

150L System with Shield

CG-1968-W6150

400mm Flange

Auto-centering motor mount arm can unlock and swing out giving greater access to reactor

Brushless Motor Controller

- RPM Torque, PT100 Temperature and Timer
- Wifi Connection for Cloud Data Logging, Monitoring, Alerts and Control (Optional with Ermes)
- USB Connection for Data Logging / Monitoring
- TFT 3.5" Display for All Setting Information at a Glance
- Quick Lockout Function
- Easy CW / CCW Direction Changes

High Flow Manifold System Included

M30 x 1.5 circulator fittings and insulated hoses, -60 to +200°C



Smaller footprint support frame with oversized, rugged, SS uprights and heavy-duty, PTFE-coated aluminum fittings

400mm Flange Maximizes Interior Access

Brushless DC electric motor, air and explosion-proof motors available

Open frame design provides excellent accessibility

Mechanical Seal Stirrer Bearing

400mm flange, 7-neck lid with large powder addition port

**400mm
Better
Access!**

Reactor support plate holds reactor securely and allows easy installation and removal of reactor

Safety shield on all four sides

Reactor jacket graduation scale on both sides

Lower safety ring

Zero dead space, detachable drain valve with laser-etched directional arrows for open and close

**3-inch
Pipe
Drain**

Heavy-duty, lockable casters

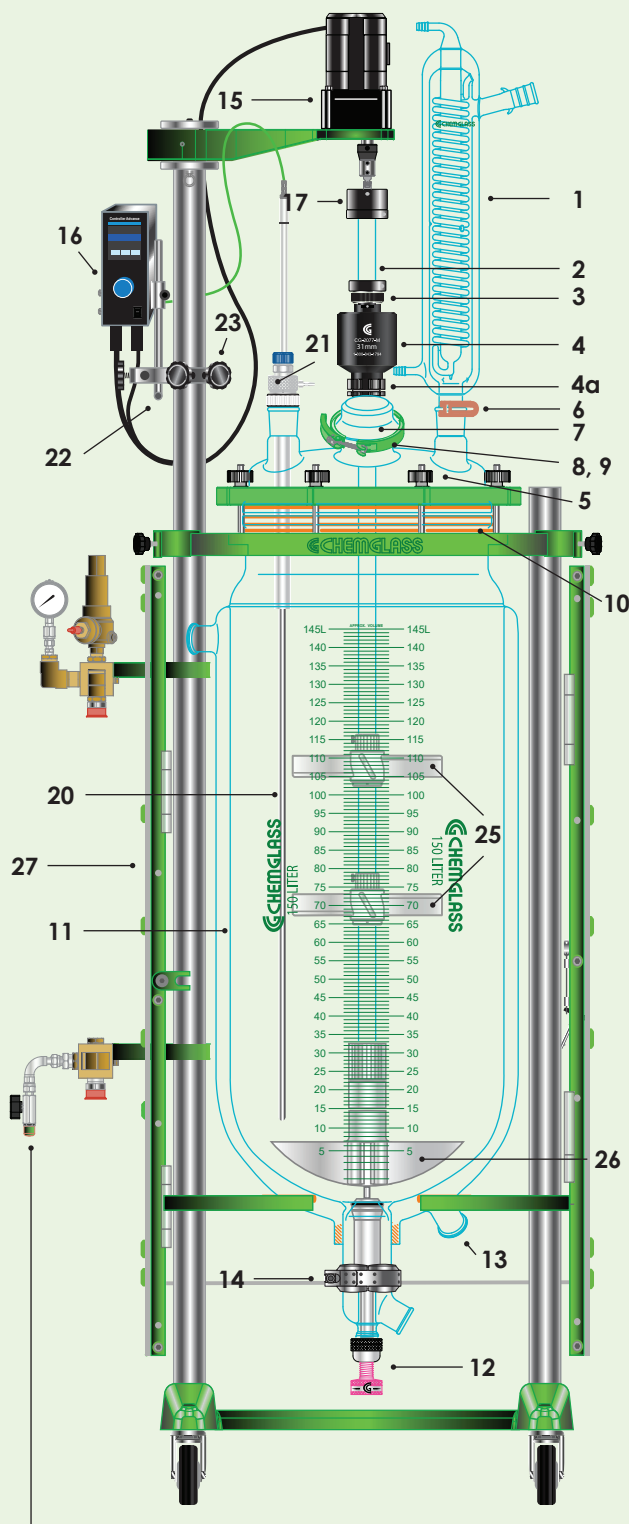
150L System with 400mm Flange & Shield

CG-1968-W6150

Complete System with Standard Components listed in the table below.

No.	Qty.	Part No.	Description
1	1	CG-1215-C-02	High Efficiency Condenser, 45/50
2	1	CG-2097-X-150	30mm Stirrer Shaft, Solid Top, Lower Portion Sandblasted, with Indents
3		CG-2048-04	30mm Stirrer Shaft Retainer, Nylon, Safety
4		CG-2077-M-05	31mm Mechanical Seal Stirrer Bearing
