

Datasheet

This product datasheet has been provided by
John Godrich in Partnership with Dispermill





New Dispermill Vango®

Laboratory and Pilot Dissolvers, Mixers and Mills

ATP Engineering B.V. is proud to announce their latest and most innovative Laboratory Dissolver series till now, Dispermill Vango®. This New line of Dissolvers has both Fine Grinding and Vacuum versions.

For more than 20 years, ATP has been associated with knowledge and experience of highly reliable R&D machines to fill your process needs. Just take a look at some of the new features and you will see why the new Dispermill Vango® is an exciting machine.

NEW FEATURES

Optimized Control System with New improved user friendly Software, Compact Full color LCD screen integrated on front. Multi Jog LED Interface knob, to give much faster control on the menu:

- Adjustable Timer with automatic stop.
- Speed control starting from zero.
- Tip speed readout of dispersing disc.
- Readout of Ampere.
- Readout of product temperature.



- Reduced noise level.
- Increased speed.
- New attractive design.
- Ergonomic lifting handle.
- Machine is 100% in balance.
- Stainless steel column and foot, plus stainless steel dripcatcher as option.

QUALITY

We monitor the production of each machine constantly.

On all Dispermill® machines we give 2 years warranty on all parts.

All production and distribution are carried out at ATP-Holland.



Dispermill®

Laboratory and Pilot Dissolvers, Mixers and Mills

Basketmill model	Batch range	Power		Bead charge	Screen
Micromill	750 ml till 2 litre	0,75 kW	1.0 HP	50 ml	0.17 / 0.27 / 0.50 mm
Quartermill	4 till 8 litre	2,20 kW	3.0 HP	180 ml	0.17 / 0.27 / 0.50 mm
Pilotmill	20 till 50 litre	5,50 kW	7.5 HP	1 litre	0.17 / 0.27 / 0.50 mm

A Basketmill combines mixing and milling achieving optimum particle size distribution, increasing production efficiency, and producing extraordinary quality and contribution to profit. Immersion milling is a revolution in processing technology that defies comparison. Its unique design and method of operation surpass all other systems, enabling the entire milling process to take place within a single water-cooled milling chamber. The Patented system uses circulation milling technology by rapidly pumping the slurry through the media field.

The patented basket guarantees an optimal flow and eliminates any possible ‘dead-zones’. To accommodate the diversity of product range different baskets are available. Standard upon delivery are 1 basket with 1 screen slot size 0,17, 0,27 or 0,5 mm. Other sizes can be delivered upon request.

MEDIA SELECTION

All kinds of milling media are applicable from 0,5 up to 1,6 mm in diameter but should be taken with care. The selection and matching of the media choice is still important. Our recommended beads are good for 10000 milling hours.



Dispermill Vango® 100 with Rotor Stator



Dispermill Vango® 100 with Millingdisc

Milling system / Basketmill

This Patented system uses circulation milling technology by rapidly pumping the slurry through the media field.



Dispermill Vango® 100 with Basketmill



Dispermill Vango®-Line

Model	Vessel size	Power		Adjustable Speed	Dissolver Disc	Speed Readout	Torque	Voltage	Dimensions w x d x h	Weight
Orange	0.2 till 2 litre	0,30 kW	0.4 HP	0 - 10.000 rpm	40 mm	Yes	0.5 Nm	230 Volt, 50/60 Hz	500 x 360 x 710 mm	25 kg
Vango 100	0.5 till 8 litre	0,75 kW	1.0 HP	0 - 12.000 rpm	70 mm	Yes	1.3 Nm	230 Volt, 50/60 Hz	500 x 325 x 1080 mm	58 kg
Vango 150	1 till 25 litre	1,10 kW	1.5 HP	0 - 4.500 rpm	80 mm	Yes	3.6 Nm	230 Volt, 50/60 Hz	510 x 370 x 1350 mm	65 kg
Vango 200	1 till 25 litre	1,50 kW	2.0 HP	0 - 10.000 rpm	90 mm	Yes	2.7 Nm	400 Volt, 50/60 Hz	510 x 370 x 1350 mm	70 kg
Vango 300	1 till 25 litre	2,20 kW	3.0 HP	0 - 4.500 rpm	100 mm	Yes	7.6 Nm	400 Volt, 50/60 Hz	510 x 370 x 1350 mm	82 kg
Dispermill® 300 on the Floor	20 till 60 litre	2,20 kW	3.0 HP	0 - 4.500 rpm	125 mm	Yes	7.6 Nm	400 Volt, 50/60 Hz	750 x 610 x 1759 mm	100 kg

*Other dimensions and powers available on request

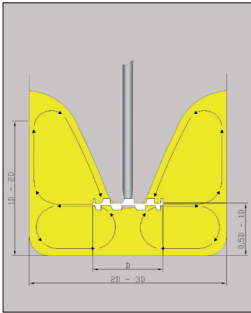
CORRECT USE OF THE DISSOLVER

Best results will be achieved by following the guide dimensions as shown in the illustration. The peripheral speed (Tip speed) of the disc should reach 18-22 m/sec. The shaft speed and Tip speed is shown on the display. After premixing raw materials increase the shaft speed till no product is on the vessel wall and the top of the dissolver disc is visible 'Doughnut-flow pattern'.

Dispersing of solid particles into fluids. Dispersing is a process to move and separate an agglomerate particle into smaller particles. The object is to disperse the agglomerate particles into their primary particle size.



Vacuum system for Dispermill® (optional). Several products require processing under vacuum. For this purpose we supply an additional vacuum kit which is easy to fit onto Dispermill®



- Vortex or Doughnut pattern.
- Guide Dimensions for good dispersion results.
- Peripheral velocity or Tip speed must be 20 m./sec.



