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## IKA Plate Package

/// 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.

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) achieves excellent temperature stability and high residual induction. It also provides for maximum vortex. The integrated



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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.

Package includes

IKA Plate (RCT digital)

H 38 Holding rod

H 16 V Support rod

H 44 Boss head clamp



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## 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 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 <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]                                                                                                       | 115                                    |
| Frequency [Hz]                                                                                                    | 50/60                                  |
| Power input [W]                                                                                                   | 650                                    |





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Power input standby [W]

1.6

