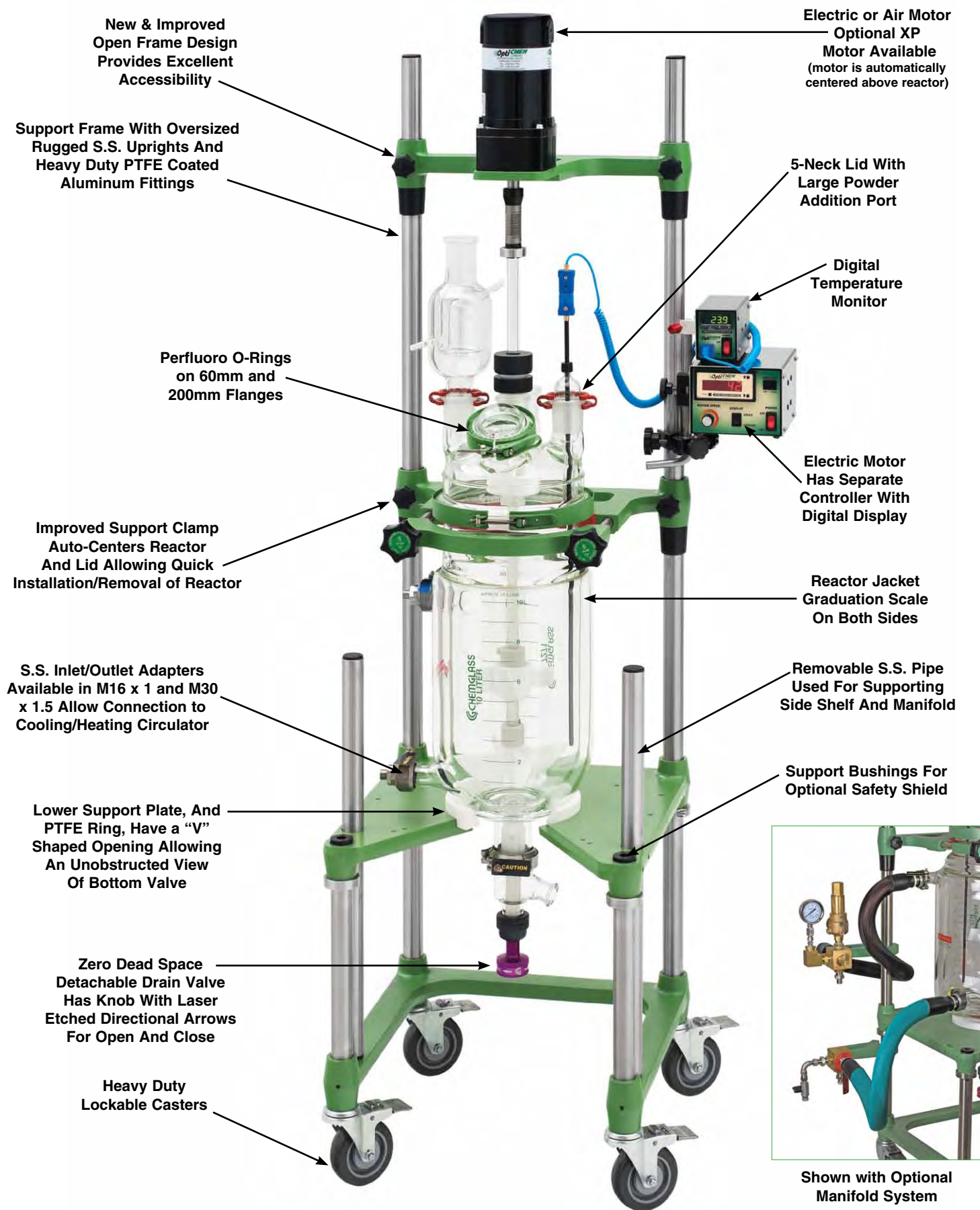


REACTORS, JACKETED, 10L



REACTORS, JACKETED, 10L

10L PROCESS REACTOR, CYLINDRICAL, JACKETED, ELECTRIC OR AIR MOTOR

Complete reactor system on our Unique open air, auto-center stand. Supplied with the components listed below and numbered on the schematic drawing. Optional items are listed on the following pages. **PLEASE NOTE: REACTOR STAND OVERALL HEIGHT WITH MOTOR AND CLEARANCE BELOW VALVE, ARE CALCULATED FOR ALL CHEMGLASS STIRRER BEARINGS, INCLUDING THE CG-2077-M MECHANICAL SEAL STIR BEARING.**

10L COMPLETE PROCESS REACTORS:

Part Number	Description	Motor Type	Overall Height W/ Motor (in)	Clearance Below Valve (in)
CG-1965-610	10L Process Reactor, Complete	Electric	72.1	15.3
CG-1964-610	10L Process Reactor, Complete	Air	69.0	15.3

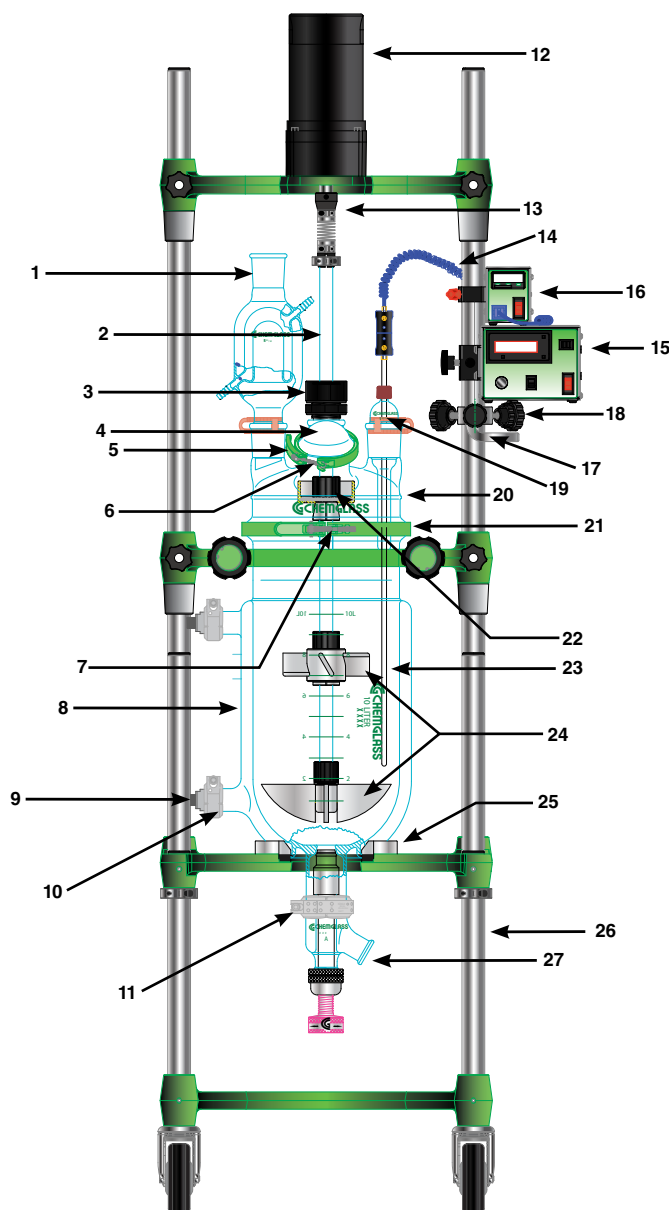
COMPLETE WITH CG-1969-M-01 MANIFOLD WITH M16 CIRCULATOR FITTINGS

Part Number	Description
CG-1965-610M	10L Process Reactor, Complete, Electric
CG-1964-610M	10L Process Reactor, Complete, Air

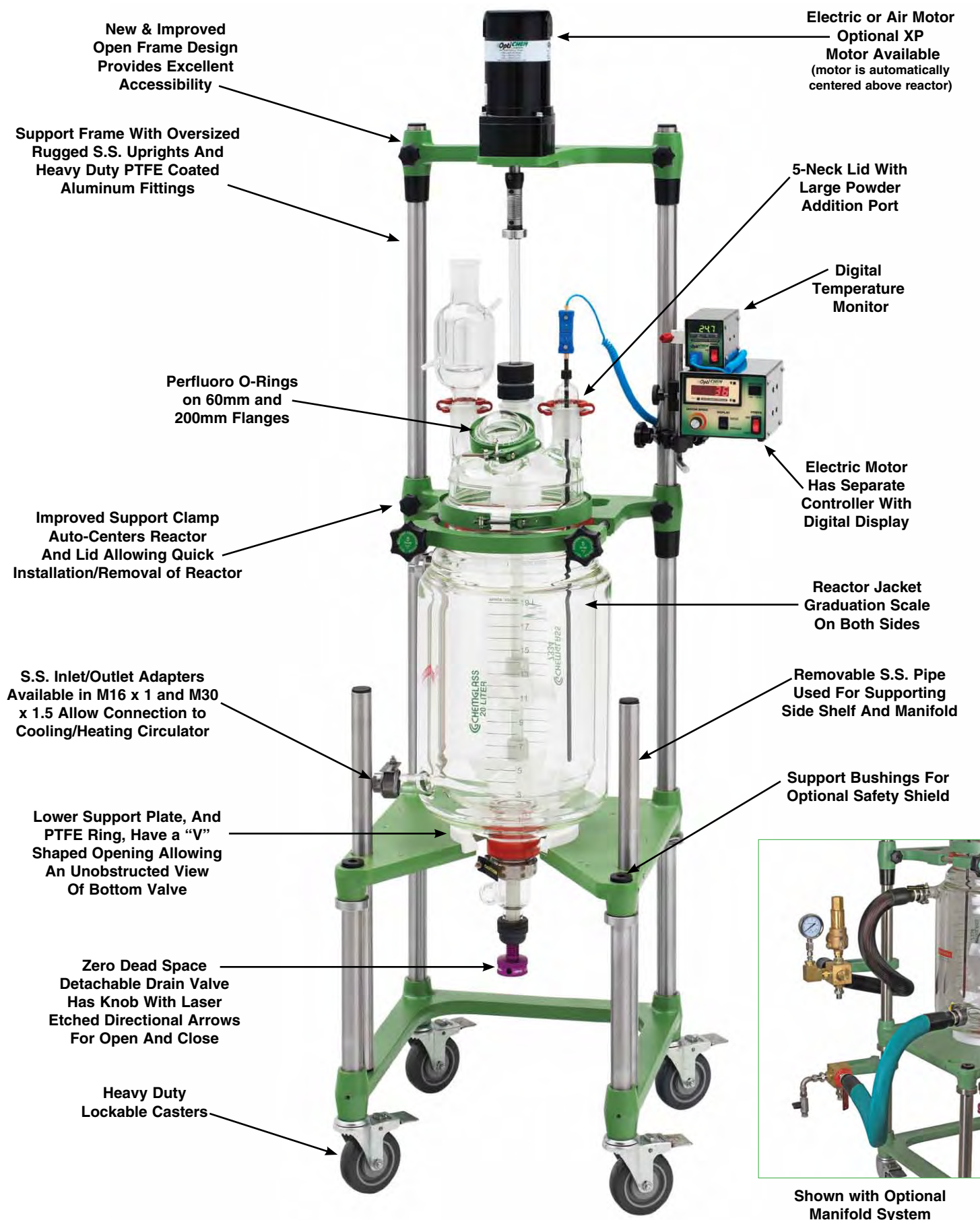
Standard Components Supplied With Complete Process Reactors:

No.	Part No.	Description
1	CG-1217-25	Condenser, 45/50
2	CG-2097-10	19mm Stirrer Shaft, 30-5/8" OAL
3	CG-2077-H-05	19mm PTFE Stir Bearing
4	CG-149-01	60mm Glass Cap
5	CG-141-T-11	60mm S.S. Clamp, PTFE Coated
6	CG-147-80	60mm Perfluoro O-Ring
7	CG-147-84	200mm Perfluoro O-Ring
8	CG-1930-31	10L Jacketed Reaction Vessel
9	CG-1969-A-05	S.S. Adapter, 1" Beaded Pipe to M16 X 1 Male (2ea)
10	CG-1968-66	1" Beaded Pipe Coupling (2ea)
11	CG-1968-67	2" Beaded Pipe Coupling
12a	CG-2033-11	Electric Stir Motor, 1/4Hp, 500 RPM
12b	CG-2025-20	Air Motor, 3/8Hp
12c	CG-2025-10	Filter-Regulator-Lubricator (Air Motor Only)
13a	CG-2044-30	19mm Tru-Stir® Shaft Coupling, (Electric)
13b	CG-2044-16	19mm Tru-Stir® Shaft Coupling, (Air)
14	CG-3499-02	10ft Coiled Extension Cord, "T"
15	CG-2033-31	Stir Motor Controller (Electric Only)
16	CG-3498-01	Temperature Monitor, "T"
17	CG-3498-03	1/2" OD Rod, 90° Bend
18	CG-9253-10	Universal Kwik Mount Klamp
19	CG-1042-E-10	Thermocouple Adapter, 45/50
20	CG-1946-50	5-Neck Lid, 200mm
21	CG-141-T-15	200mm S.S. Clamp, PTFE Coated
22	CG-2093-20	PTFE Flake Catching Cup
23	CG-3498-106	1/4" Diameter X 26" Long Thermocouple, "T"
24a	CG-2095-05	5" OD PTFE Agitator, 60°
24b	CG-2096-09	7.5" OD PTFE Agitator, High Viscosity
25	CG-3055-10	PTFE Support Ring, "V" Cut
26	CG-1965-X-150	Auto-Center Support Frame, 65.25" OAH
27	CG-1968-Q-01	Zero Dead Space Drain Valve
--	CG-3002-L-45	45/50 PTFE Stopper With Loosening Ring
--	CG-145-09	45/50 Keck Clips (PK10)
---	CG-1963-B-10	Beam Torque Wrench
---	CG-1963-B-14	7/16" Deep Socket, 6 Point, 1/4" Drive

**15L JACKETED
PROCESS REACTOR
SYSTEM AVAILABLE
ONLINE!**



REACTORS, JACKETED, 20L



AVAILABLE CUSTOM OPTIONS FOR 10/20L REACTORS

- Higher Efficiency Condensers
- Diagonal Distillation Setups
- Jacketed RBF Receivers
- Cylindrical Style Receivers
- Separate Receiver Cart Systems



