



ACROSS INTERNATIONAL



IH15A 15kW Mid-Frequency
Induction Heater



SuperVac 11.3 cfm Vacuum
Pump with Oil Mist Filter



1200°C PECVD Slide-able
Vacuum Tube Furnace



FO-19040 1.5 Cu Ft
Digital Forced Air Drying Oven



5L Rotary Evaporator with -30
Chiller and Oil-Free Pump

Material Processing Equipment & Accessories



MP24A 24-Ton
Pellet Press and Dies



VQN 80ml
High Energy Ball Mill



AccuTemp 1.9 Cu Ft
Digital Vacuum Drying Oven



GCF1600 1600°C Controlled
Atmosphere Furnace



PQ-N04 4x100ml
Planetary Ball Mill

Reliable operation, affordable price, and customizable according to user's requirements.

www.AcrossInternational.com

Glass Reactors



Across International R-series glass reactors are designed for synthetic reaction of different types of materials in a controlled temperature and vacuum environment. Each reactor features adjustable stirring speeds and a constant pressure feeding funnel that allows you to add material to the vessel at a uniform and controlled speed. The built-in condenser makes it possible to recover some materials, also at a controlled rate of speed.

Model	R10	2R20	R50	R100
Electrical Requirements	220V 50/60Hz 1-PH, 90W		110V 60Hz 1-PH, 140W	110V 60Hz 1-PH, 250W
Vessel Capacity	10L / 2.6 gallons	20L / 5.3 gallons	50L / 13 gallons	100L / 26 gallons
Cooling/heating Capacity	3L / 0.8 gallons	6L / 1.6 gallons	16L / 4.2 gallons	30L / 8 gallons
Drain Port Ground Clearance	15"	13"	12.5"	13.5"
Unit Height (Fully Assembled)	78"	80"	88"	98"
Vacuum Level	< 700 torrs			
Temperature Range	-110 °F to 400 °F			
Agitator	Anchor design, type-304 stainless steel reinforced PTFE structure			

ULVAC Vacuum Pumps

Manufactured and imported directly from Japan, ULVAC DTC series diaphragm pumps feature integral forced-air cooling. They have two-stage PTFE diaphragms that are ideal for pumping corrosive gases and organic solvents. These pumps are oil-free, portable, and chemical-resistant, which means less maintenance and no more frequent and costly oil change, or cross contamination. Across International is the official dealer of ULVAC vacuum pumps. These pumps are made in Japan with one year warranty and technical support from ULVAC.



DTC-41, 1.6 CFM

Applications: Rotary evaporators, evaporating systems, vacuum concentrator, vacuum filtration, vacuum drying systems, medical/pharmaceutical equipment, centrifuge, and laser-gas circulation



DA-241, 9.2 CFM

Applications: Alcohol evaporation, vacuum chucks, wafer and tip handling devices, vacuum tweezers, medical appliances, printing equipment, automatic packing machines, optical appliances, semiconductor industry



GLD-201B, 8.5 CFM

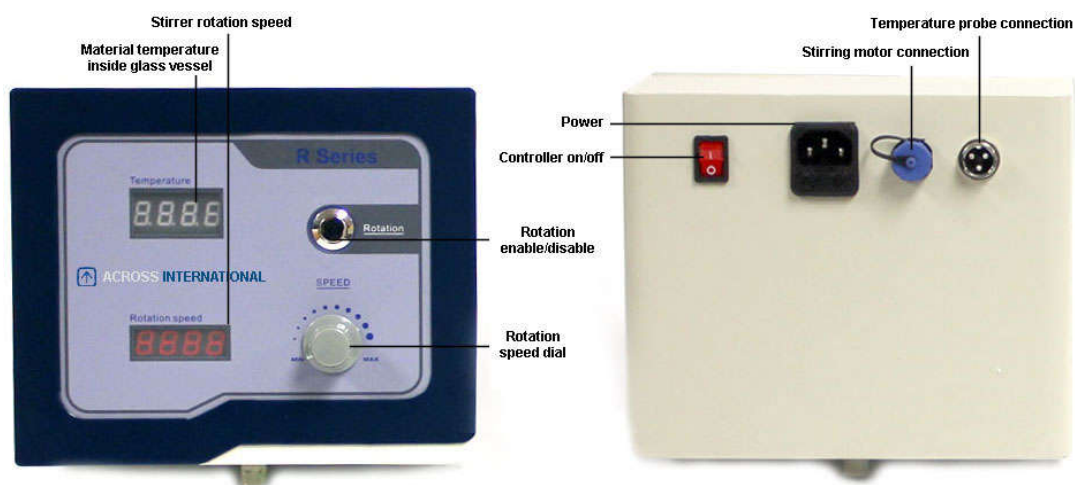
Applications: Chemical, analyzer and laser systems, vacuum pumping systems, backing pumps for electronic microscopes, semiconductor equipment, sputtering equipment, vacuum evaporation equipment, vacuum drying, freeze drying

