



designed for scientists



## RET control-visc white

/// Data Sheet

PATENTED WORLD FIRST: Safety magnetic stirrer with heating and integrated balance. Clear, multilingual TFT display makes it easy to set all parameters.

Integrated temperature control feature enables connection of a temperature probe, placed directly in the medium, to control medium temperature with a high degree of precision. PT 100 temperature sensor is included. The stainless steel composite hot plate with white ceramic coating, reaching a temperature of 340 °C, enables rapid heating and very good chemical resistance.

RS 232 and USB interfaces enable pc control of the magnetic stirrer and documentation of all test parameters. "Lock" function prevents inadvertent changes of speed and temperature settings. As a safety feature, the current temperature is displayed when the unit is switched off but surface is still hot. Below 50 °C the display turns off automatically.

- BNC socket for connection of a pH electrode
- Adjustable temperature control mode: rapid heating and very accurate temperature control



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- Dual sensor for simultaneous control of heat transfer fluid temperature and medium temperature
- Timer and countdown functions
- Display of viscosity change trend
- Detached magnet detection
- Intermittent operation
- Several modes of operation available
- Safety circuit adjustable from 50 to 380°
- Transparent protective cover included
- Error code display for easy troubleshooting
- Exact temperature and speed adjustment by means of digital display; even when function switched off
- Suitable for unsupervised operation
- Sealed casing (IP 42) ensures a long service life



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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                                  |
| Speed display set-value                                                      | TFT                                    |
| Speed display actual-value                                                   | TFT                                    |
| Speed control                                                                | Turning knob                           |
| Speed range [rpm]                                                            | 50 - 1700                              |
| 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] | 28                                     |
| Heat output [W]                                                              | 600                                    |
| Temperature display set-value                                                | TFT                                    |
| Temperature display actual-value                                             | TFT                                    |
| Temperature unit                                                             | °C / °F                                |
| Heating temperature range [°C]                                               | Room temp. + device self heating - 340 |
| Heat control                                                                 | Turning knob                           |
| Temperature setting range [°C]                                               | 0 - 340                                |
| Temperature setting resolution of heating plate [K]                          | 0.1                                    |
| Connection for ext. temperature sensor                                       | PT100/PT1000 (dual sensor)             |
| Characteristics in the medium with temperature sensor                        | 1l M50 Oil at H1500                    |
| Temperature medium max. [°C]                                                 | 270                                    |
| Heating rate medium [K/min]                                                  | 7                                      |
| Temperature setting resolution of medium [K]                                 | 0.1                                    |
| Adjustable safety circuit [°C]                                               | 50 - 380                               |
| Set-up plate material                                                        | technical enamel                       |
| Set-up plate dimensions [mm]                                                 | Ø 135                                  |
| Intermittend mode                                                            | yes                                    |
| Viscosity trend measurement                                                  | yes                                    |
| Break detection stirring bar                                                 | yes                                    |
| Timer                                                                        | yes                                    |
| pH measurement                                                               | yes                                    |
| Graph function                                                               | yes                                    |
| Programs                                                                     | yes                                    |
| Sensor in medium detection (Error 5)                                         | yes                                    |
| Weighing function                                                            | yes                                    |
| Weighing range [g]                                                           | 10-5000                                |
| Weighing accuracy                                                            | ±(0.3%+2) g                            |
| Load capacity weighing function max. [kg]                                    | 5                                      |
| Dimensions (W x H x D) [mm]                                                  | 160 x 85 x 270                         |
| Weight [kg]                                                                  | 2.7                                    |
| 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 - 240 / 115 / 100                  |
| Frequency [Hz]                                                               | 50/60                                  |



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Power input [W]

650

