

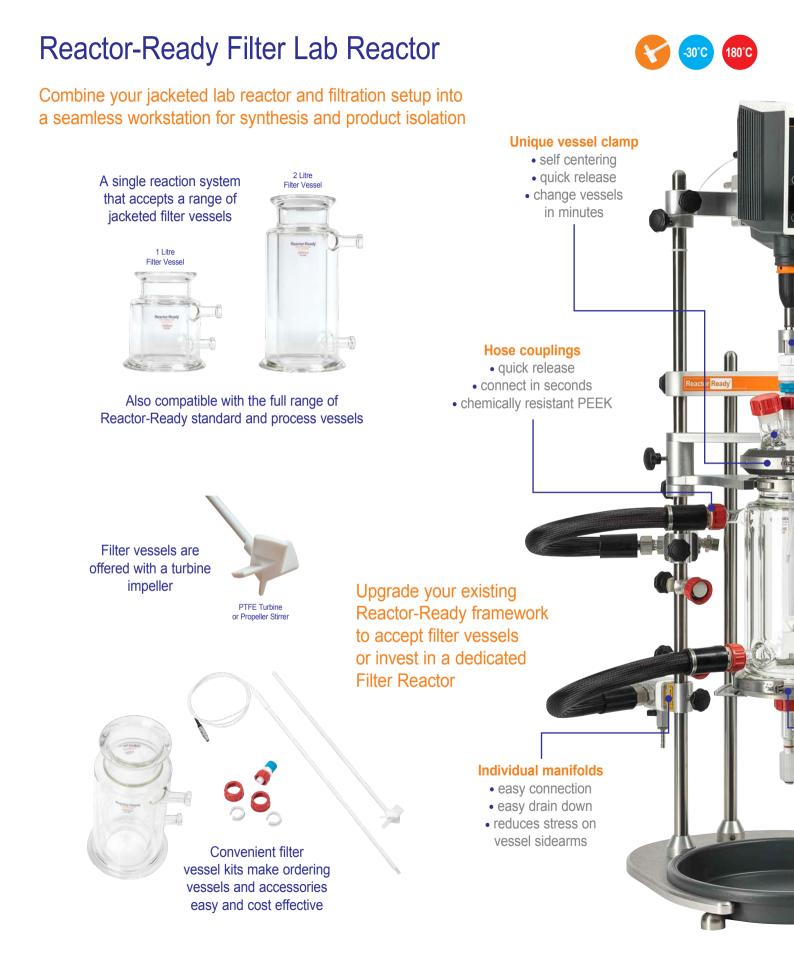


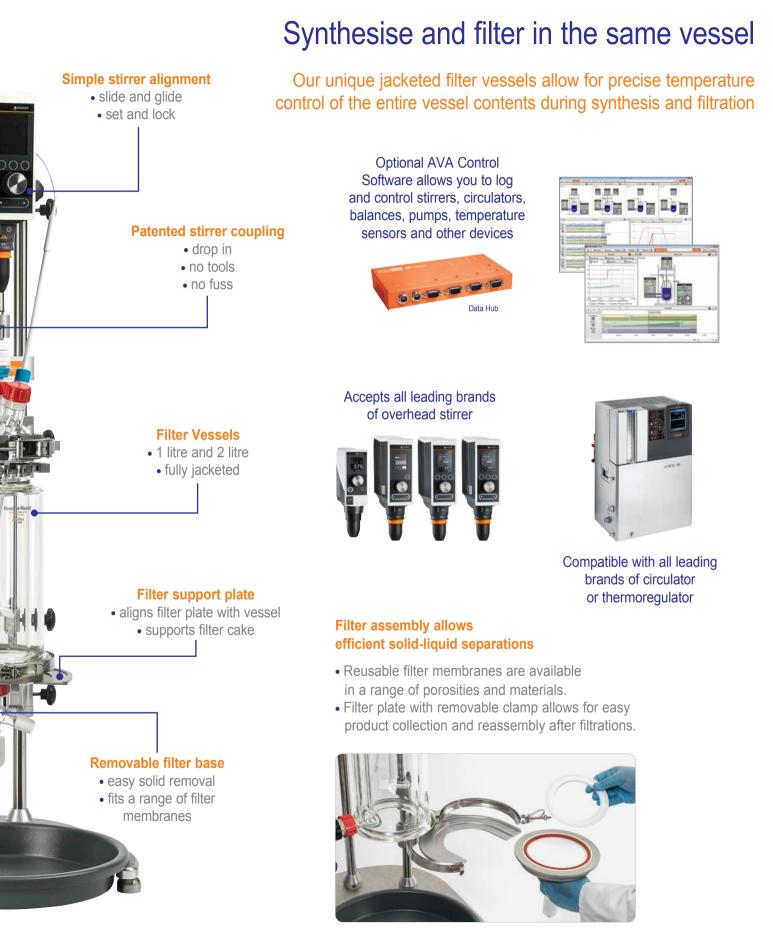
Reactor-Ready[™] Filter Lab Reactor

Reaction and filtration in a single jacketed vessel setup, ideal for crystallisation, reaction workups and product isolation



Accelerating chemistry











Stainless steel vessel support collar



Reactor-Ready Filter Lab Reactor

Stirred, temperature-controlled, contained filtrations

Reactor-Ready Filter Lab Reactor combines a jacketed lab reactor and a filter into one system. This allows users to isolate their product without having to manually transfer their material from reactor to a separate filter, saving time and reducing product losses.