Model	ULVAC DTC-41	ULVAC DA-241	GLD-201B
Pumping Rate	1.62 CFM	9.2 CFM	8.5 CFM
Ultimate Vacuum Level	7.5 torr / 10 mbar	120 torr	5 micron
Full Load Current	1.1 amps	6.0 amps	7.9 amps
Inlet/Outlet	3/8" hose barb		KF25 / Threaded
Electrical Requirements	110V 60Hz 1-PH, 0.13 HP, 100 watts	110V 50/60Hz or 220V 50/60Hz 1-PH, 400 watts	110V 50/60Hz or 220V 50/60Hz 1-PH, switchable
Certification	CE, TUV		-



Across International

Material Processing Equipment
Ph: 888-988-0899



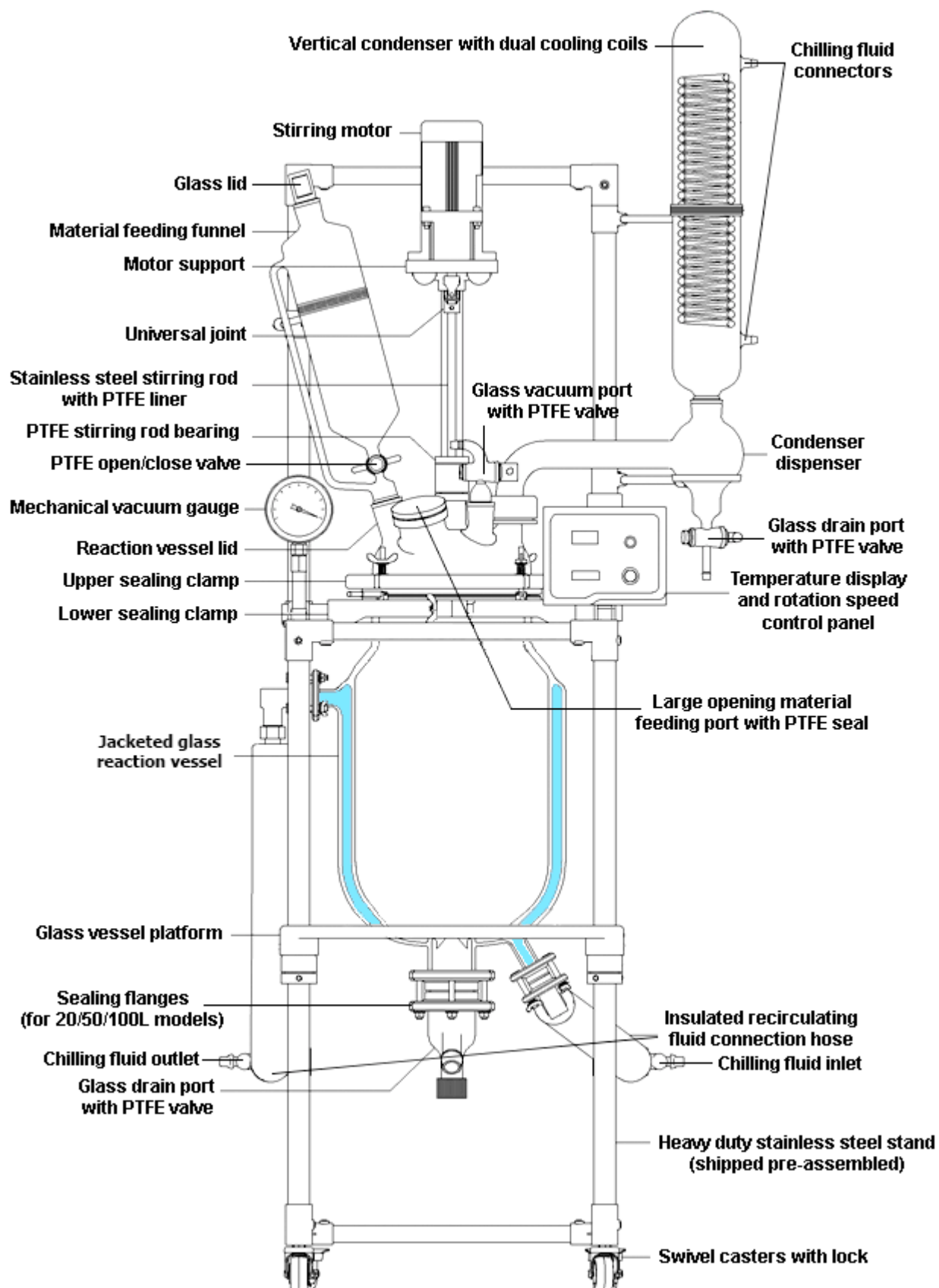
R-series single/dual jacketed glass reactors are designed for synthetic reaction of different types of materials in a controlled temperature and vacuum environment. Each reactor features adjustable stirring speeds and a constant pressure feeding funnel that allows you to add material to the vessel at a uniform and controlled speed. The built-in condenser makes it possible to recover some materials, also at a controlled rate of speed.

