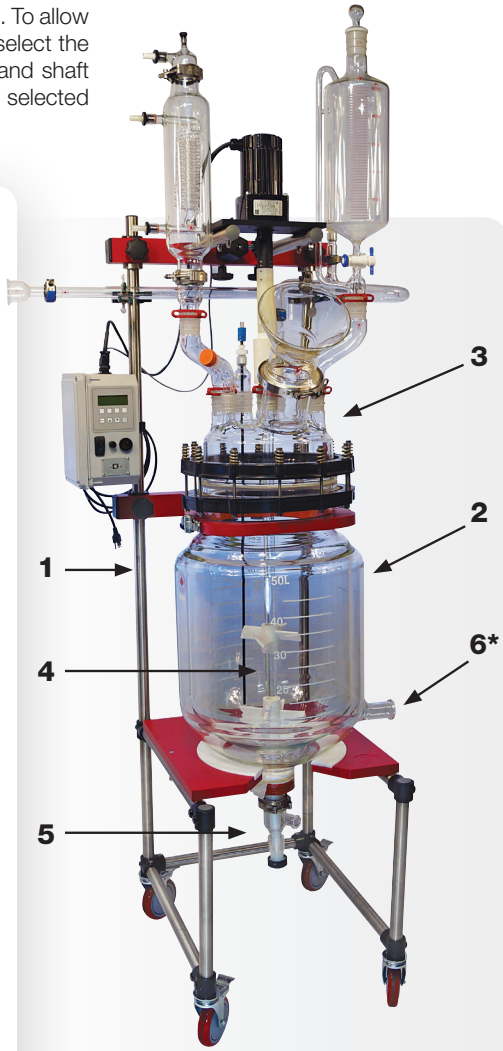
KILO SCALE
JACKETED REACTORS
30L & 50L Base Systems

Universal open frame stand design allows for maximum clearance and access to the ports on the head. To allow for scale up, the frame has been designed to be fitted with vessels from 10L to 50L in size. Simply select the stand motor mounting configuration based upon the desired type of motor. Then select the motor and shaft coupling that corresponds with the matching motor mount. Once the stand and motor have been selected complete the system by adding additional accessories to meet your applications requirements.



Base Jacketed Systems

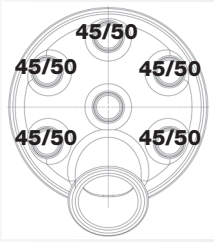
- Working Temp Range (°C): -60 to 200
- Working Pressure Range (Torr): Atm to 50
- Max Jacket Pressure (PSI): 8
- Dimensions (in.): 27.5 x 24.25 x 82.25
- Wetted Surfaces: Borosilicate glass, PTFE
- Motor Mounts: Flange Mount

Select a base system dependent on desired capacity and motor mounting type.

Capacity (L)	Base Systems for Flange Mount Motors
30	**12845-09**
50	**12845-11**

Base Systems include the following components:

No.	Description	Qty.	Order Code
1	30-50L Universal Stand w/Mount for Flange Mount Motors	1	**12842-06**
2	30L Jacketed Flask	1	**12850-08**
	50L Jacketed Flask		**12850-10**
3	300mm, 7 Neck Head	1	**6530-46**
	300mm PTFE Flat Gasket	1	**6525-51**
	300mm KF Flat Flange Clamp	1	**6525-30**
	100mm Glass Cap	1	**15312-33**
	100mm CAPFE O-Ring	1	**7855-880**
	100mm Quick-release Clamp	1	**6517-25**
4	28mm PTFE Ace-Thred Bearing	1	**8067-105**
	28mm Glass Stirring Shaft, 45in. Length	1	**8080-14**
	28mm Shaft Collar	1	**8127-28**
	28mm Shaft Coupling	1	**8126-28**
	8in. O.D. Anchor Style Agitator	1	**8101-38**
	6in. O.D. 45° Agitator	1	**8093-35**
5	Flush Seal Drain Valve w/CAPFE O-Ring and Pin	1	**6482-20**
	2in. Beaded Pipe Coupling	1	**8856-11**
6	1 1/2in. Beaded Pipe Coupling	2	**8856-09**



Head Port Configuration

* Tangentially Aligned 1 1/2" Beaded Pipe Inlet and Outlet Connections.
(Beaded Pipe Couplings Supplied But Not Adapters)

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ACE GLASS INCORPORATED

30L & 50L
Motors and Couplings

Flange Mounted, *Air Motors*

For hazardous working environments air motors offer an economical solution over explosion proof or ATEX rated motors. Relative speed setting is performed by adjusting a needle valve located on the inlet side of the air motor. When using air motors always use air motors with a filter/regulator/lubricator.

Speed Range (RPM)	Max Torque (in-lbs)	Order Code
1.5 Hp Motor		
300-3000	100	13370-10
Filter/Regulator Lubricator		13372-45

approved.

Flange Mounted, *Hazardous Duty Motor and Control*[1]

Hazardous duty AC inverter duty motor and controller1 for use on pilot plant reactor systems. A user friendly control allows for basic start/stop and variable speed control. RPM is displayed on a large 6 digit LED display. Modbus-RTU built in communications. AC Inverter duty motors provide constant torque and power with a variable speed output.

- HP: 1/2
- 5:1 Right Angle Gear Reducer
- Speed Range (RPM): 0 - 350
- Max Torque (in-lbs): 50
- Class I, Div I Group D
- Class II, Div II, Groups F & G
- Controller Voltage Inputs:
  115 to 240VAC, 1PH, 50/60Hz
  240 to 480VAC, 3 PH, 50/60Hz

Description	Order Code
Hazmat Series Digital Motor/Controller	13555-50

1 Controller is not hazardous duty rated.

Flange Mounted, *Brushless Motor and Control*

Pilot plant motor and controller for use on reactor systems up to 200 liter. The controller displays rpm, torque and features a digital, timer with shut-down capability. The *3/8 hp* brushless DC motor is compact, lightweight and yet capable of *35 in-lbs of continuous torque from 30 - 500 rpm*. Rpm readings are kept precise thru closed loop feedback. Optional software available for data acquisition. Controller is available in either 120v 60Hz or 240v 50/60Hz.

120VAC	240VAC
BLDC Motor Controller	
13553-02	13553-04
BLDC Controller, 24VDC	
13553-20	13553-20

More Motor Options Available. Visit the Ace Glass Website or contact your local sales representative.

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