

RS Overhead Stirrers

Powerful stirring

Choice of three models;
offering the best
mixing results, even
for challenging
applications



RS Overhead Stirrers for powerful stirring

The powerful RS range can accomplish the most demanding mixing tasks whilst providing the highest safety and increased operating lifetime...



RS27 Standard with
Reactor-Ready Lab Reactor



RS37 Digital Plus with
Carousel 6 Reaction Station & Tornado IS6

Features include...

- Powerful stirring from 40 to 2000 rpm.
- Smooth start, which prevents splashing and spills.
- Lightweight, easy to set-up and use.
- Choice of mechanical and electronic options, with analogue or digital control.
- Designed for continuous 24 hour operation and high viscosity applications.
- High torque (up to 520 Ncm) provides better mixing in less time; reducing process times.
- Two gear design guarantees the highest power over the entire speed range.
- Sealed housing which helps prevent internal corrosion from aggressive liquids and vapours and ensures years of maintenance-free operation.
- Sparkless motors reduce potential risks in volatile environments.
- Safety over-temperature sensor shuts off the unit to prevent overheating.
- RS50 electronic stirrer maintains constant speed even under changing loads.

Technical Specifications

Please note that other overhead stirrer models are available on request, please contact Radleys for further information.

	RS27 Standard	RS37 Digital Plus	RS50 Control
Cat No.	RR91302 & RR91302/EURO	RR91306 & RR91306/EURO	RR91308 & RR91308/EURO
Power input/output (W)	50/27	70/37	80/50
Gears	2	2	1
Speed range (rpm)	40 - 400 200 - 2,000	40 - 400 200 - 2,000	50 - 2,000
Speed indicator	Analogue	Digital	Digital
Speed control	Mechanic	Mechanic	Electronic
Maximum torque (Ncm)	400	520	20 (40 overload mode)
Power reserve under overload (%)	-	-	200
Torque indicator (Ncm)	-	-	Digital
Overload protection	Automatic cut-out	Automatic cut-out	Automatic cut-out features LED
Motor protection	Overheat protection reset by power switch	Overheat protection reset by power switch	Overheat protection reset by power switch
Viscosity up to (mPa s)	60,000	100,000	40,000
Stirring cap. H:O up to (l)	25	40	100
RS232 interface	-	-	yes
Shaft diameter up to (mm)	10	10	10
Ambient temp. range (°C)	0 - 40	0 - 40	0 - 40
Humidity up to (%)	95 no condensation	95 no condensation	95 no condensation
Stay bar size (dia. x l)	13 x 160	13 x 160	13 x 160
Weight (kg)	3.0	3.3	2.8
Dimension w x h x d (mm)	82 x 206 x 176	82 x 211 x 176	72 x 206 x 176
Protection class (DIN EN 60529)	IP 40	IP 40	IP 40
Supply voltage	230 V/ 50 Hz	230 V/ 50 Hz	230 V/ 50 Hz



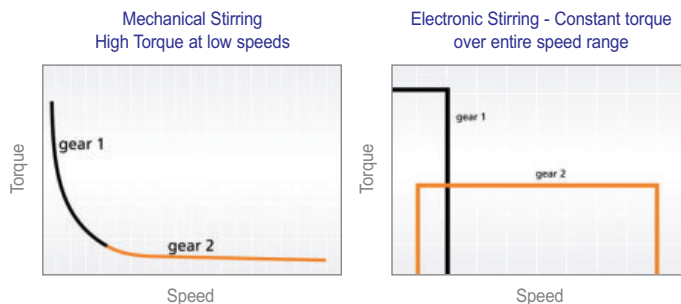
Includes
3 YEAR
Warranty

Mechanical Stirrers for standard stirring...

The RS27 and RS37 mechanical stirrers are best suited to stirring tasks that require non-reproducible results and that have higher viscosity and speeds.

Electronic Stirrers for controlled stirring...

