

# 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<sup>-1</sup> and can be set in steps of 10 min<sup>-1</sup>. 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  $\pm 2^\circ\text{C}$  to  $5^\circ\text{C}$  as a function of liquid volume, heat capacity, and ambient temperature is possible between  $25^\circ\text{C}$  and  $200^\circ\text{C}$ . 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 <sub>2</sub> O* (min)                | approx. 15                   |
| temperature sensor connector  | yes, Pt 1000                 |
| setting accuracy with temperature sensor (°C)                         | 1                            |
| controlling accuracy with temperature sensor** (°C)                   | $\pm 2 \dots 5$              |
| 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 <sup>-1</sup> )   | 100 - 1100                   |
| setting accuracy rpm (min <sup>-1</sup> )                             | 10                           |
| max. stirring volume (l H <sub>2</sub> O)                             | 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  $25^\circ\text{C}$  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

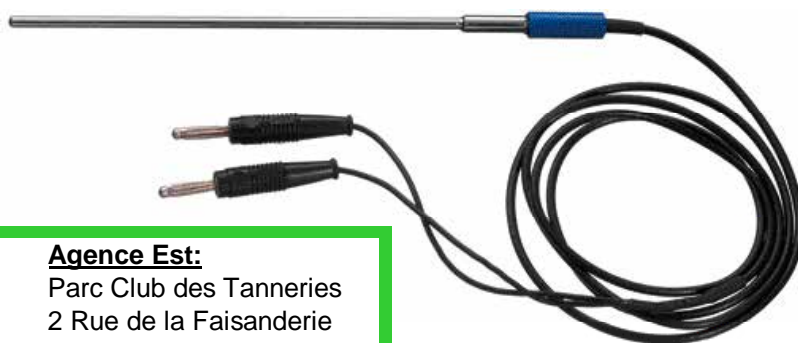
Council Directive 89/336/EMC (electromagnetic compatibility)

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<br>stainless steel shaft (V4A), Pt 1000 sensor,<br>1 m fixed cable with 2 x 4 mm banana plug,<br>length 170 mm, Ø 4 mm, -30 ...+ 200 °C | W5791NNHT | 28 510 5308 |
| Temperature sensor<br>glass shaft, Sensor Pt 1000,<br>1 m fixed cable with 2 x 4 mm banana plug,<br>length 250 mm, Ø 6 mm, -30 ...+ 200 °C                 | W5780NNHT | 28 510 5238 |
| Stand rod with fixing nut (M8)<br>stainless steel, Ø 10 mm, length 450 mm  | Z 601     | 28 541 6492 |
| Temperature sensor holder<br>clamp with extension rod<br>made of stainless steel, connector  | Z 602     | 28 541 6505 |
| Magnetic stirrer rod set for standard applications<br>AlNiCo5, circular cross-section, PTFE coated,<br>1 piece 15, 20, 30, 40, 50, 60, 70, 80 mm each      | Z 603     | 28 541 6554 |
| Magnetic stirrer ripe for medium volumes<br>SmCo, circular cross-section, PTFE coated,<br>5 pieces 9 x 15 mm each  | Z 604     | 28 541 6562 |
| Magnetic stirrer for large volumes<br>SmCo, elliptic cross-section, PTFE coated,<br>1 piece 19 x 75 mm each  | Z 605     | 28 541 6579 |
| Compressed-air connector (only SLK)<br>for use in an aggressive environment<br>(subsequent installation only by manufacturer)                              | Z 607     | 28 541 6595 |
| Compressed-air connector set (only SLK)  | Z 608     | 28 541 6608 |



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