4a		CG-2077-M-33	31mm Lower Joint Adapter, 45/50
5	1	CG-1968-E-400	400mm Reaction Vessel Lid, 7-Neck, 45/50 CN, 5-45/50 SN, 1-Angled 80mm Flat O-Ring Flange SN
—	3	CG-3002-L-45	Stopper, PTFE, 45/50 with Loosening Ring
6	1	CG-145-09	Clamp, Keck, Brown, Standard Taper, Fits Joint Size 45/50, 10 / Pkg
7	1	CG-149-06	80mm Glass Cap
8	1	CG-147-81	O-Ring, Perfluoro, 80mm Flange White
9	1	CG-141-T-10	80mm Quick Release Clamp, PTFE-Coated
10	1	CG-1968-H-02	Perfluoroelastomer Gasket, 400mm
11	1	CG-1968-W150	150 Liter Reaction Vessel, Large Scale, 3" Beaded Pipe, Detachable
12	1	CG-1968-T-55	3" Beaded Pipe, Zero Dead Space, Drain Valve with 1 1/2" Beaded Pipe Sidearm
13	2	CG-1968-69	1 1/2" Beaded Pipe Coupling
14	1	CG-1968-T-75	3" Beaded Pipe Coupling
15	1	CG-2033-B-39	3/8 HP Brushless DC Motor Only, 24v, 3/4" Shaft Diameter
16	1	CG-2033-V-75	Controller, Motor, Temp. and Time, Only for Brushless DC Motor, 120v, WiFi
17	1	CG-2046-X-130	30mm Stirrer Shaft Split Coupling
20	1	CG-1978-P1150	PT100 Temp. Probe, 1/2" Dia. x 60" Long
21	1	CG-1971-88	45/50 PTFE Thermocouple Stabilizer, Complete with 1/2" Pipe Probe
22	1	CG-3498-03	90° Support Rod, 1/2" OD, Stainless Steel
23	1	CG-9253-20	Large Kwik Klamp II, Hardcote & PTFE Anodized Finish
25	2	CG-2095-R50	10" Diameter Upper Agitator, PTFE
26	1	CG-2095-M-55	13" Diameter Lower Agitator, PTFE, with Stabilizing Bushing
27	1	CG-1968-Z-150	Open Air Support Frame with Safety Shield Assembly, 28.25" W x 20" D x 92" OAH, with High Flow Manifold
—	1	CG-1963-B-10	Beam Torque Wrench
—	1	CG-1963-B-15	1/2" Deep Socket, 6 Point, 1/4" Drive
—	1	CG-1963-B-14	7/16" Deep Socket, 6 Point, 1/4" Drive

Motor Type	Approx. Overall Height with Motor (in.)	Clearance Below Drain Valve Side Arm (in.)
Electric	100.1	12.1