CG-1965-D DISTILLATION KIT FOR 10 and 20L PROCESS REACTOR SYSTEM

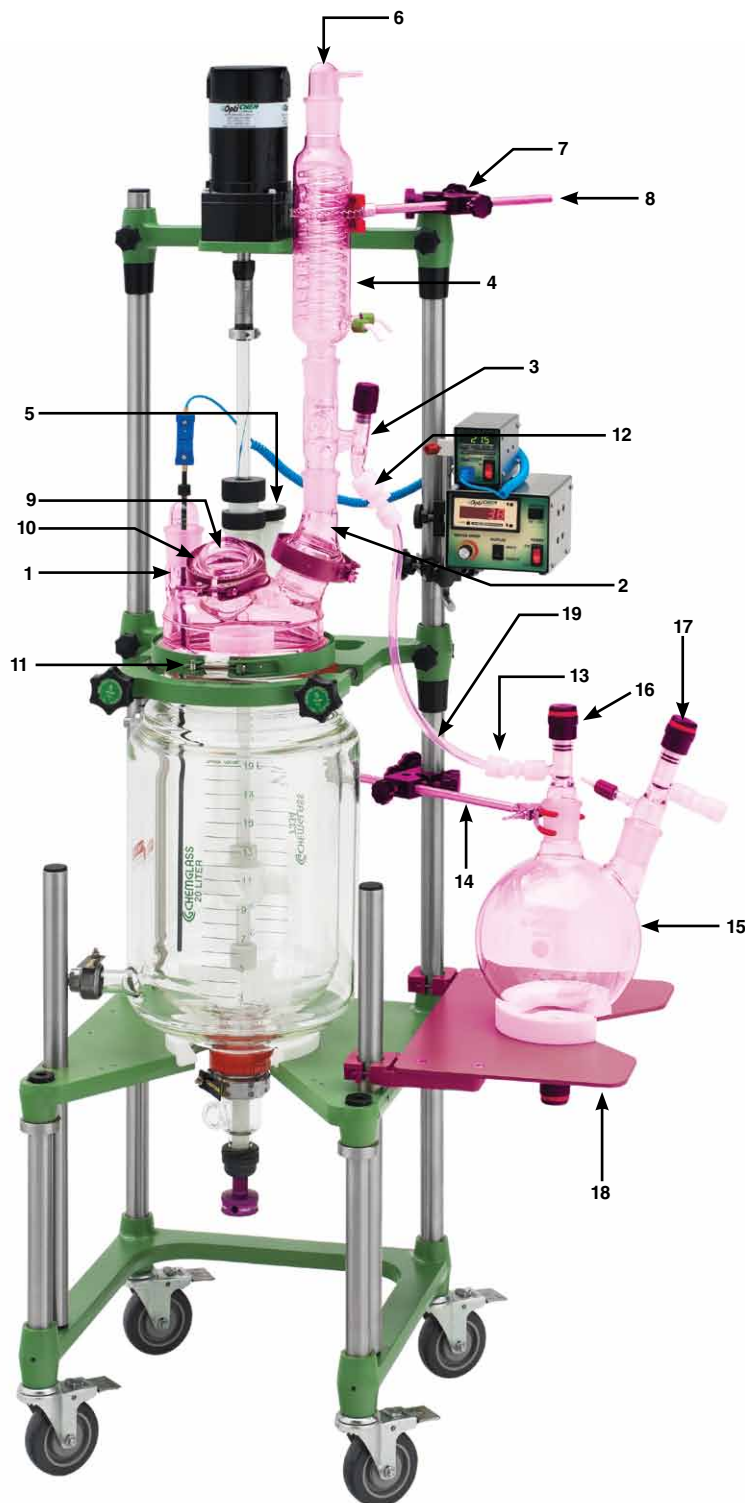
Distillation kit for Chemglass 10 and 20L reactor systems. Supplied complete with support shelf to fit CG-1965-X style frame and the components highlighted in the photo below. This add-on kit makes it easy to convert any of our standard reactors over to a complete distillation system. **PLEASE NOTE: REACTOR SYSTEM MUST BE PURCHASED SEPARATELY**

DISTILLATION KIT ADD-ON FOR EXISTING 10, 15 OR 20L REACTOR SYSTEMS:

Part Number	Description	Receiving Flask Capacity
CG-1965-D-110	Distillation Shelf and Glassware Kit	5L
CG-1965-D-120	Distillation Shelf and Glassware Kit	10L

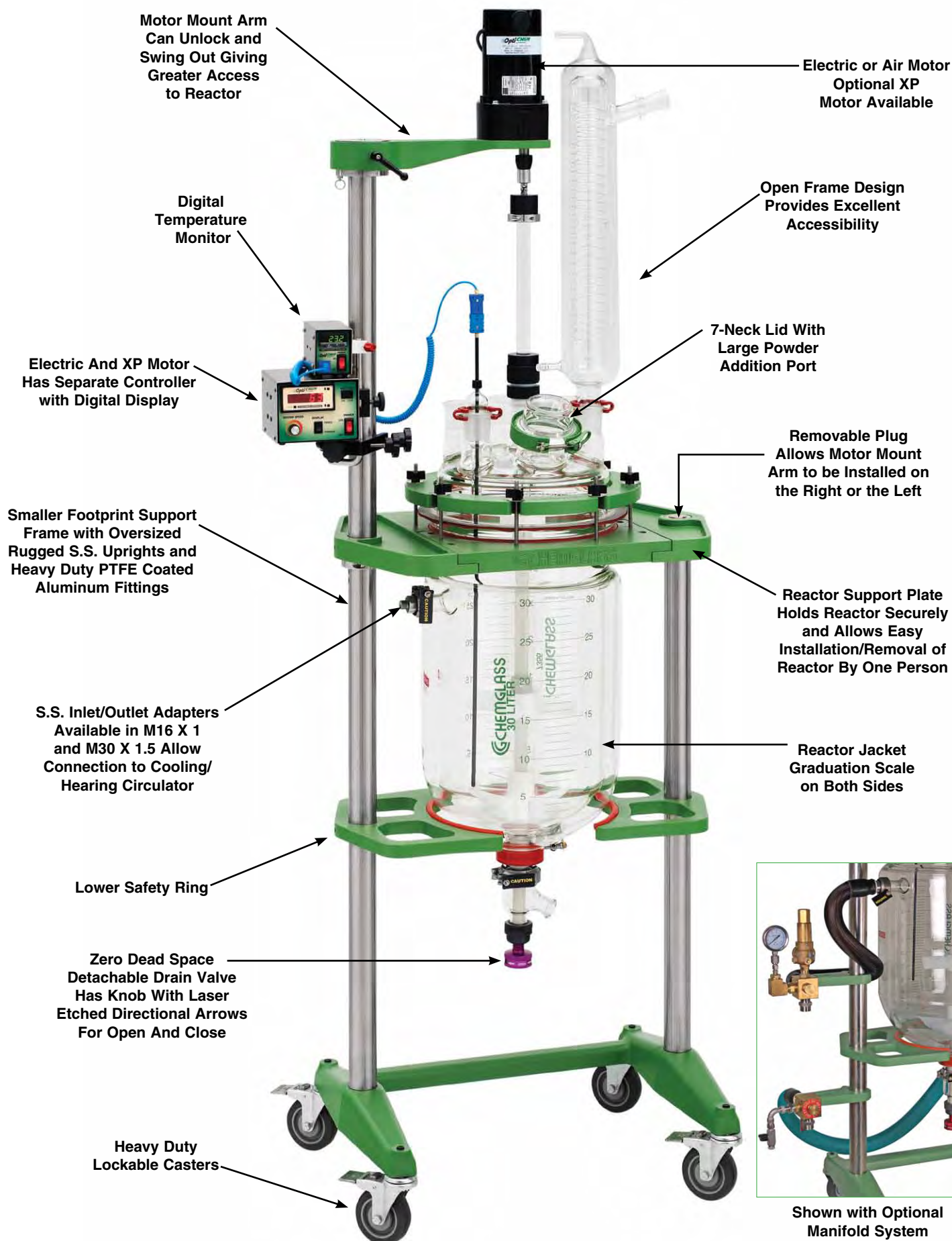
Standard Components Supplied With Distillation Kits:

No.	Qty	Part No.	Description
1	1	CG-1946-D-50	200mm, 5 neck Lid, 45/50 CN, 2- 60mm Duran Side Necks
2	1	CG-1965-D-205	Adapter, 60mm to 45/50, Angled
3	1	CG-1235-A-45	Adapter, Distillation 45/50
4	1	CG-1219-20	Condenser, Double Coil, 45/50
5	2	CG-3002-L-45	Stopper, 45/50
6	1	CG-1014-45	Adapter, Inlet, 45/50
7	2	CG-9253-10	Kwik Clamp
8	1	CG-9220-E-01	Chain Clamp, 12"
9	2	CG-149-01	60mm Dome
10	2	CG-141-T-11	60mm Quick Clamp
11	2	CG-147-80	60mm Perfluoro O-ring
12	1	CG-1975-22	3/4 to 1/2 Compression Fitting
13	2	CG-1975-21	1/2 to 1/2 Compression Fitting
14	1	CG-9205-E-10	Clamp, 3-finger, 12"
15a	1	CG-1965-D-220	5L receiving flask, 2 Neck, 45/50 (for 10L reactor system)
15b	1	CG-1965-D-225	10L receiving flask, 2 Neck, 45/50 (for 20L reactor system)
16	1	CG-1965-D-210	Adapter, Distillation, 45/50 to 0-14 Valve
17	1	CG-1965-D-215	Adapter, Distillation, Vent, 45/50 to 0-14 Valve
18	1	CG-1963-D-10	Shelf, Distillation
19	1	CG-1975-03	FEP Tubing; 1/2" OD x 3/8" ID x 10ft Long



**Highlighted Items
are Included in Kit**

REACTORS, JACKETED, 30L



REACTORS, JACKETED, 30L

30L PROCESS REACTOR, CYLINDRICAL, JACKETED, ELECTRIC OR AIR MOTOR

Complete reactor system on our NEW open air stand. Supplied with the components listed below and numbered on the schematic drawing. Optional items are listed on the following pages. **PLEASE NOTE: REACTOR STAND OVERALL HEIGHT WITH MOTOR AND CLEARANCE BELOW VALVE, ARE CALCULATED FOR ALL CHEMGLASS STIRRER BEARINGS, INCLUDING THE CG-2077-M MECHANICAL SEAL STIR BEARING.**

30L COMPLETE PROCESS REACTORS:

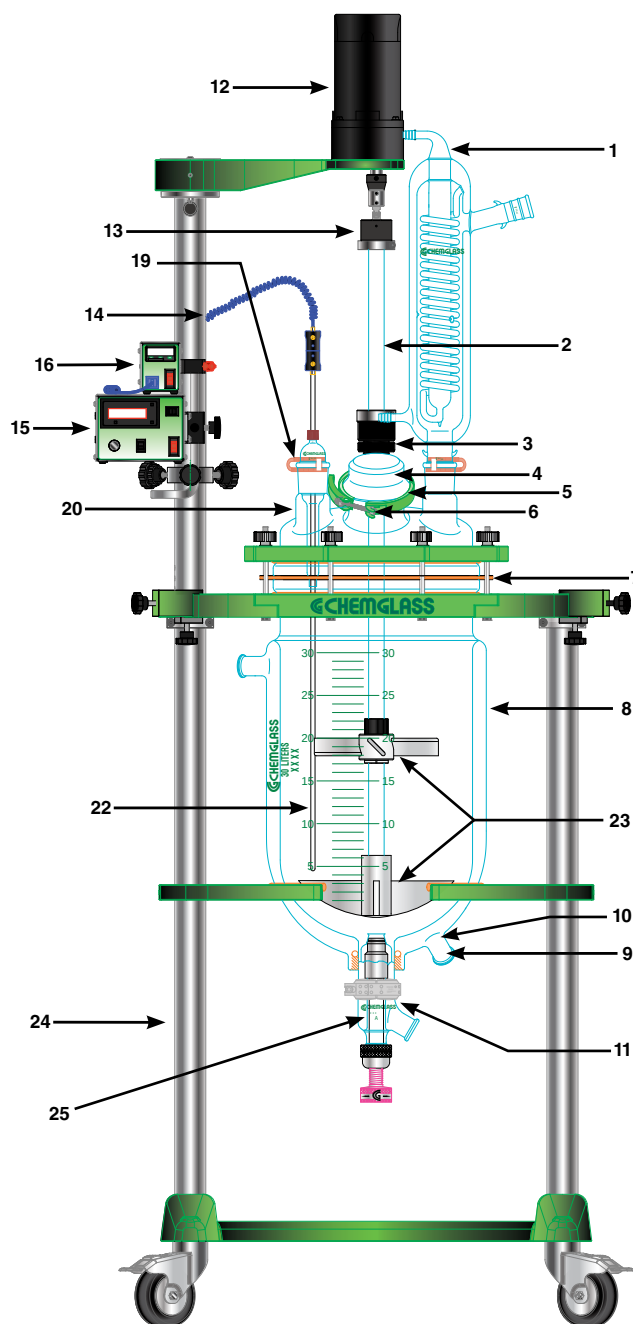
Part Number	Description	Motor Type	Overall Height W/ Motor (in)	Clearance Below Valve (in)
CG-1968-630	30L Process Reactor, Complete	Electric	84.6	18.6
CG-1970-630	30L Process Reactor, Complete	Air	81.0	18.6