You can easily upgrade an existing Reactor-Ready to a filter reactor or have a standalone filter system.



Features include

- Rapid vessel exchange with quick-release vessel clamp and hose couplings.
- Filter vessels are fully jacketed down to base for accurate temperature control.
- Range of jacketed filter vessels in 1 and 2 litre volumes.
- Temperature range of filter vessels: -30 °C to +180 °C (jacket temperature).
- Also accepts full range of Reactor-Ready Standard and Process vessels.
- Innovative hose manifolds allow easy thermofluid drain down.
- Accepts all leading brands of overhead stirrer for agitated slurrying and filtrations.
- Filter base accepts pre-cut filter membranes or you can cut your own membranes to size.
- Filter support plate aligns the base with the vessel for tool-free assembly.

Patented vessel clamp allows rapid vessel exchange without tools

- Unique 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.



Vessel support collar aids vessel loading

- Reactor-Ready uses an innovative support collar fitted to the neck of each vessel, which allows the vessels to be swapped in and out of the Reactor-Ready core like a cartridge.
- Vessel exchange is tool free and can easily be undertaken by one person.

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 (for 10 mm diameter)





Choice of PTFE stirring shafts

- · Reactor-Ready Filter Reactor is offered with a PTFE turbine stirring shaft
- · Other impeller styles are available on request

I-beam support allows the stirring motor to be positioned with ease

- I-beam allows the stirrer motor to be raised or lowered without needing to remount the stirrer.
- · Reactor-Ready accepts all leading brands of motor or air-powered overhead stirrer with support rods up to 16 mm in diameter.





PTFE Stirrer Guide

- · The Reactor-Ready's PTFE stirrer guide screws directly on to the glass lid and features a unique extended support which minimises wobble even at high speeds.
- The stirrer guide is chemically inert, gas-tight and suitable for work under vacuum.

Quick release PEEK hose couplings

- Operates over the temperature range -30 °C to +180 °C (jacket temperature).
- Quick-release, screwthread design allows rapid exchange of vessels without the use of tools.
- · Lightweight, metal-free design prevents chipping and minimises strain on the glass fitting.
- All hoses have a 12 mm ID, maximising thermofluid flow and heating/cooling performance.

Hose manifolds allow easy thermofluid drain down

- The inlet and outlet hoses from the Reactor-Ready vessel connect to manifolds attached to the support rod. These manifolds serve two important functions:
 - a. Support the hoses running from the vessel, thereby eliminating stress on the glass sidearms.
 - b. Allows thermofluid drain-down, which provides a quick and clean method of removing the thermofluid from the vessel jacket when changing vessels.
- By opening the venting valve on the (upper) outlet manifold, thermofluid drains from the vessel back to the thermoregulator under gravity.
- · Opening the drain tap on the (lower) inlet manifold allows drainage to an external reservoir.

Filter assembly is quick and easy

- 1. Aluminium filter plate cup supports your choice of PTFE or PEEK filter plate, giving wide solvent and temperature compatibility.
- 2. Removable 15 mm bore glass bottom outlet valve allows for easy cleaning.
- 3. Sintered glass membrane support prevents filter media from being damaged during filtrations.
- 4. Pre-cut filter membranes are available in a selection of materials and porosities.
- 5. Filter kits include a Silicone (-30 °C to +180 °C) and Viton (-20 °C to +180 °C) O-ring.
- 6. Gasket (available in PTFE or PEEK) combines with the O-ring to ensure efficient sealing.
- The swivel aluminium filter plate support allows for simple alignment of filter with 7. the vessel and supports the filter plate and filter cake even when the clamp is unlocked.
- Filter clamp design allows the filter assembly to be clamped to the vessel lower flange with ease. 8
- Vessel and filter assembly exchange is tool free and can be undertaken in minutes. 9.



















