



Dispersing disc



Three-blade stirrer

DISSOLVER 492



Single milling disc



Double milling disc



DISSOLVER 492 I



DISSOLVER 492 II

testing equipment for quality management

ERICHSEN

Technical Description

Laboratory High
Speed Stirrer

Application and purpose

The precisely controlled laboratory high speed stirrers of the **DISSOLVER 492** series are suitable to produce colloidal suspensions with very fine solid particles integrated by high speed into fluid, as well as for mixing and dispersing of mill feed material within common paint/lacquer matters (disintegration of clusters of powder-type components by shearing force during the dispersing procedure, to cover in ideal case their primary particles with the fluid phase).

Design

The **DISSOLVER 492** series is equipped with a low-noise drive system with continuous adjustable speed. The used high-tech PID electronic ensures a continuously constant speed, even also when the viscosity changes during the stirring process. The stand including column is made of stainless steel. An accordingly tared weight sliding up and down inside the stand's column, compensates the weight of motor and stirring unit and guarantees a comfortable smooth action lifting without necessity of spending any high muscular strength. The stand's bottom end is attached with a quick fixing device, equipped with a safety switch which interrupts the current supply to the motor as soon as the fixing pressure to the stirring vessel is no longer sufficient. A further safety switch is located sidewise at the stand's column, adjustable due to the desired maximum height level of the stirring/milling disc. It interrupts the current supply when the motor/stirring unit is lifted up higher than the top position of the active stirring height range limited by the switch's adjustment.

Both models of the **DISSOLVER 492** series are equipped with an integrated timer (adjustable from 1 up to 100 minutes) with countdown and automatic stop.

Speed and time are continuously shown on a digital display. There are two interchangeable types of dispersing discs already included in the delivery specification (type 492 I discs with dia. 30/40 mm, type 492 II discs with dia. 50/70 mm).

The **DISSOLVER 492 I** has primarily been created for vessel volume ranges of approx. 0.25 up to 2 liters, and can be operated with a steplessly variable speed of up to 10.000 min⁻¹. On the other hand the **DISSOLVER 492 II** has been created for a higher vessel volume range of approx. 0.5 up to 8 liters, and can be operated with a steplessly variable speed of up to 9.000 min⁻¹.

Accessories

Various accessories like mixing and dispersing discs made of stainless steel with different diameter sizes as well as single and double milling discs made of polypropylene for using with grinding media are available. Additionally, the accessory range includes also some stainless steel dispersing vessel types with different volumes (also jacketed vessels with cooling ability).



For the **DISSOLVER 492 II** also a three-blade stirrer made of stainless steel (type "marine propeller") is part of its accessory range.

Other accessories, such as for example grinding heads, or vacuum systems for various volumes are available on request.

Technical Data

Connection:		230 V, 50 Hz, 1~
Motor power:	Type 492 I	0.27 KW (0.4 HP)
	Type 492 II	0.75 KW (1.0 HP)
Weight:	Type 492 I	net approx. 28 kg gross approx. 50 kg
	Type 492 II	net approx. 50 kg gross approx. 85 kg

Order Information	
Ord.-No.	Product Description
0492.01.51	Laboratory High Speed Stirrer DISSOLVER 492 I , incl. complete stand with quick fixing device and two dispersing discs (dia. 30/40 mm)
0492.02.51	Laboratory High Speed Stirrer DISSOLVER 492 II , incl. complete stand with quick fixing device and two dispersing discs (dia. 50/70 mm)

For further information please refer to our price list no. 492.

The right of technical modifications is reserved.
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