



NEW
50 Litre
Vessel

Reactor-Ready™ Pilot Lab Reactor

Innovative reaction work station for jacketed
glass reaction vessels from 5 to 50 litres



Reactor-Ready Pilot Lab Reactor

Replace multiple reactor set-ups with a single, versatile, pilot scale system that accepts vessels from 5 to 50 litres

Accepts single jacketed vessels of 5, 10, 15, 20, 30, 35 and 50 litres and vacuum jacketed vessels of 5 and 10 litres

Simple Stirrer Alignment

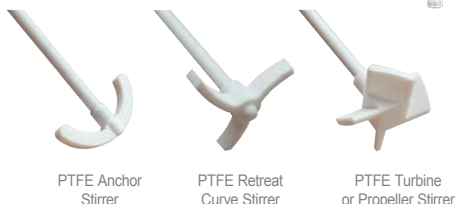
- 4-axis stirrer adjustment
 - Slide and glide
 - Set and lock

Unique PTFE Vessel Clamp

- Self-centering
- Quick release
- Change vessels in minutes



A choice of popular stirrer paddles



Convenient vessel kits make buying vessels and accessories easy

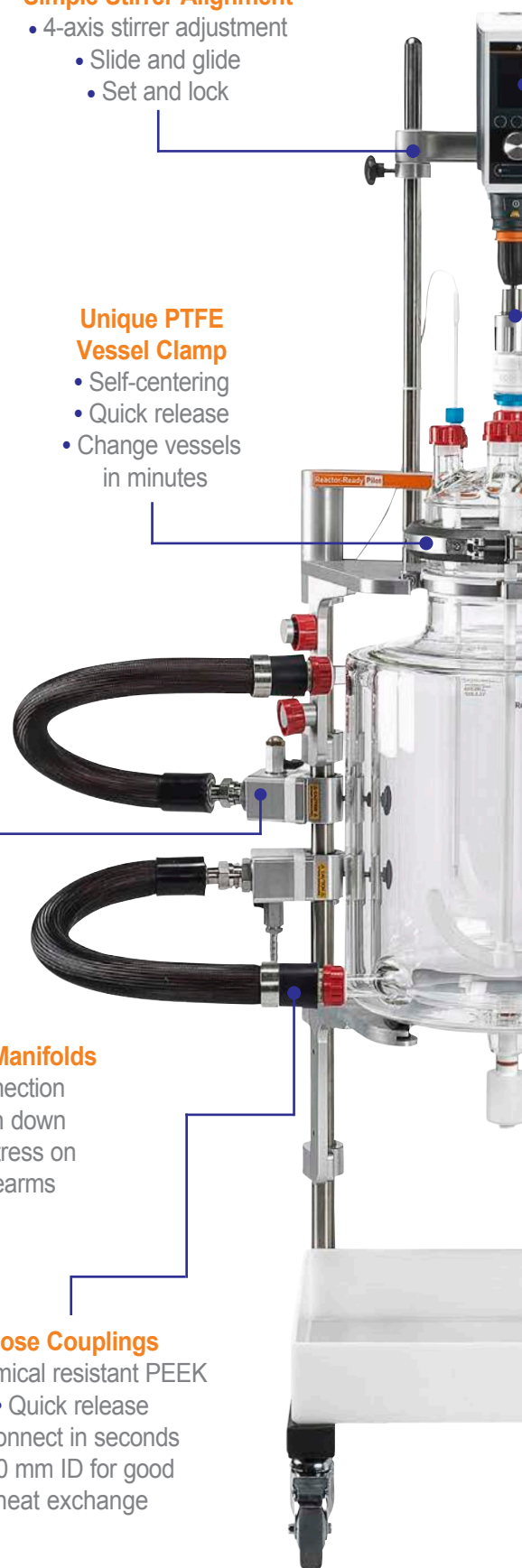


Thermofluid Manifolds

- Easy connection
- Easy drain down
- Reduces stress on vessel sidearms

Hose Couplings

- Chemical resistant PEEK
 - Quick release
- Connect in seconds
- 20 mm ID for good heat exchange





Change to Reactor-Ready Pilot

It saves space, time, money and improves your chemistry

Universal Stirrer Support

- Accepts all leading brands of overhead stirrer

Patented Stirrer Coupling

- Drop in
- No tools
- No fuss

Jacketed Vessels

- Single jacketed 5 to 50 litres
- Vacuum jacketed 5 and 10 litres
 - Zero dead space drain
 - 1.25:1 vessel geometry*

Custom Vessels

- To your specific size and style
 - In-house manufacturing
- Mimic plant scale geometry

Lower Support Plate

- Required for 30, 35 and 50 litre vessels
- Easily adjustable without tools



Compact, Mobile Framework

- Corrosion resistant stainless steel, anodised aluminium or powder coated steel
- Both castors and feet supplied with all units

Reactor-Ready Pilot includes all of the features of the popular benchtop Reactor-Ready Flex (100 ml to 5 litres)



Control and log any reactor:

Subscription-free automation.



Compatible with all leading brands of circulator and thermoregulator



Compatible with leading brands of overhead stirrer



*except for 30 and 50 L vessels

Reactor-Ready Pilot

Swap reaction vessels in minutes, NOT hours

Reactor-Ready Pilot is designed as a versatile reactor work station that can be used for different vessel sizes and different projects. Reactor-Ready Pilot is ideal for process development, scale-up, pilot and kilo labs.

The advantage of Reactor-Ready Pilot is that this one reactor work station can replace many, saving you money and fumehood space.



Features include

- Rapid vessel exchange with quick-release vessel clamp and wide bore hose couplings.
- Range of single jacketed vessels - 5, 10, 15, 20, 30, 35 and 50 litres.
- Range of vacuum jacketed vessels - 5 and 10 litres.
- Vessels manufactured at 1.25 to 1 ratio of internal height to diameter to mimic plant scale reactors.*
- DN200 vessel flange.
- Accepts all leading brands of overhead stirrer and allows easy, tool-free adjustment.
- Compact stainless steel framework accepts all vessel sizes.
- Self-aligning stirrer coupling engages without the need for tools.
- Temperature range: -70 °C to +230 °C (thermofluid temperature).
- Innovative hose manifolds allow easy thermofluid drain down.
- Wide range of accessory glassware including condensers, dropping funnels etc.
- Optional software allows you to log and control 3rd party devices.

Patented vessel clamp allows rapid vessel exchange without tools

- Clamp design allows vessel to be supported and clamped by a single operator in less than a minute.
- Use the same clamp to hold all vessel sizes; plus the vessels remain supported even when the clamp is unlocked.



Anodised aluminium vessel support collar with PTFE liner



Vessel Support Collar aids vessel loading

- Reactor-Ready Pilot uses a robust support collar, which securely locates into a dedicated 'step' on the neck of each vessel, which then allows vessels to be changed like a cartridge.
- The solid aluminium collar locks securely into the support plate on the framework and allows the vessel to remain supported, even when not clamped.
- Vessel exchange is tool-free.

Unique Self-aligning Stirrer Coupling saves time when changing vessels

- Patented drop-in stirrer coupling engages easily without the need for tools.
- Simply lower the stirrer coupling to engage with the stirrer guide below.
- The stainless steel stirrer coupling will fit in any standard stirrer chuck.
- The non-slip design ensures powerful stirring.



I-beam Support allows the Stirring Motor to be positioned with ease

- I-beam allows the stirrer to be raised or lowered without remounting.
- Adjustable safety stop collars allow the user to lower the stirrer motor to a set position for ease of operation and safety.
- Accepts all overhead stirrers with support rods up to 16 mm diameter.

NEW Improved PTFE stirrer guide design for debris-free stirring

- The Reactor-Ready Pilot V2 stirrer guide has been engineered to minimise visible PTFE shedding during operation and reduce stirrer shaft whip.
- By using an improved PEEK and glass interface, combined with extended shaft support, the new design lowers the risk of PTFE debris from the stirrer shaft entering the vessel, compared with conventional PTFE stirrer guide arrangements, and helps control shaft movement.
- The stirrer guide fits directly onto the vessel lid, is chemically inert, gas-tight and suitable for operation under vacuum.

Debris-free stirring

- PTFE shedding from conventional stirrer guide arrangements can create visible debris during stirring. The redesigned V2 stirrer guide helps reduce this risk by using a PEEK and glass interface, combined with extended shaft support, to eliminate wear around the rotating PTFE stirrer shaft.
- While completely debris-free operation cannot be guaranteed, extensive testing of the V2 stirrer guide has shown no visible PTFE shedding.

