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RCT 5 digital

/// Data Sheet

The new magnetic stirrer RCT 5 digital with 850 W offers significantly more power making it an ideal device for demanding stirring tasks up to 20 l.

Multifunctional menu
Whether determining the direction of rotation, timer functions or sequence programming - the stirring process can be programmed individually from beginning to end. In this way, the reaction runs reliably and safely even without monitoring.

Scratch-resistant ceramic coating
RCT 5 digital has a rectangular set-up plate with a white, ceramic coating. It is less scratch-prone than conventional magnetic stirrer plates.

Safety features
The display is made of chemical resistant and hardened glass which increases the safety of the user. In addition, a symbol in the display warns in case of a hot surface and therefore protects from burnings. The safety circuit can be adjusted up to 370 °C.
Automatic switch-off of the heating function, if the connected external temperature sensor is not immersed in the medium. Function selectable, timeout time adjustable (Error 5).

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Technical Data

Number of stirring positions	1
Stirring quantity max. per stirring position (H2O) [l]	20
Motor rating output [W]	9
Direction of rotation	right / left
Speed display set-value	LCD
Speed display actual-value	LCD
Speed control	Turning knob
Speed range [rpm]	50 - 1500
Setting accuracy speed [rpm]	10
Stirring bar length [mm]	30 - 80
Self-heating of the set-up plate by max. stirring (RT:22°C/duration:1h) [+K]	13
Heat output [W]	850
Temperature display set-value	LCD
Temperature display actual-value	LCD
Temperature unit	°C / °F
Heating temperature range [°C]	Room temp. + device self heating - 310
Heat control	Turning knob
Temperature setting range [°C]	0 - 310
Temperature setting resolution of heating plate [K]	1
Connection for ext. temperature sensor	PT1000, ETS-D5, ETS-D6
Temperature setting resolution of medium [K]	1
Adjustable safety circuit [°C]	50 - 370
Set-up plate material	Aluminum with ceramic coating
Set-up plate dimensions [mm]	137 x 137
Automatic reverse rotation	yes
Intermittent mode	yes
Viscosity trend measurement	yes
Timer	yes
Timer display	LCD
Time setting min. [s]	1
Time setting max. [min]	143940
Sensor in medium detection (Error 5)	yes
Speed deviation (no load,nominal voltage, at 1500rpm + 25 °C) [%]	±2
Heating rate (1l H2O in H1500) [K/min]	7.5
Heat control accuracy of heating plate (at 100°C) [K]	±5
Heat control accuracy with ext. PT1000 (500ml H2O in 600ml beaker,40mm stirring bar,600rpm,50°C) [K]	±0.5
Heat control accuracy with ETS-D5 (500ml H2O in 600ml beaker,40mm stirring bar,600rpm,50°C) [K]	±0.5
Heat control accuracy with ETS-D6 (500ml H2O in 600ml beaker,40mm stirring bar,600rpm,50°C) [K]	±0.2
Dimensions (W x H x D) [mm]	160 x 85 x 270
Weight [kg]	2.6
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 42
RS 232 interface	yes
USB interface	yes
Voltage [V]	220 - 230
Frequency [Hz]	50/60
Power input [W]	900

Power input standby [W]	1.6