Finest Swiss Made solutions... worldwide!

PT 1300 D

Digital handheld homogenizer

Homogenizing and Mixing Technology for the laboratory

DISPERSING

HOMOGENIZING

EMULSIFYING

SUSPENDING

WET MILLING

MIXING





KINEMATICA.CH Dispersing and Mixing Technology

www.kinematica.ch

POLYTRON® PT 1300 D - innovative, elegant, comfortable

The rotor/stator principle for dispersing equipment, originally invented by KINEMATICA, has become the accepted standard for homogenizing, dispersing and emulsifying worldwide.

The POLYTRON® PT 1300 D belongs within the KINEMATICA homogenizer program to the handheald models for small scale applications in the range of approx. 0.05 - 250 ml.

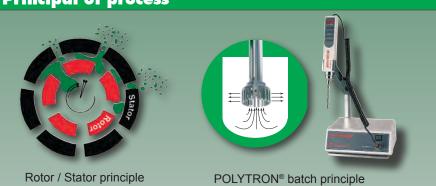
The POLYTRON[®] PT 1300 D handheld homogenizer is equipped with a 100 Watt powered drive system and control unit which is supplied with 24V safety current by the Power and Supply unit.

The intelligent electronical control system proofs steadily the given speed at the drive system and informs about discrepancy by changing viscosity.

The dispersing system POLYTRON® PT 1300 D convinces with the following features:

- 100 Watt/24 V powerful drive
- Intelligent control system
- Digital Display
- RS232 PC-Interface (optional)
- MEMO function
- Foil keyboard
- Variable speed between 7000 and 30000 rpm
- Quick coupling for the dispersing aggregates

Principal of process

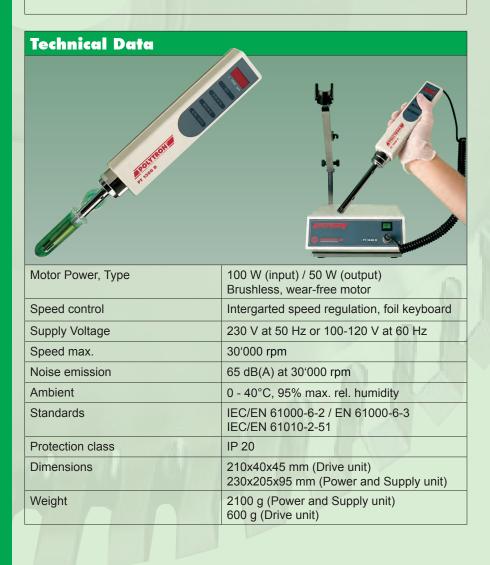


The Rotor/Stator principle for dispersing and homogenizing equipment, originally invented by KINEMATICA, has become the worldwide accepted standard for homogenizing and dispersing a solid or fluid or gaseous phase into a fluid phase.

The dispersing aggregates of the **POLYTRON**[®] and **BIOTRONA[®]** batch dispersing systems are directly immersed into the medium.

The product will be processed by the rotor/stator dispersing generator at the tip of the dispersing aggregate.

POLYTRON[®] Rotor/Stator homogenizers successfully process emulsions, suspensions and foams by reducing the size of solid particles, droplets and gas bubbles to a few microns or less. Small and large amounts of product are being dispersed in a more economical, faster and better way than with any other device.



Further Equipment & Order information

EasyClean Dispersing Aggregates



The modern EC aggregates are equipped with saw-teeth which increase the efficiency in the preliminary size reduction of the droplets/particles and considerably shortens the processing time. The tips of the teeth are secured by a safety ring which avoids the teeth from bending. The whole dispersing aggregate is made from superior grade stainless steel (1.4435/316L) and is electropolished.

POLYTRON[®] EC dispersing aggregates are equipped with special slide bearings made from a Teflon compound, which have extraordinary mechanical characteristics and superior chemical resistance and FDA approval. The complete aggregate can be dismantled in two to three steps, easily cleaned and sterilised i.e. autoclaved.