Stable stirring performance

- The extended support within the stirrer guide is designed to help control shaft movement and reduce whip during operation, supporting smoother stirring performance compared with conventional PTFE stirrer guides.

Quick Release wide bore PEEK Hose Couplings

- Operate over the temperature range -70°C to $+230^{\circ}\text{C}$.
- Quick-release screwthread design allows for tool-free vessel exchange. PEEK connectors for no metal-glass contact.
- Viton O-rings allow for a leak-tight seal.
- Lightweight, metal free design prevents chipping and minimises strain on the glass fitting.
- 20 mm ID hoses, maximising flow and heating/cooling performance.
- Low thermal conductivity of PEEK reduces frosting when cooling.

Hose Manifolds allow easy Thermofluid drain down

- The Reactor-Ready Pilot vessel inlet and outlet hoses connect to manifolds mounted on the framework.
- These manifolds support the weight of the hoses, reducing stress on the glass sidearms, and provide a quick, clean method for draining thermofluid from the vessel jacket when changing vessels.
- Drainage to an external reservoir can be initiated by opening the drain tap on the lower manifold. The vent valve on the upper manifold is then opened to allow air in the jacket and to control the speed of drainage.

Compact, mobile framework

- One versatile framework accepts all vessel sizes and fits inside a standard walk-in fumehood.
- Manufactured from stainless steel and anodised aluminium, with a powder-coated steel base, the framework includes locking wheels and adjustable feet for fixed or mobile use.



*except for 30 and 50 L vessels

Reaction Vessels

Jacketed vessels from 5 to 50 litres

Features include

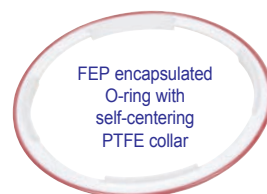
- Precision engineered borosilicate glass vessels with DN200 flange.
- Double or vacuum jacketed vessels offer extra insulation to the oil jacket.
- Process or dish shaped vessels feature a 1.25 to 1 ratio to mimic geometry of plant scale reactors.*
- Wide bore 20 mm ID sidearms are positioned tangentially and offer excellent flow and thermal transfer.
- DN200 ground and polished flat flange combines with the FEP encapsulated O-ring and our unique self-centering PTFE collar to offer a leak-tight seal between the vessel and lid.

Vessels feature V5 Zero Dead Space Drain Piston

- Exclusive piston design prevents over-tightening that can cause glass breakage.
- Piston design allows quick and safe removal, eliminating the cleaning and assembly problems associated with other pistons.
- Glass filled PTFE pistons operate across the full thermofluid temperature range -70 °C to +230 °C.
- Pistons are interchangeable between vessels with a full range of replacement parts and FEP O-rings.
- We recommend using Chemraz O-rings for temperatures above +150 °C.
- The large 25 mm bore pistons minimise sample hold-up and are ideal for slurries.



Glass filled PTFE piston with FEP encapsulated O-rings



FEP encapsulated O-ring with self-centering PTFE collar

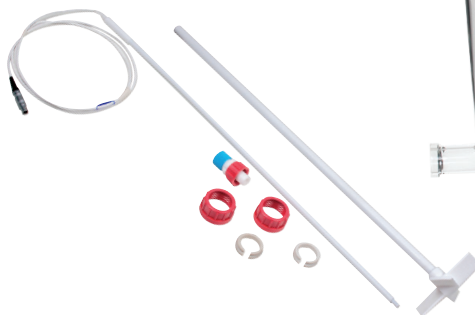
Reaction Vessel Kits

Reaction Vessel Kits make ordering vessels and popular accessories simple

Reaction Vessel Kits

These vessel kits include the vessel and accessories you need to get started. The Pt100 probe and turbine stirrer are matched to the vessel size. Kit includes:

- Reaction Vessel
- PTFE Turbine Stirrer
- Sidearm Couplings
- Pt100 PTFE Temperature Probe with LEMO Connector
- PTFE Temperature Probe Adapter



Reaction Vessel Specifications

Jacketed and vacuum jacketed vessels with dish shaped bottom, feature a 1.25 to 1 ratio of internal height to diameter to mimic the geometry of plant scale reactors*

Single jacketed

Wide flange, tangential sidearms for rapid thermal transfer.



	5 litre Single Jacketed	10 litre Single Jacketed	15 litre Single Jacketed	20 litre Single Jacketed	30 litre Single Jacketed	35 litre Single Jacketed	50 litre Single Jacketed
Cat No. (Reaction Vessel Only)	RR235050	RR235100	RR235150	RR235200	RR235300	RR235350	RR235500
Cat No. (Reaction Vessel Kit)	RR220005	RR220015	RR220025	RR220035	RR220045	RR220050	RR220055
Nominal Capacity	5 Litres	10 Litres	15 Litres	20 Litres	30 Litres	35 Litres	50 Litres
Internal Diameter	180 mm	240 mm	260 mm	290 mm	340 mm	340 mm	340 mm
External Diameter	250 mm	300 mm	315 mm	350 mm	415 mm	415 mm	415 mm
Jacketed Height	230 mm	300 mm	325 mm	363 mm	378 mm	433 mm	612 mm
External Height (piston open)	510 mm	590 mm	620 mm	660 mm	710 mm	760 mm	950 mm
Vessel Internal Ratio H:D	1.28:1	1.25:1	1.25:1	1.25:1	1.11:1	1.27:1	1.80:1
Thermofluid Jacket Volume	4.6 Litres	6.2 Litres	5.7 Litres	9.8 Litres	12.4 Litres	14 Litres	19 Litres
Heat Transfer Area	0.16 m ²	0.27 m ²	0.31 m ²	0.38 m ²	0.45 m ²	0.52 m ²	0.71 m ²
Flange	DN200	DN200	DN200	DN200	DN200	DN200	DN200
Sidearm	20 mm ID	20 mm ID	20 mm ID	20 mm ID	20 mm ID	20 mm ID	20 mm ID
Piston	25 mm ID	25 mm ID	25 mm ID	25 mm ID	25 mm ID	25 mm ID	25 mm ID
Piston Run-off	B24/29	B24/29	B24/29	B24/29	B24/29	B24/29	B24/29

Vacuum jacketed

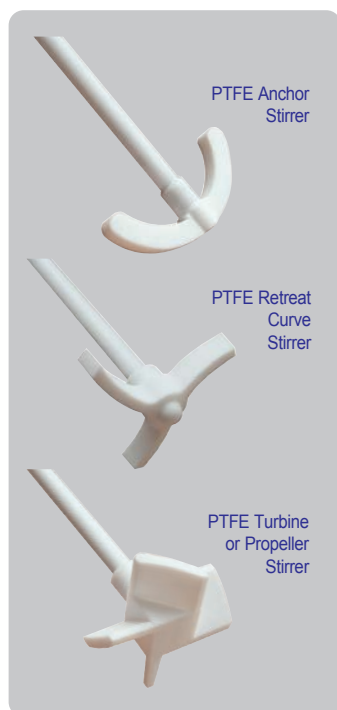
Added insulation for improved contents visibility at low temperatures, and added safety at high temperatures.



	5 litre Vacuum Jacketed	10 litre Vacuum Jacketed
Cat No. (Reaction Vessel Only)	RR235052	RR235102
Cat No. (Reaction Vessel Kit)	RR220010	RR220020
Nominal Capacity	5 Litres	10 Litres
Internal Diameter	180 mm	240 mm
External Diameter	300 mm	350 mm
Jacketed Height	225 mm	300 mm
External Height (piston open)	530 mm	610 mm
Vessel Internal Ratio H:D	1.25:1	1.25:1
Thermofluid Jacket Volume	3.9 Litres	5.4 Litres
Heat Transfer Area	0.16 m ²	0.27 m ²
Flange	DN200	DN200
Sidearm	20 mm ID	20 mm ID
Piston	25 mm	25 mm
Piston Run-off	B24/29	B24/29



*except for 30 and 50 L vessels



PTFE stirring shafts

Reactor-Ready Pilot is offered with a choice of PTFE Stirring Shafts: Anchor, Retreat Curve and Turbine or Propeller styles

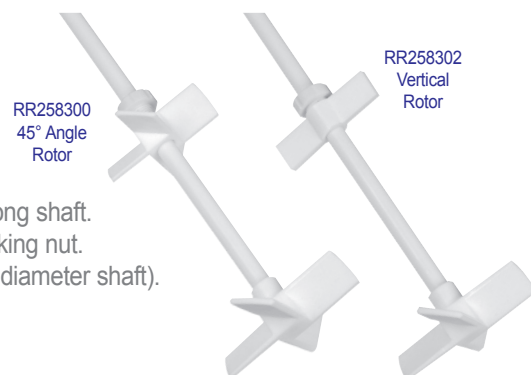
- Chemically inert PTFE rotors moulded onto a 16 mm Ø PTFE shaft with metal core.
- A PTFE Turbine Stirring Shaft is included as standard with all 'Reaction Vessel Kits'.
- Stirring shafts are available for each vessel size for optimal mixing.
- Custom stirrer designs available on request.

