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I-MAG Industry stirrer

/// Data Sheet

I-MAG is a powerful yet compact magnetic stirrer for applications in laboratory and production environments.

In combination with the I-MAG SP set-up frames for large vessels, which are available as accessories, up to 300 liters of water can be mixed efficiently. The wired operating unit (controller) ensures convenient handling and simple integration into e.g. process engineering systems.

The robust drive unit (IP protection class 64) consists of the high-torque and wear-free motor and the magnetic coupling with high-performance neodymium magnets. This enables the effective mixing of viscous media as well as mixing in

vessels with a larger distance between the installation surface and the stirring rod (e.g. double-walled containers or vessels with insulated bottoms).

In order to reliably achieve high speeds even under difficult conditions, I-MAG has an adjustable start-up speed that prevents the magnetic stirring bar from breaking off during the acceleration phase. Process reliability is additionally achieved by the integrated detection of the magnetic stirring bar coupling. In the event of a tear-off or failure of the magnetic coupling, the user is informed via the operating unit.

The I-MAG controller has a variety of digital and analog interfaces. Equipped in this way, the device can, for example, be controlled with a foot switch or operating button or can be integrated into a network via USB/LAN/WIFI. With appropriate software (for example labworldsoft® 6), I-MAG can thus be integrated into an automated plant process.

Further features:
- Drive with very high IP protection class 64: unrestricted use even under harsh environmental conditions thanks to enclosed stainless steel housing
- Electronically controlled motor for very stable speeds even under load for reproducible results
- Secure and ergonomic mounting of the controller directly on the vessel or with a stand rod using the I-MAG UHC universal holder (available as accessory)
- Multilingual menu navigation

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Technical Data

Number of stirring positions	1
Speed deviation [rpm]	±10
Stirring quantity max. per stirring position (H2O) [l]	300
Maximun load [kg]	75
Stirring quantity max. (without extension platform I-MAG SP) [l]	50
Motor rating output [W]	90
Direction of rotation	right / left
Speed display set-value	TFT
Speed display actual-value	TFT
Speed adjustment	Turning knob
Speed range [rpm]	100 - 1500
Setting accuracy speed [rpm]	10
Stirring bar length [mm]	30 - 140
Self-heating of the set-up plate by max. stirring (RT:22°C/duration:1h) [K]	+26
Set-up plate material	stainless steel 1.4301
Set-up plate dimensions [mm]	260 x 260
Automatic reverse rotation	yes
Intermittent mode	yes
Break detection stirring bar	yes
Timer	yes
Timer display	TFT
Time setting range [min]	1 - 14399
Programs	yes
Analog pedal control	yes
Cable from controller to device [mm]	2000
Dimensions (W x H x D) [mm]	260 x 70 x 300
Weight [kg]	8
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 64 / IP 22
RS 232 interface	yes
USB interface	yes
Analog output	yes
Analog input	yes
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	140
Power input standby [W]	5

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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct.
If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.