Controls of Dispermill®, detail of the functions:

- Digital read out of Speed
- Digital read out of Time
- Countdown Timer
- Automatic Stop
- On/Off Light Buttons
- Adjustable Speed starting from 0 RPM

CHOOSING THE RIGHT DISSOLVER

With a worldwide network of distributors in more than 25 countries, we are able to provide you locally:

- Personal advice on processing techniques that suits you best.
- Test and demonstration possibilities.
- Fast delivery.
- Excellent after sale service for all our products.
- 24 hour service for spare parts.
- Worldwide warranty.

For carrying out of trials or demonstration with your own product we always have several test machines available. Please contact your local Dispermill® agent for advice, or give us a call.

APPLICATION FIELDS, FOR EACH PROCESS THE RIGHT SOLUTION

Paints, Floor coatings, Ceramics, Colorants, Automotive coatings, Inks, Sealants, PVC liquids, Aerospace coatings , Industrial coatings, Resin, Putties, Decorative coatings, Textile, Additives, Wood coatings, Plasters, Stuco / Wall paints and Adhesives.



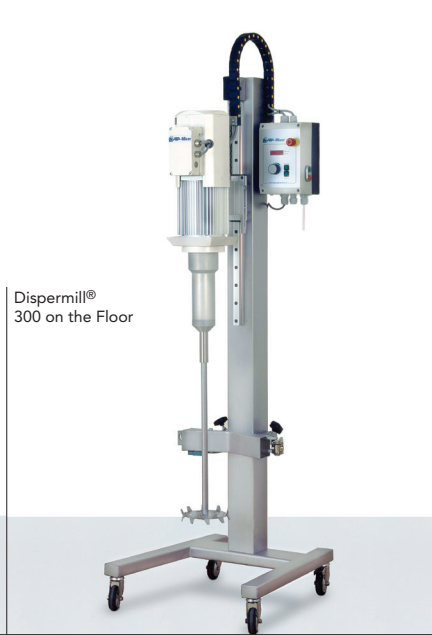
Dispermill Vango® 100 with Vacuumunit



Dispermill® Orange



Dispermill® X-proof 150 FRX



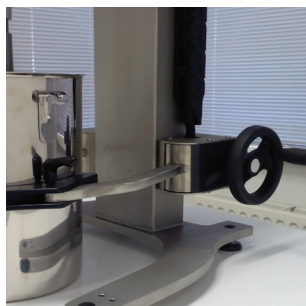
Dispermill® 300 on the Floor

Dispermill® X-Proof (ATEX) Versions with frequency inverter

Model	Vessel size	Power		Adjustable Speed	Dissolver Disc	Speed Readout	Torque	Voltage	Dimensions w x d x h	Weight
075 FRX	0.5 till 8 litre	0,75 kW	1.0 HP	200 - 5.000 rpm	70 mm	Option	1.3 Nm	400 Volt, 50/60 Hz	500 x 325 x 1080 mm	58 kg
150 FRX	1 till 25 litre	1,10 kW	1.5 HP	200 - 4.000 rpm	90 mm	Option	3.6 Nm	400 Volt, 50/60 Hz	510 x 370 x 1350 mm	70 kg
300 FR on the Floor	20 till 60 litre	2,20 kW	3.0 HP	200 - 4.000 rpm	125 mm	Option	7.3 Nm	400 Volt, 50/60 Hz	750 x 610 x 1759 mm	100 kg



Dispermill
Vango® 100
Dissolver



New option for all models:
Central Vessel Clamping System



Stainless steel foot with Quick Fit
Clamping System



Stainless Steel Dissolver Discs

Diameter

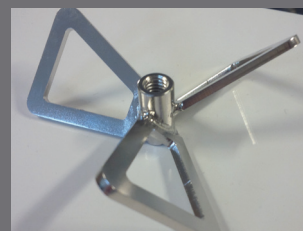
Dispersing disc 20 mm	Dispersing disc 30 mm
Dispersing disc 40 mm	Dispersing disc 50 mm
Dispersing disc 60 mm	Dispersing disc 70 mm
Dispersing disc 80 mm	Dispersing disc 90 mm
Dispersing disc 100 mm	Dispersing disc 125 mm



Stainless Steel Marine Propeller

Diameter

Propeller 40 mm	Propeller 60 mm
Propeller 80 mm	Propeller 100 mm
Propeller 120 mm	Propeller 140 mm



Stainless Steel Butterfly Blades

Diameter

Butterfly 40 mm
Butterfly 60 mm
Butterfly 80 mm
Butterfly 100 mm
Butterfly 120 mm



PP Millingdiscs (Single or Double version)

Diameter

Millingdiscs 30 mm
Millingdiscs 40 mm
Millingdiscs 60 mm
Millingdiscs 80 mm
Millingdiscs 100 mm



Stainless Steel Dispersing Vessels

Volume	Diameter	Height
1/2 litre	83 mm	100 mm
1 litre	105 mm	155 mm
2 litre	140 mm	170 mm
3 litre	165 mm	185 mm
5 litre	185 mm	230 mm
8 litre	210 mm	275 mm
12 litre	240 mm	285 mm
15 litre	270 mm	285 mm
20 litre	265 mm	390 mm
50 litre	340 mm	555 mm



Jacketed Stainless Steel Vessels

(Double Wall)

Volume	Int. Diameter	Int. Height
1/2 litre	105 mm	100 mm
1 litre	105 mm	155 mm
2 litre	140 mm	170 mm
3 litre	165 mm	185 mm
5 litre	185 mm	230 mm
8 litre	210 mm	275 mm
15 litre	250 mm	285 mm
20 litre	265 mm	285 mm
50 litre	340 mm	555 mm

*Other dimensions on request



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