

PT 7100

The POLYTRON System PT 7100 prepares the finest dispersions and homogenisations and is suitable for use with working volumes up to 40 litres (depending on the viscosity of the product and the dispersing aggregate used). The drive can be equipped with a wide range of POLYTRON® dispersing-aggregates. The aggregates are easy to change using the quick-coupling.

The drive unit PT 7100 is equipped with a 2000 W motor and will be started using the main switch placed at the front side. The speed will be adjusted using the turning knob on the front side of the device. Within the speed range of up to 12'000 rpm, the integrated closed loop speed control will tune the speed to any adjusted value, independent from load changes.



FREQUENCY CONVERTER



Connected to frequency inverter RECO® 7100 / interface MODBUS RJ45 connection

Powerful 2000 watt drive

Sound-proof to approx. 70 dB A

Up to 12'000 rpm and up to approx. 50m/s tip speed

Soft-start, overload protection and speed stabilisation

POLYTRON® PT 7100	
Technical Data	
Motor power, type	2000 W (input) / 1500 W (output), AC motor 3-phase
Supply Voltage	230V / 100...115V / 50/60 Hz
Speed at Dispersing Rotor max.	max. 12'000 rpm
Direction of rotation	clockwise, seen from above
Noise emission (w/o load)	> 70 dB (A) at 12'000 rpm
Ambient temperature	0 - 40°C
Relative humidity	95% max.
Standards	Manufactured acc. to EN / IEC 61010, 61326-1 for EMC & SAFETY
Protection class	IP 55
Working volume	max. 40'000 ml
Dimensions	600 x 1202-1702 x 600 mm
Weight (drive only)	44.00 kg



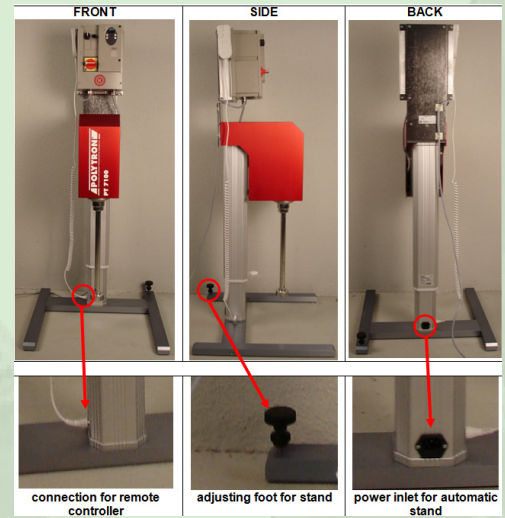
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Dispensing and Mixing Technology

HOMOGENIZING AND MIXING TECHNOLOGY

Stand

The automatic telescopic stand is driven by an electric motor and can be adjusted using the remote controller



connection for remote controller

adjusting foot for stand

power inlet for automatic stand

Dispersing Vessels



Choice of Dispersing Aggregates

PT-DA 6040/2M	PT-DA 6040/2W	PTA 45/2	PTA 45/2M	PTA 45/6	BAA 45
special M-Generator Rotor with knives rotor/stator with one teeth row each	special W-Generator rotor/stator with one teeth row each	standard generator rotor/stator with one teeth row each	special M-Generator Rotor with knives rotor/stator with one teeth row each	standard generator rotor/stator with three teeth rows each	BIOTRONA® Generator blade rotor and stator with inclined slots
36 m/s	36 m/s	40 m/s	40 m/s	40 m/s	40 m/s
200 - 4000 ml	200 - 5000 ml	200 - 6000 ml	200 - 6000 ml	200 - 4000 ml	1000 - 15 000 ml
<ul style="list-style-type: none"> dispersing and mixing of particles up to 20 mm in size sample preparation for extraction and solution of organic material intensives mixing rotor with knives facilitate the processing of larger cell tissue samples or particles 	<ul style="list-style-type: none"> dispersing of fibrous, stringy and brittle samples (e.g. flesh) 	<ul style="list-style-type: none"> dispersing and mixing of particles up to 22 mm in size sample preparation for extraction and solution of organic material intensives mixing 	<ul style="list-style-type: none"> dispersing and mixing of particles up to 22 mm in size sample preparation for extraction and solution of organic material intensives mixing rotor with knives facilitate the processing of larger cell tissue samples or particles 	<ul style="list-style-type: none"> making finest emulsions and suspensions mixes and reduces highly intensive solids into fluids gasses solutions separates fibres and cellular material into very small particles extraktions 	<ul style="list-style-type: none"> high turbulent mixing with low shear forces fast dissolving and suspending of solids also at higher viscosity

PT-DA 6050/2	PT-DA 6050/6G	PT-DA 6060/2W	PT-DA 6060/2M	PT-A 60/6	PT-DI 6053
standard generator rotor/stator with one teeth row each	special G-Generator rotor/stator with mechanical seal rotor/stator with three teeth rows each	special W-Generator rotor/stator with one teeth row each	special M-Generator Rotor with knives rotor/stator with one teeth row each	standard generator rotor/stator with three teeth rows each	special dissolver disk
44 m/s	44 m/s	50 m/s	50 m/s	50 m/s	47 m/s
300 - 10 000 ml	300 - 4000 ml	1000 - 30 000 ml	1000 - 30 000 ml	1000 - 20 000 ml	1000 - 40 000 ml
<ul style="list-style-type: none"> dispersing and mixing of particles up to 25 mm in size sample preparation for extraction and solution of organic material intensives mixing 	<ul style="list-style-type: none"> working under pressure / vacuum making finest emulsions and suspensions mixes and reduces highly intensive solids into fluids 	<ul style="list-style-type: none"> dispersing of fibrous, stringy and brittle samples (e.g. flesh) 	<ul style="list-style-type: none"> dispersing and mixing of particles up to 30 mm in size sample preparation for extraction and solution of organic material intensives mixing rotor with knives facilitate the processing of larger cell tissue samples or particles 	<ul style="list-style-type: none"> making finest emulsions and suspensions mixes and reduces highly intensive solids into fluids gasses solutions separates fibres and cellular material into very small particles extraktions 	<ul style="list-style-type: none"> fast mixing and homogenizing of solid material into fluid by means of a dissolving disk Preparing highly viscous products



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