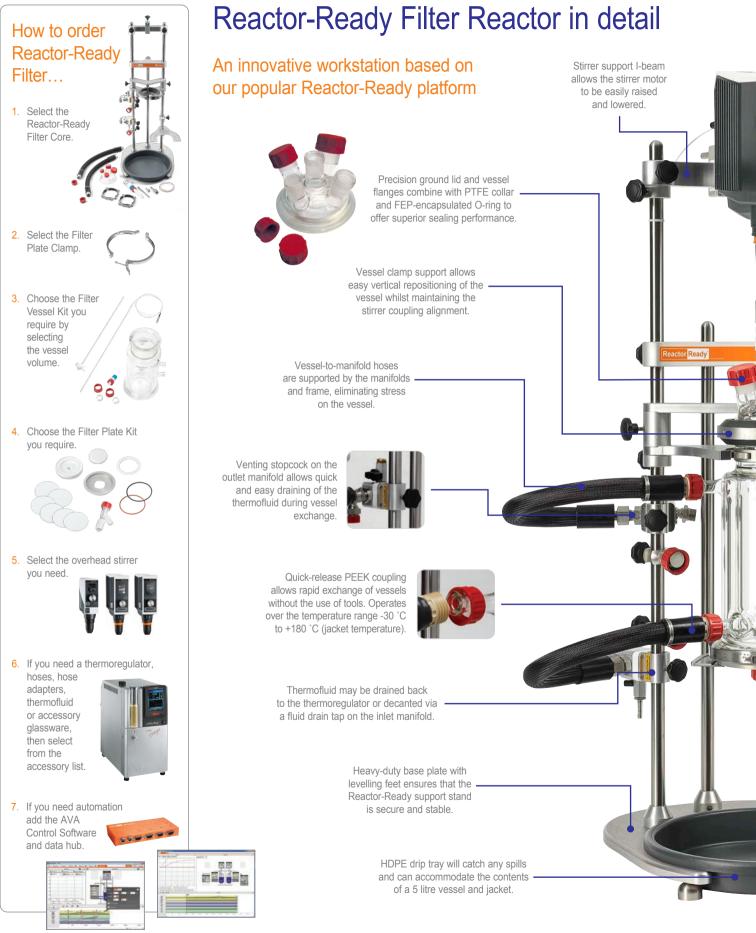




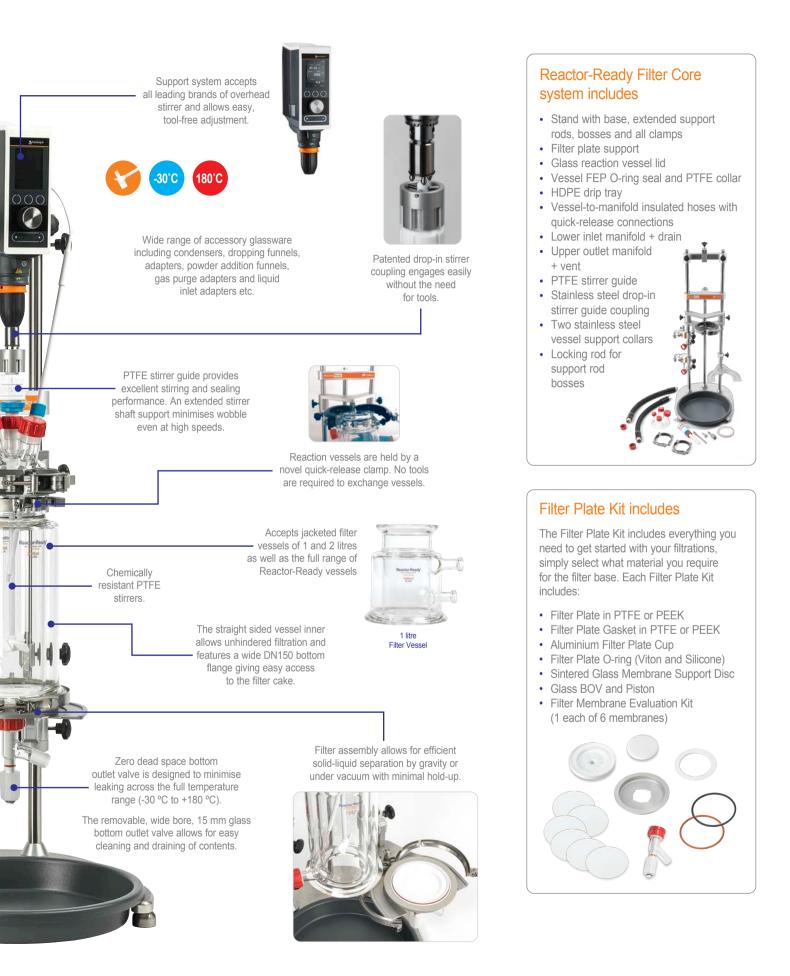








Radleys Shire Hill, Saffron Walden, Essex, CB11 3AZ. United Kingdom







2 litre Filter Vesse





Jacketed	glass	filter	vessels
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Fully jacketed glass filter vessels for precise temperature controlled filtrations

Features include

- Precision engineered borosilicate glass vessels feature a jacket design that extends right down to the filter plate for precise temperature control of your entire vessel contents.
- The upper DN100 polished flat lid flange combines with a FEP-encapsulated O-ring and PTFE collar to offer a leak-tight seal between the vessel and lid.
- The straight sided vessel inner allows unhindered filtration and features a wide DN150 bottom flange giving easy access to the filter cake.

Glass vessel lids

- DN100 5 neck glass lid fits all filter vessel sizes and standard (non-filter) Reactor-Ready reaction vessels.
- DN100 lid with 5 x Rodaviss, grease-free, safety joints. B24 centre, B34, B29, B24 and B19 side joints.
- Rodaviss glass sockets will accept any glassware with traditional A, B or C length conical cones.

PTFE vessel lids

- DN100 7 neck PTFE lids fits all filter vessel sizes and standard (non-filter) Reactor-Ready reaction vessels.
- More robust and less likely to break than glass.
- Ideal for use with analytical probes.
- Lids accept a range of removable Rodaviss sockets and compression fittings.
- · Rodaviss PTFE sockets will accept any glassware with traditional A, B or C length conical cones.

