

Stirrers, Overhead

Compressed Air Stirrers, PLR Series, Buddeberg

High torque, air-powered, continuous running overhead stirrers which are ideal for a variety of laboratory stirring tasks. Certified in accordance with the European ATEX Directive 94/9/EG (see notes below).

- ◆ Spark-free operation
- ◆ Excellent power:weight ratio
- ◆ Can be run whilst overloaded to a standstill without damage
- ◆ Can operate from 0 to 6 bar pressure compressed air supplies
- ◆ Air consumption 260 litres/minute at 6 bar pressure
- ◆ Stainless steel housing resists corrosion
- ◆ Maximum stirrer volume 25 litres
- ◆ Continuously adjustable speed control using valve supplied
- ◆ Models available with, or without, analogue tachometer
- ◆ Clockwise rotation

| Catalogue No. | | SR940-20/-60 | SR940-25/-65 | SR940-30/-70 | SR940-40/-80 |
|-----------------------------|-----|----------------------|--------------|--------------|--------------|
| Model | | PLR10/10T | PLR11/11T | PLR12/12T | PLR13/13T |
| Tachometer | | — / ✓ | — / ✓ | — / ✓ | — / ✓ |
| Speed (no load) | rpm | 15000 | 1750 | 1000 | 80 |
| Torque | Nm | 0.3 | 2.3 | 3.5 | 2.5 |
| Gears | | 0 | 1 | 2 | 3 |
| Sample viscosity capability | | Low | Medium | High | Very high |
| Drive shaft, L x diameter | mm | 24 x 10 — all models | | | |
| Overall height | mm | 124/220 | 160/258 | 195/290 | 228/325 |
| Overall diameter | mm | 38 — all models | | | |
| Weight | kg | 0.9/1.2 | 1.1/1.7 | 1.4/1.7 | 1.6/1.9 |

As described. Stainless steel housing. With valve for continuously adjustable speed control, integral exhaust air venting and 13mm diameter clamping tube for mounting on a stand incorporating a 9mm o.d. riffled nozzle for connection to compressed air supply tubing. Require a (preferably dry) compressed air source for operation.

Stirrer only

SR940-20 PLR10
 SR940-25 PLR11
 SR940-30 PLR12
 SR940-40 PLR13

Stirrer with analogue gauge tachometer

SR940-60 PLR10T
 SR940-65 PLR11T
 SR940-70 PLR12T
 SR940-80 PLR13T

Accessories

Stirrer chuck

Enables connection of SR940 series stirrers to rotors with shaft diameters between 0.5 and 8mm. With key.

SR943-04 Stirrer chuck

Connection couplings

Available in rigid or flexible formats. Rigid couplings minimise rotor 'whip'. Flexible couplings allow slight shaft-to-rotor misalignment without impairing operation. Dimensions given are the rotor shaft diameters accepted.

Rigid couplings

SR943-06 6mm
 SR943-08 8mm
 SR943-10 10mm

Flexible couplings

SR943-12 Rubber bellows, 10mm
 SR943-14 Rubber bellows, 13mm

SR943-37 Machine oil, acid and wax-free, pack of 500ml

Air compressors – see PX485.

Bases and rods – see SL250-30 and SL350-25.

Bosshead – see SL600.

Clips – see CP130/CP135.

Reinforced tubing – see TY410-22.

INFORMATION FOR OPERATING STIRRERS IN POTENTIALLY EXPLOSIVE ATMOSPHERES

- Only couplings (SR943-06 to SR943-14), rather than chucks, must be used to attach paddle shafts.
- All stirrers are provided with earthing points for equipotential bonding and must be suitably connected.
- Before using the pump, the operator must be satisfied that it is suitable for working within the prevailing environmental conditions.



SR940-20 to SR940-40 with accessories



SR940-60 to SR940-80 with accessories