COMPLETE WITH CG-1969-M-06 MANIFOLD WITH M30 CIRCULATOR FITTINGS

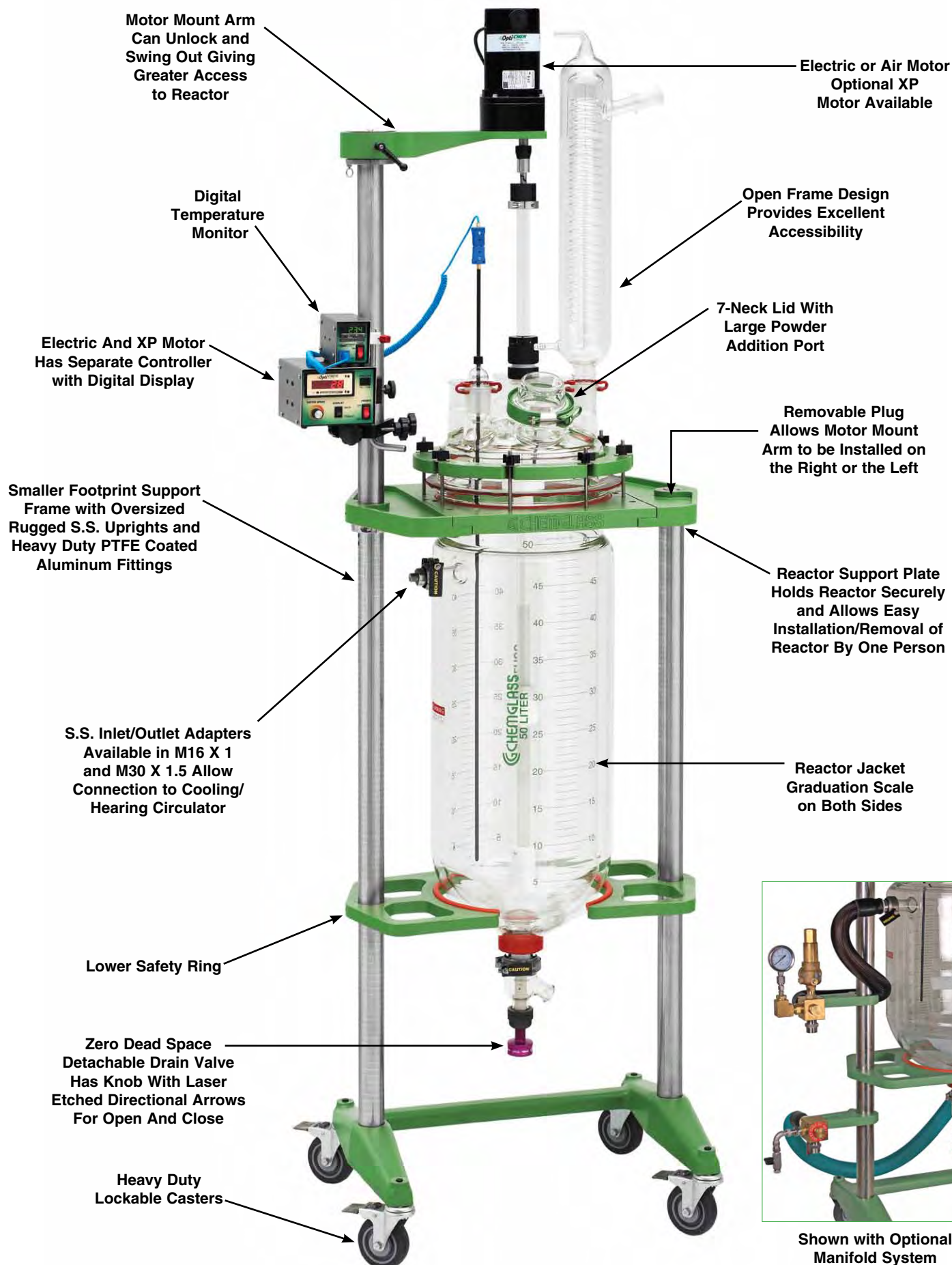
Part Number	Description
CG-1968-630M	30L Process Reactor, Complete, Electric
CG-1970-630M	30L Process Reactor, Complete, Air

Standard Components Supplied With Complete Process Reactors:

No.	Part No.	Description
1	CG-1215-C-10	High Efficiency Condenser, 45/50
2	CG-2097-31	25.4mm Stirrer Shaft, 42-3/8" OAL
3	CG-2077-H-06	25.4mm PTFE Stir Bearing
4	CG-149-06	80mm Glass Cap
5	CG-141-T-10	80mm S.S. Clamp, PTFE Coated
6	CG-147-79	80mm FEP Encased S.S. Spring O-Ring
7	CG-1968-G-01	300mm Envelope Gasket
8	CG-1968-61	30L Jacketed Reaction Vessel
9	CG-1969-A-05	S.S. Adapter, 1" Beaded Pipe to M16 X 1 Male (2ea)
10	CG-1968-66	1" Beaded Pipe Coupling (2ea)
11	CG-1968-67	2" Beaded Pipe Coupling
12a	CG-2033-11	Electric Stir Motor, 1/4Hp, 500 RPM
12b	CG-2025-20	Air Motor, 3/8Hp
12c	CG-2025-10	Filter-Regulator-Lubricator (Air Motor Only)
13a	CG-2046-90	25.4mm Shaft Coupling, (Electric)
13b	CG-2046-91	25.4mm Shaft Coupling, (Air)
14	CG-3499-02	10ft Coiled Extension Cord, "T"
15	CG-2033-31	Stir Motor Controller (Electric Only)
16	CG-3498-01	Temperature Monitor, "T"
17	CG-3498-03	1/2" OD Rod, 90° Bend (2ea)
18	CG-9253-20	Universal Kwik Mount Klamp (2ea)
19	CG-1042-E-10	Thermocouple Adapter, 45/50
20	CG-1968-A-01	7-Neck Lid, 300mm
21	CG-2093-21	PTFE Flake Catching Cup, 25.4mm
22	CG-3498-108	1/4" Diameter X 32" Long Thermocouple, "T"
23a	CG-2095-23	8" OD PTFE Agitator, 60°
23b	CG-2096-12	10" OD PTFE Agitator, High Viscosity
24	CG-1968-X-12	New Open Support Frame, 75.25" OAH
25	CG-1968-Q-01	Zero Dead Space Drain Valve
--	CG-3002-L-45	45/50 PTFE Stopper With Loosening Ring (2ea)
--	CG-145-09	45/50 Keck Clips (PK10)
---	CG-2048-03	25.4mm Safety Collar with PTFE Gasket
---	CG-1963-B-10	Beam Torque Wrench
---	CG-1963-B-14	7/16" Deep Socket, 6 Point, 1/4" Drive



REACTORS, JACKETED, 50L



REACTORS, JACKETED, 50L

50L PROCESS REACTOR, CYLINDRICAL, JACKETED, ELECTRIC OR AIR MOTOR

Complete reactor system on our NEW open air stand. Supplied with the components listed below and numbered on the schematic drawing. Optional items are listed on the following pages. **PLEASE NOTE: REACTOR STAND OVERALL HEIGHT WITH MOTOR AND CLEARANCE BELOW VALVE, ARE CALCULATED FOR ALL CHEMGLASS STIRRER BEARINGS, INCLUDING THE CG-2077-M MECHANICAL SEAL STIR BEARING.**

50L COMPLETE PROCESS REACTORS:

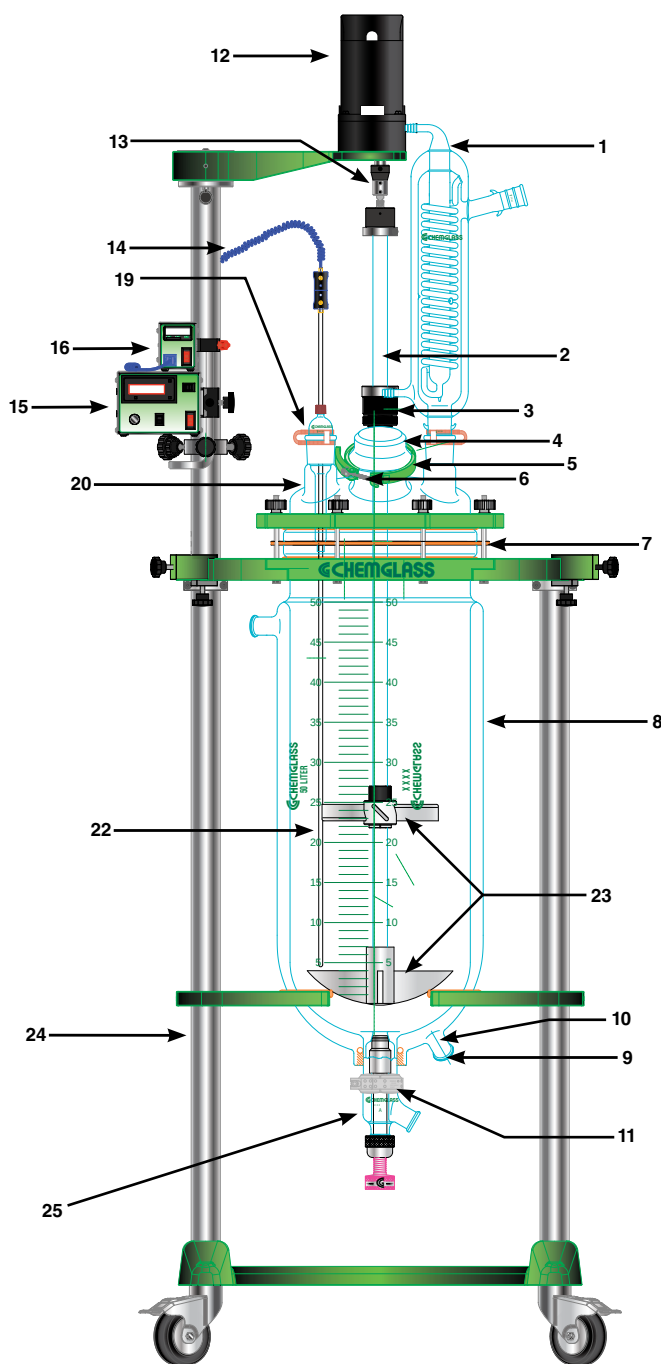
Part Number	Description	Motor Type	Overall Height W/ Motor (in)	Clearance Below Valve (in)
CG-1968-650	50L Process Reactor, Complete	Electric	92.8	16.2
CG-1970-650	50L Process Reactor, Complete	Air	89.3	16.2

COMPLETE WITH CG-1969-M-06 MANIFOLD WITH M30 CIRCULATOR FITTINGS

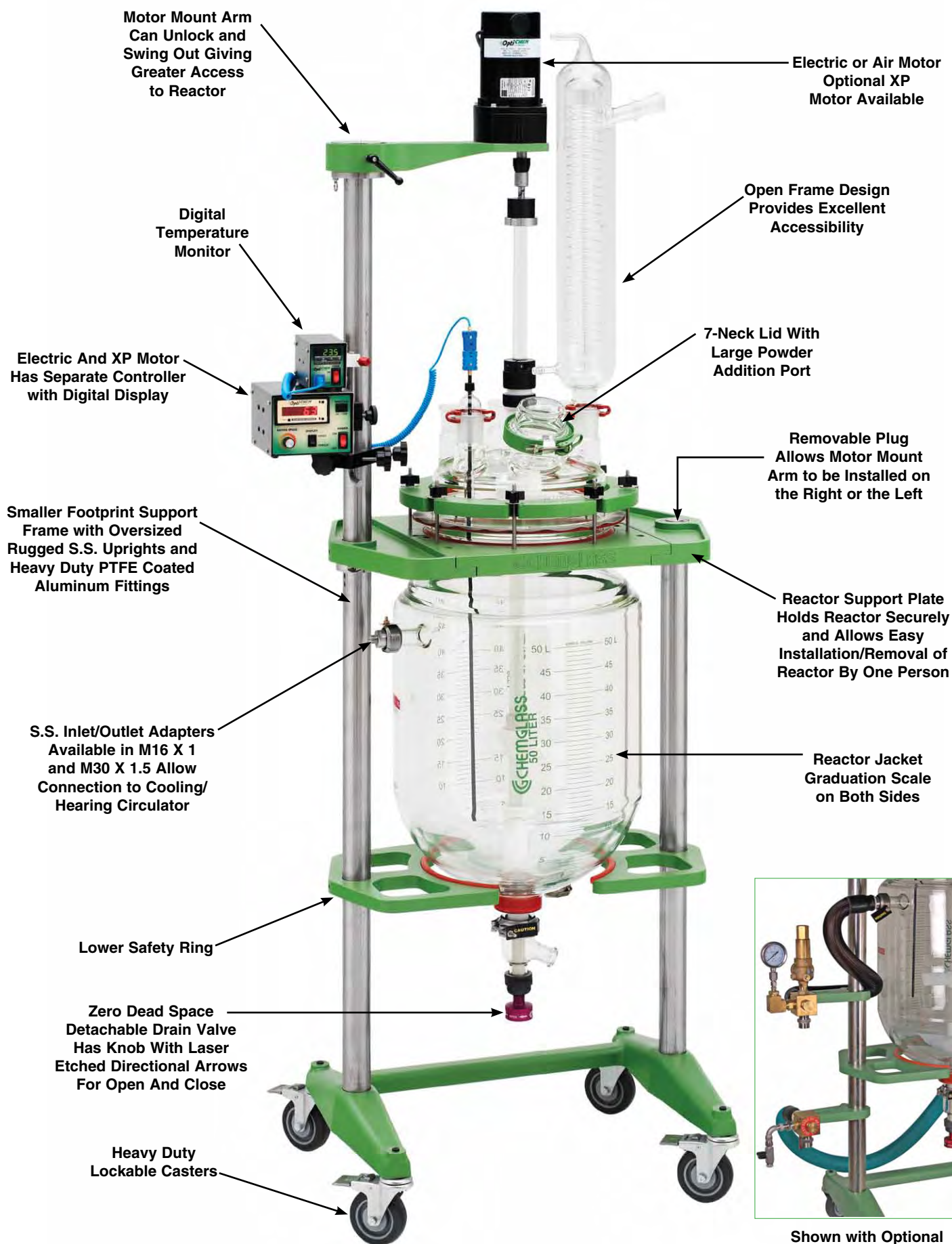
Part Number	Description
CG-1968-650M	50L Process Reactor, Complete, Electric
CG-1970-650M	50L Process Reactor, Complete, Air

Standard Components Supplied With Complete Process Reactors:

No.	Part No.	Description
1	CG-1215-C-10	High Efficiency Condenser, 45/50
2	CG-2097-53	25.4mm Stirrer Shaft
3	CG-2077-H-06	25.4mm PTFE Stir Bearing
4	CG-149-06	80mm Glass Cap
5	CG-141-T-10	80mm S.S. Clamp, PTFE Coated
6	CG-147-79	80mm FEP Encased S.S. Spring O-Ring
7	CG-1968-G-01	300mm Envelope Gasket
8	CG-1968-81	50L Jacketed Reaction Vessel
9	CG-1969-A-06	S.S. Adapter, 1" Beaded Pipe to M16 x 1.5 Male (2ea)
10	CG-1968-66	1" Beaded Pipe Coupling (2ea)
11	CG-1968-67	2" Beaded Pipe Coupling
12a	CG-2033-11	Electric Stir Motor, 1/4Hp, 500 RPM
12b	CG-2025-20	Air Motor, 3/8Hp
12c	CG-2025-10	Filter-Regulator-Lubricator (Air Motor Only)
13a	CG-2046-90	25.4mm Shaft Coupling, (Electric)
13b	CG-2046-91	25.4mm Shaft Coupling, (Air)
14	CG-3499-02	10ft Coiled Extension Cord, "T"
15	CG-2033-31	Stir Motor Controller (Electric Only)
16	CG-3498-01	Temperature Monitor, "T"
17	CG-3498-03	1/2" OD Rod, 90° Bend (2ea)
18	CG-9253-20	Universal Kwik Mount Klamp (2ea)
19	CG-1042-E-10	Thermocouple Adapter, 45/50
20	CG-1968-A-01	7-Neck Lid, 300mm
21	CG-2093-21	PTFE Flake Catching Cup, 25.4mm
22	CG-3498-110	1/4" Diameter X 45" Long Thermocouple, "T"
23a	CG-2095-23	8" OD PTFE Agitator, 60°
23b	CG-2096-12	10" OD PTFE Agitator, High Viscosity
24	CG-1968-X-14	New Open Support Frame, 73.50" OAH
25	CG-1968-Q-01	Zero Dead Space Drain Valve
--	CG-3002-L-45	45/50 PTFE Stopper With Loosening Ring (2ea)
--	CG-145-09	45/50 Keck Clips (PK10)
---	CG-2048-03	25.4mm Safety Collar with PTFE Gasket
---	CG-1963-B-10	Beam Torque Wrench
---	CG-1963-B-14	7/16" Deep Socket, 6 Point, 1/4" Drive



