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IKA Plate (RCT digital)

/// Data Sheet

The IKA Plate (RCT digital) has a round top made of aluminum alloy. It stirs volumes of up to 20l (H₂O) and runs at speeds ranging from 50-1500rpm.

Strongly standing by its product and technology, IKA is offering a lifetime warranty on the magnetic stirrer – unparalleled in the industry; scientists can focus on their experiments with a reliable stir plate.

Some of the features are: IKA emphasizes ease-of-use by design simplicity: reduced forms and operating elements meet the modernity of smartphones: IKA not only focuses on hardened glass because of visibility, chemical resistance and safety, it also optically changes the game of a magnetic stirrer with a glass surface. The IKA Plate (RCT digital) improves over time with regular firmware updates. Using Alnico magnetic technology, the IKA Plate (RCT digital)



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achieves excellent temperature stability and high residual induction. It also provides for maximum vortex. The integrated timer and counter function supports the control of kinetics and sensitive reactions; the IKA SmartTemp® function protects users intelligently and predictably.

Automatic switch-off of the magnetic stirrer if the connected external temperature sensor is not immersed in the medium. Function selectable, timeout time adjustable (Error 5).

PT 1000.60 temperature sensor included in the scope of delivery.



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Technical Data

Number of stirring positions	1
Stirring quantity max. per stirring position (H ₂ O) [l]	20
Motor rating output [W]	9
Direction of rotation	right / left
Speed display set-value	LCD
Speed display actual-value	LCD
Speed adjustment	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]	600
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	Aluminium alloy
Set-up plate dimensions [mm]	Ø 135
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 H ₂ O in H1500) [K/min]	6.5
Heat control accuracy of heating plate (at 100°C) [K]	±5
Heat control accuracy with ext. PT1000 (500ml H ₂ O in 600ml beaker,40mm stirring bar,600rpm,50°C) [K]	±0.5
Heat control accuracy with ETS-D5 (500ml H ₂ O in 600ml beaker,40mm stirring bar,600rpm,50°C) [K]	±0.5
Heat control accuracy with ETS-D6 (500ml H ₂ O 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



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Power input standby [W]

1.6