PTFE Stirrer Guide

- The stirrer guide is chemically inert, gas tight and suitable for work under vacuum.

PTFE Adjustable Secondary Rotors

- Secondary rotors can be positioned anywhere along shaft.
- Chemically inert PTFE with glass filled PTFE locking nut.
- RR258300 - 4 blade 45° Angle Rotor (for 16 mm diameter shaft).
- RR258302 - 2 Blade Vertical Rotor.



Temperature Probes & Baffles

Pt100 PTFE temperature probes

- Fitted with LEMO Plug.
- Designed to work over the full temperature range of the system (-70 °C to +230 °C).
- Fully encapsulated in PTFE with a stainless steel core for rigidity, but can be bent.
- RR145000 - probe body 600 mm x 9 mm diameter for 5 to 10 L vessels.
- RR146000 - probe body 700 mm x 9 mm diameter for 15 to 35 L vessels.
- RR146050 - probe body 900 mm x 9 mm diameter for 50 L vessels.
- RR140015 - B19 temp. probe adapter (holds probe securely in the lid, allowing vertical adjustment).

PTFE Baffle and baffles with integrated temperature probes

- Designed to improve agitation and promote thorough mixing.
- Fully encapsulated in PTFE with a stainless steel core for rigidity.
- 16 mm diameter body, with 35 mm wide baffle head. Available in 600 mm and 700 mm body lengths.
- Available with or without built-in Pt100 temperature probe.
- RR257000 - PTFE Baffle, 16 mm OD Shaft, 35 mm x 600 mm long.
- RR257002 - PTFE Baffle, 16 mm OD Shaft, 35 mm x 700 mm long.
- RR257003 - PTFE Baffle, 16 mm OD Shaft, 35 mm x 850 mm long.
- RR257004 - Pt100 PTFE Baffle Probe + Lemo, 16 mm OD Shaft, 35 mm x 600 mm long.
- RR257006 - Pt100 PTFE Baffle Probe + Lemo, 16 mm OD Shaft, 35 mm x 700 mm long.
- RR257007 - Pt100 PTFE Baffle Probe + Lemo, 16 mm OD Shaft, 35 mm x 850 mm long.
- B24, B29 and B34 PTFE compression fittings available to hold baffles.

Drip Tray

- A chemically resistant polypropylene designed to catch any spills and vessel contents in case of breakage.
- Available in 7, 22, 45 and 55 litre capacities.
- Slides easily onto the Reactor-Ready Pilot base.



Reflux Divider Kits

Reflux divider kits allow condensed vapours to be either refluxed back into the reactor or diverted into a separate receiving vessel

- Can be used to perform solvent swaps or distillations.
- Choice of receiving flasks 500 ml, 1, 2 and 5 litre. All receiver flasks feature three necks, decanting stopcock and are suitable for stacking. Receiver flasks must be ordered separately.
- Reflux divider kits are available with optional vapour temperature sensor.

RR239200 - Pilot Reflux Divider Kit

RR139320 - Reflux Divider Head, B34 + GL18 fittings
 RR139300 - Large Double Coil Rodaviss Condenser 60mm B34 + GL18 + fittings
 RR139012 - Right Angle Adapter B34 + GL14 + PTFE fittings
 RR139332 - Adapter Rodaviss B24 to GL25
 RR139350 - GL25 HT Compression Fitting for 12mm OD Tubing
 RR139354 - PTFE Tubing 10mm ID x 12mm OD - 1m length
 RR139360 - 3 x Pilot Boss Head - 22-35mm, 8-12mm
 RR139372 - 4-Prong Large Clamp - 10mm rod, 30-80mm
 RR139376 - Lower Support Ring - 10mm rod, 76mm ID
 RR139374 - Universal Clamp Cork Jaws - 10mm rod, 0-80mm

Note: A suitable receiver flask/s RR139324/6/8/30 is required to complete this kit.



RR239201 - Pilot Reflux Divider Kit + Spherical Joint

As above except for following substitutions

RR139420 - Reflux Divider Head B34 to S41 Spherical Joint + GL18 fitting
 RR139400 - Large Double Coil Condenser 60mm S41 Spherical Joint to B34 + GL18 fittings

Note: A suitable receiver flask/s RR139324/6/8/30 is required to complete this kit.



RR239202 - Pilot Reflux Divider Kit with Vapour Temperature Probe

RR139322 - Reflux Divider Head, B34 + GL18 fittings + B14 temp port
 RR139300 - Large Double Coil Rodaviss Condenser 60mm B34 + GL18 + fittings
 RR139012 - Right Angle Adapter B34 + GL14 + PTFE fittings
 RR139332 - Adapter Rodaviss B24 to GL25
 RR139350 - GL25 HT Compression Fitting for 12mm OD Tubing
 RR139354 - PTFE Tubing 10mm ID x 12mm OD - 1m length
 RR139133 - Pt100 PTFE Temp. Probe (Reflux Divider Head) + 2m Cable
 RR139135 - PTFE Temperature Probe Adapter (B14 for Reflux Divider Head)
 RR139360 - 3 x Pilot Boss Head - 22-35mm, 8-12mm
 RR139372 - 4-Prong Large Clamp - 10mm rod, 30-80mm
 RR139376 - Lower Support Ring - 10mm rod, 76mm ID
 RR139374 - Universal Clamp Cork Jaws - 10mm rod, 0-80mm

Note: A suitable receiver flask/s RR139324/6/8/30 is required to complete this kit.



RR239203 - Pilot Reflux Divider Kit with Vapour Temperature Probe + Spherical Joint

As above except for following substitutions

RR139422 - Reflux Divider Head B34 to S41 Spherical + GL18 fittings + B14 temp port
 RR139400 - Large Double Coil Condenser 60mm S41 Spherical to B34 + GL18 fittings

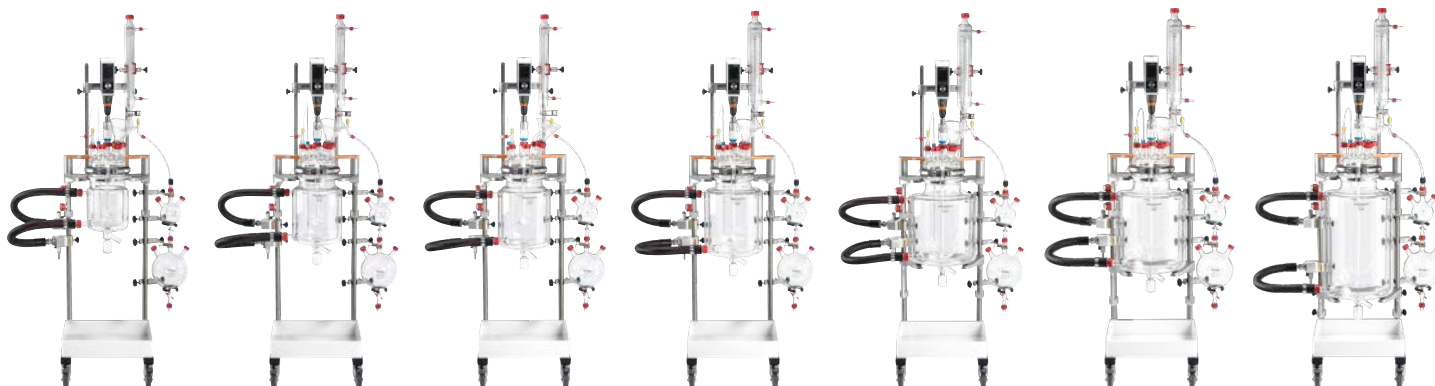
Note: A suitable receiver flask/s RR139324/6/8/30 is required to complete this kit.