REACTORS, JACKETED, 50L



REACTORS, JACKETED, 50L

50L PROCESS REACTOR, CYLINDRICAL, JACKETED, ELECTRIC OR AIR MOTOR, SQUATTY

Complete reactor system on our NEW open air stand. Supplied with the components listed below and numbered on the schematic drawing. Optional items are listed on the following pages. **PLEASE NOTE: REACTOR STAND OVERALL HEIGHT WITH MOTOR AND CLEARANCE BELOW VALVE, ARE CALCULATED FOR ALL CHEMGLASS STIRRER BEARINGS, INCLUDING THE CG-2077-M MECHANICAL SEAL STIR BEARING.**

50L COMPLETE PROCESS REACTORS:

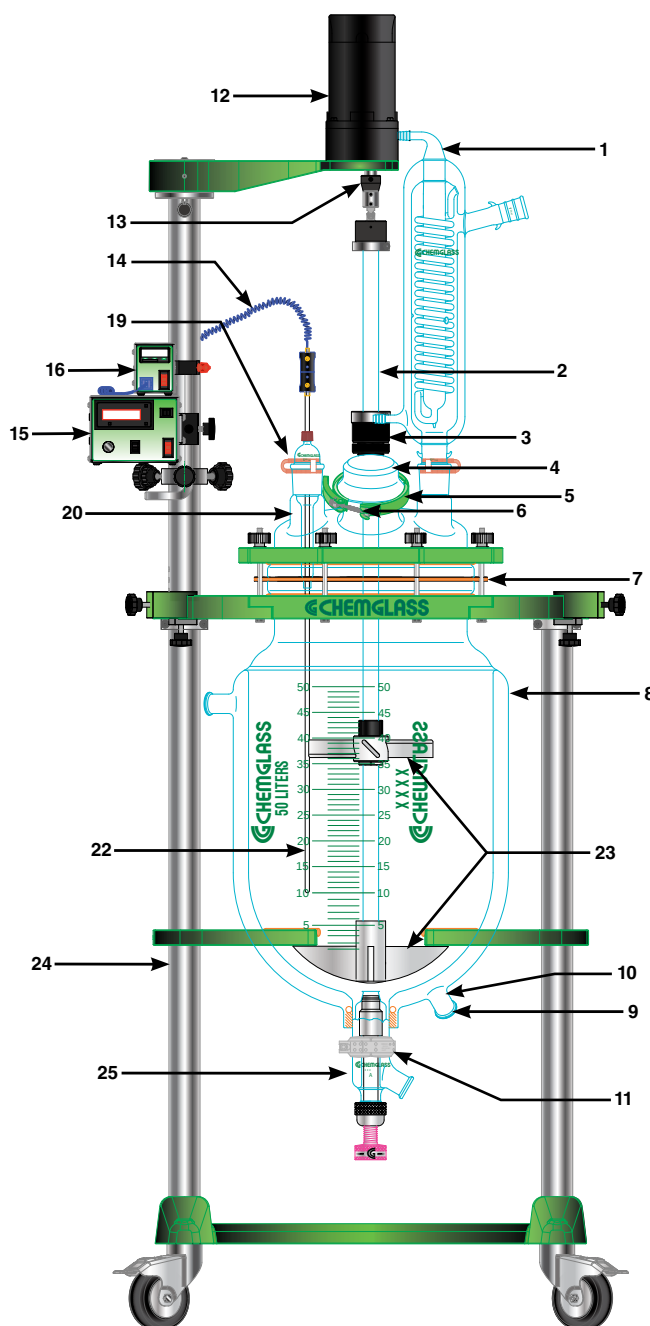
Part Number	Description	Motor Type	Overall Height W/ Motor (in)	Clearance Below Valve (in)
CG-1968-651	50L Process Reactor, Complete	Electric	84.6	15.2
CG-1970-651	50L Process Reactor, Complete	Air	81.0	15.2

COMPLETE WITH CG-1969-M-06 MANIFOLD WITH M30 CIRCULATOR FITTINGS

Part Number	Description
CG-1968-651M	50L Process Reactor, Complete, Electric
CG-1970-651M	50L Process Reactor, Complete, Air

Standard Components Supplied With Complete Process Reactors:

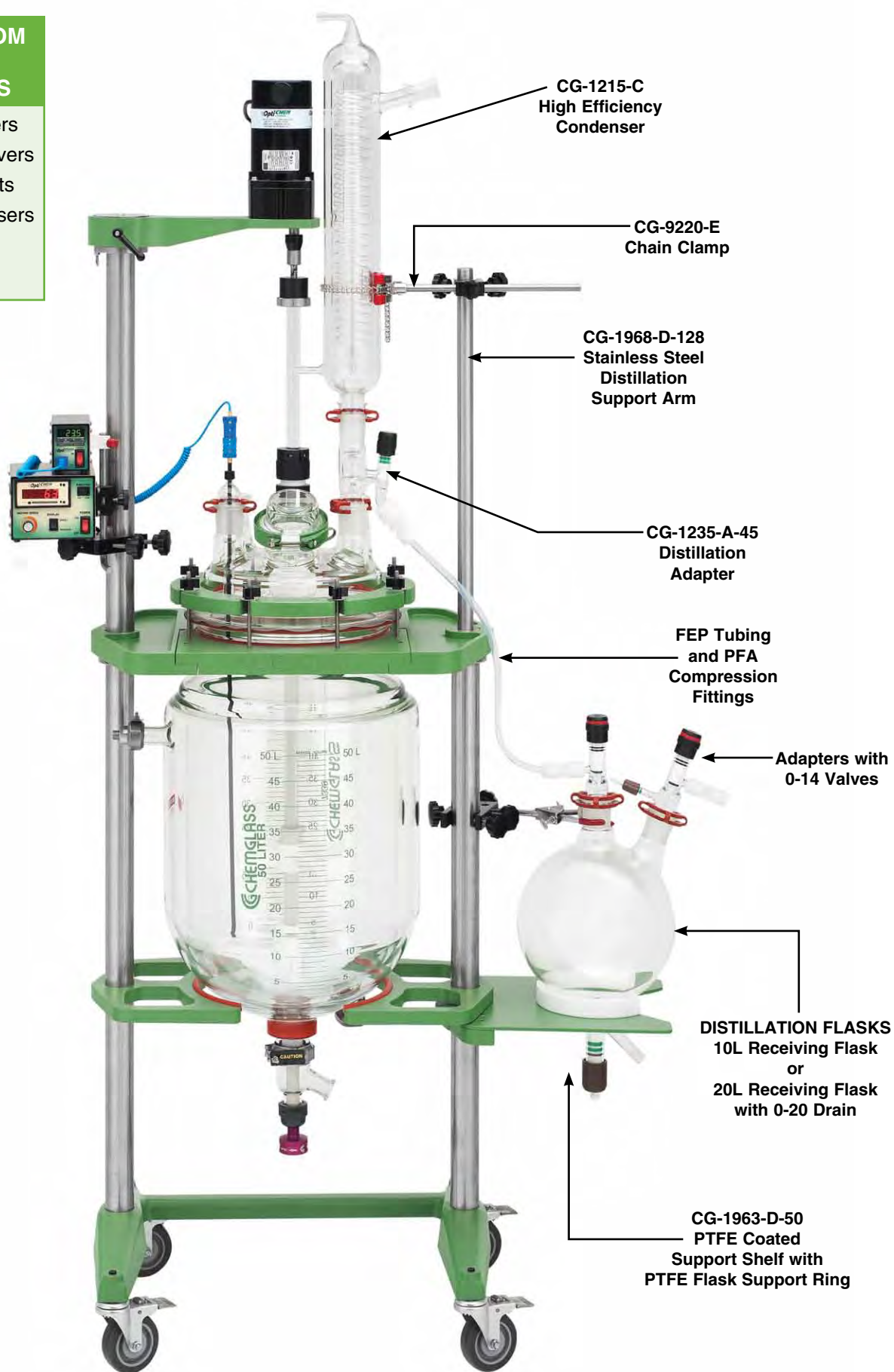
No.	Part No.	Description
1	CG-1215-C-10	High Efficiency Condenser, 45/50
2	CG-2097-51	25.4mm Stirrer Shaft
3	CG-2077-H-06	25.4mm PTFE Stir Bearing
4	CG-149-06	80mm Glass Cap
5	CG-141-T-10	80mm S.S. Clamp, PTFE Coated
6	CG-147-79	80mm FEP Encased S.S. Spring O-Ring
7	CG-1968-G-01	300mm Envelope Gasket
8	CG-1968-95	50L Squatty Jacketed Reaction Vessel
9	CG-1969-A-05	S.S. Adapter, 1" Beaded Pipe to M16 X 1 Male (2ea)
10	CG-1968-66	1" Beaded Pipe Coupling (2ea)
11	CG-1968-67	2" Beaded Pipe Coupling
12a	CG-2033-11	Electric Stir Motor, 1/4Hp, 500 RPM
12b	CG-2025-20	Air Motor, 3/8Hp
12c	CG-2025-10	Filter-Regulator-Lubricator (Air Motor Only)
13a	CG-2046-90	25.4mm Shaft Coupling, (Electric)
13b	CG-2046-91	25.4mm Shaft Coupling, (Air)
14	CG-3499-02	10ft Coiled Extension Cord, "T"
15	CG-2033-31	Stir Motor Controller (Electric Only)
16	CG-3498-01	Temperature Monitor, "T"
17	CG-3498-03	1/2" OD Rod, 90° Bend (2ea)
18	CG-9253-20	Universal Kwik Mount Klamp (2ea)
19	CG-1042-E-10	Thermocouple Adapter, 45/50
20	CG-1968-A-01	7-Neck Lid, 300mm
21	CG-2093-21	PTFE Flake Catching Cup, 25.4mm
22	CG-3498-108	1/4" Diameter x 32" Long Thermocouple, "T"
23a	CG-2095-23	8" OD PTFE Agitator, 60°
23b	CG-2096-12	10" OD PTFE Agitator, High Viscosity
24	CG-1968-X-12	New Open Support Frame, 75.25" OAH
25	CG-1968-Q-01	Zero Dead Space Drain Valve
--	CG-3002-L-45	45/50 PTFE Stopper With Loosening Ring (2ea)
--	CG-145-09	45/50 Keck Clips (PK10)
---	CG-2048-03	25.4mm Safety Collar with PTFE Gasket
---	CG-1963-B-10	Beam Torque Wrench
---	CG-1963-B-14	7/16" Deep Socket, 6 Point, 1/4" Drive



REACTORS

AVAILABLE CUSTOM OPTIONS FOR 30/50L REACTORS

- Jacketed RBF Receivers
- Cylindrical Style Receivers
- Dual Receiver Shelf Kits
- Different Style Condensers
- Detachable Drains for Receiving Vessels



CG-1968-D DISTILLATION KIT FOR 30/50L PROCESS REACTOR SYSTEM, SIDE SHELF

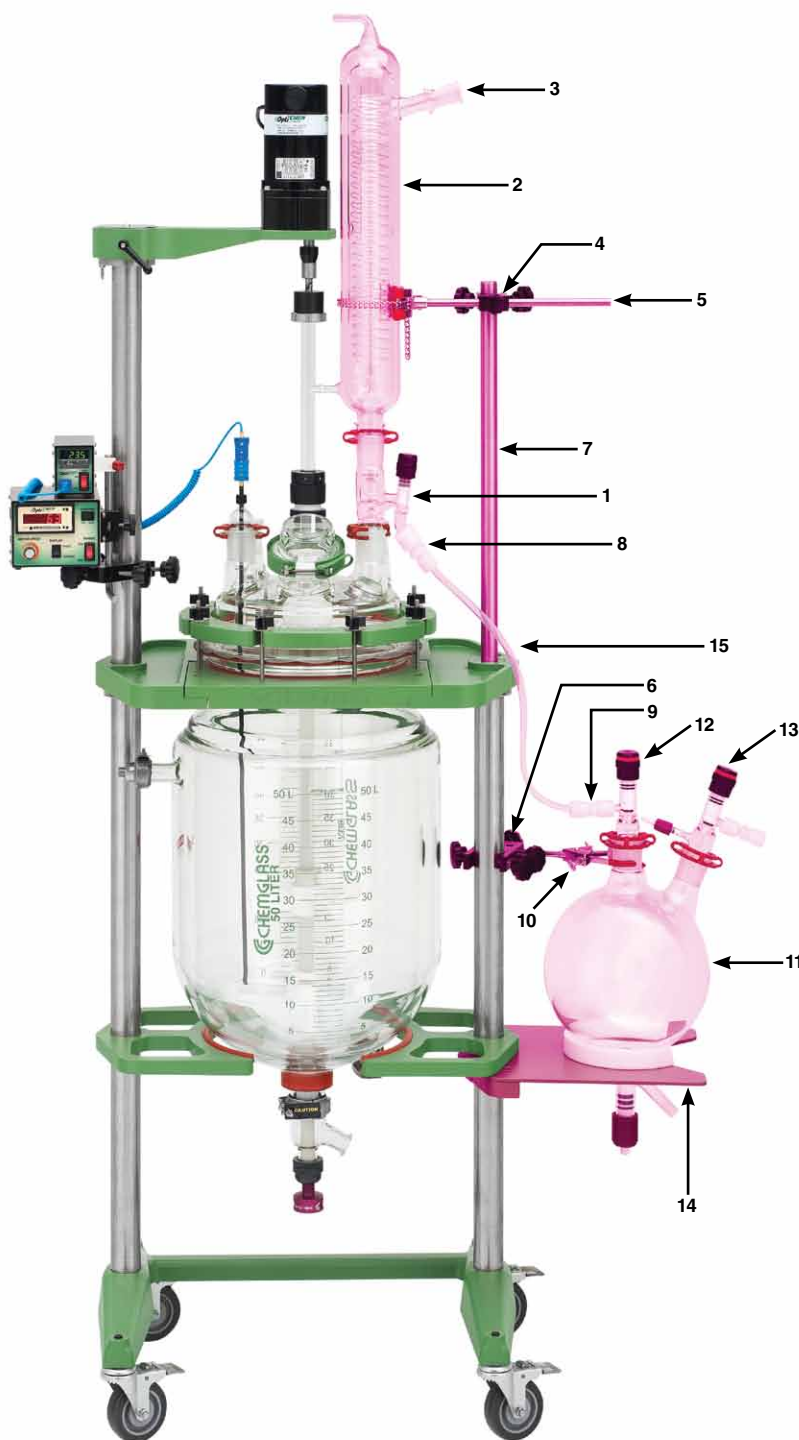
Distillation kit for Chemglass 30 and 50L reactor systems. Supplied complete with support shelf to fit CG-1968-X style frame and the components highlighted in the photo below. This add-on kit makes it easy to convert any of our standard reactors over to a complete distillation system. **PLEASE NOTE: REACTOR SYSTEM MUST BE PURCHASED SEPARATELY.**

