

# BENCH SCALE JACKETED REACTORS

## 100mL to 6000mL Base Systems

Ace Glass Scale-Up Series™ reactors enable the researcher to scale-up from 100mL to 6000mL on the bench and enjoy the same geometry when replicating those results in our Kilo Scale reactors. Simply select the capacity you desire in the base system seen below and then choose the optional components to complete the system.

### Base Jacketed Systems

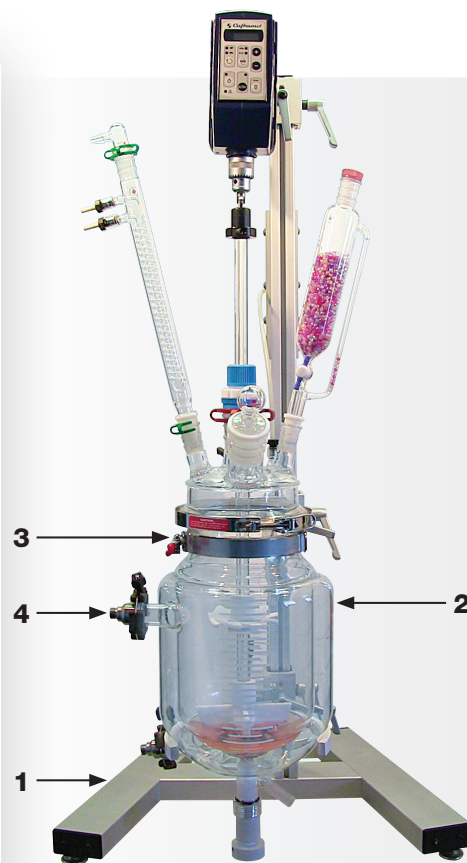
- Working Temp Range (°C): -60 to 200
  - Working Pressure Range (Torr): Atm to 0
  - Max Jacket Pressure (psig): 8
  - Wetted Surfaces: Borosilicate glass, PTFE
  - Motor Mounts: Rod
- Dimensions (in.):  
 (100-2000mL) 19.5 x 24.75 x 38  
 (3000-6000mL) 19.5 x 24.75 x 48

Select a base system dependent on desired capacity.

Capacity (mL)	Base Systems for Rod Mount Motors
100	6440-02
250	6440-03
500	6440-04
1000	6440-05
2000	6440-06
3000	6440-07
4000	6440-08
5000	6440-09
6000	6440-10

### Base System Supplied Components

No.	Qty.	Description
1	1	Reactor Stand
2	1	Jacketed Flask
	1	Support Ring
3	1	CAPFE O-Ring
	1	Swing Latch Clamp
	1	Quick-release Clamp
4	2	Flange Clamp
	2	Flange Gasket, Viton



To find out more about our Scale-Up line of reactors scan the code to the left or visit [www.aceglass.com/page.php?page=6440](http://www.aceglass.com/page.php?page=6440).

For safety, it is recommended that a pressure relief manifold be used on jacketed reactors.  
 \* Tangentially Aligned NW/KF Inlet and Outlet Connections.

# Rod Mount Motors and Couplings



## Caframo Rod Mounted, Electric Motors

A powerful, reliable stirrer for precision research or high viscosity pilot plant applications. Microprocessor controlled brushless DC Motor with automatic overload protection. Digital display of RPM and torque. Maintains set speed as viscosity changes. Two-speed transmission selects hi-torque or hi-speed range. Adjustable chuck with chuck guard. 3 year manufacturers warranty. (220V is CE Rated)



Comms:  
RS232, USB

## IKA Rod Mounted, Electric Motors

Universal laboratory stirrer designed with a removable wireless controller and a digital TFT display. It automatically adjusts the speed through microprocessor controlled technology with the speed range of 0/30 to 2000 RPM. The stirrer comes equipped with RS232 and USB interfaces to control and document all parameters. An integrated torque trend display is provided for measurement of viscosity changes. Safety circuits installed to ensure automatic cut-off in an anti-stall or overload conditions. Two year manufacturers warranty.



## Caframo Rod Mounted, Reversing, Electric Motors

The BDC2010 has a rugged DC brushless motor that delivers the same RPM range in forward and reverse. This model has a small footprint and is loaded with features such as "Stirlight" which lights a downward beam of light into the mixture, timer, reverse feature, xRx agitation for a controllable vortex effect, automatic overload protection, and maintains speed at all viscosities. The BDC2010 is the only stirrer of its kind, and can be set up for automatic time and auto-reverse for better mixing. Three year warranty.

Description	Speed Range (RPM)	Max Torque (in-lbs)	Max Viscosity (cps)	120VAC	220VAC
<b>Caframo</b>					
BDC3030	20-600	30	50000	13565-10	13565-11
	600-3000	6			
BDC1850	12-360	50	90000	13565-20	13565-21
	360-1800	10			
<b>IKA</b>					
Eurostar 60	0/30-2000	5.3	50000	13517-30	—
Eurostar 100	0/30-2000	8.8	70000	13518-02	—

Description	BDC2010
Speed Range	40-2010 rpm
Timer Range	1-2000 minutes
Maximum torque	100 N-cm (8.8 in/lbs)
Electrical Input	100-240V, 50/60 Hz
Output Power	1/10 Hp, 70W
Weight	8.2 lbs (5.6 kg)
Chuck	up to 3/8 in (10.1mm) shafts
Maximum Volume	6.6 US Gallons (25 Liters)
Maximum Viscosity	20,000 cps
Order Code	13566-05

## Rod 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.



Description	Speed Range (RPM)	Max Torque (in-lbs)	Max Air Pressure (psi)	Max Air Consumption (cfm)	Order Code
1/3 Hp	170	100	80	13	13365-20
1/3 Hp	1200	18	80	13	13365-10
1/2 Hp	1000	26	80	27	13365-15
Filter/Regulator Lubricator					13372-45

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