Reactor-Ready Pilot with
 RR239202 Reflux Divider Kit and two
 RR139326 1000 ml Receiver Flasks



RR139326
 1000 ml Receiver
 Flask





8 port PTFE Lid with PTFE sockets

Glass Vessel Lids

Precision ground lids with 6 or 7 ports - custom designs available

DN200 Glass Lids fit all Vessel sizes

- DN200 lids with Rodaviss conical ground glass joints. Custom lid designs available on request.
- Rodaviss joints are grease free, will not jam and are interchangeable with ordinary 1-in-10 B and A length tapered conical joints.

RR236000 - 6 Neck DN200 Lid

- 1 x B34 central vertical - stirrer
- 1 x B19 side vertical - probe
- 1 x B24 side vertical - gas purge
- 1 x B29 side vertical - dropping funnel, bubbler
- 1 x B34 side vertical - condenser and reflux
- 1 x B45 side angled - solid additions



RR236002 - 7 Neck DN200 Lid

- 1 x B34 central vertical - stirrer
- 1 x B19 side vertical - probe
- 1 x B24 side vertical - gas purge
- 1 x B29 side vertical - dropping funnel, bubbler
- 2 x B34 side vertical - condenser and reflux
- 1 x B45 side angled - solid additions



PTFE Vessel Lids

Ideal for use with PAT and test probes

The benefits of PTFE lids are:

- Removable PTFE sockets and compression fittings allow for maximum flexibility, simply unscrew and change the fitting to suit your set-up.
- More suitable for PAT and test probes than equivalent glass lids.
- Allows for more ports in a smaller space (8 rather than 6 or 7).
- More robust and less likely to break than glass.
- Less dead space at top of vessel.

Wide range of removable sockets and compression fittings

- Rodaviss 1:10 tapered sockets, allow for better sealing and less need for supports - sizes include: B19, B24, B29, B34 and B45.
- Compression fittings include: 8, 12, 14, 16 and 19 mm bore.

RR136200 - 8 port with PTFE sockets

- 1 x B34 central vertical (1½" NPT)
- 1 x B19 side vertical (¾" NPT)
- 1 x B24 side vertical (¾" NPT)
- 1 x B29 side vertical (1" NPT)
- 1 x B29 side vertical (1½" NPT)
- 1 x B34 side vertical (1½" NPT)
- 1 x B34 side 15° angled (1½" NPT)
- 1 x B45 side 10°x10° compound (1½" NPT)



RR136210 - 8 port without sockets

- 1 x 1½" NPT central vertical
- 1 x 1½" NPT side 15° angled
- 1 x 1½" NPT side 10°x10° compound
- 2 x 1½" NPT side vertical
- 2 x ¾" NPT side vertical
- 1 x 1" NPT side vertical



Clamps and Supports

A range of clamps, supports and boss heads to hold your pilot glassware

* Indicates an item is available in other sizes or styles.



RR139372
4-Prong Large
Clamp



RR139366*
Chain Clamp



RR139364
Rubber Belt Clamp



RR139360
Pilot Boss Head



RR139362
Rod Extender



RR139374
Universal Clamp
Cork Jaws



RR139376
Lower Support
Ring

Accessory Glassware

We have been manufacturing scientific glassware for over 60 years. If you don't see what you want, please let us know and we will be happy to quote for a custom option.



RR139300*
Large Double Coil
Rodaviss Condenser,
B34



RR139402*
Large Double Coil
Condenser 85mm S41 to
B34 + GL18 fittings
(includes Metal Clip
& O-Ring)



RR139304*
Graduated Dropping
Funnel, Equalising Arm,
2000ml, B29



RR139314*
Oil Bubbler,
Type 1, B29



RR139081*
PTFE Flexible
Bellows, B29



RR139316*
Solid Additions Funnel,
B45 with extended tube



RR139326*
1000ml Receiver Flask
3 x B24 Socket

* Indicates an item
is available in other
sizes or styles.



RR139424
Metal Clip for S41
Spherical Joints



RR139426
FEP O-Ring for S41
Spherical Joints



RR139025*
Gas Purge
Adapter, B24



RR139420
Reflux Divider Head
B34 to S41
+ GL18 fitting



RR139422
Reflux Divider Head
B34 to S41
+ GL18 fittings
+ B14 temp port



RR139320
Reflux Divider Head
B34 + GL18 fitting



RR139322
Reflux Divider Head
B34 + GL18 fittings
+ B14 temp port



RR139310*
Swan Neck Adapter
Vertical B29 to
Vertical B29



RR139410*
Swan Neck Adapter
Vertical B29 to
Vertical S41



RR139057*
Valved Right Angled
Liquid Inlet Adapter,
B24



RR139137
Run-Off Secondary
Valve, B24 to Stopcock



RR139031*
Glass Cone
Stopper, B29



RR139091*
Adapter Rodaviss,
B24 to GL14



RR139041*
Reducing Adapter,
B29 to B19



RR139037*
Enlarging Adapter,
B29 to B34



RR139065*
PTFE Hose Adapter
B24 to 15mm ID



RR139340
Vertical Run-Off
Adapter B24
to Plain Stem



RR139011*
Right Angle
Adapter, B29



AVA - Jacketed Lab Reactor Control

One software. Any reactor. Effortless automation.

AVA is a subscription-free, reactor controller that brings effortless automation to any jacketed lab reactor. Designed by chemists for chemists, it connects directly to circulators, stirrers, pumps and sensors - enabling full control and data logging from a single interface. Powerful, intuitive and affordable, AVA simplifies complex chemistry and delivers precise, safe and reproducible results.



One software.
Two platforms.



Control any Jacketed Lab Reactor

Subscription free automation

Connect multiple devices from leading manufacturers



Control devices directly via the apparatus window



AVA Pad Apparatus Window

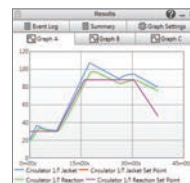


Create detailed reports and share data



AVA PC Report Wizard

View process data in real-time graphs



AVA PC Graph Window

Schedule window to create experiment profiles



AVA Pad Schedule Window

Connect up to 16 Devices

Supports leading manufacturers

radleys

huber

heidolph

LAUDA

IKA®

WATSON MARLOW Fluid Technology Solutions

HA Harvard Apparatus

Julabo

SARTORIUS

KMF

TELEDYNE

VACUUBRAND®

OHAUS®

Knick

KNAUER

and more...

Why choose AVA to automate your Jacketed Lab Reactor?



Boosts productivity by reducing manual tasks



Enhances process safety and control



Enables precise, repeatable reaction control



Control multi-device reactions effortlessly



Proven success worldwide



Expert support at every step

AVA - One software. Two platforms.

AVA Pad Reactor Controller

Compact all-in-one controller

Suitable for

- Single Reactor
- Dual Reactor



10" Touchscreen

- Graphical display
- Pinch zoom
- Supports USB keyboard & mouse

User Management

- Multiple user profiles
- Password protection per user

Integrated connections

- RS232 x 4
- Temp sensor ports x 2
- USB x 2
- Ethernet x 1 & HDMI Output x 1

Cat No	RR20230
Device Connectivity	Integrated
User Interface	10" Touchscreen
Multiple Reactor Control	No



Subscription
FREE
Software



Fumehood compatible with two mounting options

- Control Pad Benchtop Stand
- Control Pad Support Rod



AVA PC Reaction Control Software

PC based software

Suitable for

- Single Reactor
- Dual Reactor
- Multiple reactors (up to 4)



Laptop PC Controller

- Full keyboard
- 16" LCD Display

User Management

- Single user software
- Single password protection

Separate Data Hub connections

- RS232 Ports x 4
- Temp sensor ports x 2
- Ethernet x 1

Cat No	RR20308
Device Connectivity	Via separate hub
User Interface	Laptop PC
Multiple Reactor Control	Yes - up to 4



6 simple steps



1

Select your platform



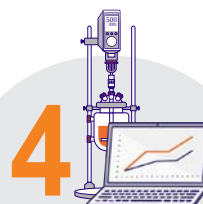
2

Connect your devices



3

Configure your system



4

Control your reactor



5

Collect your data



6

Share your results

How to order Reactor-Ready Pilot

1. Select the Reactor-Ready Pilot Core.



2. Choose the lid you require (custom options available).



3. Choose the Vessel Kits you need.



4. Select the Lower Support Plate if using the 30, 35 or 50 litre vessels



5. Select the overhead stirrer you need.



6. If you need a thermoregulator, hoses, hose adapters, thermofluid or accessory glassware, then select from the accessory list.