SIDE SHELF DISTILLATION KIT ADD-ON FOR EXISTING REACTOR SYSTEM:

Part Number	Description	Receiving Flask Capacity
CG-1968-D-410	Distillation Shelf and Glassware Kit	10L
CG-1968-D-420	Distillation Shelf and Glassware Kit	20L

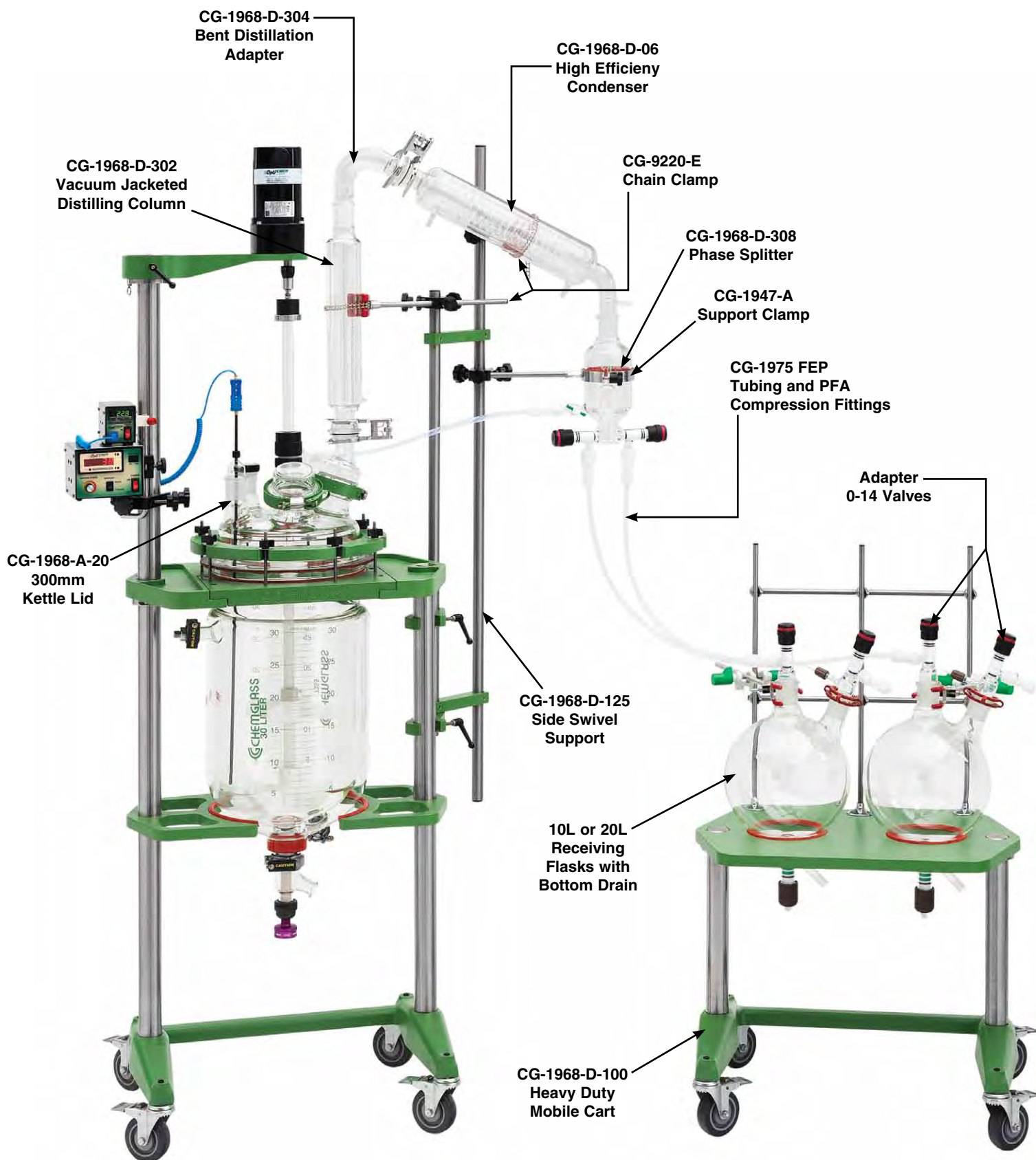
Standard Components Supplied With Complete Distillation Kits:

No.	Qty	Part No.	Description
1	1	CG-1235-A-45	Adapter, Distillation 45/50
2	1	CG-1215-C-10	Condenser, High Efficiency, 45/50
3	1	CG-1014-C-02	Adapter, inlet, 29/42
4	1	CG-9253-10	Kwik Clamp, Small
5	1	CG-9220-E-01	Chain Clamp, 12" Arm
6	1	CG-9253-20	Kwik Clamp, Large
7	1	CG-1968-D-128	Support Rod, Distillation for CG-1968-X frame
8	1	CG-1975-22	3/4 to 1/2 compression fitting
9	2	CG-1975-21	1/2 to 1/2 compression fitting
10	1	CG-9205-E-10	Clamp, 3-finger, 12"
11a	1	CG-1965-D-225	10L receiving flask, 2 Neck, 45/50 (for 10L Distillation system)
11b	1	CG-1965-D-230	20L receiving flask, 2 Neck, 45/50 (for 20L Distillation system)
12	1	CG-1965-D-210	Adapter, Distillation, 45/50 to 0-14 Valve
13	1	CG-1965-D215	Adapter, Distillation, Vent, 45/50 to 0-14 Valve
14	1	CG-1963-D-50	Shelf, Distillation
15	1	CG-1975-03	FEP Tubing; 1/2" OD x 3/8" ID x 10ft Long
--	1	CG-1975-30	Tubing Cutter



Highlighted Items
are Included in Kit

REACTORS



CG-1968-D DISTILLATION CART SYSTEM, FOR 30/50L PROCESS REACTOR SYSTEM, SIDE SHELF

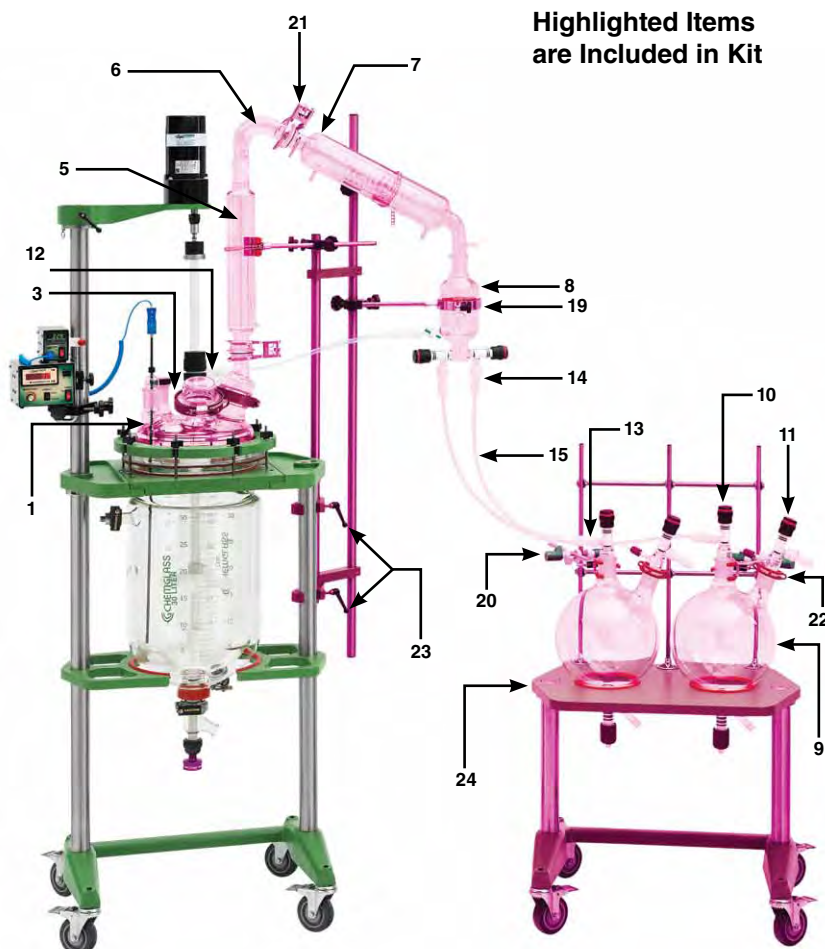
Diagonal distillation cart system for Chemglass 30 and 50L reactor systems. Supplied complete with glassware, swivel support assembly and cart system to fit CG-1968-X style frames. The components highlighted in the photo below. This add-on kit makes it easy to convert any of our standard reactors over to a complete distillation system. **PLEASE NOTE: REACTOR SYSTEM MUST BE PURCHASED SEPARATELY.**

DIAGONAL DISTILLATION CART SYSTEM ADD-ON FOR EXISTING REACTOR SYSTEM:

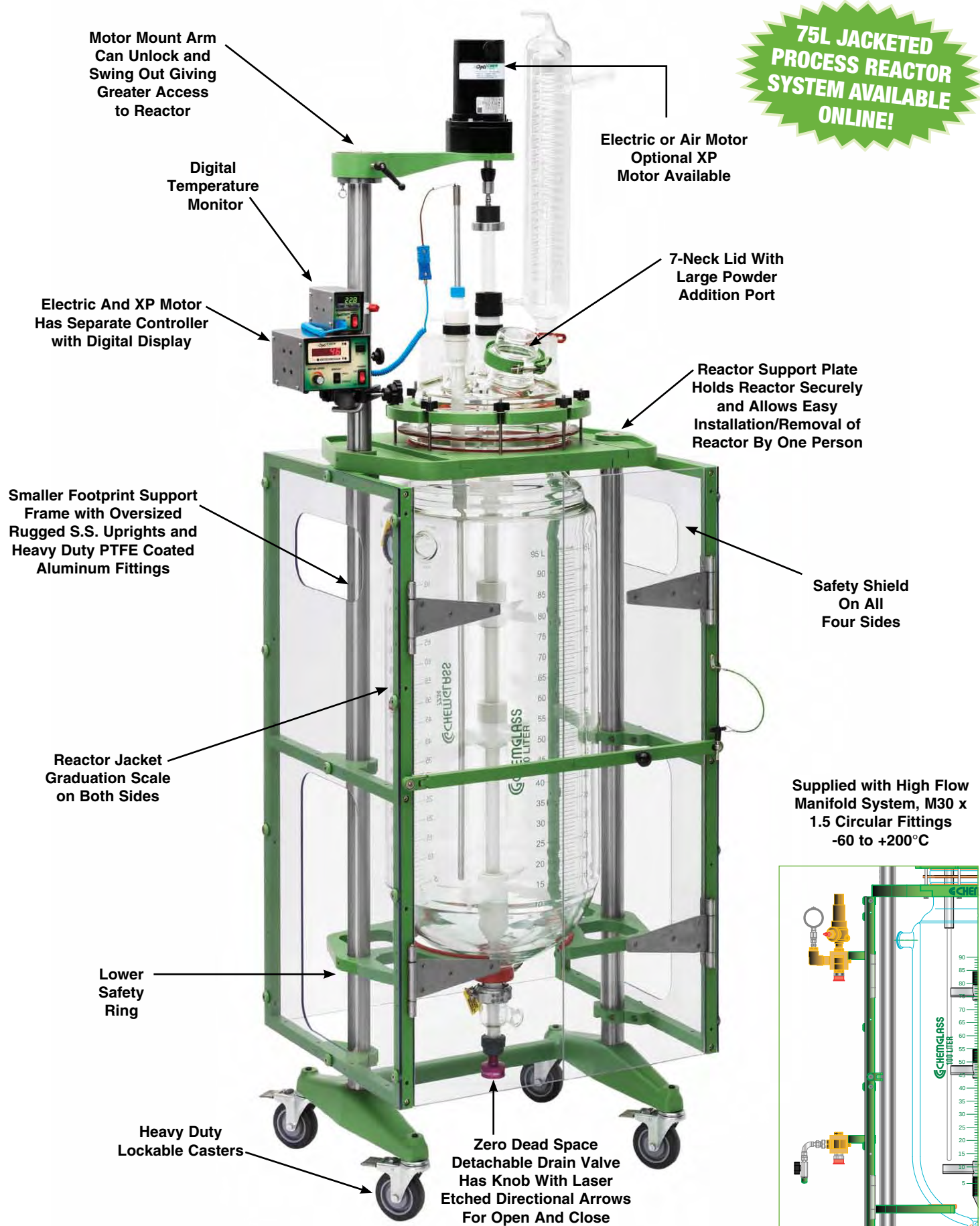
Part Number	Description	Receiving Flask Capacity
CG-1968-D-510	Distillation Shelf and Glassware Kit	10L
CG-1968-D-520	Distillation Shelf and Glassware Kit	20L

Standard Components Supplied With Distillation Kits:			
No.	Qty	Part No.	Description
1	1	CG-1968-A-20	300mm Reaction Kettle Lid, 45/50, Center Neck, 3-45/50 Side Neck
2	1	CG-1968-D-300	160° Adapter, 65/40 Polished Socket joint to 80mm Flat Flange
3	1	CG-141-T-10	80mm Quick Release Clamp, PTFE Coated
4	1	CG-147-81	O-Ring, Perfluoro, 80mm Flange WHITE
5	1	CG-1968-D-302	Distilling Column, Vacuum Jacketed, 45/50 Outer on Top, 65/40 O-ring ball
6	1	CG-1968-D-304	Bent Connecting Adapter, 45/50 Inner Sealed to 65/40 O-Ring Ball
7	1	CG-1968-D-306	High Efficiency Condenser, 65/40 Socket on Top, Angled 45/50 Inner
8	1	CG-1968-D-308	Phase Splitter, 45/50 Outer on Top, 0-14 Valves
9a	2	CG-1965-D-225	10 Liter Receiving Flask, 2 Neck, 45/50 Outer CN, Angled 45/50 (For 10L System)
9b	2	CG-1965-D-230	20 Liter Receiving Flask, 2 Neck, 45/50 Outer CN, Angled 45/50 (For 20L System)
10	2	CG-1965-D-210	Adapter, 0-14mm Valve to 45/50 Inner joint, 1/2" Swagelock
11	2	CG-1965-D-215	Adapter, 0-14mm Valve to 45/50 Inner joint, 1/2" Swagelock
12	1	CG-1014-C-03	90° Inlet Adapter, 45/50 Inner, 1/2" Swagelock, Valve
13	6	CG-1975-21	1/2" to 1/2" PFA Compression Fitting
14	2	CG-1975-22	3/4" to 1/2" PFA Compression Fitting
15	1	CG-1975-04	PTFE Tubing, 1/2" OD x 3/8" ID, 20ft Length
--	1	CG-1975-30	Tubing Cutter
16	4	CG-9253-10	Small Kwik Mount Klamp
17	2	CG-9205-E-11	Clamp, Three Prong Extension, Large, Dual Adjust, 1/2" OD x 12"
18	2	CG-9220-01	Small Chain Clamp

