

# IKA

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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.



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#### 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 (H <sub>2</sub> O) [l]  | 20                                     |
| Maximum load [kg]  | 25                                     |
| 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]  | +17                                    |
| 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 H <sub>2</sub> O in H1500) [K/min]  | 7.5                                    |
| 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]  | 2.6                                    |
| 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                                  |



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|                         |     |
|-------------------------|-----|
| Power input [W]         | 900 |
| Power input standby [W] | 1.6 |



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