

## Unjacketed Spherical Reactor Systems

### 12L & 22L Reactors w/Support Stand

- ▶ *Elevated mantle support*
- ▶ *Temperature controlled heating mantle*
- ▶ *Bottom outlet*

Complete self-supporting pilot plant assembly. Needs only to be located near electrical outlet. When not in use, entire assembly can be moved intact, without breakdown.

#### Features

- Flask with 4" (10.2cm) center opening, two  $\text{3}$  45/50 side necks, one #7 Ace-Thred thermometer opening, and one  $\text{5}$  28/15 ball joint take-off at bottom.
- Electric stirring motor, Cat. No. 13649-07, is self-standing on flask-mounted motor mount (air motor also available).
- With PID Digital readout temperature controller, and PFA coated "J" thermoprobe for better temperature control.
- Bottom heating mantle
- Flat-sided powder funnel offers easier additions.
- Rugged, steel-reinforced PTFE stirring rod needs no lubrication. Turns in a precision Trubore® economy bearing. The PTFE paddle agitator is removable for cleaning.
- Mantle supports raise the mantle about 36" (91.4cm) to allow easy access to bottom of flask.
- Approximate overall height: 71"; Base width: 28"



	12 Liter		22 Liter
	Order Code		Order Code
FLASK, Center Neck 10.2cm Flange, Two $\text{3}$ 45/50 Side Necks, One #7 Ace-Thred and One $\text{5}$ 28/15 Ball Outlet At Bottom	6469-16	♣	6469-18
HEAD, $\text{3}$ 45/50	6469-26	♣	6469-26
GASKET, PTFE	6495-10	♣	6495-10
CHUCK, Flex-Grip	8124-10	♣	8124-15
ROD, PTFE w/Stainless Steel Core	8071-07	♣	8079-03
AGITATOR, PTFE Paddle	8089-08	♣	8091-10
MOTOR, only	13649-07		13649-07
MOTOR MOUNT	6469-30	★	6469-32
MOTOR CONTROLLER, only	13530-10	★	13530-10
BEARING, Economy, $\text{3}$ 45/50	8042-121	♣	8065-64
CLAMP, Head, Aluminum	6468-13	★	6468-13
ADAPTER, Stopcock, $\text{5}$ 28/15, PTFE, 6mm Bore	6469-40	♣	6469-40
TEMPERATURE CONTROLLER	12126-24	★	12126-24
SENSOR, PFA Coated, 12" x 1/4"	12141-25	★	12141-25
SENSOR LEAD, only, Type "J"	12141-80	★	12141-80
FUNNEL, Powder, $\text{3}$ 45/50	6469-52	♣	6469-52
STOPPER, $\text{3}$ 45/50	8250-20	♣	8250-20
CLAMP, $\text{5}$ 28/15	7666-15	♣	7666-15
CLAMP Holder, Regular	11080-19	★	11080-19
MANTLE, Heating, w/Hole	12044-28		12044-30
MANTLE, Support	12097-45		12097-47
<b>Complete</b>	<b>6469-62</b>	★	<b>6469-67</b>

**Temperature range:  
Ambient +5° to 200°C**

**Flask with Sink Valve  
or Zero Dead Space Valve  
available upon request.**

ACE Reaction Assemblies are available as listed. If you require a design change, or just a modification, we'll fabricate to order.

E-mail, phone, or fax for a quotation.

# Unjacketed Spherical Reactor Systems

## 12L, 22L, 50L & 72L Reactors w/Support Stand

- ◆ *Rugged, steel-reinforced PTFE stirring rod*
- ◆ *Heavy duty mechanical lab stirrer*
- ◆ *Temperature controlled heating mantle*

Complete reaction assembly using standard ACE reaction equipment. The 12L through 72L flasks have three  $\text{F } 65/40$  in-line spherical joints and two  $\text{F } 29/42$  standard taper joints.

### Features

- Full range of pilot-size flasks from 12L to 72L with spherical and standard taper joints.
- Rugged 19mm diameter, steel-reinforced PTFE stirring rod needs no lubrication. Runs in a precision Trubore™ bearing. The PTFE paddle is removable, and other interchangeable agitators available from ACE may be substituted.
- The 12L assembly has a 10mm diameter steel-reinforced PTFE rod, as well as a 10mm bearing, chuck, and paddle.
- Highly efficient 6016 condenser is attached directly to  $\text{F } 65/40$  side joint.
- Thermowell depth is completely adjustable via an Ace-Thred adapter.
- Unit as supplied has a heavy-duty mechanical lab stirrer; for situations that call for non-electric motors, ACE can supply a compact air-driven motor and support. Call or e-mail for a quotation.
- Heavy-duty bottom heating mantle.
- Approximate overall height: 12L and 22L – 59"; 50L and 72L – 63"



	12 Liter	22 Liter	50 Liter	72 Liter
	Order Code	Order Code	Order Code	Order Code
FLASK, Center and Two Side $\text{F } 65/40$ , Two $\text{F } 29/42$	6470-20 ◆	6470-24 ◆	6470-26 ★	6470-28 ★
CONDENSER, Pilot Plant	6016-75 ★	6016-77 ★	6016-79 ★	6016-79 ★
BEARING, $\text{F } 65/40$ , Water-Cooled	8040-55 ◆	8060-10 ◆	8060-10 ◆	8060-10 ◆
ROD, PTFE w/Stainless Steel Core	8071-10 ◆	8079-05 ★	8079-10 ★	8079-10 ★
AGITATOR, PTFE, Single Blade	8088-10 ◆	8092-10 ◆	8092-10 ◆	8092-10 ◆
CHUCK	8126-10 ★	8126-22 ★	8126-22 ★	8126-22 ★
FUNNEL, Pressure Equalizing, $\text{F } 24/40$ , 1000mL	7297-37 ◆	7297-37 ◆	7297-37 ◆	7297-37 ◆
STOPPER, $\text{F } 24/40$	8250-12 ◆	8250-12 ◆	8250-12 ◆	8250-12 ◆
ADAPTER, $\text{F } 24/40$ - $\text{F } 65/40$	5025-24 ◆	5025-24 ◆	5025-24 ◆	5025-24 ◆
ADAPTER, Maxi $\text{F } 29/42$	5030-42 ◆	5030-42 ◆	5030-42 ◆	5030-42 ◆
ADAPTER, Midi $\text{F } 29/42$	5030-24 ◆	5030-24 ◆	5030-24 ◆	5030-24 ◆
THERMOWELL, 10mm O.D.	6470-42 ◆	6470-44 ◆	6470-46 ◆	6470-46 ◆
OVERHEAD STIRRER	13565-10 ★	13565-10 ★	13565-10 ★	13565-10 ★
CLAMPS, $\text{F } 65/40$ Union Type (3)	7666-30 ◆	7666-30 ◆	7666-30 ◆	7666-30 ◆
HEATING MANTLE, Alum. Housing	12043-27	12043-29	12043-31	12043-33
MANTLE SUPPORT	12097-08	12097-10	12097-12	12097-14
TEMPERATURE CONTROLLER	12126-45 ★	12126-45 ★	13552-04	13552-06 ★
<b>Complete</b>	<b>6470-60 ★</b>	<b>6470-64 ★</b>	<b>6470-68 ★</b>	<b>6470-72 ★</b>