Standard Components Supplied With Distillation Kits (continued):			
No.	Qty	Part No.	Description
19	1	CG-1947-A100	Clamp, Support
20	2	CG-2040-C-01	Heavy Duty Clamp Holder, Fit 1/4" to 5/8" Support Rod
21	2	CG-150-09	#65 Stainless Steel Spherical Clamp
22	1	CG-145-09	Keck Clamp, Brown, fits 45/50 Joint size, 10/Pkg
23	1	CG-1968-D-125	Side Swivel Extension Assembly, for Support Stand, Complete
24	1	CG-1968-D-100	Heavy Duty Mobile Cart, Lattice and Holes for Receiving Flasks



REACTORS, JACKETED, 100L



REACTORS, JACKETED, 100L

100L PROCESS REACTOR, CYLINDRICAL, JACKETED, ELECTRIC OR AIR MOTOR

Complete reactor system on our NEW open air stand. Supplied with the components listed below and numbered on the schematic drawing. Optional items are listed on the following pages. **PLEASE NOTE: REACTOR STAND OVERALL HEIGHT WITH MOTOR AND CLEARANCE BELOW VALVE, ARE CALCULATED FOR ALL CHEMGLASS STIRRER BEARINGS, INCLUDING THE CG-2077-M MECHANICAL SEAL STIR BEARING.**

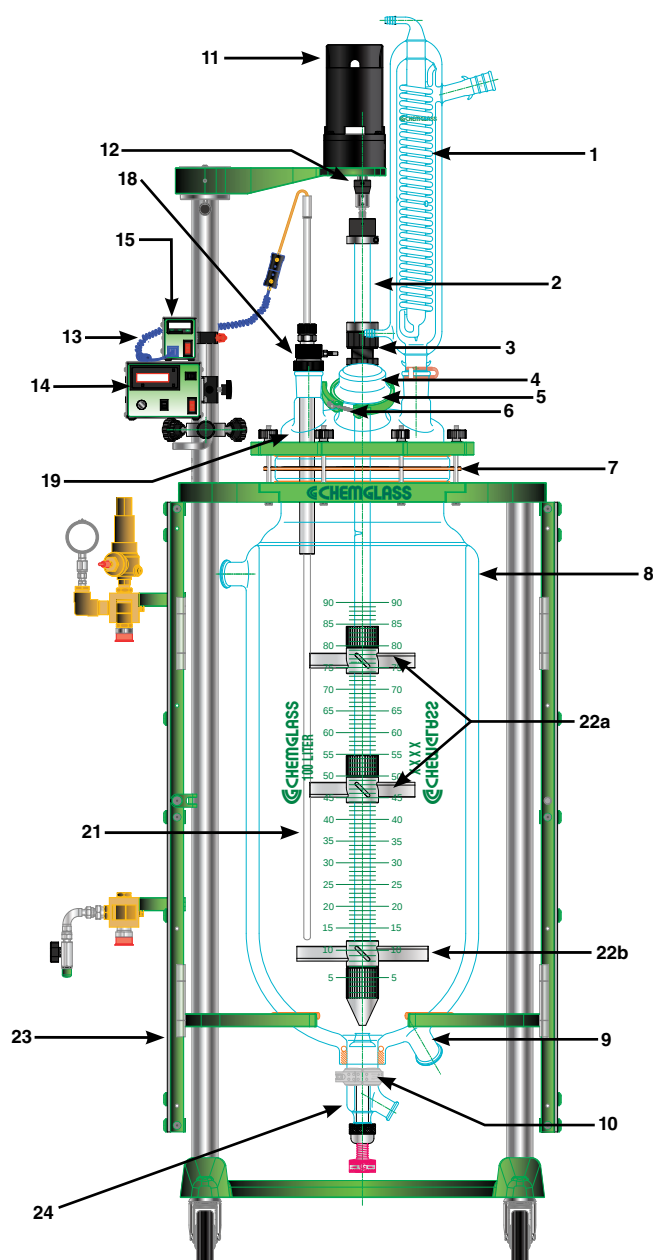
100L COMPLETE PROCESS REACTORS:

Complete Manifold With M30 Circulator Fittings

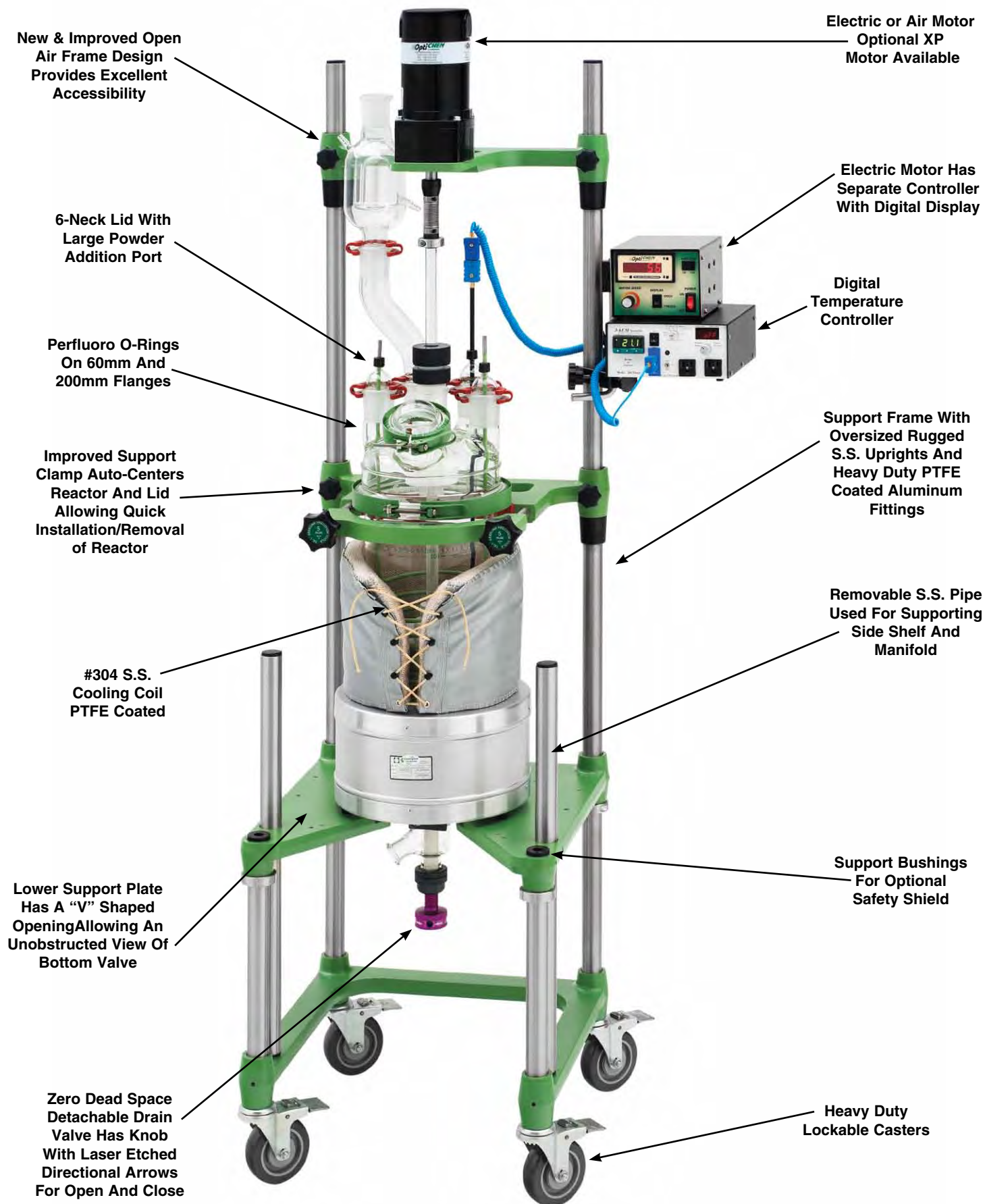
Part Number	Description	Motor Type	Overall Height W/ Motor (in)	Clearance Below Valve (in)
CG-1968-6100	100L Process Reactor, Complete	Electric	92.8	10.2
CG-1970-6100	100L Process Reactor, Complete	Air	89.3	10.2

Standard Components Supplied With Complete Process Reactors:

No.	Part No.	Description
1	CG-1215-C-10	High Efficiency Condenser, 45/50
2	CG-2097-100	30mm Stirrer Shaft
3	CG-2077-H-07	30mm PTFE Stir Bearing
4	CG-149-06	80mm Glass Cap
5	CG-141-T-10	80mm S.S. Clamp, PTFE Coated
6	CG-147-79	80mm FEP Encased S.S. Spring O-Ring
7	CG-1968-G-01	300mm Envelope Gasket
8	CG-1968-99	100L Jacketed Reaction Vessel
9	CG-1968-69	1 1/2" Beaded Pipe Coupling (2ea)
10	CG-1968-67	2" Beaded Pipe Coupling
11a	CG-2033-11	Electric Stir Motor, 1/4Hp, 500 RPM
11b	CG-2025-20	Air Motor, 3/8Hp
11c	CG-2025-10	Filter-Regulator-Lubricator (Air Motor Only)
12a	CG-2046-95	30mm Shaft Coupling, (Electric)
12b	CG-2046-96	30mm Shaft Coupling, (Air)
13	CG-3499-02	10ft Coiled Extension Cord, "T"
14	CG-2033-31	Stir Motor Controller (Electric Only)
15	CG-3498-01	Temperature Monitor, "T"
16	CG-3498-03	1/2" OD Rod, 90° Bend (2ea)
17	CG-9253-20	Universal Kwik Mount Klamp (2ea)
18	CG-1971-87	Thermocouple Adapter, 45/50, Stabilizer, PTFE
19	CG-168-A-01	7-Neck Lid, 300mm
20	CG-2093-22	PTFE Flake Catching Cup, 30mm
21	CG-3498-118	1/2" Diameter X 55" Long Thermocouple, "T"
22a	CG-2095-R51	8" OD PTFE Agitator, 60° (2ea)
22b	CG-2095-R55	10" OD PTFE Agitator, High Viscosity
23	CG-1968-X-24M	New Open Support Frame, 73.50" OAH And Complete Manifold
24	CG-1968-Q-02	Zero Dead Space Drain Valve
--	CG-3002-L-45	45/50 PTFE Stopper With Loosening Ring (2ea)
--	CG-145-09	45/50 Keck Clips (PK10)
---	CG-2048-04	30mm Safety Collar with PTFE Gasket
---	CG-1963-B-10	Beam Torque Wrench
---	CG-1963-B-14	7/16" Deep Socket, 6 Point, 1/4" Drive



REACTORS, UNJACKETED, 10L



REACTORS, UNJACKETED, 10L

10L PROCESS REACTOR, CYLINDRICAL, UNJACKETED, ELECTRIC OR AIR MOTOR

Complete reactor system on our NEW open air, auto-center stand. Supplied with the components listed below and numbered on the schematic drawing. Optional items are listed on the following pages. **PLEASE NOTE: REACTOR STAND OVERALL HEIGHT WITH MOTOR AND CLEARANCE BELOW VALVE, ARE CALCULATED FOR ALL CHEMGLASS STIRRER BEARINGS, INCLUDING THE CG-2077-M MECHANICAL SEAL STIR BEARING.**

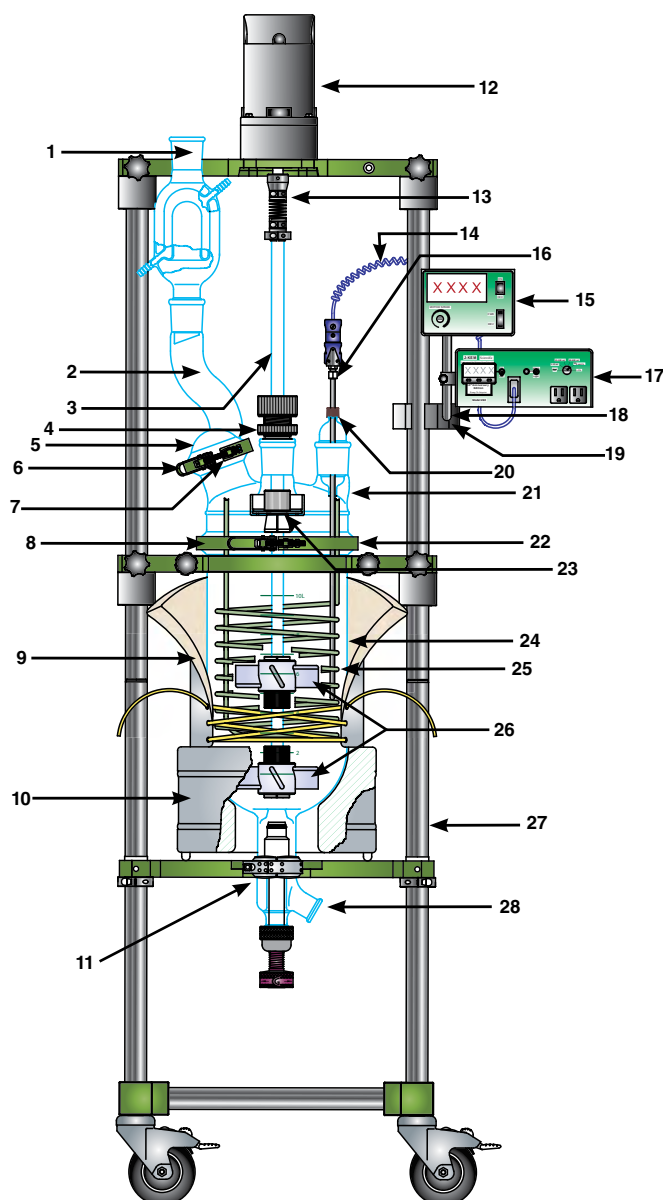
10L COMPLETE PROCESS REACTORS:

Part Number	Description	Motor Type	Overall Height W/ Motor (in)	Clearance Below Valve (in)
CG-1967-610	10L Process Reactor, Complete	Electric	72.1	15.3
CG-1966-610	10L Process Reactor, Complete	Air	69.0	15.3

