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LR 1000 basic System
/// Data Sheet

The LR 1000 basic is a cost efficient, modular laboratory reactor designed for optimizing chemical reaction processes as well as for mixing, dispersing and homogenization applications at the laboratory scale. The reactor is especially designed for the unique applications requirements that define the cosmetic and pharmaceutical industries. The temperature of the medium can be as high as 120 ºC. The temperature of the heating source, which is located at the bottom of the vessel, is controlled accordingly to reach the set temperature inside the medium. A PT 100.30 temperature sensor and the corresponding receptacle LR 1000.61 for the lid are included with this package.

Scope of delivery

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- LR 1000 basic base
- LR 1000.1 Laboratory reactor vessel
- LR 1000.61 Sensor receptacle
- PT 100.30 Temperature sensor
- Support rod, for securing accessories
- Hose connectors for cooling hoses (2 pcs.)

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Technical Data

Useable volume max. [ml]	1000
Useable volume with disperser tool min. [ml]	500
Useable volume without disperser tool min. [ml]	300
Working temperature max. [°C]	120
Attainable vacuum [mbar]	25
Viscosity max. [mPas]	100000
Speed range [rpm]	10 - 150
Support rod diameter (with integrated fastening on stand) [mm]	16
Material in contact with medium	AISI 316L, 1.4571, borosilicate glass 3.3, PTFE, PEEK, FKM
Reactor vessel openings (units/standard)	1/NS 29/32, 3/NS 14/23
Permissible ON time [%]	100
Temperature measurement resolution [K]	0.1
Nominal torque [Nm]	3
Heat output [W]	1000
Cooling medium permissible operating pressure [bar]	1
Speed min (adjustable) [rpm]	10
Heating temperature max. [°C]	180
Adjustable safety circuit [°C]	47 - 225
Adjustable safety circuit, temperature deviation [K]	±10 - ±20
Cooling medium temperature min. [°C]	3
Set temperature resolution [K]	±1
Heat control accuracy of medium with sensor [K]	±0.2
Speed deviation [rpm]	±5
Speed display	7 segment LED
Heat control	LED
Connection for ext. temperature sensor	PT 100
Timer	yes
Timer display	7 segment LED
Speed adjustment	1 RPM steps
Type of cooling	flow
Temperature display	yes
Safety temperature display	LED
Display for operation with ext. sensor	yes
Safety cutout	yes
Dimensions (W x H x D) [mm]	443 x 360 x 295
Weight [kg]	22
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 21
RS 232 interface	yes
USB interface	Micro-USB
Voltage [V]	230
Frequency [Hz]	50/60
Power input [W]	1200

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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct.
If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.