7. For added safety, precision and reproducibility, add AVA Software.



Reactor-Ready Pilot in detail

It is the attention to detail and wealth of innovative features that make Reactor-Ready Pilot so much better



Choice of 6 and 7 port glass and 8 port PTFE DN200 lids.

FEP encapsulated O-ring and unique, self-centering PTFE collar to offer a leak-tight seal between the vessel and lid.



Hose Ties allow the insulated hoses to be conveniently sealed and secured when not in use.

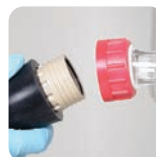
Venting stopcock on the outlet manifold allows quick and easy draining of the thermofluid during vessel exchange.

Thermofluid may be drained back to the thermoregulator or decanted via a fluid drain tap on the inlet manifold.



Insulated, 20 mm bore vessel-to-manifold hoses are supported by the manifold and frame; minimising stress on the glass sidearms.

Quick release PEEK coupling allows rapid exchange of vessels without the use of tools. Operates over the thermofluid temperature range -70 °C to +230 °C.

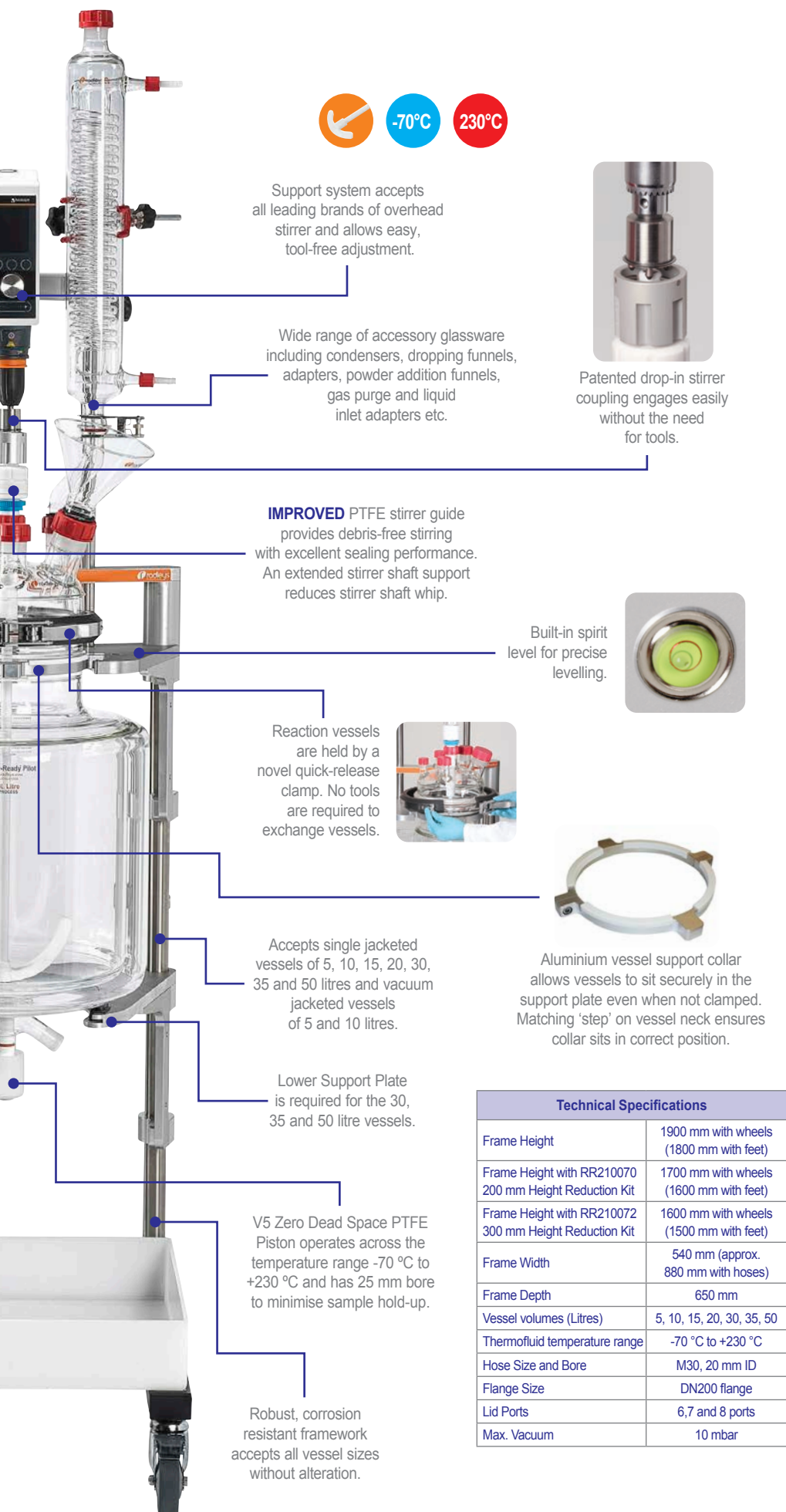


Comes as standard with both locking wheels and feet, allowing the system to be fixed or mobile.



Optional Polypropylene drip trays, 7, 22, 45 & 55 litre options.

Stirrer support I-beam allows the stirrer drive to be raised and lowered with ease.



Reactor-Ready Pilot Core System includes

- Base frame, support rods, vessel clamp, I-beam and stirrer support bosses.
- Vessel to manifold insulated hoses with quick-release connections.
- Lower inlet manifold with drain.
- Upper outlet manifold with vent.
- PTFE Stirrer guide.
- Stainless steel stirrer drive coupling.
- One aluminium vessel support collar.
- FEP flange O-ring and PTFE centering collar.



Reaction Vessel Kits make ordering vessels simple

These Vessel Kits include the vessel and accessories you need to get started. The Pt100 probe and turbine stirrer included in each kit are matched to the vessel size. Each Vessel Kit includes:

- Reaction Vessel with PTFE Piston.
- Sidearm Couplings.
- Pt100 PTFE Temperature Probe with LEMO Connector.
- PTFE Temperature Probe Adapter.
- PTFE Turbine Stirrer.





Expert 200

Expert 400



Ultimate 200

Ultimate 400

Hei-Torque Overhead Stirrers - *powerful stirring*

The powerful Hei-Torque range can accomplish the most demanding mixing tasks whilst providing the highest safety

Includes
3 YEAR
Warranty

Stirrer models include

- Powerful stirring from 10 to 2000 rpm.*
- Available with basic (Expert) or advanced (Ultimate) features, and a choice of 200 or 400 Ncm torque.
- Intuitive touch panel for easy operation, safe start and stop to avoid accidental start-up.
- With the Ultimate range: set speed limit, adjustable acceleration, set a torque limit.
- Innovative Quick-chuck for immediate and convenient 'one-hand' impeller changes, without tools.

*The maximum recommended speed for Reactor-Ready Pilot is 500 rpm for continuous use, and 800 rpm for short bursts

	Hei-Torque Expert 200	Hei-Torque Expert 400	Hei-Torque Ultimate 200	Hei-Torque Ultimate 400
Power rating, motor input/output (W)	120/80	150/90	120/80	150/90
Number of gears	1	2	1	2
Speed range (rpm)	10 to 2000	10 to 400 and 200 to 2000	10 to 2000	10 to 400 and 200 to 2000
Speed indicator	digital monochrome 2.4"	digital monochrome 2.4"	digital colour 3.2"	digital colour 3.2"
Speed control	electronic	electronic	electronic	electronic
Torque, maximum (Ncm)	200	400	200	400
Torque indicator (Ncm)	symbol	symbol	precise value	precise value
Viscosity up to (mPa s)	100,000	250,000	100,000	250,000
Stirring cap. H ₂ O max. (L)	50	100	50	100
Shaft diameter, max. (mm)	2.5 - 10.5	2.5 - 10.5	2.5 - 10.5	2.5 - 10.5
Dimensions (W x H x D) (mm)	86 x 350 x 247	93 x 350 x 247	86 x 350 x 247	93 x 350 x 247
Weight (kg)	5.1	5.3	5.1	5.3
Set speed limit, Torque limit, Adjustable acceleration	No	No	Yes	Yes
Analogue/digital interface	No	No	USB & RS232	USB & RS232



Huber Unistat 610

Thermoregulators and Circulators

Which Thermoregulator should you choose?

- Radleys are a Huber distribution and service partner, so we recommend the Huber range of thermoregulators, circulators, chillers and waterbaths. However Reactor-Ready Pilot is compatible with all leading brands of thermoregulators including Julabo, Lauda, Polyscience, Haake, etc.
- Also available are hoses, adapters, temperature probes and thermofluid for all applications.