	1 litre Filter Vessel	2 litre Filter Vessel
Cat No. (Reaction Vessel Only)	RR171100	RR171200
Cat No. (Reaction Vessel Kit)	RR170100	RR170200
Nominal Capacity	1 litre	2 litre
Total Working Volume	1.1 litres	2.2 litres
Internal Diameter	100 mm	100 mm
External Jacket Diameter	155 mm	155 mm
Jacketed Height	145 mm	285 mm
Total Vessel Height	205 mm	345 mm
Thermofluid Jacket Volume	0.94 litres	1.9 litres
Heat Transfer Area	0.05 m ²	0.1 m ²
Lid Flange (upper)	DN100	DN100
Base Flange (lower)	DN150	DN150
Sidearm	20 mm ID	20 mm ID

Filter vessel kits

Filter vessel kits make ordering vessels and accessories simple and more cost effective

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:

- Filter vessel
- PTFE turbine stirrer
- Sidearm couplings
- Pt100 PTFE temperature probe with LEMO Connector
- PTFE temperature probe adapter



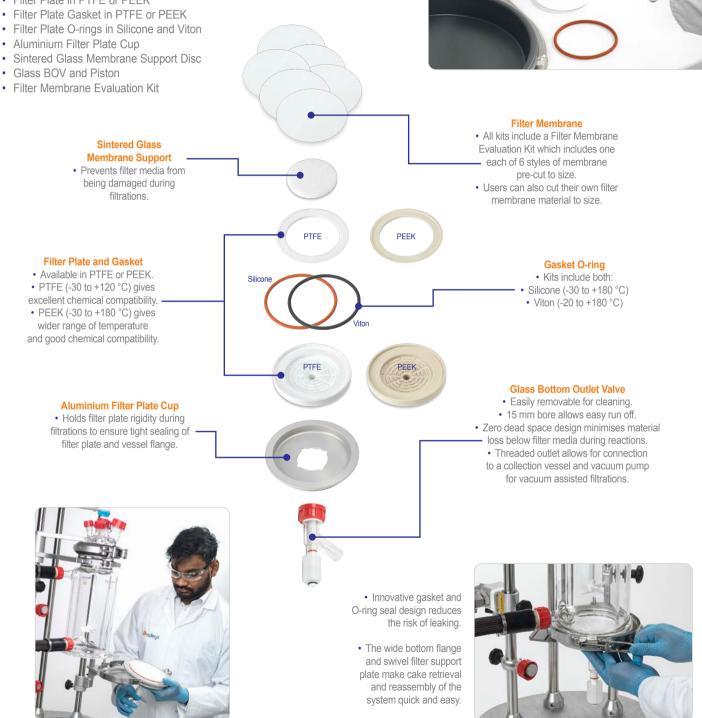
Filter plate assembly

The Reactor-Ready filter plate assembly enables efficient filtrations with easy solid recovery

Filter Plate Kits include:

The Filter Plate Kit includes everything you need to get started with your filtrations, simply select the materials you require for the filter assembly.

• Filter Plate in PTFE or PEEK





Radleys Shire Hill, Saffron Walden, Essex, CB11 3AZ. United Kingdom

Hei-Torque overhead stirrers

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

Stirrer models include

- Powerful stirring from 10 to 2000 rpm (Max. recommended speed with Reactor-Ready is 500 rpm).
- Available with basic (Expert) or advanced (Ultimate) features, and a choice of up to 40, 200 or 400 Ncm torque.
- Intuitive control panel for easy operation, safe start and stop to avoid accidental start-up.
- Ultimate range features: set speed limit, adjustable acceleration, set a torque limit.
- Unique Quick-chuck for immediate and convenient 'one-hand' impeller changes, without tools.

	Hei-Torque Core	Hei-Torque Expert 200	Hei-Torque Expert 400	Hei-Torque Ultimate 200	Hei-Torque Ultimate 400
Power rating, motor input/output (W)	105/75	120/80	150/90	120/80	150/90
Number of gears	1	1	2	1	2
Speed range (rpm)	20 to 2000	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"	digital monochrome 2.4"	digital monochrome 2.4"	digital colour 3.2"	digital colour 3.2"
Speed control	electronic	electronic	electronic	electronic	electronic
Torque, maximum (Ncm)	40	200	400	200	400
Torque indicator (Ncm)	symbol	symbol	symbol	precise value	precise value
Overheat protection	automatic cut-out	automatic cut-out	automatic cut-out	automatic cut-out	automatic cut-out
Viscosity up to (mPa s)	10,000	100,000	250,000	100,000	250,000
Stirring cap. H ₂ O max. (L)	25	50	100	50	100
Shaft diameter, max. (mm)	10.5	10.5	10.5	10.5	10.5
Dimensions (W x H x D) (mm)	70 x 281.5 x 195	86 x 350 x 247	93 x 350 x 247	86 x 350 x 247	93 x 350 x 247
Weight (kg)	2.3	5.1	5.3	5.1	5.3
Set speed limit, Torque limit, Adjustable acceleration	-	-	-	Yes	Yes
Analogue/digital interface	-	-	-	USB and RS232	USB and RS232

For Reactor-Ready the maximum speed is 500 rpm for continuous use for 800 rpm for short periods.

Thermoregulators/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 is compatible with all leading brands of thermoregulator including Julabo, Lauda, Polyscience, Haake and many others.
- Also available are a range of hoses, adapters, temperature probes and thermofluid for all applications.