Digital Display

With the POLYTRON® PT 1300 D - depending on the chosen dispersing aggregate and the material to be processed - infinitely variable speeds between approx. 7000 and 30 000 rpm can easily and exactly be adjusted and can be read-out from the digital display.

Thanks to the digital display at the POLYTRON® PT 1300 D it is finally possible to work under reproducable conditions with a handheld unit. Additionally a specific speed for the application can be memorized and recalled with a finger tip (MEMO function).

Quick Coupling



glas inlet (as above)

unit			Order No	o.	Description						
			1101003	010030 PT 1300 D, 230 V (EU-plug)							
Power					31	PT 1300 D, 230 V (CH-plug)					
Drive and					39	PT 1300 D, 230 V (UK-plug)					
Driv					32	PT 1300 D, 100 - 120 V					
				Order No	o. I	Descriptio	on				
				1104001	0 :	ST-P00/2	200 - Hinged	l stan	d		
Stands				1104001	1	ST-P12/600 - Plate stand					
			Description	Order No.	Dim. (m	nm) Ø / H	Working Vol.			Model	
versing Vessels	The suitable dispersing vessel The following overview should help you to find the correct working vessel for your application. We will be pleased to provide you with further information	GS 15 GS 25	11050010 11050011		80 / 150 55 / 150	35 ml 150 ml			top open with cover		
		The following overview	GS 15 K GS 25 K	11050020 11050021	3	30 / 150 55 / 150	35 ml 150 ml	laped	glass	with screw cap glas inlet: GS 15K Ø 9	9 mm 25 mm
			11050030 11050031 11050032	5	30 / 150 55 / 150 55 / 150	35 ml 150 ml 150 ml	Clover leaf shaped	Borosilicate glass	with screw cap tapered fitting 7. 20 mm	.5, 12,	

Dispers

		special designs as well.			
spersing <i>i</i>	Aggregates (cho	ice)			
lel	PT-DA 03/2 EC-E050	PT-DA 05/2 EC-E085	PT-DA		

on other vessels and about

Model	PT-DA 03/2 EC-E050	PT-DA 05/2 EC-E085	PT-DA 07/2 EC-E107	PT-DA 07/2 SYN-E082	PT-DA 12/2 EC-E157	PT-DA 12/2 WEC-E157	
Ident-No.	11030004	11030009	11030024	11030030	11030042	11030060	
Volume	0.05 - 5 ml	0.1 - 0.5 ml	0.3 - 10 ml	0.3 - 10 ml	100 -2000 ml	100 -2000 ml	
Application	 Dispersing of small quantities of plant, animal or humantissues Dissolving of solids 	 Dispersing of cell tissues in a small amount of liquid Dissolving of solids 	 Extraction Producing of suspensions and emulsions 	 Dispersing of cells and tissues in a small amount of liquid Dissolving of solids Extractions "Single-use" - Applications 	 Dispersing of cells and tissues in a small amount of liquid Dissolving of solids 	Dispersing of fibrous, stringy and brittle samples (e.g. flash)	
						M	

GS 25 KL 20

HOMOGENIZING AND MIXING TECHNOLOGY



A wide range of products with the finest solution for every application, matched by the superior quality of all components make KINEMATICA a world leader for Dispersing and Mixing technology.

With Keen Eyes ...

Development knows no rest at KINEMA-TICA. Our systems are constantly upgraded to reflect the state-of-the-art technology and the needs of the market. KINEMATICA has always had a keen eye for major advances, as proven by various patents.

The rotor/stator principle for dispersing technology was conceived and developed at KINEMATICA and has become the world standard.

... For Your Needs

Applications for Dispersing/Homogenizing Technology are always on the increase. KINEMATICA continually creates new areas of processing applications based on innovations. We do not neglect the human factor as it is exemplified by the safe and comfortable operation and noise reduction of our high-speed systems.

Please, get in touch with us, our local appointed agent or your preferred dealer. We will be pleased to supply more details or arrange a personal demonstration of our POLYTRON[®] and MEGATRON[®] systems.





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Subsidiaries





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Finest Swiss Made solutions... worldwide!