

## PTR-25 360° vertical mini rotator

Compact, economy solution with simple to use controls, providing thorough mixing of samples in tubes up to 50ml. Suitable for use in cold rooms and incubators, operating at ambient temperature range +4°C to 40°C.

- 360° vertical rotation
- Vertical rotation speed range: 5 to 30rpm
- Timer with audible alarm and automatic switch-off
- Simple to use controls



**Very easy to operate** with simple controls and easy to view LCD screen

**Reliable and extremely quiet motor** produces regulated rotation throughout the speed range

**Compact with a low profile and small footprint** – fits neatly into the workspace

**Low voltage cord** easily fits through door gaskets, allowing use in incubators, refrigerators and workstations



**Platform accommodating 22 tubes (up to 15mm diameter) is included as standard.** See additional accessories on page 8.10. Platform PPRS4-12 shown.

**Digital timer with audible alarm,** alerts when attention is required

### Applications:

- Life-sciences - hybridisation reactions, cell growth, soft extraction, homogenisation of biological components in solution, binding reactions, washing of magnetic particles, preventing blood coagulation
- Any application requiring simple end over end rotation of tubes

## PTR-35 and PTR-60 360° vertical multi-function rotators

Compact and efficient variable-speed, variable-angle vertical rotators providing all the functionality – vertical rotation, reciprocation and vibration – for thorough mixing of microtubes and reproducible sample preparation. All mixing functions can be linked or used separately.

- 360° vertical rotation, reciprocation and vibration functions all in one compact product
- Choice of two models with different tube capacities
- Vertical rotation speed: 1 to 100rpm
- Reciprocal rotation: 1 to 90° turning angle
- Vibration: programmable in a burst of 1 to 5 seconds
- Fully programmable sequence of functions, including pause
- Optional extra platforms to accommodate microplates and tubes up to 50ml see p 8.10



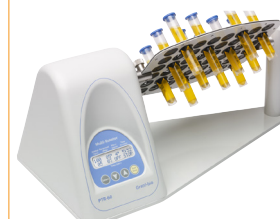
### PTR-35

All actions – rotation, reciprocation and vibration – can be set for continuous or timed operation, or linked together in different combinations to ensure optimum mixing conditions for your application



Supplied with platform accommodating up to 26 microtubes. Maximum rotating speed of up to 100 rpm

The PTR-60 has the same functionality as the PTR-35 and is supplied with platform accommodating up to 48 microtubes



Very easy to operate, with simple set-up of multi-segment programs via push buttons and the 2-line LCD status display

Reliable and extremely quiet motor produces regulated and reproducible rotation throughout the speed range

Compact with a low profile and small footprint – fits neatly into the workspace

Low voltage cord easily fits through door gaskets, allowing use in incubators, refrigerators and workstations. Safe and economical running.






### Applications:

- Life-science laboratories - for hybridization reactions, cell growth, soft extraction and homogenisation of biological components in solutions, as well as for reactions of binding and washing of magnetic particles, cell suspensions, incubations, extraction procedures, gel ashing mixing capillary blood samples.











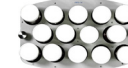

Rotators » PTR-25, PTR-35 and PTR-60 » Specifications

Grant-bio rotators – models and specifications

• = optional

		PTR-25	PTR-35	PTR-60
		360° vertical rotators	360° vertical multi-function rotators	
		 h: 155mm d: 190mm w: 325mm weight: 1.4kg	 h: 155mm d: 195mm w: 365mm weight: 1.8kg	 h: 230mm d: 230mm w: 430mm weight: 3.8kg
Speed	rpm	5 to 30	1 to 100 (increment 1rpm)	
Tilt angle (reciprocal mode)	°	–	1 to 90	
Tilt angle (vibration mode)	°	–	1 to 5	
Timer, with automatic switch-off		1 min to 24 hours		
Time setting range	sec	–	1 to 250	
Timer (vibration mode)	sec	–	1 to 5	
Pause	sec	–	1 to 5	
Maximum load	kg		0.5	0.8
Display		LED	2 x 16 character LCD	
Operating temperature range	°C	4 to 40		
External power supply		Input AC 120-230V, 50/60Hz Output DC 12V		
Input voltage	V dc		12	24
Power consumption	W	1.3 (0.11A)	8 (0.66A)	18 (0.75A)

Accessories

<b>PRS-22 replacement platform</b> for 22 tubes up to ø 15mm tube volumes 1.5-15ml		•	–	–
<b>PRSC-18</b> heavy duty tube adaptor for 18 tubes ø 14-15mm		•	–	–
<b>PPRS4-12</b> holds 4 x 50ml and 12 x 1.5-15ml		•	–	–
<b>PRSC-10</b> heavy duty adaptor for 10 tubes ø 30 mm tube volumes up to 50ml		–	•	–
<b>PRSC-22</b> heavy duty adaptor for 22 tubes ø 15mm tube volumes up to 15ml		–	•	–
<b>PRS-10</b> for 10 tubes up to ø 30mm tube volumes up to 50ml		–	•	–
<b>PRS-26 replacement platform</b> tube adaptor for 26 tubes up to ø 15mm, 1.5 -15ml		–	•	–
<b>PRS-5-12</b> combined platform for 5 tubes up to ø 30mm and 12 tubes up to ø15mm, tube volumes 50ml/1.5-15ml		–	•	–
<b>PRS-1DP</b> platform for microplates, deep well plates and racks for tall tubes 0.5 and 1ml		–	•	–
<b>PRS-14</b> platform for 14 tubes up to ø 30mm tube volumes up to 50ml		–	–	•
<b>PRS-48</b> replacement platform for 48 tubes up to ø 15mm, tube volumes 1.5-15ml		–	–	•
<b>PRS-8-22</b> platform for 8 tubes up to ø 30mm plus 22 tubes up to ø 15mm tube volumes up to 50mL/1.5-15ml		–	–	•



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**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.