Description	Temperature range °C	Heating power (kW)	Cooling power at 0 °C (kW)	Application Examples		
Huber	-45 °C to 200 °C	2.0	0.38	250 ml	Cool to -10 °C in <1 hr, then heat to 130 °C in <30 mins	
Ministat 230	-45 C t0 200 C	2.0	0.38	1 litre	Control at 0 °C, then heat to 100 °C in 20 mins	
Huber	-40 °C to 200 °C	1.5	1 5	0.45	500 ml	Cool to -20 °C in approx 30 mins, then heat to 150 °C in <30 mins
Petite Fleur	-40 C to 200 C		0.45	1 litre	Heat to 150 °C, then cool to 0 °C at > 2.5 K/min	
Huber	-45 °C to 250 °C	3.0	0.7	1 litre	Cool to -30 °C in <1 hr, then heat to 180 °C in <1 hr	
Unistat Tango	-45 C t0 250 C	3.0	0.7	2 litre	Heat to 180 °C, then cool to 20 °C in approx 1 hr	
Huber	15 10 1 050 10		1.0	2 litre	Cool to -20 °C in <30 mins, then heat to 100 °C in <30 mins	
Unistat 405	-45 °C to 250 °C	3.0	1.0	5 litre	Control at 20 °C, then cool to -20 °C in approx 70 mins	

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. To achieve optimum performance the use of vacuum jacketed vessels is recommended for below ambient temperature applications. For comprehensive advice on thermoregulator selection please contact your local Radleys distributor.



Huber Unistat 405



Huber Petite Fleur



Includes

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How to order Reactor-Ready Filter Reactor

- 1. Select the Reactor-Ready Filter Core: RR171000.
- 2. Select the Filter Plate Clamp.
- 3. Choose the Filter Vessel Kit you require by selecting the vessel volume. 4
 - Choose the Filter Plate Kit you require by selecting the filter base
- material you want, PEEK or PTFE
- Select the overhead stirrer you require. 5
- If you need a thermoregulator, hoses, hose adapters, thermofluid or accessory 6. glassware, then select from the accessory list opposite.
- If you need automation, add the AVA Software and Data Hub. 7

Reactor-Ready Filter Core

RR171000 Reactor-Ready Filter Core

Includes

- Stand with base, drip tray, extended support rods, bosses and all clamps
- Vessel to framework insulated hoses with quick-release connections
- Upper and lower drain-down manifolds
- PTFE stirrer guide and drop-in coupling
- RR136000 5 Neck Glass Lid
- RR121090 FEP Encapsulated Silicone Vessel O-Ring
- RR121095 PTFE Support Collar for FEP O-Ring .
- RR121048 Vessel Support Collar
- RR171002 Filter Plate Support

Important: The Filter Plate Clamp is not included and must be ordered separately.

Filter Plate Clamp

RR171004 Filter Plate Clamp - DN150

Important: Hoses to connect the Reactor-Ready framework to your thermoregulator are NOT included. You will require hoses with an M24x1.5 female connection or appropriate adapters. See opposite for hoses, adapters and suitable thermoregulators.

Important: The Filter Vessel Kits are not included with the Reactor-Ready Filter Core and must be ordered separately.

Filter Vessel Kits

1000ml Single Jacketed Filter Vessel Kit - DN150 RR170100

- Includes RR171100 - 1000ml Single Jacketed Filter Vessel - DN150
- RR171020 Turbine PTFE Stirrer Shaft 1000ml Filter Vessels
- RR141000 Temp Probe 9mm + LEMO Plug 1000ml & 2000ml Vessels
- RR140015 PTFE Temperature Probe Adapter 9mm

RR170200

2000ml Single Jacketed Filter Vessel Kit - DN150 Includes:

- RR171200 2000ml Single Jacketed Filter Vessel DN150 •
- RR171022 Turbine PTFE Stirrer Shaft 2000ml Filter Vessels
- RR141000 Temp Probe 9mm + LEMO Plug 1000ml & 2000ml Vessels
- RR140015 PTFE Temperature Probe Adapter 9mm



To order kit components individually please refer to below:

Filter Vessels Only

RR171100	1000ml Single Jacketed Filter Vessel - DN150
RR171200	2000ml Single Jacketed Filter Vessel - DN150

PTFE Impellers (for Filter Vessels)

RR171020 Turbine PTFE Stirrer Shaft - 1000ml Filter Vessels RR171022 Turbine PTFE Stirrer Shaft - 2000ml Filter Vessels

PTFE Pt100 Temperature Probes and Adapters

RR141000 PTFE Temp Probe 9mm + LEMO Plug - 1000ml & 2000ml Vessels RR140015 PTFE Temperature Probe Adapter - 9mm

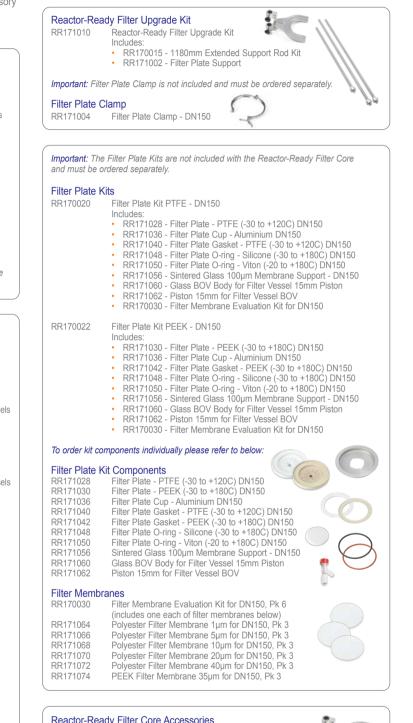
Hei-Torque Overhead Stirrers

501-60410-00	Hei-Torque Core
501-62010-00	Hei-Torque 200 Expert
501-62020-00	Hei-Torque 200 Ultimate (USB/RS232)
501-64010-00	Hei Torque 400 Expert
501-64020-00	Hei-Torque 400 Ultimate (USB/RS232)



