

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.