Stirring, heating and controlling using the SLR

In addition to fast or temperature-controlled heating, a lot of applications also require liquids to be stirred. Using our laboratory stirrer SLR with heating, the process of mixing liquids can be selected from careful to intense, and the device can also be used for speedy heating up or controlled temperature adaptation.

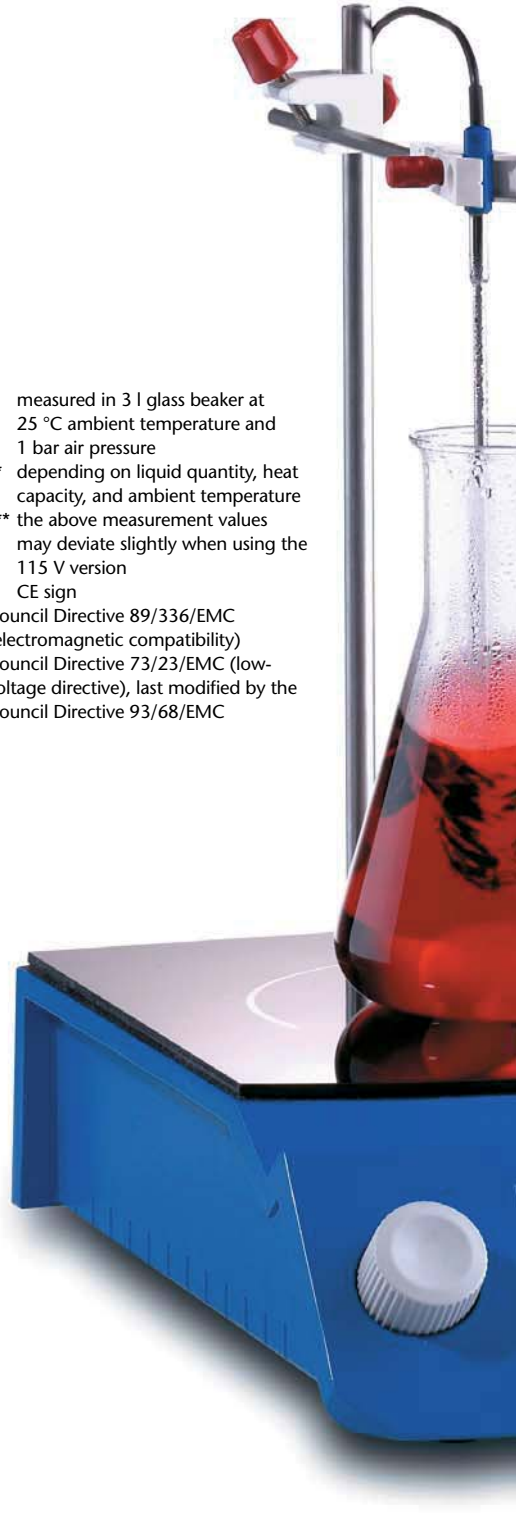
All functions can be viewed and monitored on the large and clear LCD display. The stirrer and heating are controlled separately by convenient turning knobs.

The rpm range of the stirrer stretches from 100 to 1100 min^{-1} and can be set in steps of 10 min^{-1}. The mean rpm is also indicated in the form of a bar graph. Even in the lower rpm range, the smooth-running properties of the device are excellent.

The heating power can be set in 24 steps and reaches an average heating output of 0.9 kW at step 24. If a Pt 1000 temperature sensor (optional) is connected, temperature-controlled work with fluctuations of ± 2 °C to 5 °C as a function of liquid volume, heat capacity, and ambient temperature is possible between 25 °C and 200 °C. The display will inform the user at intervals of 5 s alternately about the set and the actual temperature. In this case, too, the mean rpm is indicated in the form of a bar graph.

Technical data	SLR
Heating function	
heating power (kW)	0.9
heated zone (mm)	Ø 155
max. hot plates temperature (°C)	approx. 550
min. time to boiling point 1 l H_2O* (min)	approx. 15
temperature sensor connector	yes, Pt 1000
setting accuracy with temperature sensor (°C)	1
controlling accuracy with temperature sensor** (°C)	± 2 ... 5
hot plate material	glass ceramic
hot plates area (mm)	235 x 235
digital set/actual temperature display (temperature sensor connector)	yes
Stirring function	
max. rpm (min^{-1})	100 - 1100
setting accuracy rpm (min^{-1})	10
max. stirring volume (l H_2O)	10
digital set/actual rpm display	yes
General data	
dimensions (L x W x H in mm)	370 x 240 x 85
weight (kg)	approx. 3.8
max. load (kg)	25
admissible ambient temperature (°C)	10 - 40
admissible air humidity (%)	85
protection type	IP 20
protection class	1
housing material	die-cast
cable connector	fixed cable
mains connection (V/Hz)	230 V, 50/60 or 115 V, 50/60
Order No. 230 V	28 541 6373
Order No. 115 V* **	28 541 6279

* measured in 3 l glass beaker at 25 °C ambient temperature and 1 bar air pressure
** depending on liquid quantity, heat capacity, and ambient temperature
*** the above measurement values may deviate slightly when using the 115 V version
• CE sign
Council Directive 89/336/EMC (electromagnetic compatibility)
Council Directive 73/23/EMC (low-voltage directive), last modified by the Council Directive 93/68/EMC



Accessories

Description	Type No.	Order No.
Temperature sensor stainless steel shaft (V4A), Pt 1000 sensor, 1 m fixed cable with 2 x 4 mm banana plug, length 170 mm, Ø 4 mm, -30 …+ 200 °C	W5791NNHT	28 510 5308
Temperature sensor glass shaft, Sensor Pt 1000, 1 m fixed cable with 2 x 4 mm banana plug, length 250 mm, Ø 6 mm, -30 …+ 200 °C	W5780NNHT	28 510 5238
Stand rod with fixing nut (M8) stainless steel, Ø 10 mm, length 450 mm	Z 601	28 541 6492
Temperature sensor holder clamp with extension rod made of stainless steel, connector	Z 602	28 541 6505
Magnetic stirrer rod set for standard applications AlNiCo5, circular cross-section, PTFE coated, 1 piece 15, 20, 30, 40, 50, 60, 70, 80 mm each	Z 603	28 541 6554
Magnetic stirrer ripe for medium volumes SmCo, circular cross-section, PTFE coated, 5 pieces 9 x 15 mm each	Z 604	28 541 6562
Magnetic stirrer for large volumes SmCo, elliptic cross-section, PTFE coated, 1 piece 19 x 75 mm each	Z 605	28 541 6579
Compressed-air connector (only SLK) for use in an aggressive environment (subsequent installation only by manufacturer)	Z 607	28 541 6595
Compressed-air connector set (only SLK)	Z 608	28 541 6608