

Bench Top Reactors

JRS-1501-04 Bench top reactor, all-in-one, jacketed, 1000ml

NEW Bench top reactors are complete with support stand, overhead stirrer and glassware. Available with the optional multi channel regulating valve. The unique design of the Bench top reactors support stand and clamping system allows for quick and easy installation/removal of glassware and fits into most fume hood. System is supplied complete with the components listed below and numbered on the image below.

1000ml complete bench top reactors

Part number	Description
JRS-1501-041	Complete with Glassware & Stand, and Digital Overhead Stirrer OHS.2 (Part 1-Part 8)
JRS-1501-042	Complete with Glassware, Stand, and High Torque Overhead Stirrer OHS.4 (Part 1-Part 8)
JRS-1501-041M	Complete with Glassware & Stand, Multi channel regulating valve and Digital Overhead Stirrer OHS.2 (Part 1-Part 9)
JRS-1501-042M	Complete with Glassware, Stand, Multi channel regulating valve and High Torque Overhead Stirrer OHS.4 (Part 1-Part 9)

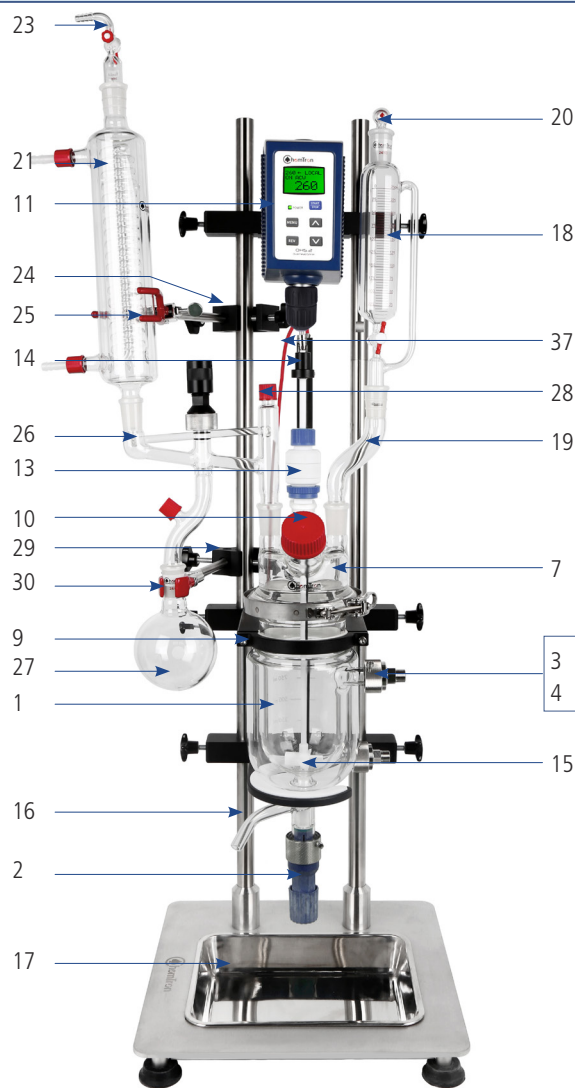


High Torque Overhead Stirrer OHS.4

Specification

Max. reaction volume recommendation	1050mL
Total volume	1450mL
Flange	DN100
Bore diameter of bottom valve	0-10mm
Reactor lid	CN:24/40, SN:24/40(3), 45° -GL45
Material of reaction vessel and lid	High quality borosilicate glass
Temperature range	-60~200°C
Vessel pressure	suitable for atmospheric and vacuum reaction
Jacket pressure	up to 0.5bar
Material of wet part	Borosilicate glass / PTFE / PFA
Inlet and outlet of jacket	DN15
Rotation speed	Available at 500 RPM for long-term operation, 800 RPM for short-term operation If high-speed mixing applications are required, please consult your Wiggins
Diameter/length of stirring Rod	Ø10mm / 550mm
Blade diameter	70mm (4 blade angled type stir paddle)
Length of condenser	300mm
Volume of collection flask	500mL
Volume of liquid funnel	250mL
Distance between discharge and liquid plate height	140
Weight	29.2kg

