT CV3evo

Thenew compact laboratory dissolver with electrical height adjustment and innovative process control for stirring, dispersing, homogenizing and fine grinding in the laboratory

www.vma-getzmann.com



Tel: 01442 876 777 Email: sales@fullbrook.com

SYSTEMS LTD. Web: www.Fullbrooksystems.co.uk

DISPERMAT CV3evo

Thenew, innovative all-rounder for the laboratory. In ergonomic design with process control and electric height adjustment.

Versatile laboratory dissolver for stirring, dispersing, vacuum dispersing, homogenising and fine grinding.

The DISPERMAT CV3 evois a completely redesigned laboratory dissolver and impresses with a particularly ergonomic and compact design. It is equipped with an electric height adjustment and can be used for versatile tasks in the laboratory.

The controller is situated in the new, high-quality stainless steel housing with an innovative glass panel and can be operated via the integrated, solvent-resistant membrane keyboard. The large colour screen shows all relevant process parameters.

Thusthe new DISPERMAT CV3evocombines form and functionality in a new way.

The sturdy central clamping systemoffers further comfort. With the clamping arms the dispersion container is centrally located and secured safely under the dissolver shaft. The integrated safety package in accordance with the machine directive 2006/42/EC provides reliable protection during the dispersing process.

High grade design, certified quality and reliable technology characterise this all—rounder for the laboratory.

The DISPERMAT CV3evodissolver is suitable for multiple tasks in the laboratory and pilot plant:

- Dispersing
- Finegrinding
- Stirringand mixing
- Homogenizing
- Dispersingunder vacuum
- · Dispersing high-viscosity substances
- Emulsifying
- Suspension
- Solving











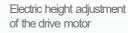






	DBFEFMAT_CV3ao
Dimensions W x H x D	65 x 85 x 52 cm
Height adjustment	electric
Container capacity	0.125 - 10 litres
Container clamping range	Ø = 5 - 35 cm
Container height	3 - 38 cm
Weight	37 kg







Flexible. Powerful. Innovative.

Modular dispersion and fine grinding systems for the dissolver DISPERMAT□CV3evo

Height adjustable central container clamping device

Stainlesssteel working platform

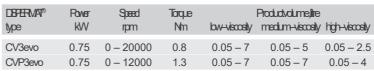


Control housing made of stainless steel with innovative glass panel and integrated solvent-resistant membrane keypad

Option: laboratory scale operated via the glass panel

















litre	litre	litre	litre	
0.01 - 0.5	0.25 – 1.4	0.1 - 0.7	0.5 -5	
0.01 - 0.5	0.25 - 1.4	0.1 - 0.7	0.5 -5	

CV Technology



GLASSPANEL

High-quality glass front with a large colour display and an integrated, solvent-resistant, backlit membrane keypad.

COLOURDISPLAY

Extra large colour display with indication of speed, torque, power input, product temperature, timer, peripheral speed, height of dispersing tool, status bar with safety indicators, working heights, operating mode, etc.

TIMER

Timerfunction with display of the pre-selected time as well as the elapsed time. Timercontrolled switch over to second speed.

HEIGHT MEASUREMENT
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Adjustable working range for different container sizes. (HA, H1, H2)

New. Innovative. Trendsetting.

DISPERWHEEL

Speed adjustmentinfinitely variable speed adjustmentwith rotary pulse encoder.

DISPERSAFE

TÜV-certified safety module enbles the use of different container sizes without additional limit switches or mechanical devices.

HEIGHTMEASUREMENT

Adjustable working range for different container sizes. (HA, H1, H2)

Additional options

LEDLAMP

Switching of a high performance LEDlamp to fully illuminate the dispersion process inside the container.

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 PRESETconfigurationsfor H1, H2, speed, time, switch off parameters, ramp function, etc.

POWERCOMPENSATION

Net power calibration.

USERADMINISTRATION

Create and manage different users.

• SCALE

Option to connect an external precision scale.

