

# Bench Top Reactors

## JRS-1501-02 Bench top reactor, all-in-one, jacketed, 250ml

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.

### 250ml complete bench top reactors

Part number	Description
JRS-1501-021	Complete with Glassware & Stand, and Digital Overhead Stirrer OHS.2 ( Part 1-Part 8 )
JRS-1501-022	Complete with Glassware, Stand, and High Torque Overhead Stirrer OHS.4 ( Part 1-Part 8 )
JRS-1501-021M	Complete with Glassware & Stand, Multi channel regulating valve and Digital Overhead Stirrer OHS.2 ( Part 1-Part 9 )
JRS-1501-022M	Complete with Glassware, Stand, Multi channel regulating valve and High Torque Overhead Stirrer OHS.4 ( Part 1-Part 9 )

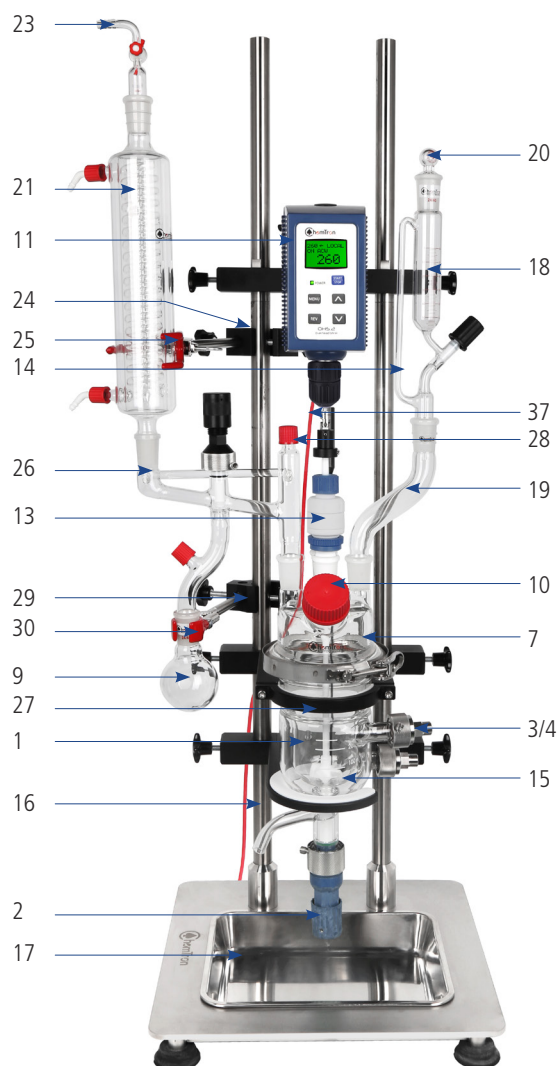


High Torque Overhead Stirrer OHS.4

### Specification

Max. reaction volume recommendation	350mL
Total volume	650mL
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	Ø8mm / 500mm
Blade diameter	40mm (4 blade angled type stir paddle)
Length of condenser	300mm
Volume of collection flask	125mL
Volume of liquid funnel	60mL
Distance between discharge and liquid plate height	130
Weight	28.5kg

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



## Part List

Item.	Order No. / Part	Name	Product Description	Qty
<b>Part1 Reaction Vessel</b>				
1	CRS-0839-47	250mL Jacketed reaction vessel	250mL 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 type "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
<b>Part2 Reactor lid</b>				
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
<b>Part3 Stirring unit</b>				
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	5-104-7	Stirring bearing	8mm PTFE/PEEK Stirring bearing	1
14	JRS-8126-05N	Shaft Coupling	8mm Shaft Coupling	1
15	5-250-8-2	Screw Propeller	Screw Propeller, 4-Bladed (PTFE Coated), Shaft Ø8mm, L=500mm, Rotor Ø40mm	1
<b>Part4 Reactor stand</b>				
16	CRS-2602-02	Reactor stand	Smart Supporting Structure	1
17	CR-13221	Spill tray	For bench top reactor supporting structure, Stainless steel	1
<b>Part5 Liquid funnel</b>				
18	JRS-2803-01	Funnel	Funnel, Addition, 60mL, 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
<b>Part6 Condenser</b>				
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
<b>Part7 Distillation unit</b>				
26	JRS-2619-01	Distillation Reflux / Divider Head	Distillation Reflux / Divider Head Claisen Style	1
27	JRS-6887-232	125mL Flask	125mL Flask, Single Neck, 24/40	1
28	JRS-2302-05	Cap	Cap, Solid, GL18	1
29	JRS-11081-21	Clamp Holder	Clamp Holder, Pilot Plant (Condenser Clamp, Flask Clamp)	1
30	JRS-11073-20	2 Prong	2 Prong, Extended, Large	1
<b>Part8 Adapters and clamps</b>				
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
<b>Part9 Multi channel regulating valve</b>				
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
<b>Optional</b>				
37	8981015	Temperature Sensor	300x6mm, SS/PTFE, 3m cable	1

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

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Москва

ул. Магаданская, д. 7, к. 3 ■ тел./факс: (495) 745-0508 ■ sales@dia-m.ru

www.dia-m.ru

С.-Петербург  
+7 (812) 372-6040  
spb@dia-m.ru

Новосибирск  
+7 (383) 328-0048  
nsk@dia-m.ru

Воронеж  
+7 (473) 232-4412  
vrn@dia-m.ru

Йошкар-Ола  
+7 (927) 880-3676  
nba@dia-m.ru

Красноярск  
+7 (923) 303-0152  
krsk@dia-m.ru

Казань  
+7 (843) 210-2080  
kazan@dia-m.ru

Ростов-на-Дону  
+7 (863) 303-5500  
rnd@dia-m.ru

Екатеринбург  
+7 (912) 658-7606  
ekb@dia-m.ru

Кемерово  
+7 (923) 158-6753  
kemerovo@dia-m.ru

Самара  
+7 (915) 482-4897  
samara@dia-m.ru

