

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

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.

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

Service unit

Recommended for use where the compressed air supply is wet or dirty. With filter, vapour condenser and oiler.

SR943-35 Service unit
 SR943-37 Machine oil, acid and wax-free, pack of 500ml

Air compressors – see PX485.

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

Boshead – see SL600.

Clips – see CP130/CP135.

Reinforced tubing – see TY410-22.



SR940-20 to SR940-40 with accessories



SR940-60 to SR940-80 with accessories