Description	Temp Range °C	Heating Power (kW)	Cooling Power 0°C (kW)	Application Examples		
Unistat Tango	-45 to +250	1.5	0.7	5 Litre	Cool 20 °C to 0 °C in < 30 minutes	Heat 20 °C to 120 °C < 1hr
Unistat 405	-45 to +250	1.5	1.0	5 Litre	Cool 20 °C to 0 °C in < 20 minutes	Heat 20 °C to 60 °C < 25 minutes
				10 Litre	Cool 20 °C to 0 °C in < 35 minutes	Heat 20 °C to 60 °C < 70 minutes
Unistat 425	-45 to +250	2.0	2.5	5 Litre	Cool 20 °C to -20 °C in < 20 minutes	Heat 20 °C to 180 °C < 30 minutes
				20 Litre	Cool +60 °C to 20 °C in < 30 minutes	Heat 20 °C to 60 °C < 20 minutes
Unistat 510w	-40 to +250	6.0	5.3	20 Litre	Cool 20 °C to -40 °C in < 80 minutes	Heat -30 °C to 20 °C < 20 minutes
Unistat 610w	-60 to +200	6.0	7.0	20 Litre	Cool 180 °C to 20 °C in < 40 minutes	Heat 20 °C to 180 °C < 60 minutes
Unistat 825w	-60 to +200	3.0	2.4	10 Litre	Cool 20 °C to -60 °C in < 60 minutes	Heat 20 °C to 60 °C < 30 minutes
				10 Litre	Cool 20 °C to -75 °C in < 120 minutes	Heat 20 °C to 180 °C < 100 minutes

The above applications are intended as a guide to the relative performance of each Huber Thermoregulator with a range of vessel sizes and are not a prediction of actual performance. For comprehensive advice on thermoregulator selection please contact your local Radleys distributor.

How to order Reactor-Ready Pilot

Order in 7 simple steps

1. Select the Reactor-Ready Pilot Core: RR210000.
2. Choose the lid you require, glass or PTFE.
3. Choose the Vessel Kit or Kits you require by selecting the vessel volume and style.
4. Select the Lower Support Plate if using the 30, 35 or 50 litre vessels.
5. Select the overhead stirrer you require.
6. If you need a thermoregulator, hoses, hose adapters, thermofluid or accessory glassware, then select from the accessory list.
7. For added safety, precision and reproducibility, add AVA Software.

Need help
with ordering?
Call +44 1799 513320
to discuss your application
with our technical
specialists

Reactor-Ready Pilot Core System

RR210000

Reactor-Ready Pilot Core System includes:

- Base frame, support rods, vessel clamp, I-beam and stirrer support bosses.
- Vessel to manifold insulated hoses with quick-release connections.
- Lower inlet manifold with drain.
- Upper outlet manifold with vent.
- PTFE Stirrer guide.
- Stainless steel stirrer drive coupling.
- One aluminium vessel support collar.
- FEP flange O-ring and PTFE centering collar.



Important: Hoses to connect Reactor-Ready Pilot to your thermoregulator are NOT included. You will require hoses with an M30x1.5 female connection or appropriate adapters. See listing for hoses, adapters and suitable thermoregulators.

Optional Pilot Core Height Reduction Kits

RR210070

Reactor-Ready Pilot Core - 200 mm Height Reduction Kit

RR210072

Reactor-Ready Pilot Core - 300 mm Height Reduction Kit

Important: 300mm kit is not compatible with 30 L, 35 L or 50 L vessels. 200mm kit is not compatible with the 50 L vessel.

Jacketed and Vacuum Jacketed Reaction Vessel Kits

- Kits include; process vessel, turbine stirrer paddle, PTFE Pt100 temp. probe with LEMO plug and PTFE temperature probe adapter.

RR220005

5L Single Jacketed Pilot Process Vessel Kit

RR220010

5L Vacuum Jacketed Pilot Process Vessel Kit

RR220015

10L Single Jacketed Pilot Process Vessel Kit

RR220020

10L Vacuum Jacketed Pilot Process Vessel Kit

RR220025

15L Single Jacketed Pilot Process Vessel Kit

RR220035

20L Single Jacketed Pilot Process Vessel Kit

RR220045

30L Single Jacketed Pilot Vessel Kit (must also purchase RR210002)

RR220050

35L Single Jacketed Pilot Vessel Kit (must also purchase RR210002)

RR220055

50L Single Jacketed Pilot Vessel Kit (must also purchase RR210002)



Jacketed and Vacuum Jacketed Reaction Vessels Only

RR235050

5L Single Jacketed Pilot Vessel

RR235052

5L Vacuum Jacketed Pilot Vessel

RR235100

10L Single Jacketed Pilot Vessel

RR235102

10L Vacuum Jacketed Pilot Vessel

RR235150

15L Single Jacketed Pilot Vessel

RR235200

20L Single Jacketed Pilot Vessel

RR235300

30L Single Jacketed Pilot Vessel (must also purchase RR210002)

RR235350

35L Single Jacketed Pilot Vessel (must also purchase RR210002)

RR235500

50L Single Jacketed Pilot Vessel (must also purchase RR210002)



30 to 50 L Vessel Lower Support Plate

RR210002

Reactor-Ready Pilot Lower Support Plate with Silicone Ring

RR210085

Optional - PTFE Support Ring for Lower Support Plate

RR210086

Replacement - Silicone Support Ring for Lower Support Plate



Important: Versions of RR210002 purchased before May 2025 will not be suitable for use with 50 L vessels.

Reaction Vessel Support Collar

RR210018

Pilot Vessel Support Collar

Important: One support collar is supplied with each Reactor-Ready Pilot Core. We recommend one support collar per vessel.

Glass DN200 Lids

- Choice of 6 or 7 Rodaviss glass joints.
- Custom lid designs are available on request.

RR236000

6 Neck Lid DN200 - 1xB19, 1xB24, 1xB29, 2xB34, 1xB45

RR236002

7 Neck Lid DN200 - 1xB19, 1xB24, 1xB29, 3xB34, 1xB45



PTFE DN200 Lids

RR136200

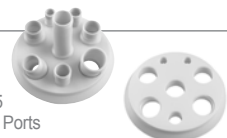
8 Neck PTFE Lid DN200 - with sockets

1 x B19, 1 x B24, 2 x B29, 3 x B34, 1 x B45

RR136210

8 Neck PTFE Lid DN200 - with 8 Threaded Ports

2 x 3/4" NPT, 1 x 1" NPT, 5 x 1 1/2" NPT



PTFE Sockets, Compression Fittings & Blanking Plugs for DN200 PTFE Lids

RR136300

Rodaviss B19 Socket Adapter (3/4" NPT)

RR136301

Rodaviss B24 Socket Adapter (3/4" NPT)

RR136302

Rodaviss B29 Socket Adapter (3/4" NPT)

RR136303

Rodaviss B34 Socket Adapter (3/4" NPT)

RR136304

Rodaviss B45 Socket Adapter (3/4" NPT)

RR136305

Rodaviss B24 Socket Adapter (1" NPT)

RR136306

Rodaviss B29 Socket Adapter (1" NPT)

RR136307

Rodaviss B34 Socket Adapter (1" NPT)

RR136308

Rodaviss B45 Socket Adapter (1" NPT)

RR136309

Rodaviss B24 Socket Adapter (1 1/2" NPT)

RR136310

Rodaviss B29 Socket Adapter (1 1/2" NPT)

RR136311

Rodaviss B34 Socket Adapter (1 1/2" NPT)

RR136313

Rodaviss B45 Socket Adapter (1 1/2" NPT)

RR136312

Reactor-Ready Pilot Central B34 Socket Adapter (1 1/2" NPT)

