

KILO SCALE JACKETED REACTORS

10L, 15L & 20L 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 up 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 0
- Max Jacket Pressure (psig): 8
- Dimensions (in.): 27.5 x 24.25 x 82.25
- Wetted Surfaces: Borosilicate glass, PTFE
- Motor Mounts: Rod or Flange

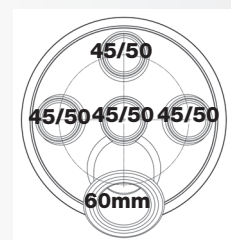
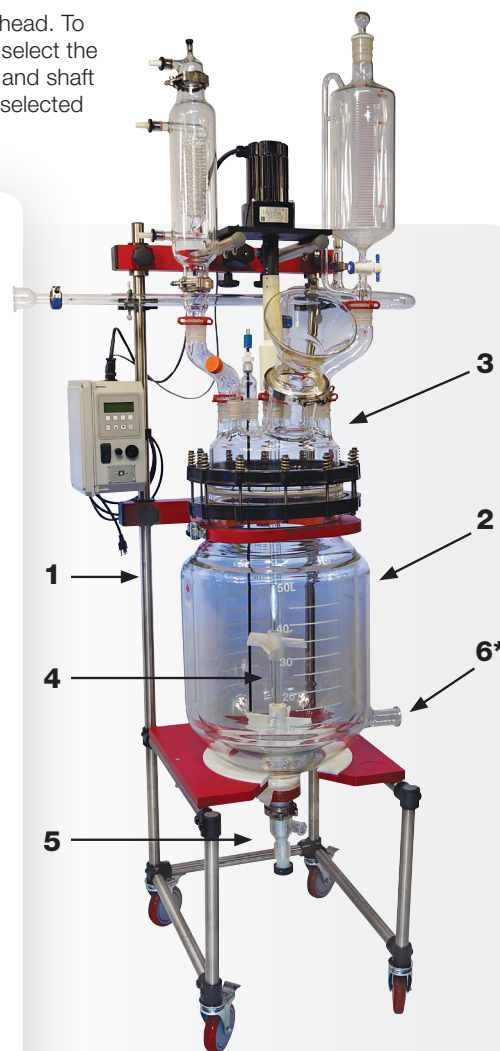
Select a base system dependent on desired capacity and motor mounting type.

Capacity (L)	Base Systems for Rod Mounted Motors	Base Systems for Flange Mount Motors
10	12845-02	12845-03
15	12845-04	12845-05
20	12845-06	12845-07

Base Systems include the following components:

No.	Description	Qty.	Order Code
1	10-20L Universal Stand w/Mount for Rod Mount Motors	1	12842-02
	10-20L Universal Stand w/Mount for Flange Mount Motors		12842-04
2	10L Jacketed Flask	1	12850-02
	15L Jacketed Flask		12850-04
	20L Jacketed Flask		12850-06
3	200mm, 5 Neck Head	1	6530-28
	200mm CAPFE O-Ring	1	7855-884
	200mm Quick-release Clamp	1	6517-31
	60mm Glass Cap	1	15312-30
	60mm CAPFE O-Ring	1	7855-878
	60mm Quick-release Clamp	1	6517-22
	19mm PTFE Ace-Thred Bearing	1	8067-30
	19mm Glass Stirring Shaft, 36" Length	1	8076-40
	19mm Shaft Collar	1	8127-20
	5 1/2in. O.D. Anchor Style Agitator	1	8091-20
4	5in. O.D. 45° Agitator	1	8097-12
	Flush Seal Drain Valve w/CAPFE O-Ring	1	6472-245
5	2in. Beaded Pipe Coupling	1	8856-11
6	1in. Beaded Pipe Coupling	2	8856-07

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



Head Port Configuration

10L, 15L & 20L 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.



Flange Mounted, Electric Motor

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 through closed loop feedback. Optional software available for data acquisition. Controller is available in either 120v/60Hz or 240v 50/60Hz.

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

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

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

Flange Mounted, Air Motor

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

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