Upgrade your existing Reactor-Ready

- 1. Select the Filter Upgrade Kit: RR171010.
- 2. Select the Filter Plate Clamp.
- 3. Choose the Filter Vessel Kit you require by selecting the vessel volume.
- Choose the Filter Plate Kit you require by selecting the filter base 4
- material you want, PEEK or PTFE
- 5. You should already have an overhead stirrer and circulator etc.



Reactor-Ready Filter Core Accessories

RR170015 Reactor-Ready - 1180mm Extended Support Rod Kit RR171002 Filter Plate Support



Important: The Vessel Support Collar IS INCLUDED with your Reactor-Ready Filter Core, however if you require a spare it can be ordered separately.

Reaction Vessel Support Collar RR121048 Vessel Support Collar



Filtrate Collection Kits RR170042 2000ml Filtrate Collection Kit Includes: Includes: • RR171602 - Filtrate Collection Vessel 2000ml • RR171606 - Bung 57mm + Hole 12mm Ø Tubing - Nat Rubber • RR139354 - PTFE Tubing 10mm ID x 12mm OD - 1m length • RR171610 - Elbow Fitting for 12mm OD Tubing - Stainless Steel • RR139085 - Adapter Rodaviss B19 to GL25 RR139350 - GL25 HT Compression Fitting for 12mm OD Tubing • RR171608 - Rubber Tubing 6.5mm ID x 16.5mm OD - 2m long RR170044 5000ml Filtrate Collection Kit Includes RR171604 - Filtrate Collection Vessel 5000ml RR171607 - Bung 67mm + Hole 12mm Ø Tubing - Nat Rubber RR139354 - PTFE Tubing 10mm ID x 12mm OD - 1m length RR171610 - Elbow Fitting for 12mm OD Tubing - Stainless Steel RR139085 - Adapter Rodaviss B19 to GL25 RR139350 - GL25 HT Compression Fitting for 12mm OD Tubing RR171608 - Rubber Tubing 6.5mm ID x 16.5mm OD - 2m long To order components individually please refer to below: Filtrate Kit Components

	hiponents	1.11.11
RR171602	Filtrate Collection Vessel 2000ml	
RR171604	Filtrate Collection Vessel 5000ml	
RR171606	Bung 57mm + Hole 12mm Ø Tubing - Nat Rubber	/
RR171607	Bung 67mm + Hole 12mm Ø Tubing - Nat Rubber	
RR139354	PTFE Tubing 10mm ID x 12mm OD - 1m length	
RR171610	Elbow Fitting for 12mm OD Tubing - Stainless Steel	
RR139085	Adapter Rodaviss B19 to GL25	
RR139350	GL25 HT Compression Fitting for 12mm OD Tubing	
RR171608	Rubber Tubing 6.5mm ID x 16.5mm OD - 2m long	

Cold Tran Kite

	5	
RR170046	Dry Ice 500ml Cold Trap Kit Includes: RR722414 - Cold Trap High Vacuum 500ml RR31210 - Retort Stand RR71115 - Boss Head RR139364 - Rubber Belt Clamp	
RR170048	Small Cold Trap Kit Includes: • RR724011 - Two-piece Cold Trap B34 RR31210 - Retort Stand • RR71115 - Boss Head • RR139069 - 3-Prong Clamp	
To order compo	onents individually please refer to below:	
Cold Trap Kit RR722414	Cold Trap High Vacuum 500ml, GL14 Sidearms + Fittings	

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Cold Trap Kit Components	
RR722414 Cold Trap High Vacuum 500ml, GL14 Sidearms + Fittings	2
RR724011 Two-piece Cold Trap B34 with GL14 Sidearms + Fittings	
RR31210 Retort Stand, 2 Position Base + 12x750mm SS Rod	
RR71115 Boss Head to 16mm	
RR139364 Rubber Belt Clamp - 10mm rod, 60-170mm	
RR139069 3-Prong Clamp	

Glassware Accessories

Glassware Ac	cessories	
RR139005	Condenser Liebig 250mm B29 + GL14 + fittings	
RR139007	Condenser Double Surface 200mm B29 + GL14 + fittings	
RR139009	Condenser Jacket Coil Rodaviss B29 + GL14 + fittings	*
RR139011	Right Angle Adapter B29 + GL14 + PTFE fittings	
RR139013	50ml Graduated Dropping Funnel Equalising Arm B24	
RR139015	100ml Graduated Dropping Funnel Equalising Arm B24	
RR139017	250ml Graduated Dropping Funnel Equalising Arm B24	
RR139019	500ml Graduated Dropping Funnel Equalising Arm B24	
RR139021	1000ml Graduated Dropping Funnel Equalising Arm B24	i.
RR139023	Swan Neck Adapter Angled B24 to Vertical B24	
RR139025	Gas Purge Adapter B24 + GL14 + fittings	
RR139035	Enlarging Adapter B24 to B29	V
RR139037	Enlarging Adapter B29 to B34	Õ
RR139039	Reducing Adapter B24 to B19	
RR139041	Reducing Adapter B29 to B19	
RR139043	Reducing Adapter B29 to B24	<u></u>
RR139045	Reducing Adapter B34 to B19	
RR139047	Reducing Adapter B34 to B24	
RR139049	Reducing Adapter B34 to B29	
RR139051	Oil Bubbler Type 1 B24 + GL14 + fittings	6
RR139053	Solid Additions Funnel B34 (with extended tube)	õ
RR139057	Valved Liquid Inlet Adapter B24 to GL14	
RR139063	PTFE Hose Adapter B19 for 12mm ID Tubing	
RR139067	Boss Head	