RR136316

8mm Bore Compression Fitting 3/4" NPT

RR136317

12mm Bore Compression Fitting 3/4" NPT

RR136318

14mm Bore Compression Fitting 3/4" NPT

RR136319

16mm Bore Compression Fitting 3/4" NPT

RR136320

19mm Bore Compression Fitting 3/4" NPT

RR136321

8mm Bore Compression Fitting 1" NPT

RR136322

12mm Bore Compression Fitting 1" NPT

RR136323

14mm Bore Compression Fitting 1" NPT

RR136324

16mm Bore Compression Fitting 1" NPT

RR136325

19mm Bore Compression Fitting 1" NPT

RR136326

25mm Bore Compression Fitting 1" NPT

RR136327

PTFE Blanking Plug 3/4" NPT

RR136328

PTFE Blanking Plug 3/4" NPT

RR136329

PTFE Blanking Plug 1" NPT

RR136330

PTFE Blanking Plug 1 1/2" NPT

PTFE Pt100 Temperature Probes and Adapters

RR145000

Pt100 PTFE Temp. Probe 9mm + Lemo Plug - 5L to 10L Vessels

RR146000

Pt100 PTFE Temp. Probe 9mm + Lemo Plug - 15L to 35L Vessels

RR146050

Pt100 PTFE Temp. Probe 9mm + Lemo Plug - 50L Vessels

RR140015

PTFE Temperature Probe Adapter - 9mm

PTFE Baffles + PTFE Probe Baffles

RR257000

PTFE Baffle, 16mm OD Shaft, 35mm x 600mm long

RR257002

PTFE Baffle, 16mm OD Shaft, 35mm x 700mm long

RR257003

PTFE Baffle, 16mm OD Shaft, 35mm x 850mm long

RR257004

Pt100 PTFE Baffle Probe + Lemo, 16mm OD Shaft, 35mm x 600mm long

RR257006

Pt100 PTFE Baffle Probe + Lemo, 16mm OD Shaft, 35mm x 700mm long

RR257007

Pt100 PTFE Baffle Probe + Lemo, 16mm OD Shaft, 35mm x 850mm long

RR257008

B24 to 16mm PTFE Compression Fitting (for 600mm & 700mm baffle only)

RR257010

B29 to 16mm PTFE Compression Fitting

RR257012

B34 to 16mm PTFE Compression Fitting

Hei-Torque Overhead Stirrers

501-62010-00	Hei-Torque Expert 200
501-62020-00	Hei-Torque Ultimate 200 - RS232 & USB
501-64010-00	Hei-Torque Expert 400
501-64020-00	Hei-Torque Ultimate 400 - RS232 & USB
14-007-040-72	RS232 Interface Cable - 9 pin to 9 pin



Stirrer Guides and PTFE Stirrer Shafts

RR210090	V2 Stirrer Guide Assembly B34 16mm
RR121132	Stirrer Guide Assembly B34 16mm (while stock lasts)
RR258051	Anchor PTFE Stirrer Shaft - 5L Pilot Vessels
RR258052	Retreat Curve PTFE Stirrer Shaft - 5L Pilot Vessels
RR258053	Turbine PTFE Stirrer Shaft - 5L Pilot Vessels
RR258101	Anchor PTFE Stirrer Shaft - 10L Pilot Vessels
RR258102	Retreat Curve PTFE Stirrer Shaft - 10L Pilot Vessels
RR258103	Turbine PTFE Stirrer Shaft - 10L Pilot Vessels
RR258151	Anchor PTFE Stirrer Shaft - 15L Pilot Vessels
RR258152	Retreat Curve PTFE Stirrer Shaft - 15L Pilot Vessels
RR258153	Turbine PTFE Stirrer Shaft - 15L Pilot Vessels
RR258201	Anchor PTFE Stirrer Shaft - 20L Pilot Vessels
RR258202	Retreat Curve PTFE Stirrer Shaft - 20L Pilot Vessels
RR258203	Turbine PTFE Stirrer Shaft - 20L Pilot Vessels
RR258306	Anchor PTFE Stirrer Shaft - 30L Pilot Vessels
RR258307	Retreat Curve PTFE Stirrer Shaft - 30L Pilot Vessels
RR258308	Turbine PTFE Stirrer Shaft - 30L Pilot Vessels
RR258351	Anchor PTFE Stirrer Shaft - 35L Pilot Vessels
RR258352	Retreat Curve PTFE Stirrer Shaft - 35L Pilot Vessels
RR258353	Turbine PTFE Stirrer Shaft - 35L Pilot Vessels
RR258501	Anchor PTFE Stirrer Shaft - 50L Pilot Vessels
RR258502	Retreat Curve PTFE Stirrer Shaft - 50L Pilot Vessels
RR258503	Turbine PTFE Stirrer Shaft - 50L Pilot Vessels
RR258300	Adjustable PTFE 4 Blade 45 Angle Rotor 16mm OD 100mm Rotor
RR258302	Adjustable PTFE 2 Blade Vertical Rotor 16mm OD 100mm Rotor



Drip Trays, Clamps & Supports

RR210062	Drip Tray PP 7L Capacity
RR210064	Drip Tray PP 22L Capacity
RR210066	Drip Tray PP 45L Capacity
RR210068	Drip Tray PP 55L Capacity (extra wide -740mm)
RR139360	Pilot Boss Head - 22-35mm, 8-12mm
RR139362	Rod Extender - 10mm, 100mm long, for 10mm rods
RR139364	Rubber Belt Clamp - 10mm rod, 60-170mm
RR139366	Chain Clamp - 10mm rod, 40-120mm
RR139368	Chain Clamp - 10mm rod, 80-150mm
RR139370	Chain Clamp - 10mm rod, 100-170mm
RR139372	4-Prong Large Clamp - 10mm rod, 30-80mm
RR139374	Universal Clamp Cork Jaws - 10mm rod, 0-80mm
RR139376	Lower Support Ring - 10mm rod, 76mm ID



Replacement 25mm Piston

RR166070	Piston 25mm for Single and Vacuum Jacketed Vessel
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General Maintenance Accessories

RR210100	Reactor-Ready Pilot Maintenance Kit (includes all items listed below) <i>Does not include Chemraz O-rings or 25mm Piston</i>
RR121027	Oil Wipe for Support Rods, pk 10
RR121136	Stirrer Guide Bearing Seal B34, 16mm
RR121138	Stirrer Guide Ferrule and Shaft Seal B34, 16mm
RR121071	23mm Viton O-Rings for Quick Release Hose Coupling, pk 2
RR210050	34mm Viton O-Rings for Quick Release Hose Coupling - NW20, pk 2
RR210022	FEP Encapsulated Silicone Vessel O-ring - 200mm
RR166104	Replacement 25mm Piston Top O-Ring, pk 2
RR166106	Replacement 25mm Piston Middle O-Ring

Important: For temperatures above 150 °C we recommend the use of high performance Chemraz piston O-rings to prevent possible weeping. Chemraz O-rings are suitable for temperatures from 0 °C to +230 °C and should not be used below 0 °C.

Chemraz O-Ring

RR210074	Replacement 25mm Piston Top O-Ring Chemraz (0°C to 230°C)
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Condensers

RR139300	Large Double Coil Condenser 60mm B34 to B34 + GL18 fittings
RR139302	Large Double Coil Condenser 85mm B34 to B34 + GL18 fittings



Condensers with Spherical Joints

RR139400	Large Double Coil Condenser 60mm S41 to B34 + GL18 fittings
RR139402	Large Double Coil Condenser 85mm S41 to B34 + GL18 fittings

Spherical Joint replacement parts

RR139424	Metal Clip for S41 Spherical Joints
RR139426	FEP O-Ring for S41 Spherical Joints



Swan Neck Adapter

RR139308	Swan Neck Adapter Vertical B24 to Vertical B24
RR139310	Swan Neck Adapter Vertical B29 to Vertical B29
RR139312	Swan Neck Adapter Vertical B34 to Vertical B34



Swan Neck Adapter with Spherical Joints

RR139410	Swan Neck Adapter Vertical B29 to Vertical S41
RR139412	Swan Neck Adapter Vertical B34 to Vertical S41

Dropping Funnels

RR139017	250ml Graduated Dropping Funnel Equalising Arm B24
RR139019	500ml Graduated Dropping Funnel Equalising Arm B24
RR139021	1000ml Graduated Dropping Funnel Equalising Arm B24
RR139304	2000ml Graduated Dropping Funnel Equalising Arm B29



PTFE Flexible Bellows

RR139079	PTFE Flexible Bellows B24
RR139081	PTFE Flexible Bellows B29
RR139083	PTFE Flexible Bellows B34



Oil Bubblers

RR139051	Oil Bubbler Type 1 B24 + GL14 + fittings
RR139314	Oil Bubbler Type 1 B29 + GL14 + fittings



Solid Additions Funnels

RR139053	Solid Additions Funnel B34 (with extended tube)
RR139316	Solid Additions Funnel B45 (with extended tube)



Gas Purge Adapter

RR139025	Gas Purge Adapter B24 + GL14 + fittings
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Liquid Inlet Adapter

RR139057	Valved Right Angled Liquid Inlet Adapter B24 to GL14
RR139318	Valved Right Angled Liquid Inlet Adapter B29 to GL14



Run-Off Adapter and Valve

RR139340	Vertical Run-Off Adapter B24 to Plain Stem
RR139137	Run-Off Secondary Valve, B24 to Stopcock



PTFE Hose Adapter

RR139063	PTFE Hose Adapter B19 to 12mm ID (NW12)
RR139065	PTFE Hose Adapter B24 to 15mm ID

Reflux Divider Kits

RR239200	Pilot Reflux Divider Kit
RR239201	Pilot Reflux Divider Kit + Spherical Joint
RR239202	Pilot Reflux Divider Kit with Vapour Temperature Probe
RR239203	Pilot Reflux Divider Kit with Vapour Temperature Probe + Spherical Joint

Important: See page 9 for full details of what kits include.