High Flow Manifold System Included

M30 x 1.5 circulator fittings and insulated hoses, -60 to +200°C

Technical Information for Chemglass Large Scale Process Reactors

Reactor Capacity, Type and Part Number	Flange Size (mm)	Support Frame Part Number	Support Frame Dimensions W x D x H (in)	Approx. Height with Electric Motor (in)	Approx. Height with CG-2025-20 Air Motor (in)	Clearance Below Side Arm on Bottom Drain Valve (in)	MAX Jacket Pressure (PSI)	MAX Vessel Pressure (PSI)	MAX Vacuum† (Torr)
10L Unjacketed (CG-1924-31)	200	CG-1965-X-150	19 x 19 x 66	70.1	67	15.3	---	10	2
15L Unjacketed (CG-1924-33)	200	CG-1965-X-150	19 x 19 x 66	70.1	67	15.3	---	10	2
20L Unjacketed (CG-1924-34)	200	CG-1965-X-150	19 x 19 x 66	70.1	67	15.3	---	10	2
30L Unjacketed (CG-1972-61)	300	CG-1968-X-12**	28.25 x 20 x 75.25	82.6	79	20.9	---	10	2
50L Unjacketed Tall (CG-1972-81)	300	CG-1968-X-14**	28.25 x 20 x 83.5	90.8	87.3	18.1	---	10	2
10L Jacketed (CG-1930-31)	200	CG-1965-X-150	19 x 19 x 66	70.1	67	15.3	12	10	2
15L Jacketed (CG-1930-33)	200	CG-1965-X-150	19 x 19 x 66	70.1	67	15.3	12	10	2
20L Jacketed (CG-1930-34)	200	CG-1965-X-150	19 x 19 x 66	70.1	67	15.3	12	10	2
30L Jacketed (CG-1968-61)	300	CG-1968-X-12	28.25 x 20 x 75.25	82.6	79	18.6	12	10	2
50L Jacketed Short (CG-1968-95)	300	CG-1968-X-12	28.25 x 20 x 75.25	82.6	79	15.2	12	10	2
50L Jacketed Tall (CG-1968-81)	300	CG-1968-X-14	28.25 x 20 x 83.5	90.8	87.3	16.2	12	10	2
50L Jacketed Squatty (CG-1968-W651)	400	CG-1968-Y-12	28.25 x 20 x 75.25	82.6	79	15.6	12	10	2
75L Jacketed (CG-1968-97)	300	CG-1968-X-24M	29.75 x 25 x 83.5	90.8	87.3	18.4	12	10	2
100L Jacketed (CG-1968-99)	300	CG-1968-X-24M	29.75 x 25 x 83.5	90.8	87.3	10.2	12	10	2
100L Jacketed (CG-1968-99)	300	CG-1968-X-26M	29.75 x 25 x 95.25	102.6	99	21.9	12	10	2
100L Jacketed Squatty (CG-1968-W9100)	400	CG-1968-Y-24M	29.75 x 25 x 83.5	91.6	87.3	19	12	10	2
100L Jacketed Tall (CG-1968-W6100)	400	CG-1968-Y-24M	29.75 x 25 x 83.5	91.6	87.3	13.2	12	10	2
150L Jacketed w/o shield (CG-1968-W6151)	400	CG-1968-Z-150	29.75 x 25 x 92	100.1	NA	12.1	12	10	2
150L Jacketed w/shield (CG-1968-W6150)	400	CG-1968-Z-151	29.75 x 25 x 92	100.1	NA	12.1	12	10	2

ALL DIMENSIONS LISTED ABOVE ARE APPROXIMATE.

* Maximum ΔT for Jacketed Reactors is 60°C. Exceeding this can lead to vessel failure.

** Requires CG-1968-X-56 Lower Mantle Base (sold separately).

† Please Note: Reaction Vessels with Morton Indents Are Not Suitable for Vacuum and **DO NOT** Have a Pressure Rating.

- Chemglass cannot assume responsibility for use of the above information for specific applications.
- Chemglass does not guarantee the vessels from breaking under pressure/vacuum due to the nature of the material and conditions beyond our control.
- Chemglass strongly recommends the use of safety shields and/or other safety equipment.