Glass DN100 Vessel Lid

Glass DN100 RR136000	Vessel Lid 5 Neck Glass Lid 1 x B19, 2 x B24, 1 x B29, 1 x B34 Includes Rodaviss sealing caps
PTFE DN100 RR136100	Vessel Lids 5 Neck PTFE Lid with 2 Blanked Ports. 1 x B19, 2 x B24, 1 x B29, 1 x B34 Includes Rodaviss sealing caps
RR136110	7 Neck PTFE Lid with 7 Threaded Ports. 2 x $1\!\!\!/''$ NPT, 5 x $3\!\!/''$ NPT PTFE inserts not included - select from below
PTFE Rodavia RR136300 RR136301 RR136302 RR136303 RR136304 RR136314 RR136315 RR136315 RR136317 RR136317 RR136318 RR136319 RR136327	ss Sockets, Compression Fittings and Blanking Plugs for PTFE Lids Rodaviss B19 Socket Adapter (³ / ₄ " NPT) Rodaviss B24 Socket Adapter (³ / ₄ " NPT) Rodaviss B34 Socket Adapter (³ / ₄ " NPT) Rodaviss B45 Socket Adapter (³ / ₄ " NPT) Rodaviss B45 Socket Adapter (³ / ₄ " NPT) 3mm Bore Compression Fitting ³ / ₄ " NPT 6mm Bore Compression Fitting ³ / ₄ " NPT 12mm Bore Compression Fitting ³ / ₄ " NPT 14mm Bore Compression Fitting ³ / ₄ " NPT 16mm Bore Compression Fitting ³ / ₄ " NPT 19mm Bore Compression Fitting ³ / ₄ " NPT PTFE Blanking Plug ¹ / ₄ " NPT
RR136328	PTFE Blanking Plug ¾" NPT

General Maintenance Accessories

RR121150	Reactor-Ready	Maintenance Ki	t (includes i	tems listed below)
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RR121063	Stirrer Guide Bearing Seal B24 10mm
RR121064	Stirrer Guide Ferrule and Shaft Seal B24 10mm
RR121071	23mm Viton O-Rings for Quick Release Hose Coupling, Pack 2
RR121072	28mm Viton O-Rings for Quick Release Hose Coupling, Pack 2
RR121090	FEP Encapsulated Silicone Vessel O-Ring
RR166100	Replacement 15mm Piston Top O-Ring
RR166102	Replacement 15mm Piston Middle O-Ring
RR121027	Oil Wipe for Support Rods, Pack 10

