

Data Sheet

Mixing / Magnetic Stirrers



RCT Synthese PACKAGE 2

The reaction block allows syntheses to be carried out in round flasks at temperatures of up to 180 °C. This system ensures optimal heat transfer from the heating plate directly into the medium. Uniform mixing is also guaranteed because there is no interference to the magnetic field from the aluminium blocks. The PTFE coating prevents burning and ensures that working with the system is safe. Reaction blocks are available in three standard sizes. These can be adapted to various flask sizes using the appropriate inserts.

- Syntheses in round flasks at up to 180 °C
- Uniform mixing
- High-precision thermal conduction directly into the reaction block
- PTFE coating protects against burning
- Wide range of applications thanks to exchangeable inserts
- Safe and clean working

Package consists of:

- RCT basic safety control
- H 135.5 Reaction block, 500 ml
- H 135.511 Insert, 250 ml
- H 16 V Support rod
- H 44 Boss head clamp
- H 38 Holding rod

Accessories: H 135.4 Reaction block, 100 ml round flask (Black), H 135.5 Reaction block, 500 ml round flask (Purple), H 135.6 Reaction block, 1000 ml round flask (Blue), H 135.410 Insert, 10 ml round flask (Gold), H 135.411 Insert, 25 ml round flask (Blue), H 135.412 Insert, 50 ml round flask (Red), H 135.510 Insert, 200 ml round flask (Turquoise), H 135.511 Insert, 250 ml round flask (Clear), H 135.512 Insert, 300 ml round flask (Black), H 135.610 Insert, 500 ml round flask (Purple), H 16 V Support rod, H 44 Boss head clamp, H 38 Holding rod

Technical Data

Number of stirring positions	1
Stirring quantity max. per stirring position (H ₂ O) [l]	20
Speed deviation of individual stirring positions [%]	5
Stirring quantity max. (H ₂ O) [l]	20
Motor rating input [W]	16
Motor rating output [W]	9
Speed display	LED
Speed range [1/min]	50 - 1500
Stirring bar length max. [mm]	80
Heat output [W]	600
Heating rate (1 l H ₂ O in H15) [K/min]	6.5
Heating temperature range [°C]	50 - 310
Heat control	LED
Heat control accuracy [±K]	1
Speed control	stepless
Adjustable safety circuit min. [°C]	50
Adjustable safety circuit max. [°C]	360
Connection for ext. temperature sensor	DIN 12 878
Control accuracy with sensor [±K]	1
Set-up plate material	Aluminium alloy
Set-up plate dimensions [mm]	Ø 135
Dimensions (W x H x D) [mm]	160 x 85 x 270
Weight [kg]	2.5
Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80
Protection class according to DIN EN 60529	IP 42
Voltage [V]	220 - 230
Frequency [Hz]	50/60
Power input [W]	650
Ident. No.	8025200