WINDISP[®]

USBdata interface for WINDISP software for documentation, analysis, research, developmentand quality control.



Large color display

The innovative and easy-to-operate control systemallows extensive process control, showing all relevant data in the display. The figure shows the most important indications of the graphic display.

- Speed
- Powerinput
- Producttemperature
- · Timer, operating time
- · Circumferential velocity of the dispersion tool
- Torque
- · Currentheight of the dispersion tool

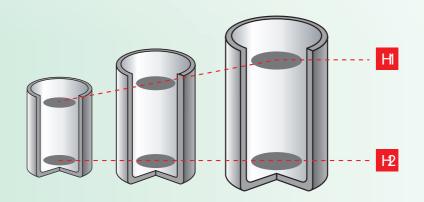
Different containers have different working ranges. Therefore, the CV technology makes an individual adjustement of them possible. Thus, the dissolver disc can be prevented from having a contact with the container bottom or operating outside the working range. The current distance of the dissolver disc H2 is permanently shown in the display. This unique function provides support for all dispersion tasks and facilitates your work.

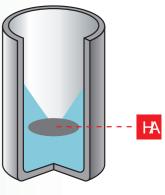
H1: When the rotating dissolver disc switchesto position H1 during acceleration, the lifting motor is deactivated.

H2: When the rotating dissolver disc switchesto position H2 during deceleration, the lifting motor is deactivated.

The difference between H1 and H2 is the working range.

HA: The position of the dissolver disc is permanently displayed digitally so that the distance between H2 and dissolver disc can be adjusted exactly and reproducibly.







APSbead mill

Bead mill accessory for DISPERMAT □ dissolvers Optional: Nano, ceramic, pressure and vacuum design

Dispersing and fine grinding with one device: the APSbead mill accessory

In combination with an APSmilling system, a DISPERMAT laboratory dissolver changes into a closed batch bead mill. The systemis easily adapted to the corresponding dissolver via the dissolver shaft or the adapter flange.

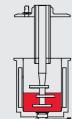
The DISPERMAT can be used as a dissolver or as well as a bead mill.

Bead mill APS:environmentally friendly and efficient milling technology

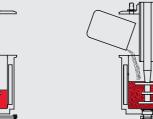
- easy to use milling systems
- · dispersion in a closed system
- low energy consumption
- · simple and secure handling
- fast change of milling beads
- very easy-to-clean







The APS milling system can easily be fitted to the DISPERMAT□ laboratory dissolver. It is filled with the appropriate quantity of millbase. The milling tool is lowered. The milling beads are introduced whilst the milling rotor slowly rotates.



The sliding cover is lowered to seal the milling container. The millbase is then dispersed. The cover can be easily raised for taking samples during the dispersion process.



On completion of the dispersion process, the sieve sealing plug is removed and the milling container is discharged with assistance of compressed air. The milling container is flushed with a suitable cleaning fluid.





Container capacity Product volume 30 – 1000 ml





TORUSMILL TMLbasket mill

Basket mill accessory for DISPERMAT □ dissolvers Nano, ceramicand vacuumdesign, scraping system

TMLbasket mill: highly efficient fine milling system for DISPERMAT □ dissolvers

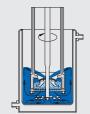
The modular TORUSMILL TML basket mill accessory converts a DISPERMAT dissolverinto an extremely efficient batch bead milling system.

The dissolver shaft is easily replaced by the basket mill accessory without the need for any tool. Basketmills are highly efficient batch milling systems. An integral impeller pumping wheel agitates the beads and circulates the millbase through the basket.

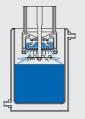
The milling basket is double-walled for cooling and has a screen that retains the milling beads but allows the millbase to pass through. An efficient circulation of the millbase through the basket ensures excellent dispersion results in a short period of time.