Approx. Stand Dimensions (W x D x H): 440x 420x1200mm



Part List

Item.	Order No. / Part	Name	Product Description	Qty
Part1 Reaction Vessel				
1	CRS-0841-10	1000mL Jacketed reaction vessel	1000mL Flask, Cylindrical, Jacketed, 100mm Flange, Without Drain Valve, DN15 inlet and outlet of jacket	1
2	CRS-4153B-S	Bottom outlet valve	Bottom outlet valve typy "J", 10mm, approx.95mm	1
3	4200	Metal adapter with clamp	Metal adapter for thermostat hoses (DN15 to M16x1)	2
4	4201	Silicone sealant DN15	Silicone sealant DN15, -60°C to +200°C	2
5*	JRS-11081-21	Clamp Holder	Clamp Holder, Pilot Plant (Condenser Clamp, Flask Clamp)	2
6*	JRS-11065-16	3 Prong	3 Prong, Extended, Large	2
Part2 Reactor lid				
7	JRS-2904-01	Reactor Lid	Lid, 100mm, 5 Neck, 24/40 CN, (3) 24/40 SN, (1) GL45 SN	1
8	JRS-1701-02	O-Ring	100mm PFA Encapsulated O-Ring	1
9	JRS-2401-02	Clamp	Clamp, Flange, 100mm	1
10	JRS-2301-01	Cap	Cap, Solid, GL45	1
Part3 Stirring unit				
11	CR3090-02	OHS.2 Stirrer	Digital Overhead Stirrer OHS.2	1
12	CR3091-02	OHS.4 Stirrer	Digital Overhead Stirrer OHS.4	1
13	5-105-7	Stirring bearing	10mm PTFE/PEEK Stirring bearing	1
14	JRS-8126-06N	Shaft Coupling	10mm Shaft Coupling	1
15	5-255-10-2	Screw Propeller	Screw Propeller, 4-Bladed (PTFE Coated), Shaft Ø10mm, L=550mm, Rotor Ø70mm	1
Part4 Reactor stand				
16	CRS-2602-02	Reactor stand	Smart Supporting Structure	1
17	CR-13221	Spill tray	For bench top reactor supporting sturcture, Stainless steel	1
Part5 Liquid funnel				
18	JRS-2803-03	Funnel	Funnel, Addition, 250mL, 0-4mm Metering Valve, 24/40 Joints	1
19	JRS-2020-01	Offset Adapter	Offset Adapter, 24/40	1
20	JRS-2103-01	Glass stopper	Glass stopper, 24/40	1
Part6 Condenser				
21	JRS-2506-09	Condenser	Jacketed, 300mm, 24/40	1
22	JRS-2020-01	Offset Adapter	Offset Adapter, 24/40	1
23	JRS-2012-02	Vacuum Adapter	Vacuum Adapter, 24/40	1
24	JRS-11081-21	Clamp Holder	Clamp Holder, Pilot Plant (Condenser Clamp, Flask Clamp)	1
25	JRS-11065-16	3 Prong	3 Prong, Extended, Large	1
Part7 Distillation unit				
26	JRS-2619-01	Distillation Reflux / Divider Head	Distillation Reflux / Divider Head Claisen Style	1
27	JRS-6887-226	500mL Flask	500mL FLASK, Single Neck	1
28	JRS-11081-21	Clamp Holder	Clamp Holder, Pilot Plant (Condenser Clamp, Flask Clamp)	1
29	JRS-11073-20	2 Prong	2 Prong, Extended, Large	1
30	JRS-2302-05	Cap	Cap, Solid, GL18	1
Part8 Adapters and clamps				
31	JRS-5028-31	Temperature Sensor Adapter	Temperature Sensor Adapter, O.D.=6.5mm, 24/40	1
32	JRS-7643-08	PTFE Sleeves	PTFE Sleeves, 24/40	1
33	JRS-7598-24	Keck Clip	Keck Clip, 24/40	1
Part9 Multi channel regulating valve				
34	JRS-12194-02	Multi channel regulating valve	Multi channel regulating valve outlet	1
35	JRS-12194-06	Multi channel regulating valve	Multi channel regulating valve inlet	1
36	8930220	Metal tubing	0.5 m Metal tubing, insulated, 2 fittings M16x1 female (-50...+200 °C)	2
Optional				
37	89810154	Temperature Sensor	400x6mm, SS/PTFE, 3m cable	1

*Not included in JRS-1501-021M and JRS-1501-022M

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