



NEW
Model &
Features

Carousel™ Stirring Hotplates



Powerful stirring and fast heating with a chemically-resistant top plate and built-in safety features

Carousel Core+ Stirring Hotplate

800 Watt heating power with a chemically resistant top plate



Carousel Core+ and Heat-On
500 ml block

Features include

- Hotplate temperature range: 20 to 300 °C.
- Speed range 100 to 1400 rpm.
- Digital display of temperature and speed with both set and actual values.
- Temperature and rotation knobs can be locked to prevent changing of set values.



Faster heating

- 800 Watt heating power – heats rapidly.
- Reduces heat-up times by 35%.

Kera-Disk® top plate

- Rapid heat transfer for fast heating.
- Chemical and scratch resistant.
- 135 mm diameter.



Stirring control

- Powerful and even stirring.
- Smooth ramp to set speed which prevents decoupling of magnet.

Pt1000 temperature sensor

- For precise control by solution or block temperature.
- Accuracy with sensor ± 1 K.



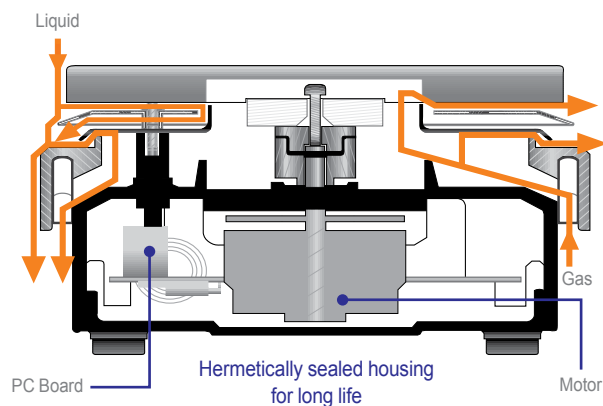
Pt1000 Stainless Steel
Temperature Sensor

Safety features

Carousel Core+ Stirring Hotplate provides built-in safety features as standard to protect both the user and the sample.

Sealed housing

Sealed against solvent and vapour for long lifetime.



Carousel Core+ and Carousel 6
Plus Reaction Station



Carousel Core+ Hotplate, Pt1000
with holder and Heat-On block

Visit our
website
Heat-On
for more info

Superior safety features

- Separate on/off switch for heating prevents unintentional heat-up.
- When heating is switched on, the on/off button is illuminated for visual control.
- Residual heat indicator provides a clear warning if top plate surface is greater than 50 °C, minimising accidental burns.
- An independent safety circuit switches off the heating if the set hotplate temperature is exceeded by 25 °C.
- To protect your sample from overheating a safety circuit switches off the heating if temperature sensor is not immersed in the medium.
- Stirring control features a smooth ramp to set speed which prevents decoupling.



Technical specification

Model	Carousel Core+ Stirring Hotplate
Dimensions (W × H × D)	168 × 101 × 299 mm
Usable surface top plate	Ø 135 mm
Weight approx.	3 kg
Maximum permissible load	25 kg
Drive	EC motor, left-turning
Speed range	100 – 1,400 rpm
Adjustment accuracy	5 rpm
Heating power	800 W at 230 V (EU) 600 W at 115 V (US)
Heating temperature range	20 – 300 °C
Heating control	PID
Adjustment accuracy	± 1 K
Measurement accuracy (DIN IEC 751 Class a)	± 0.2 K, plus tolerance Pt1000
Measurement resolution	± 1 K
Display	LCD display
Protection class	(EN 60529) IP42
Acoustic pressure	< 50 db(A)



Carousel Core+ has a connection for an external Pt1000 temperature probe

Findenser™ - requires no running water to operate

Replaces the need for water-cooled condensers in over 95% of all common chemistry applications, whilst minimising the risk of flooding in the laboratory

Benefits

- No risk of flooding from running water.
- Eliminates water purchase and disposal costs.
- Suitable for solvent volumes from 5 ml up to 1 litre.
- Helps meet sustainable water reduction targets.
- A finned aluminium jacket to ensure high performance air-cooling.
- A patented design to encapsulate thermofluid for maximised thermal conductivity and heat transfer.



Pt1000 Temperature Sensors and Accessories



RR91226
Pt1000 S/S
Temperature Sensor



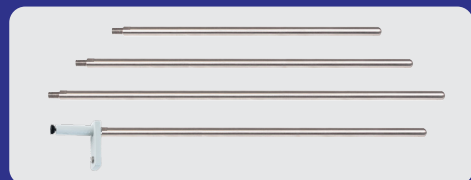
RR71120
Rod Support Hotplate
Adapter (extension plate)



RR91235
Pt1000 Clamping System
+ Support Rod and Cable



RR91228
Temperature Sensor
Holder



RR71125
Support Rod (13 mm x 340 mm)

RR91229
Support Rod (13 mm x 425 mm)

RR71127
Support Rod (13mm x 500 mm)

