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RCT basic ready-to-go Solution
/// Data Sheet

The RCT basic ready-to-go Solution includes all components required for precise temperature control of your sample with the RCT basic magnetic stirrer.

Stand for safe positioning
This complete solution includes a stand rod together with an extension arm and a boss head clamp. They ensure the correct and safe positioning of the PT 1000 temperature sensor, which is also included in the delivery, because it should always be located outside the drum created during stirring and should be immersed in the medium to a depth of at least 20 mm. Thanks to the stand, the position of the temperature sensor is precisely adapted to the reaction vessel and the

level in vertical and horizontal alignment.

Multifunctional silicone cover
In addition, the bundle includes a universal silicone cover for beakers with 600 and 1000 ml. It has integrated feedthroughs for the temperature sensor. The chemically highly resistant cover fulfills three functions at once: It is a splash guard, minimizes energy requirements when used as a lid, and reduces the noise that can occur when air is drawn in during rapid stirring.

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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
Speed display set-value	LED
Speed display actual-value	LED
Speed adjustment	Turning knob
Speed range [rpm]	50 - 1500
Setting accuracy speed [rpm]	10
Stirring bar length [mm]	20 - 80
Self-heating of the set-up plate by max. stirring (RT:22°C/duration:1h) [K]	+13
Heat output [W]	600
Temperature display set-value	LED
Temperature display actual-value	LED
Temperature unit	°C
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
Heating rate medium [K/min]	6.5
Temperature setting resolution of medium [K]	1
Adjustable safety circuit [°C]	50 - 360
Set-up plate material	Aluminium alloy
Set-up plate dimensions [mm]	Ø 135
Sensor in medium detection (Error 5)	yes
Temperature measure range PT1000 [°C]	-20 - 310
Speed deviation (no load,nominal voltage, at 1500rpm + 25 °C) [%]	±2
Heating rate (1l H2O in H1500) [K/min]	6.5
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]	±1
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]	2.4
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]	650
Power input standby [W]	1.6

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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.