Reflux Divider Kit Replacement Parts

RR139320	Reflux Divider Head B34 + GL18 + fitting
RR139322	Reflux Divider Head B34 + GL18 + fitting + B14 temp probe port
RR139420	Reflux Divider Head B34 to S41 + GL18 fitting
RR139422	Reflux Divider Head B34 to S41 + GL18 fittings + B14 temp port



RR139133	Pt100 PTFE Temp. Probe (Reflux Divider Head) + 2m Cable + Lemo
RR139135	PTFE Temperature Probe Adapter (B14 for Reflux Divider Head)
RR139111	Screw Cap with Aperture GL14, pk 10
RR139113	Silicone Seal with PTFE Washer GL14, 6mm, pk 10
RR139115	Screw Cap GL14, with PTFE seal, pk 10
RR139119	Screw Cap with Aperture GL25, pk 10
RR139121	Silicone Seal with PTFE Washer GL25, 12mm, pk 10
RR139342	GL14 HT Compression Fitting for 4mm OD Tubing
RR139344	GL14 HT Compression Fitting for 6mm OD Tubing
RR139346	GL25 HT Compression Fitting for 8mm OD Tubing
RR139348	GL25 HT Compression Fitting for 10mm OD Tubing
RR139350	GL25 HT Compression Fitting for 12mm OD Tubing
RR139352	GL18 PFA Hose Connector for 10mm ID Tubing
RR139354	PTFE Tubing 10mm ID x 12mm OD - 1m length

Reflux Divider Receiver Flasks

RR139324	500ml Receiver Flask 3 x B24 Socket, + B24 Cone and Tap
RR139326	1000ml Receiver Flask 3 x B24 Socket, + B24 Cone and Tap
RR139328	2000ml Receiver Flask 3 x B24 Socket, + B24 Cone and Tap
RR139330	5000ml Receiver Flask 3 x B24 Socket, + B24 Cone and Tap



Enlarging Adapters

RR139034	Enlarging Adapter B19 to B24
RR139035	Enlarging Adapter B24 to B29
RR139036	Enlarging Adapter B19 to B29
RR139037	Enlarging Adapter B29 to B34
RR139038	Enlarging Adapter B19 to B34



Reducing Adapters

RR139039	Reducing Adapter B24 to B19
RR139041	Reducing Adapter B29 to B19
RR139043	Reducing Adapter B29 to B24
RR139045	Reducing Adapter B34 to B19
RR139047	Reducing Adapter B34 to B24
RR139049	Reducing Adapter B34 to B29



Rodaviss Joint to GL Adapters

RR139085	Adapter Rodaviss B19 to GL25
RR139332	Adapter Rodaviss B24 to GL25
RR139334	Adapter Rodaviss B29 to GL25
RR139087	Adapter Rodaviss B34 to GL25
RR139089	Adapter Rodaviss B19 to GL14
RR139091	Adapter Rodaviss B24 to GL14
RR139336	Adapter Rodaviss B29 to GL14
RR139093	Adapter Rodaviss B19 to 2 x GL14
RR139095	Adapter Rodaviss B24 to 2 x GL14
RR139338	Adapter Rodaviss B29 to 2 x GL14



AVA Software

RR20230	AVA Pad Reactor Controller
RR20308	AVA PC Reaction Control Software Kit



Huber Thermoregulators (others available)

HB1000.0053.01	Unistat Tango NR (220-240v 1~/2~ 50/60Hz)
HB1002.0059.01	Unistat 405 NR (220-240v 1~/2~ 50/60Hz)
HB1050.0059.01	Unistat 425 NR (400v 3~ 50Hz)
HB1070.0053.01	Unistat 510w NR (400v 3~ 50Hz)
HB1052.0036.01	Unistat 610w NR (400V 3~ 50Hz)
HB1079.0041.01	Unistat 825 NR (400v 3~ 50Hz)
HB1079.0042.01	Unistat 825w NR (400v 3~ 50Hz)



Thermoregulator Hoses

M24 Insulated Hose with PTFE Inner (12mm ID x 37mm OD)

HB9325	M24x1.5 x 1m Insulated PTFE Hose	-60 °C to +260 °C
HB9326	M24x1.5 x 1.5m Insulated PTFE Hose	-60 °C to +260 °C
HB9327	M24x1.5 x 2m Insulated PTFE Hose	-60 °C to +260 °C
HB9328	M24x1.5 x 3m Insulated PTFE Hose	-60 °C to +260 °C

M30 Insulated Hose with PTFE Inner (20mm ID x 44mm OD)

HB9612	M30x1.5 x 1m Insulated PTFE Hose	-60 °C to +260 °C
HB9613	M30x1.5 x 1.5m Insulated PTFE Hose	-60 °C to +260 °C
HB9614	M30x1.5 x 2m Insulated PTFE Hose	-60 °C to +260 °C
HB9615	M30x1.5 x 3m Insulated PTFE Hose	-60 °C to +260 °C

M24 Insulated Hose with Metal Inner (12mm ID x 44mm OD)

HB9274	M24x1.5 x 1m Insulated Metal Hose	-100 °C to +350 °C
HB9275	M24x1.5 x 1.5m Insulated Metal Hose	-100 °C to +350 °C
HB9276	M24x1.5 x 2m Insulated Metal Hose	-100 °C to +350 °C
HB9277	M24x1.5 x 3m Insulated Metal Hose	-100 °C to +350 °C

M30 Insulated Hose with Metal Inner (20mm ID x 56mm OD)

HB6426	M30x1.5 x 1m Insulated Metal Hose	-100 °C to +350 °C
HB6386	M30x1.5 x 1.5m Insulated Metal Hose	-100 °C to +350 °C
HB6427	M30x1.5 x 2m Insulated Metal Hose	-100 °C to +350 °C
HB6428	M30x1.5 x 3m Insulated Metal Hose	-100 °C to +350 °C

M24 Adapters

HB9268	M24x1.5 Male to M30x1.5 Female Adapter
HB6723	M24x1.5 Female to M30x1.5 Male Adapter
HB9256	M24x1.5 90 degree Adapter
HB12634	M24x1.5 Nut
HB9471	M24x1.5 Hose Connector NW12
HB9236	M24x1.5 Isolating Ball Valve

Thermofluid

HB6161	SiOil M20.195/235.20, 5 Litre	-20 °C to +235 °C*
HB6162	SiOil M20.195/235.20, 10 Litre	-20 °C to +235 °C*
HB6163	SiOil M40.165/220.10, 5 Litre	-40 °C to +220 °C*
HB6164	SiOil M40.165/220.10, 10 Litre	-40 °C to +220 °C*
HB6165	SiOil M60.115/200.05, 5 Litre	-60 °C to +200 °C*
HB6166	SiOil M60.115/200.05, 10 Litre	-60 °C to +200 °C*
HB6479	DW-Therm M90.200.02, 10 Litre	-90 °C to +200 °C

Important: * Indicates maximum thermofluid temperature in sealed Unistat system only. Furthermore DW-Therm can only be used above 170 °C with inert gas.

Right Angle Adapter

RR139011	Right Angle Adapter B29 + GL14 + PTFE fittings
RR139012	Right Angle Adapter B34 + GL14 + PTFE fittings



Glass Cone Stoppers

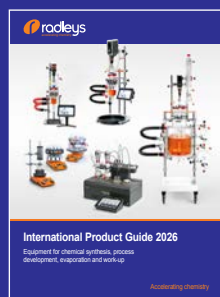
RR139027	Glass Cone Stopper B19
RR139029	Glass Cone Stopper B24
RR139031	Glass Cone Stopper B29
RR139033	Glass Cone Stopper B34
RR139378	Glass Cone Stopper B45



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