RR91230
Support Rod for 4 L Heating Bath

Hotplate Accessories



569-00600-00
5 litre Heating Bath Liquid
up to 220°C



RR91238
Silicone Protective Cover



RR71115
Boss Head
16 mm



RR71110
Retort Clamp
to 85 mm



RR91220
1 litre PTFE Coated
Heating Bath



RR91221
2 litre PTFE Coated
Heating Bath



RR91222
4 litre PTFE Coated
Heating Bath



RR91232
Holding Bracket
& Clamp



RR91223
1 litre Heating Bath



RR91224
2 litre Heating Bath



RR91225
4 litre Heating Bath



RR61085
145 mm Adapter Plate

High Performance PTFE Stirring Bars



RR98075
10 mm
Cross Shape



RR98091
16.5 mm RE
Cross Shape



RR95910
30 mm
Cross Shape



RR98096
10 mm RE
Elliptical



RR98097
15 mm RE
Elliptical



RR99064
25 mm RE
Elliptical



RR99607
12 x 4.5 mm
Pivot Ring



RR98071
12 x 6 mm
Pivot Ring



RR99613
15 mm
Pivot Ring



RR95905
8 mm
Cylindrical



RR98113
12 mm RE
Cylindrical



RR98070
13 mm
Octagonal



RR95920
40 mm
Oval Shape



RR95921
50 mm
Oval Shape



RR98095
PTFE Magnetic Stir Bar
Evaluation Kit



RR71200
PTFE Magnetic Stir Bar
Evaluation Kit - For Flasks



RR98094
PTFE Magnetic Stirring
Bar Retriever



RR98114
Stirring Bar
Restraint

Carousel Core+ Stirring Hotplate 230v

RR91213	Carousel Core+ Stirring Hotplate 230v UK Plug
RR91213/EURO	Carousel Core+ Stirring Hotplate 230v Euro Plug
RR91213/SWISS	Carousel Core+ Stirring Hotplate 230v Swiss Plug
RR91213/USA	Carousel Core+ Stirring Hotplate 230v US Plug

Carousel Core+ Stirring Hotplate + PT1000

RR91216	Carousel Core+ Stirring Hotplate + PT1000 230v UK Plug
RR91216/EURO	Carousel Core+ Stirring Hotplate + PT1000 230v Euro Plug
RR91216/SWISS	Carousel Core+ Stirring Hotplate + PT1000 230v Swiss Plug
RR91216/USA	Carousel Core+ Stirring Hotplate + PT1000 230v US Plug

Carousel Core+ Stirring Hotplate Package 230v

RR91292	Carousel Core+ Stirring Hotplate Package 230v UK Plug
RR91292/EURO	Carousel Core+ Stirring Hotplate Package 230v Euro Plug
RR91292/SWISS	Carousel Core+ Stirring Hotplate Package 230v Swiss Plug
RR91292/USA	Carousel Core+ Stirring Hotplate Package 230v US Plug

Consisting of the following:

RR91213	Carousel Core+ Stirring Hotplate
RR91226	Pt1000 S/Steel Temperature Sensor
RR91235	Pt1000 Clamping System - Support Rod and Cable Guide
RR91238	Silicone Protective Cover

AVA Software Kits - includes Controller, Data Hub & AVA Care

RR20302	AVA Level 1 Software Kit + UK Plug
RR20304	AVA Level 2 Software Kit + UK Plug

Pt1000 Temperature Sensors and Accessories

RR91226	Pt1000 S/S Temperature Sensor
RR91227	Pt1000 Glass Coated Sensor
RR71120	Support Rod Hotplate Adapter (extension plate)
RR91235	Pt1000 Clamping System + Support Rod and Cable Guide
RR91236	Pt1000 Clamping System + Support Rod and Cable Guide (bath from 3 to 5 L)
RR91228	Temperature Sensor Holder
RR71125	Support Rod (13 mm x 340 mm)
RR91229	Support Rod (13 mm x 425 mm)
RR71127	Support Rod (13 mm x 500 mm)
RR91230	Support Rod for 4 litre Heating Bath (13 mm x 475 mm)

Hotplate Accessories

569-00600-00	5 litre Heating Bath Liquid up to 220°C
RR91238	Silicone Protective Cover
RR71115	Boss Head 16 mm
RR71110	Retort Clamp to 85 mm
RR91220	1 litre PTFE Coated Heating Bath
RR91221	2 litre PTFE Coated Heating Bath
RR91222	4 litre PTFE Coated Heating Bath
RR91232	Holding Bracket & Clamp
RR91223	1 litre Heating Bath
RR91224	2 litre Heating Bath
RR91225	4 litre Heating Bath
RR91238	Silicone Protective Cover for Core+ Hotplate
RR61085	145 mm Adapter Plate for 135 mm Hotplates

High Performance PTFE Stirring Bars

RR98075	Cross Shape Stirring Bar 10 mm, pk 40
RR98091	Cross Shape Stirring Bar 16.5 mm Rare Earth, pk 20
RR95910	Cross Shape Stirring Bar 30 mm, pk 5
RR98096	Elliptical Stirring Bar 10 mm Rare Earth, pk 40
RR98097	Elliptical Stirring Bar 15 mm Rare Earth, pk 20
RR99064	Elliptical Stirring Bar 25 mm Rare Earth, pk 10
RR99607	Pivot Ring Stirring Bar 12 x 4.5 mm, pk 40
RR98071	Pivot Ring Stirring Bar 12 x 6 mm, pk 40
RR99613	Pivot Ring Stirring Bar 15 mm, pk 40
RR95905	Cylindrical Stirring Bar 8 mm, pk 40
RR98113	Cylindrical Stirring Bar 12 mm Rare Earth, pk 20
RR98070	Octagonal Stirring Bar 13 mm, pk 20
RR95920	Oval Stirring Bar 40 mm, pk 5
RR95921	Oval Stirring Bar 50 mm, pk 5
RR98095	PTFE Magnetic Stir Bar Evaluation Kit, pk 30
RR71200	PTFE Magnetic Stir Bar Evaluation Kit - for flasks, pk 10
RR98094	PTFE Magnetic Stir Bar Retriever 350 mm
RR98114	Stirring Bar Restraint

Radleys provide innovative chemistry equipment for safer, cleaner, greener and more productive chemical research.

Visit www.radleys.com to see our full range of chemistry productivity tools.