The electronic RS50 maintains exact speed under changing load and is ideal for stirring tasks where the viscosity varies and where reproducible results are required.



RS27 Standard for standard applications...

- Analogue control, 2 gears, 40 to 2,000 rpm.
- Suitable for applications that do not require accurate speed settings.
- Ideal for medium to high viscosity mixing tasks with a maximum viscosity of 60,000 mPa s.
- 27 W output power and torque peaks up to 400 Ncm.

RS37 Digital Plus for high viscosity...

- Bright digital display for accurate speed settings.
- 2 gears, 40 to 2,000 rpm.
- Ideal for any highly viscous mixing with a maximum viscosity up to 100,000 mPa s.
- 37 W output power and torque peaks up to 520 Ncm.

RS50 Control for precise stirring...

- Enhanced bright digital display of torque and speed.
- 50 to 2,000 rpm (single gear).
- Viscosity range up to 10,000 mPa s.
- 50 W output power and torque of 40 Ncm in an overload situation and 20 Ncm for continuous operation.
- Allows you to calibrate your torque at the beginning or even during your process to monitor viscosity changes over time.
- RS232 interface for remote control or via PC.

Accessories...

- Wide range of stirring shaft designs available in stainless steel & PTFE.
- Range of fixed and telescopic stands.
- Optional shaft guard helps prevent accidents.
- Optional remote control allows operation from outside the fumehood.



RS27 Standard Overhead Stirrer



RS37 Digital Plus Overhead Stirrer



RS50 Control Overhead Stirrer

RS Overhead Stirrers

Please note that other overhead stirrer options are available on request, please contact Radleys for further information.

RR91302	RS27 Standard Overhead Stirrer 230v UK Plug
RR91302/EURO	RS27 Standard Overhead Stirrer 230v Euro Plug
RR91306	RS37 Digital Plus Overhead Stirrer 230v UK Plug
RR91306/EURO	RS37 Digital Plus Overhead Stirrer 230v Euro Plug
RR91308	RS50 Control Overhead Stirrer 230v UK Plug
RR91308/EURO	RS50 Control Overhead Stirrer 230v Euro Plug

Stainless Steel Stirrer Shafts

RR91434	Crossed Blade Stirrer 50 x 12mm	400mm long x 8mm ø shaft
RR91436	Straight Blade Stirrer 50 x 12mm	400mm long x 8mm ø shaft
RR91438	Pivot Blade Stirrer 60 x 15mm	400mm long x 8mm ø shaft
RR91440	Square Blade Stirrer 70 x 70mm	450mm long x 8mm ø shaft
RR91442	Collapsible Blade Stirrer 90 x 10mm	400mm long x 8mm ø shaft
RR91444	Pitched Blade Stirrer 58mm ø	400mm long x 8mm ø shaft
RR91446	Ringed Stirrer 33mm ø	400mm long x 8mm ø shaft
RR91448	Ringed Stirrer 45mm ø	400mm long x 8mm ø shaft
RR91450	Ringed Stirrer 66mm ø	400mm long x 8mm ø shaft
RR91452	Radial Flow Stirrer 29mm ø	400mm long x 8mm ø shaft
RR91454	Radial Flow Stirrer 50mm ø	400mm long x 8mm ø shaft

