



TWISTER SET 1

/// Data Sheet

TWISTER is a universal and compact mixing device with magnetic drive. In the TWISTER SET 1, one drive is included.

In the default version, TWISTER is a powerful single-position magnetic stirrer for mixing up to 5 liters at a maximum speed of 3000 rpm and a viscosity of up to 500 mPas.

By connecting additional TWISTER stirring units (available as accessories, ID no. 0020112621), TWISTER can be expanded to a multi-position magnetic stirrer with up to 30 stirring positions.* The stirring positions can be controlled either separately or simultaneously (leader-follower principle).

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designed for scientists

Versatile accessories

With the multi-position stirring attachment TW.IX, the drive is transformed into a magnetic stirrer with 9 stirring positions for efficient mixing of sample vessels with small volumes (8 - 60 ml).

The TW.VX shaker attachment transforms the universal magnetic drive into a vortex or orbital shaker.

Innovative operating concept

TWISTER enables a new way of interaction between user and laboratory instrument. Via the intuitive and chemically resistant 360° LED glass display, all information is intuitively conveyed without any alpha-numeric display. During operation, either the speed or the power required for stirring can be displayed. For example, viscosity changes can be observed and displayed as a percentage.

Mixing can be started by pressing a button as well as (thanks to integrated beaker recognition) by placing or touching the beaker.

The reverse function changes the direction of rotation at definable time intervals. This leads to a significant improvement of the mixing result, especially with samples that are difficult to mix.

Robust and safe

The high protection class IP 66 allows operation under harsh conditions. TWISTER can thus be cleaned under the tap, for example, or operated in an incubator at temperatures up to 40°C.

The compact and innovative design has already been awarded the reddot Award 2022. It is particularly suitable for use in laboratories with limited space.

* Depending on the number of devices, a different power supply may have to be used. The included power supply is designed to power up to two devices.









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Technical Data

Sitring quantity min. per stirring position (H2O) [] 0.005 Sitring quantity max. per stirring position (H2O) [] 5 Direction of rotation right / left Speed display set-value LEO Speed display actual-value LEO Speed ange [rpm] 100 - 3000 Speed ange [rpm] 100 - 3000 Setting accuracy speed [rpm] 100 - 3000 Stirring be relight [mm] 10 - 300 Setting accuracy speed [rpm] 100 - 3000 Setting accuracy speed [rpm] 100 - 3000 Setting accuracy speed [rpm] 100 - 3000 Setting place in engith [mm] 10 - 300 Setting accuracy speed [rpm] 100 - 3000 Setting accuracy speed [rpm] 110 - 3000 Inter setting ansetting accuracy speed [rpm] 124 x 124 <tr< th=""><th>Number of stirring positions</th><th>1</th></tr<>	Number of stirring positions	1
Motor atling output [M] 5 Direction of rotation right / left Speed display set-value LED Speed display actual-value Touch key Speed ange [rpm] 100 - 3000 Setting accuracy speed [rpm] 100 - 3000 Setting accuracy speed [rpm] 10 - 30 Self-healing of the set-up plate by max. stirring (RT:22°C/duration:1h) [K] +6 Sel-up plate dimensions [rmm] 124 x 124 Automatic reverse rotation yes Intermiltent mode optional Viscosity trend measurement yes Break detection stirring bar optional Time setting min. [s] 6 Time setting min. [s] 1 Time setting min. [s] 1 Time setting min. [s] 22 Modular expandable stirring system (2-16 units, if more than 4 devices HUB is neccessary) yes Vessel detection (optional activated/deactivated/ yes Motor acceleration rise time adjustment (Only with HUB) optional Definition of stirring groups (Control with HUB up to 6 individuell stirring groups) optional Definition of stirring group	Stirring quantity min. per stirring position (H2O) [I]	0.005
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Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 66 RS 232 interface optional USB interface optional Bluetooth interface optional WiFi Interface optional Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 10 Power input standby [W] 2 DC Voltage [V=] 24	Weight [kg]	0.6
Protection class according to DIN EN 60529 IP 66 RS 232 interface optional USB interface optional Bluetooth interface optional WiFi Interface optional Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 10 Power input standby [W] 2 DC Voltage [V=] 24	Permissible ambient temperature [°C]	5 - 40
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USB interface optional Bluetooth interface optional WiFi Interface optional Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 10 Power input standby [W] 2 DC Voltage [V=] 24	Protection class according to DIN EN 60529	IP 66
Bluetooth interface optional WiFi Interface optional Voltage [V] 100 - 240 Frequency [Hz] 50/60 Power input [W] 10 Power input standby [W] 2 DC Voltage [V=] 24	RS 232 interface	optional
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Power input [W] 10 Power input standby [W] 2 DC Voltage [V=] 24	Voltage [V]	100 - 240
Power input standby [W] 2 DC Voltage [V=] 24	Frequency [Hz]	50/60
DC Voltage [V=] 24	Power input [W]	
	Power input standby [W]	2
Current consumption [mA] 400	DC Voltage [V=]	24
	Current consumption [mA]	400

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