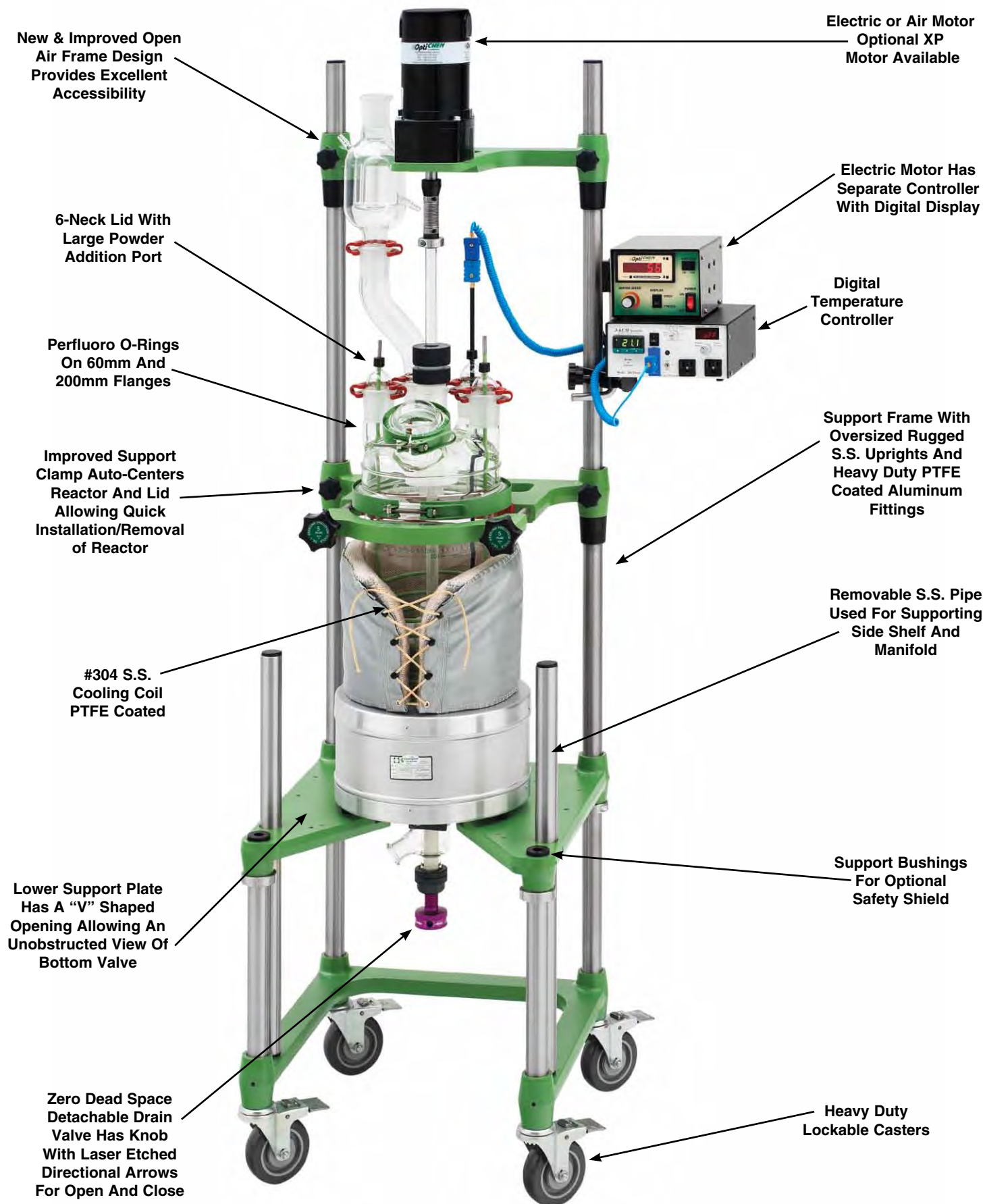
Standard Components Supplied With Complete Process Reactors:

No.	Part No.	Description
1	CG-1217-25	Condenser, 45/50
2	CG-1033-45	Offset Adapter, 45/50
3	CG-2097-10	19mm Stirrer Shaft, 30-5/8" OAL
4	CG-2077-H-05	19mm PTFE Stir Bearing
5	CG-149-01	60mm Glass Cap
6	CG-141-T-11	60mm S.S. Clamp, PTFE Coated
7	CG-147-80	60mm Perfluoro O-Ring
8	CG-147-84	200mm Perfluoro O-Ring
9	CG-10013-10	10L Heating Mantle, Fabric with Slit, 115V
10	CG-12012-10	10L Heating Mantle, Aluminum Housed, 115V
11	CG-1968-67	2" Beaded Pipe Coupling
12a	CG-2033-11	Electric Stir Motor, 1/4Hp, 500 RPM
12b	CG-2025-20	Air Motor, 3/8Hp
12c	CG-2025-10	Filter-Regulator-Lubricator (Air Motor Only)
13a	CG-2044-20	19mm Tru-Stir® Shaft Coupling, (Electric)
13b	CG-2044-16	19mm Tru-Stir® Shaft Coupling, (Air)
14	CG-3499-05	10ft Coiled Extension Cord, "T"
15	CG-2033-31	Stir Motor Controller (Electric Only)
16	CG-3498-106	1/4" Diameter X 26" Long Thermocouple, "T"
17	CG-3205-91	Temperature Controller, "T"
18	CG-3498-03	1/2" OD Rod, 90° Bend
19	CG-9253-10	Universal Kwik Mount Klamp
20	CG-1042-E-10	Thermocouple Adapter, 45/50
21	CG-1946-C-10	6-Neck Lid, 200mm
22	CG-141-T-15	200mm S.S. Clamp, PTFE Coated
23	CG-2093-20	PTFE Flake Catching Cup
24	CG-1924-31	10L Unjacketed Reaction Vessel
25	CG-1966-07	10L S.S. PTFE Coated Cooling Coil
26	CG-2095-05	5" OD PTFE Agitator, 60° (2ea)
27	CG-1965-X-150	Auto-Center Support Frame, 65.25" OAH
28	CG-1968-Q-01	Zero Dead Space Drain Valve
--	CG-145-09	45/50 Keck Clips (PK10)
---	CG-1042-45	Adapter, 45/50, Coil (2ea)
---	CG-1963-B-10	Beam Torque Wrench
---	CG-1963-B-14	7/16" Deep Socket, 6 Point, 1/4" Drive

**15L UNJACKETED
PROCESS REACTOR
SYSTEM AVAILABLE
ONLINE!**



REACTORS, UNJACKETED, 20L



REACTORS, UNJACKETED, 20L

20L PROCESS REACTOR, CYLINDRICAL, UNJACKETED, ELECTRIC OR AIR MOTOR

Complete reactor system on our NEW open air, auto-center stand. Supplied with the components listed below and numbered on the schematic drawing. Optional items are listed on the following pages. **PLEASE NOTE: REACTOR STAND OVERALL HEIGHT WITH MOTOR AND CLEARANCE BELOW VALVE, ARE CALCULATED FOR ALL CHEMGLASS STIRRER BEARINGS, INCLUDING THE CG-2077-M MECHANICAL SEAL STIR BEARING.**

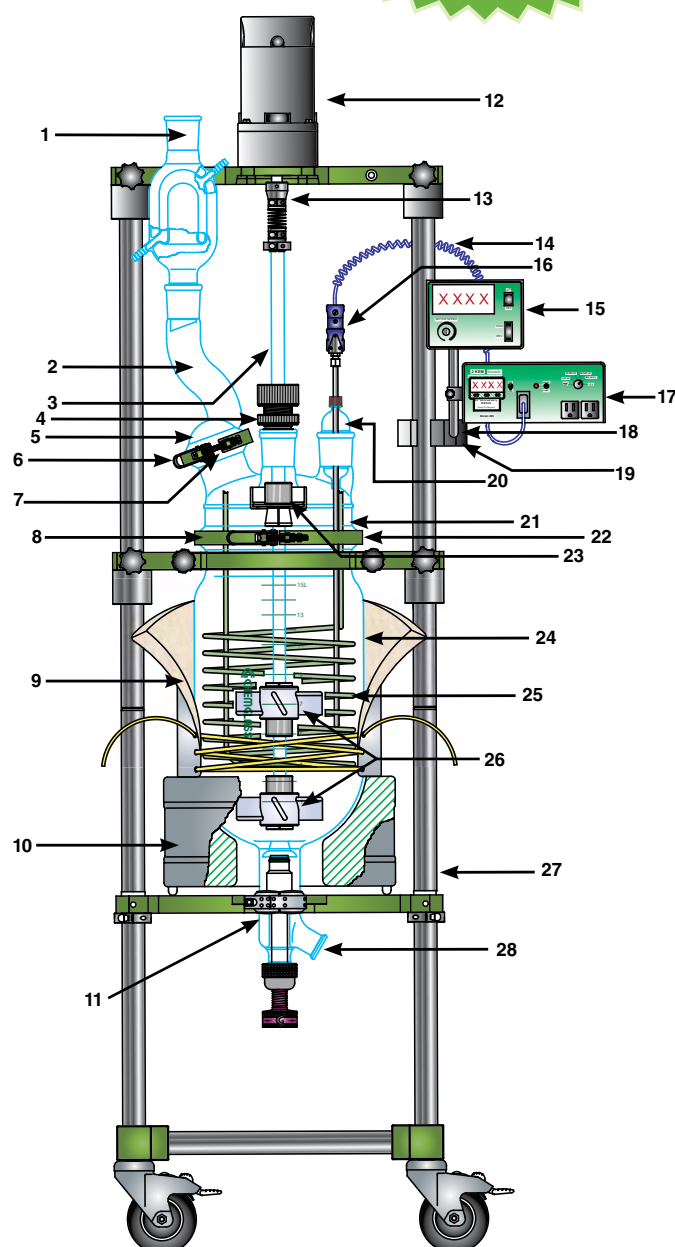
20L COMPLETE PROCESS REACTORS:

Part Number	Description	Motor Type	Overall Height W/ Motor (in)	Clearance Below Valve (in)
CG-1967-620	20L Process Reactor, Complete	Electric	72.1	15.3
CG-1966-620	20L Process Reactor, Complete	Air	69.0	15.3

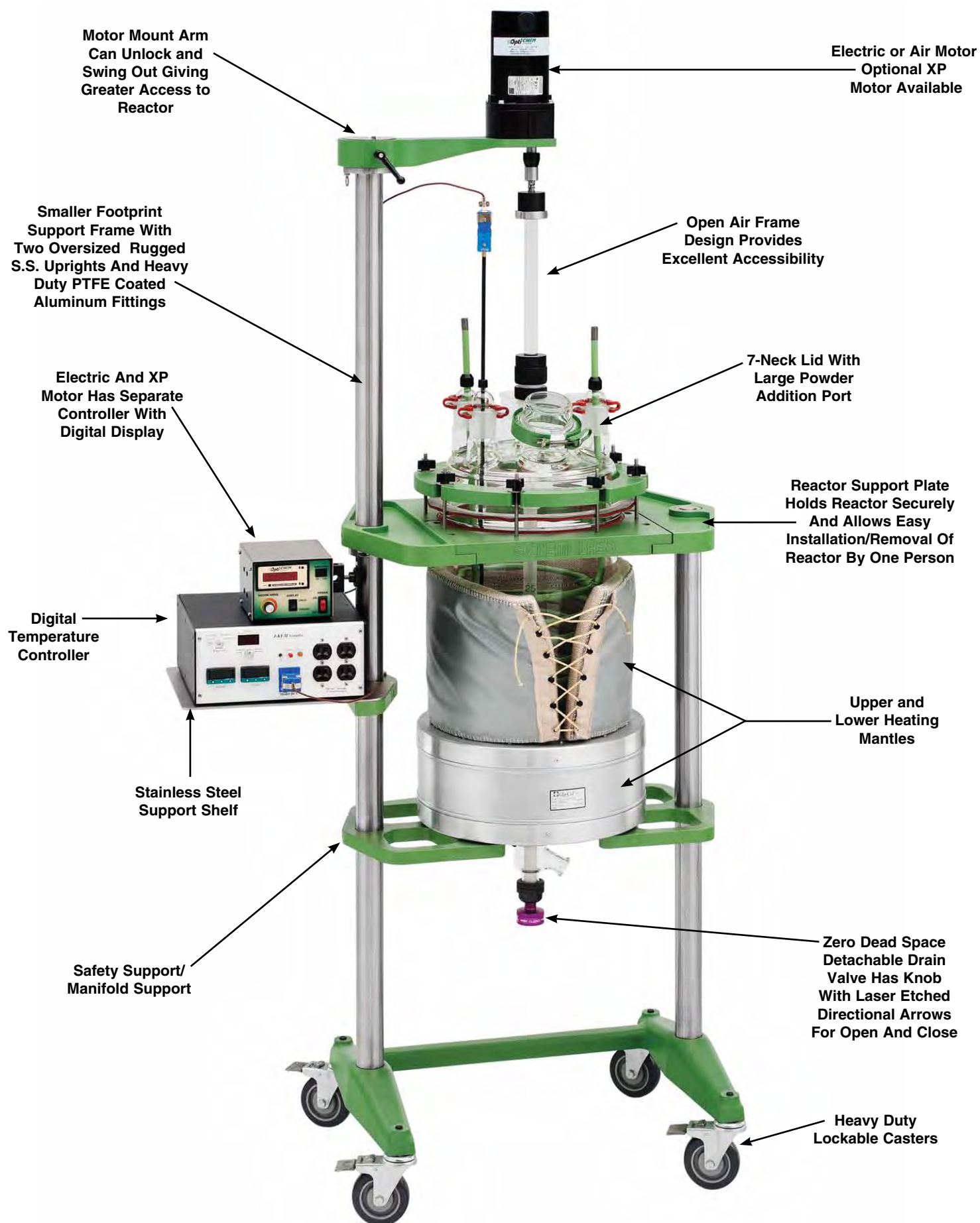
Standard Components Supplied With Complete Process Reactors:

No.	Part No.	Description
1	CG-1217-25	Condenser, 45/50
2	CG-1033-45	Offset Adapter, 45/50
3	CG-2097-12	19mm Stirrer Shaft, 34-5/8" OAL
4	CG-2077-H-05	19mm PTFE Stir Bearing
5	CG-149-01	60mm Glass Cap
6	CG-141-T-11	60mm S.S. Clamp, PTFE Coated
7	CG-147-80	60mm Perfluoro O-Ring
8	CG-147-84	200mm Perfluoro O-Ring
9	CG-10013-20	20L Heating Mantle, Fabric with Slit, 115V
10	CG-12012-20	20L Heating Mantle, Aluminum Housed, 115V
11	CG-1968-67	2" Beaded Pipe Coupling
12a	CG-2033-11	Electric Stir Motor, 1/4Hp, 500 RPM
12b	CG-2025-20	Air Motor, 3/8Hp
12c	CG-2025-10	Filter-Regulator-Lubricator (Air Motor Only)
13a	CG-2044-20	19mm Tru-Stir® Shaft Coupling, (Electric)
13b	CG-2044-16	19mm Tru-Stir® Shaft Coupling, (Air)
14	CG-3499-05	10ft Coiled Extension Cord, "T"
15	CG-2033-31	Stir Motor Controller (Electric Only)
16	CG-3498-106	1/4" Diameter X 26" Long Thermocouple, "T"
17	CG-3205-91	Temperature Controller, "T"
18	CG-3498-03	1/2" OD Rod, 90° Bend
19	CG-9253-10	Universal Kwik Mount Klamp
20	CG-1042-E-10	Thermocouple Adapter, 45/50
21	CG-1946-C-10	6-Neck Lid, 200mm
22	CG-141-T-15	200mm S.S. Clamp, PTFE Coated
23	CG-2093-20	PTFE Flake Catching Cup
24	CG-1924-34	20L Unjacketed Reaction Vessel
25	CG-1966-07	20L S.S. PTFE Coated Cooling Coil
26	CG-2095-05	5" OD PTFE Agitator, 60° (2ea)
27	CG-1965-X-150	Auto-Center Support Frame, 63.25" OAH
28	CG-1968-Q-01	Zero Dead Space Drain Valve
--	CG-145-09	45/50 Keck Clips (PK10)
---	CG-1042-45	Adapter, 45/50, Coil (2ea)
---	CG-1963-B-10	Beam Torque Wrench
---	CG-1963-B-14	7/16" Deep Socket, 6 Point, 1/4" Drive

