

Data Sheet

Mixing / Magnetic Stirrers



RCT Synthese PACKAGE 1

The carrier plate can be fitted with four identical or differing aluminium quarters, allowing up to 36 reaction vessels to be processed at the same time. The aluminium quarters guarantee optimal heat transfer throughout the process with no interference to the magnetic field. This ensures that all the containers are processed at the same temperature and that the contents are uniformly mixed. The different colours used for the various quarters makes them easier to distinguish.

- Multiple syntheses with only one magnetic stirrer.
- Uniform mixing in every vessel
- High-precision thermal conduction directly into the quarters
- Same temperature in all vessels
- Wide range of applications thanks to exchangeable quarters
- Safe and clean working

Package consists of:

- RCT basic safety control
- H 135.3 Carrier plate
- 4 x quarters (20 ml, 30 ml, 40 ml, 4 ml)
- H 16 V Support rod
- H 44 Boss head clamp
- H 38 Holding rod

Accessories: H 135.3 Carrier plate, H 135.313 Quarter, 4 ml reaction vessel (Gold), H 135.314 Quarter, 8 ml reaction vessel (Blue), H 135.315 Quarter, 16 ml reaction vessel (Red), H 135.310 Quarter, 20 ml reaction vessel (Black), H 135.311 Quarter, 30 ml reaction vessel (Green), H 135.312 Quarter, 40 ml reaction vessel (Orange), 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.	8025100