

## STEM Heating Blocks



# STEM Heating and Stirring



RS1000 & RS2500  
Reacto Stations™

## Top of the Line!

- Choice of 10, 24, 25 or 50 tube models
- Manual or automatic operation
- LED temperature display

### Product Description

- Choose from 10, 24, 25, or 50 tube models with tube diameters of 24 or 25 mm.
- Model RS2400 available with tube diameters of 24, 25 or 30 mm.
- Tube diameter of 25mm models can be reduced down using adapter sleeves to accommodate 24, 20 or 16 mm tube sizes.
- Rugged design for tough environments

### Operation

- Adjustable stirring speed from 400 to 2000 rpm.
- Temperature range to 150°C or achieve 300°C with RS1000H model.
- Soft start or ramping feature allows a slow build-up to the set speed. Adjustable from 0 - 10 ramps per second up to your desired stirring speed. RS1000 models offer a fixed ramp rate.
- All racks incorporate AccuTemp™ heating technology to give excellent temperature stability across all positions (better than 0.5°C.)
- Powerful magnetic stirrers located beneath each position drive a small stir bar in the test tube.
- Heating and stirring cycles can be controlled by external software as part of a fully automated system through the RS232.
- Up to ten RS1000 or RS1000H units can be linked via their RS485 connectors and then be individually controlled, giving the additional facilities of unattended operation, speed variation and temperature ramping over user-defined time periods.
- Optional increased hole depth (50, 60, 70 mm) for RS2400, RS2500 and RS5000 available. Contact Customer Service for more information.

### Safety

- The heating block is surrounded by insulation so the surrounding casework remains cool to the touch.
- Temperature cutout eliminates runaway conditions.

### Optional Reflux Module

- Optional reflux module cools the exposed portion of the test tube minimizing sample loss through evaporation during reaction.
- Available for use on 10, 25 and 50 tube models.
- Choose from a compact forced air model that requires no plumbing or a liquid cooled unit for lower temperatures and precise, uniform control across the tubes.
- Both models are fitted with a removable lid and inlet port for purging with inert gas.
- Reflux module lids contain holes corresponding to the position of the tubes underneath which are normally covered on the inside by a replaceable silicone membrane. This can be pierced by autosampler cannulae for automatic reagent addition under near inert conditions.

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Liquid-cooled reflux module for RS2500



RS1000 with air cooled reflux module



Reflux modules cool the exposed portion of the test tube minimizing sample loss through evaporation during reaction.

## PRODUCT SPECIFICATIONS

Model #	RS1000 (RS1000H)	RS2400	RS2500	RS5000
No. of stirred positions	10	24	25	50
Tube diameter available	24 or 25 mm	24 or 25 mm	24 or 25	24 or 25
Stir speed range (rpm)	400 to 2000	400 to 2000	400 to 2000	400 to 2000
Soft start (ramp/second)	Fixed	Adjustable 0 - 10	Adjustable 0 - 10	Adjustable 0 - 10
Temperature range (°C)	Ambient +5 to 150°C	Ambient +5 to 150°C (RS1000H - Ambient +50 to 300)	Ambient +5 to 150°C	Ambient +5 to 150°C
Temperature stability (°C)	±0.5	±0.5	±0.5	±0.5
Time to max./min. temp. (minutes)	15 (RS1000H - 25)	30	30	30
Interface	RS232/485	RS232 and switched	RS232 and switched	RS232 and switched
Overall Dimensions (W x H x D)	3.1" x 5.5" x 11.8" (7.9 x 13.9 x 29.9 cm)	9.56" x 5.3" x 12.2" (24.3 x 13.5 x 30.9 cm)	9.56" x 5.3" x 12.2" (24.3 x 13.5 x 30.9 cm)	9.56" x 5.3" x 17.9" (24.3 x 13.5 x 45.5 cm)
Shipping Weight	10 lb. (4.5 kg)	33 lb. (15 kg)	33 lb. (15 kg)	33 lb. (15 kg)

## ORDERING INFORMATION

Model #	Description	Electrical (50/60 Hz) Volts	US List Price	Model #	Description	Electrical (50/60 Hz) Volts	US List Price
PS80033	Stem RS1000, 10, 24 mm tubes	110 VAC	\$6,171.00	PS80057A	Stem RS2400, 24, 5 mm tubes	230 VAC	\$10,177.00
PS80010	Stem RS1000, 10, 24 mm tubes	230 VAC	\$6,171.00	PS80054B	Stem RS2400, 24, 30 mm tubes	110 VAC	\$10,177.00
PS80033A	Stem RS1000, 10, 25 mm tubes	110VAC	\$6,171.00	PS80057B	Stem RS2400, 24, 30 mm tubes	230 VAC	\$10,177.00
PS80010A	Stem RS1000, 10, 25 mm tubes	230 VAC	\$6,171.00	PS80036	Stem RS2500, 25, 24 mm tubes	110 VAC	\$10,361.00
PS80073	Stem RS1000H, 10, 24 mm tubes	110 VAC	\$7,463.00	PS80025	Stem RS2500, 25, 24 mm tubes	230VAC	\$10,361.00
PS80071	Stem RS1000H, 10, 24 mm tubes	230 VAC	\$7,463.00	PS80036A	Stem RS2500, 25, 25 mm tubes	110 VAC	\$10,361.00
PS80073A	Stem RS1000H, 10, 25 mm tubes	110 VAC	\$7,463.00	PS80025A	Stem RS2500, 25, 25 mm tubes	230 VAC	\$10,361.00
PS80071A	Stem RS1000H, 10, 25 mm tubes	230 VAC	\$7,463.00	PS80037	Stem RS5000, 50, 24 mm tubes	110 VAC	\$14,552.00
PS80054	Stem RS2400, 24, 24 mm tubes	110 VAC	\$10,177.00	PS80050	Stem RS5000, 50, 24 mm tubes	230 VAC	\$14,552.00
PS80057	Stem RS2400, 24, 4 mm tubes	230 VAC	\$10,177.00	PS80037A	Stem RS5000, 50, 25 mm tubes	110 VAC	\$14,552.00
PS80054A	Stem RS2400, 24, 25 mm tubes	110 VAC	\$10,177.00	PS80050A	Stem RS5000, 50, 25 mm tubes	230 VAC	\$14,552.00

\*See accessories on page 89