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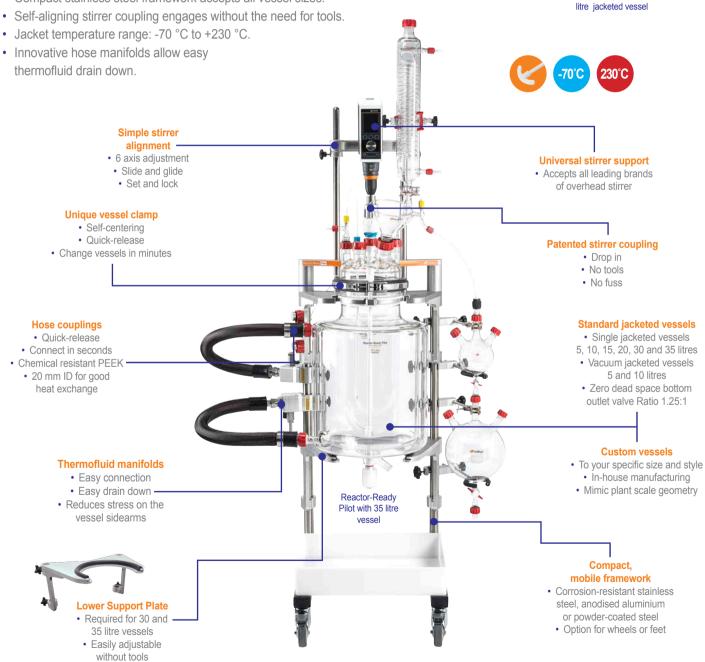
Huber Therm HB2016.0005.0 HB1030.0001.0 HB1030.0001.0 HB1000.0037.0 HB1002.0045.0	1 Petite Fleur Pilot ONE Controller 1ET Petite Fleur with 4 Litre Expansion Tank 1 Unistat Tango Pilot ONE Controller	
Thermoregulator Hoses, Adapters and Thermofluid		
HB9325	M24x1.5 Insulated Hose NW12 100cm -60°C to +260°C	
HB9326	M24x1.5 Insulated Hose NW12 150cm -60°C to +260°C	
HB9327	M24x1.5 Insulated Hose NW12 200cm -60°C to +260°C	
HB9328	M24x1.5 Insulated Hose NW12 300cm -60°C to +260°C	
Insulated Hose with Metal Inner		
HB9274	M24x1.5 Insulated Hose NW12 100cm -100°C to +350°C	
HB9275	M24x1.5 Insulated Hose NW12 150cm -100°C to +350°C	
HB9276	M24x1.5 Insulated Hose NW12 200cm -100°C to +350°C	
HB9277	M24x1.5 Insulated Hose NW12 300cm -100°C to +350°C	
Adapters		
HB6724	M24x1.5 Female to M16x1 Male Adapter	
HB6945	M24x1.5 Male to M16x1 Female Adapter	
HB6723	M24x1.5 Female to M30x1.5 Male Adapter	
HB6195	M16x1 90° Adapter	
HB9256	M24x1.5 90° Adapter	
HB6089	M16x1 Nut	
HB12634	M24x1.5 Nut	
HB6086	M16x1 Hose Connector NW8	
HB9471	M24x1.5 Hose Connector NW12	
HB6091	M16x1 Isolating Ball Valve -20°C+140°C (max. 6 bar at +140°C)	
HB9236	M24x1.5 Isolating Ball Valve -10°C+180°C (max. 6 bar at +180°C)	
Thermofluid		
HB6161	SilOil M20.195/235.20, 5 Litre -20°C to +195°C/235°C	
HB6162	SilOil M20.195/235.20, 10 Litre -20°C to +195°C/235°C	
HB6163	SilOil M40.165/220.10, 5 Litre -40°C to +165°C/220°C	
HB6164	SilOil M40.165/220.10, 10 Litre -40°C to +165°C/220°C	
HB6165	SilOil M60.115/200.05, 5 Litre -60°C to +115°C/200°C	
HB6166	SilOil M60.115/200.05, 10 Litre -60°C to +115°C/200°C	

Reactor-Ready Pilot Lab Reactor

For scaling up your benchtop reactions from 5 litres to 35 litres - ideal for process development, scale-up, pilot and kilo labs.

Features

- Rapid vessel exchange with guick-release vessel clamp and wide bore hose couplings.
- Single jacketed vessels available in 5, 10, 15, 20, 30 and 35 litres.
- Vacuum jacketed vessels available in 5 and 10 litres.
- Vessels have 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.



Scale-up your synthesis

Reactor-Ready Pilot with 20

AVA Lab Control Software

Automate your Reactor-Ready Filter Lab Reactor

AVA Level 4 controls multi-device jacketed reaction systems

- · Unattended chemistry for improved productivity
- · Automatically log your process data
- Improve safety and reduce manual errors
- · Control any reactor

Control multi-device reactions

- · Control up to 4 reaction systems with up to 16 devices on one screen
- · Create complex experiments with any number of steps in series or in parallel
- · Pre-program multi-step recipe, with the flexibility to make and track on-the-fly adjustments
- Interlink devices and set feedback/control loops, end-point conditions and safety limits

No more manual data logging or manual errors

- · Automatically record reaction parameters and log what you do, as you do it
- · Repeat experiments accurately for reproducible and consistent results
- · Create reports in a few clicks or export data as a CSV file for further analysis
- · Share results between users to improve research and collaboration

Safe unattended chemistry

- · Automate cooling during exothermic events
- · Link devices such as balances and pumps for controlled, unattended reagent additions
- · Define safety overrides and cut-off conditions
- · Configure audio and visual alarms

Download and try the software for FREE

Learn how AVA software works - try before you buy

- · Simulate control of devices
- · Set up apparatus and control experimental Schedules
- · Share setups and schedules with other AVA users
- Analyse results and create reports for real or simulated data
- Find out more about AVA Level 1-3 on our website

AVA Care Support

- Free support for 1st year
- · Free priority email and telephone support
- · Free set up and application support
- Free software updates during support period, keeping software current

Data Hub

Using the Data Hub, AVA can control and log multiple 3rd party devices with a RS232 serial interface.





ab control softwar

Download Free Demc



Control and log reaction systems with multiple devices





Control a variety of devices

AVA software includes a library of pre-configured driver files allowing easy integration with a wide range of 3rd party devices.

Radleys also provide a 'New Driver Configuration Service' if required.

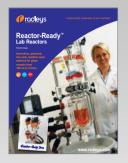


Accelerating chemistry



International Product Guide

Innovative tools for chemical synthesis, process development, work-up and evaporation.



Reactor-Ready Lab Reactors

Patented, low cost, reaction work stations for glass vessels from 100 ml to 5 litres.



Reactor-Ready Pilot

Process scale reaction work stations for jacketed glass reaction vessels from 5 to 35 litres.



AVA Lab Control Software

Control and log multiple devices including stirrers, circulators, balances, pumps and temperature sensors.



Mya 4 Reaction Station

A 4-zone reaction station offering safe and precise heating, active cooling, software control and data-logging for 24/7 unattended chemistry.



Carousel 6 Plus

Simultaneously heats/cools, stirs and refluxes multiple samples under an inert atmosphere.

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

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