



designed for scientists



## 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 (H<sub>2</sub>O) 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.

PT 1000.60 temperature sensor included in the scope of delivery.

## Technical Data

Number of stirring positions	1
Stirring quantity max. per stirring position (H <sub>2</sub> O) [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]	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
Intermittend mode	yes
Viscosity trend measurement	yes
Timer	yes
Sensor in medium detection (Error 5)	yes
Speed deviation (no load, nominal voltage, at 1500rpm + 25 °C) [±%]	2
Heating rate (1l H <sub>2</sub> 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 <sub>2</sub> O in 600ml beaker, 40mm stirring bar, 600rpm, 50°C) [±K]	0.5
Heat control accuracy with ETS-D5 (500ml H <sub>2</sub> O in 600ml beaker, 40mm stirring bar, 600rpm, 50°C) [±K]	0.5
Heat control accuracy with ETS-D6 (500ml H <sub>2</sub> 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 / 115 / 100
Frequency [Hz]	50/60
Power input [W]	650
Power input standby [W]	1.6