

# Overhead Stirrers

- **Small powerful overhead stirrers**
- **Digital rpm display**
- **PC interface**
- **Maintenance-free brushless motor**
- **Low voltage power supply**



## R 20 / R 60 / R 16

**R 20 / R 60:** A robust stirrer motor with up to 60 Ncm torque, programmed soft start and soft stop motor control, RS232 interface, brushless 60 W motor, quick release chuck and hollow shaft for inserting and fixing tools up to 10 mm. Maintenance-free brushless motor allowed long time using of device.

The device is suitable for light to medium viscosity stirring tasks.

**R 16:** Convenient and long lasting small laboratory overhead stirrer with electronic feedback speed control. Comes with a mounting rod which can be attached to any laboratory stand. Chuck for stirring elements of 4 mm or 6 mm diameter. We offer a special designed stirring paddle in stainless steel which can be ordered together with the stirrer.



Technical Data	Type 20	Type 200	Type 300
Min. dispensing volume [ $\mu$ l]	1.0	10.0	20.0
Max. dispensing volume [ml]	50.0	500.0	1000.0
Flowrate range [ml/min]	0.02 – 4.0	0.2 – 40.0	0.4 – 60.0
Dosing accuracy [%]	< $\pm$ 1.0	< $\pm$ 1.0	< $\pm$ 1.0
Coefficient of Variation, CV [%]	< $\pm$ 1.0	< $\pm$ 1.0	< $\pm$ 1.0
User Calibration	Yes	Yes	Yes
PC Interface	RS 485	RS 485	RS 485
Power supply	24 VDC	24 VDC	24 VDC
Dimensions HxWxD [mm] W/O pump head	163 x 72 x 111	163 x 72 x 111	163 x 72 x 111
Pump head materials	Al <sub>2</sub> O <sub>3</sub> PVDF	Al <sub>2</sub> O <sub>3</sub> PVDF	Al <sub>2</sub> O <sub>3</sub> PVDF
Weight [kg]	1.5	1.5	1.5
Protection class according to DIN EN 60529	IP 43	IP 43	IP 43

#### Order Information

#### Part Number



**T**

61760-0000

61764-0000

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*Ceramic encased with PVDF, without rinse port*



**TCS**

61761-0000

61765-0000

61768-0000

*Ceramic encased with PVDF, with rinse port integrated into ceramic*



**V**

61762-0000

61766-0000

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*Ceramic encased with PVDF, integrated into stainless steel body, without rinse port*



**VCS**

61763-0000

61767-0000

61769-0000

*Ceramic encased with PVDF, integrated into stainless steel body, with rinse port integrated into ceramic*

**For all pump heads: wetted parts are only PVDF and ceramic (Al<sub>2</sub>O<sub>3</sub> 99,7 %)**

Accessories	Part Number	Description
RS485-RS232 adapter cable	61703-0000	Interface cable for direct connection to serial port
Power supply 24VDC	60738-0000	External power supply 24VDC, 100 – 240VAC
Software	Upon request	Control software for contiburette