PTFE Stirrer Shafts

RR150250	Anchor PTFE Stirrer 50mm ø	335mm long x 10mm ø shaft
RR150500	Anchor PTFE Stirrer 50mm ø	415mm long x 10mm ø shaft
RR151000	Anchor PTFE Stirrer 80mm ø	455mm long x 10mm ø shaft
RR152000	Anchor PTFE Stirrer 100mm ø	515mm long x 10mm ø shaft
RR155000	Anchor PTFE Stirrer 100mm ø	620mm long x 10mm ø shaft
RR150255	Retreat Curve PTFE Stirrer 55mm ø	335mm long x 10mm ø shaft
RR150505	Retreat Curve PTFE Stirrer 55mm ø	415mm long x 10mm ø shaft
RR151005	Retreat Curve PTFE Stirrer 75mm ø	455mm long x 10mm ø shaft
RR152005	Retreat Curve PTFE Stirrer 100mm ø	515mm long x 10mm ø shaft
RR155005	Retreat Curve PTFE Stirrer 100mm ø	620mm long x 10mm ø shaft
RR150260	Turbine PTFE Stirrer 40mm ø	315mm long x 10mm ø shaft
RR150510	Turbine PTFE Stirrer 40mm ø	395mm long x 10mm ø shaft
RR151010	Turbine PTFE Stirrer 50mm ø	435mm long x 10mm ø shaft
RR152010	Turbine PTFE Stirrer 60mm ø	495mm long x 10mm ø shaft
RR155010	Turbine PTFE Stirrer 80mm ø	600mm long x 10mm ø shaft

Visco Jet Stirrers

Patented cone design creates turbulent flow even at slow speeds. Ideal for mixing gels and viscous or difficult to mix samples.

RR91464	Visco Jet 60mm ø S/S	500mm long x 10mm ø shaft
RR91466	Visco Jet 80mm ø S/S	500mm long x 10mm ø shaft
RR91468	Visco Jet 80mm ø plastic POM	500mm long x 10mm ø shaft
RR91470	Visco Jet 120mm ø S/S	500mm long x 10mm ø shaft
RR91472	Visco Jet 120mm ø plastic POM	500mm long x 10mm ø shaft

Stands & Clamps

RR91410	Universal H-frame Stand	700mm x 25mm ø
RR91412	Large Universal H-frame Stand	1000mm x 25mm ø
RR91414	Telescopic H-frame Stand	725-1025mm x 32mm ø
RR91416	Boss Clamp	Fits rods 13-32mm ø

Accessories

RR91400	Support Rod	160mm x 13mm ø
RR91402	2.5mm Allen Key	
RR91404	3mm Allen Key	
RR91406	10mm Chuck	
RR91408	Chuck Key	
RR91418	Shaft Guard, acrylic	187mm x 312mm
RR91420	Long Flex-coupling with 8mm chuck	130.5cm long, with 20cm rod
RR91422	Flex-coupling for 10mm shafts	
RR91424	Flex-coupling for 5-8mm shafts	
RR91426	Analogue Interface Extension Cable	
RR91428	Remote Control for RS50 Control	
RR91430	RS232 Interface Cable Stirrer-PC	



RR91410
Universal H-frame



RR91414
Telescopic H-frame



RR91416
Boss Clamp



RR91418
Shaft Guard



RR91422
Flex-coupling for
10mm shafts



RR91424
Flex-coupling for
5-8mm shafts



RR91420
Long Flex-coupling
with 8mm chuck



RR91428
Remote Control for
RS50 Control



RR150250
PTFE Anchor



RR150255
PTFE Retreat Curve



RR150260
PTFE Turbine



RR91464
Visco Jet 60mm ø S/S



RR91468
Visco Jet 80mm ø POM



RR91470
Visco Jet 120mm ø S/S



RR91442
Collapsible Blade Stirrer



RR91444
Pitched Blade Stirrer



RR91446/8/50
Ringed Stirrer



RR91452/4
Radial Flow Stirrer



RR91434 Crossed
Blade Stirrer



RR91436
Straight Blade Stirrer



RR91438
Pivot Blade Stirrer



RR91440
Square Blade Stirrer

Improving the productivity of your chemistry...

Radleys have been manufacturing scientific glassware and laboratory instruments for over 40 years. Our customers include leading industrial and academic research facilities around the world. In an ever changing commercial environment we work hard to respond to the needs of our customers by investing in new product development that will allow them to remain at the forefront of chemistry research. Our specific areas of expertise are focused on equipment for chemistry synthesis, process development, work-up and evaporation.

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