Especially eco-friendly and efficient milling technology

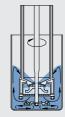
- excellent dispersion results in a short time
- excellent product circulation due to dissolver disc and pump wheel
- highly repeatable dispersion results
- · uniform average residencetime
- narrow particle size distribution
- no dead areas due to effective mill base circulation
- · no escape of milling beads during the dispersion
- dispersion in a closed system
- · low energy requirement
- · Simple cleaning and quick change of millbase
- · Especially user-friendly milling system:very simple and safe handling



Thedouble-walled milling basketfilled with beads is lowered into the millbase. Intense circulation of the product is generated with the dissolver disc and integrated pump wheel.



For assessment of the milling process—during dispersion a product sample can be taken at any time. When the milling process is complete, the grinding basket is raised.



Product residue in the milling basket is centrifuged out by briefly running the milling and the dissolver discs. Cleaning the milling systemis carried out with a suitable cleaning fluid in a separate container.











TORUSMLL TIMLO5 BASKETIMLL

Container capacity 500 - 2000 ml

Product volume 250 - 1200 ml



CDSvacuum dispersion system

Modular vacuum system for DISPERMAT □ dissolvers

Option: single—walled or double—walled containerholder

Dispersion under vacuum with the modular CDSdispersion system

The CDS dispersion systemenables the dispersion process to be carried out in single—walled containers in a closed systemunder vacuum. The single—walled containers are placed into the container holder and secured in place. If the dispersion process needs to be cooled a double—walled container holder is available. After the liquid and powder components have been added, the glass cover can be lowered onto the container holder over the vacuum shaft guide tube. The actual dispersion process can now be run and the product is set into a turbulence free rolling motion.

If vacuum is required the vacuum pump can be switched on. The impeller height can easily be raised or lowered during the dispersion process even under vacuum. The dispersion process can be observed clearly through the large glass cover.

The CDS system can be equipped with a particularly bright LEDlight as well as an integrated infrared temperature measurementsystem.





CDS250 - 1000 VACUUMSYSTEM

Container capacity Product volume 250 / 500 / 1000 ml 100 – 700 ml





SRHomogenizer

Modular rotor-stator dispersion system for DISPERMAT dissolvers

Modular rotor-stator systems

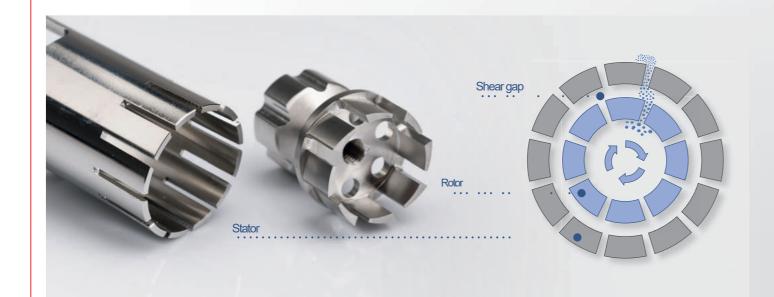
The rotor-stator systems SR03 and SR17 can be easily adapted with a quick coupling. The DISPERMAT CV3 evohas a powerful actuation with 0.75 kW. The high speed of 20,000 min-1 generates the shear forces and impact effects required for the rapid homogenization of a medium.

This short processing time makes sure that the product is not stressed excessively.

Theinfinitely adjustable drive speed from 0 allows convenient work.

The bearing between the rotor and stator consists of especially high grade ceramic materials. The systems can be removed easily, deaned simply and sterilized, if required.

In addition, the proven SR03and SR04 bearing free rotor-stator systemsare available.







SR03/SR17 ROTORSTATOR

Container capacity 0.5 – 10 litres

Product volume



Innovative stirring, dispersing and fine grinding technology.

Innovative dissolvers, basket mills, bead mills, rotor-stator homogenizers and stirrers for laboratory, pilot plant and production. Our experienced engineers will be pleased to provide you with personal advice.

+49 2296 8030

vma-getzmann.com



















VMA-GETZMANN GMBH Euelerhammerstraße 13 51580 Reichshof, Germany

Phone +49 2296 8030 Fax +49 2296 80333 E-Mail info@vma-getzmann.de