**15L UNJACKETED
PROCESS REACTOR
SYSTEM AVAILABLE
ONLINE!**



REACTORS, UNJACKETED, 30L



REACTORS, UNJACKETED, 30L

30L PROCESS REACTOR, CYLINDRICAL, UNJACKETED, ELECTRIC OR AIR MOTOR

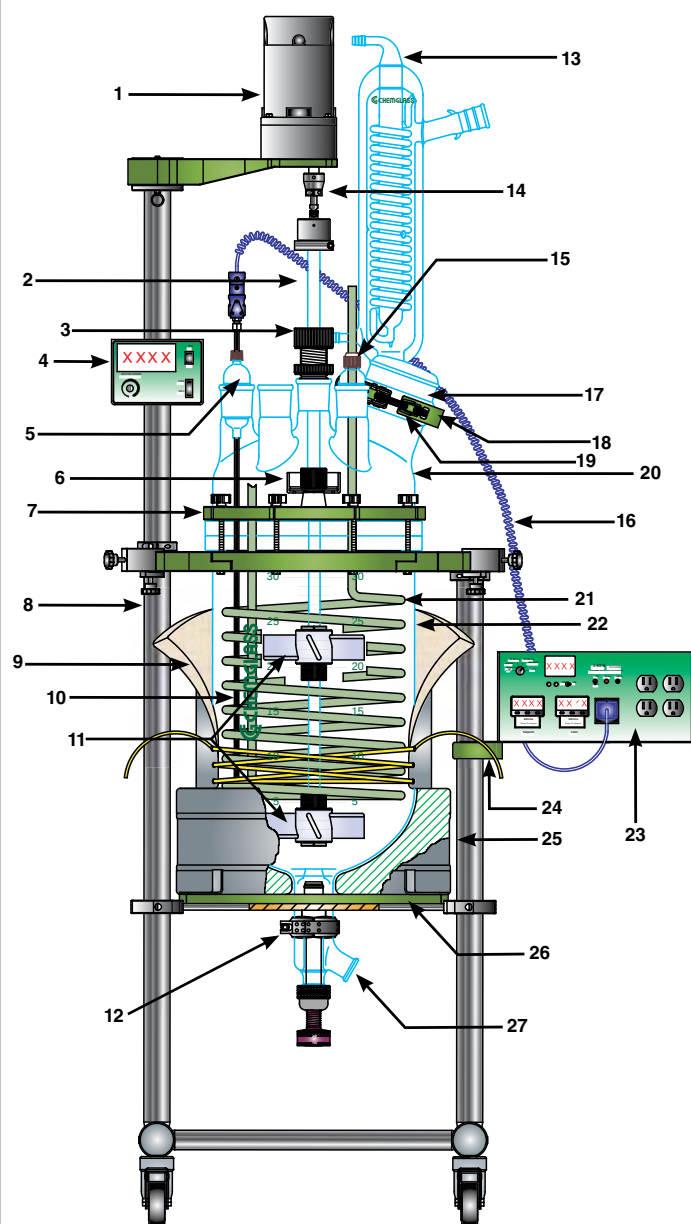
Complete reactor system on our NEW open air stand. Supplied with the components listed below and numbered on the schematic drawing. Optional items are listed on the following pages. **PLEASE NOTE: REACTOR STAND OVERALL HEIGHT WITH MOTOR AND CLEARANCE BELOW VALVE, ARE CALCULATED FOR ALL CHEMGLASS STIRRER BEARINGS, INCLUDING THE CG-2077-M MECHANICAL SEAL STIR BEARING.**

30L COMPLETE PROCESS REACTORS:

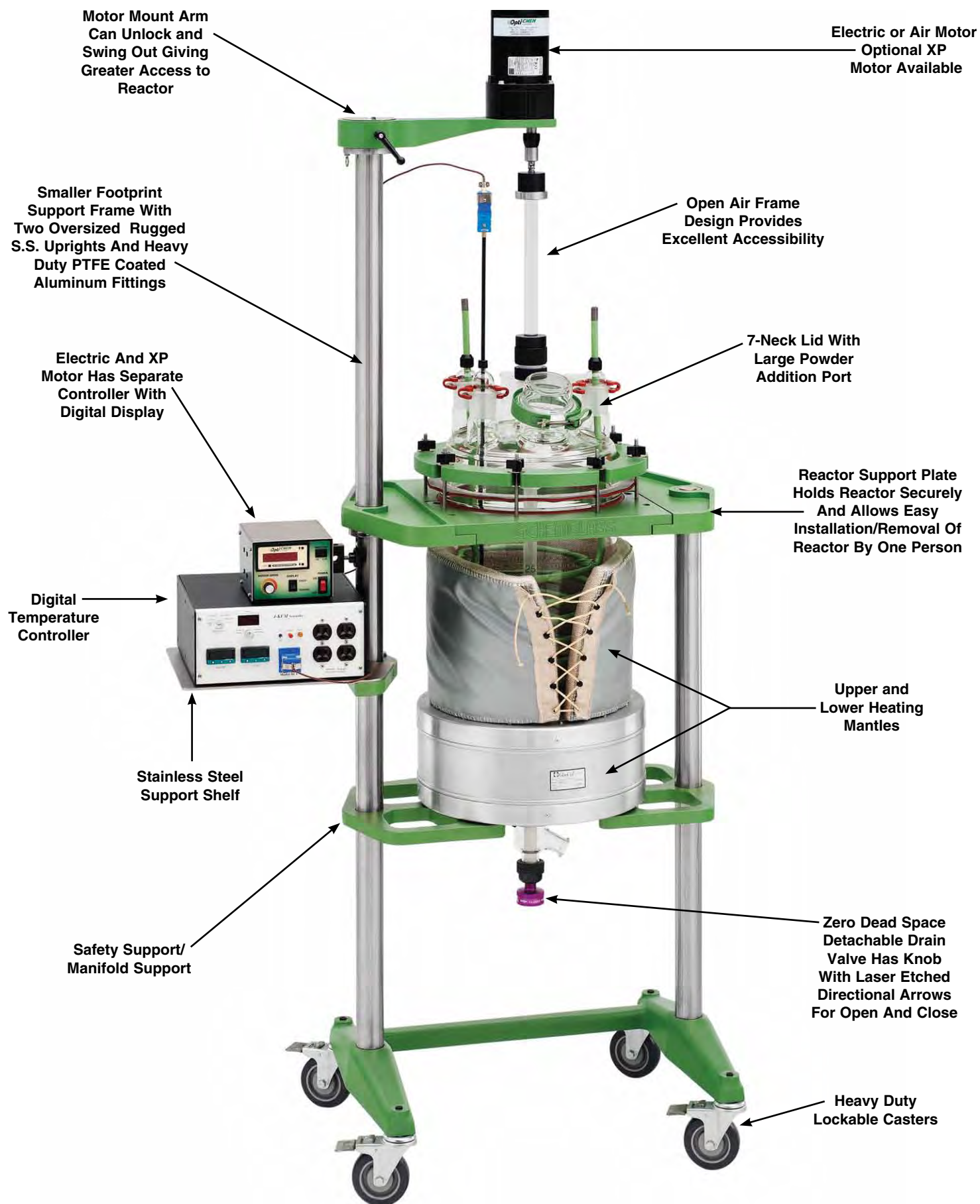
Part Number	Description	Motor Type	Overall Height W/ Motor (in)	Clearance Below Valve (in)
CG-1972-630	30L Process Reactor, Complete	Electric	84.6	20.9
CG-1974-630	30L Process Reactor, Complete	Air	81.0	20.9

Standard Components Supplied With Complete Process Reactors:

No.	Part No.	Description
1a	CG-2033-11	Electric Stir Motor, 1/4Hp, 500 RPM
1b	CG-2025-20	Air Motor, 3/8Hp
1c	CG-2025-10	Filter-Regulator-Lubricator (Air Motor Only)
2	CG-2097-31	25.4mm Stirrer Shaft, 42-3/8" OAL
3	CG-2077-H-06	25.4mm PTFE Stir Bearing
4	CG-2033-31	Stir Motor Controller (Electric Motor Only)
5	CG-1042-E-10	Thermocouple Adapter, 45/50
6	CG-2093-21	PTFE Flake Catching Cup, 25.4mm
7	CG-1968-G-01	300mm Envelope Gasket
8	CG-1968-X-12	New Open Support Frame, 75.25" OAH
9	CG-10013-30	30L Heating Mantle, Fabric with Slit, 115V
10	CG-1972-67	1/4" Diameter X 36" Long Dual Thermocouple, "T"
11	CG-2095-17	6" OD PTFE Agitator, 60° (2ea)
12	CG-1968-67	2" Beaded Pipe Coupling
13	CG-1215-C-10	High Efficiency Condenser, 45/50
14a	CG-2046-90	25.4mm Shaft Coupling, (Electric Motor Only)
14b	CG-2046-91	25.4mm Shaft Coupling, (Air Motor Only)
15	CG-1042-46	Adapter, 45/50 to #15 Chem-Thread (2ea)
16	CG-1972-66	Dual Element Extension Cord, "T"
17	CG-149-06	80mm Glass Cap
18	CG-141-T-10	80mm S.S. Clamp, PTFE Coated
19	CG-147-79	80mm FEP Encased S.S. Spring O-Ring
20	CG-1968-A-01	7-Neck Lid, 300mm
21	CG-1972-07	30L S.S. #304 PTFE Coated Cooling Coil
22	CG-1972-61	30L Unjacketed Reaction Vessel
23	CG-1972-65	Digital Temperature Controller, "T"
24	CG-1968-X-50	Side Shelf For CG-1972-65 Temperature Controller
25	CG-12012-30	Lower Heating Mantle, Aluminum, 115V
26	CG-1968-X-56	Lower Mantle Base
27	CG-1968-Q-01	Zero Dead Space Drain Valve
--	CG-3002-L-45	45/50 PTFE Stopper With Loosening Ring
--	CG-145-09	45/50 Keck Clips (PK10)
---	CG-3498-03	1/2" OD Rod, 90° Bend
---	CG-9253-20	Universal Kwik Mount Klamp
---	CG-2048-03	25.4mm Safety Collar with PTFE Gasket
---	CG-1963-B-10	Beam Torque Wrench
---	CG-1963-B-14	7/16" Deep Socket, 6 Point, 1/4" Drive



REACTORS, UNJACKETED, 50L



REACTORS, UNJACKETED, 50L

50L PROCESS REACTOR, CYLINDRICAL, UNJACKETED, ELECTRIC OR AIR MOTOR

Complete reactor system on our NEW open air stand. Supplied with the components listed below and numbered on the schematic drawing. Optional items are listed on the following pages. **PLEASE NOTE: REACTOR STAND OVERALL HEIGHT WITH MOTOR AND CLEARANCE BELOW VALVE, ARE CALCULATED FOR ALL CHEMGLASS STIRRER BEARINGS, INCLUDING THE CG-2077-M MECHANICAL SEAL STIR BEARING.**

50L COMPLETE PROCESS REACTORS:

Part Number	Description	Motor Type	Overall Height W/ Motor (in)	Clearance Below Valve (in)
CG-1972-650	50L Process Reactor, Complete	Electric	92.8	18.1
CG-1974-650	50L Process Reactor, Complete	Air	89.3	18.1

Standard Components Supplied With Complete Process Reactors:

No.	Part No.	Description
1a	CG-2033-11	Electric Stir Motor, 1/4Hp, 500 RPM
1b	CG-2025-20	Air Motor, 3/8Hp
1c	CG-2025-10	Filter-Regulator-Lubricator (Air Motor Only)
2	CG-2097-53	25.4mm Stirrer Shaft, 52-7/32" OAL
3	CG-2077-H-06	25.4mm PTFE Stir Bearing
4	CG-2033-31	Stir Motor Controller (Electric Motor Only)
5	CG-1042-E-10	Thermocouple Adapter, 45/50
6	CG-2093-21	PTFE Flake Catching Cup, 25.4mm
7	CG-1968-G-01	300mm Envelope Gasket
8	CG-1968-X-14	New Open Support Frame, 83.50" OAH
9	CG-10013-50	50L Heating Mantle, Fabric with Slit, 115V
10	CG-1972-68	1/4" Diameter X 45" Long Dual Thermocouple, "T"
11	CG-2095-17	6" OD PTFE Agitator, 60° (2ea)
12	CG-1968-67	2" Beaded Pipe Coupling
13	CG-1215-C-10	High Efficiency Condenser, 45/50
14a	CG-2046-90	25.4mm Shaft Coupling, (Electric Motor Only)
14b	CG-2046-91	25.4mm Shaft Coupling, (Air Motor Only)
15	CG-1042-46	Adapter, 45/50 to #15 Chem-Thread (2ea)
16	CG-1972-66	Dual Element Extension Cord, "T"
17	CG-149-06	80mm Glass Cap
18	CG-141-T-10	80mm S.S. Clamp, PTFE Coated
19	CG-147-79	80mm FEP Encased S.S. Spring O-Ring
20	CG-1968-A-01	7-Neck Lid, 300mm
21	CG-1972-17	50L S.S. #304 PTFE Coated Cooling Coil
22	CG-1972-81	50L Unjacketed Reaction Vessel
23	CG-1972-65	Digital Temperature Controller, "T"
24	CG-1968-X-50	Side Shelf For CG-1972-65 Temperature Controller
25	CG-12012-30	Lower Heating Mantle, Aluminum, 115V
26	CG-1968-X-56	Lower Mantle Base
27	CG-1968-Q-01	Zero Dead Space Drain Valve
--	CG-3002-L-45	45/50 PTFE Stopper With Loosening Ring
--	CG-145-09	45/50 Keck Clips (PK10)
---	CG-3498-03	1/2" OD Rod, 90° Bend
---	CG-9253-20	Universal Kwik Mount Klamp
---	CG-2048-03	25.4mm Safety Collar with PTFE Gasket
---	CG-1963-B-10	Beam Torque Wrench
---	CG-1963-B-14	7/16" Deep Socket, 6 Point, 1/4" Drive