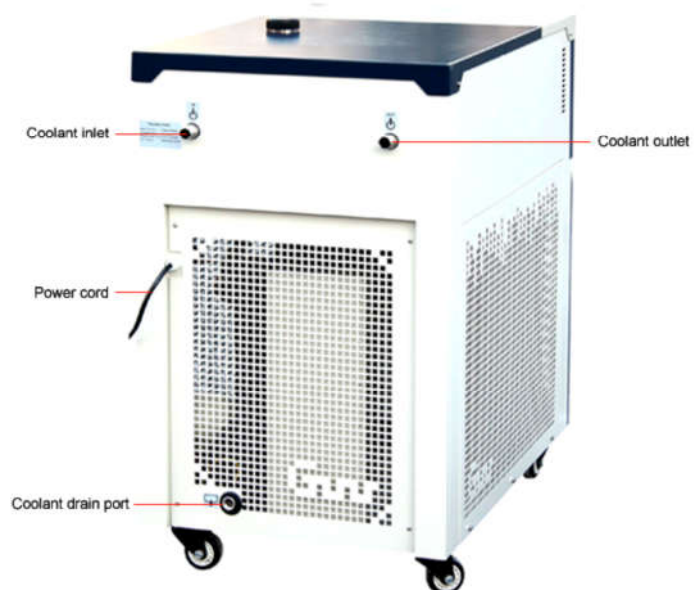
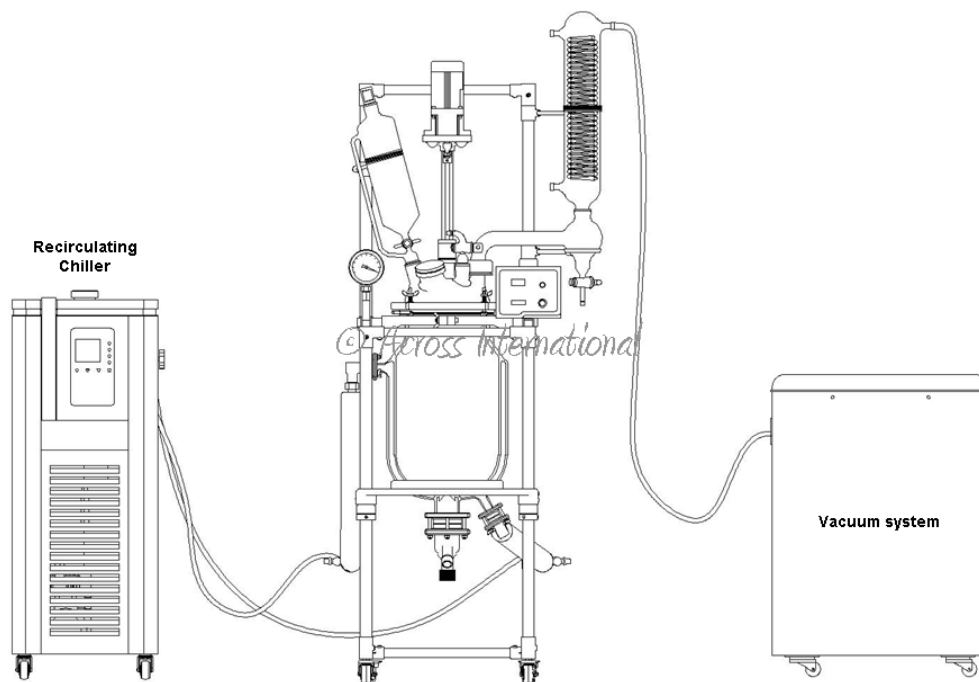
Features

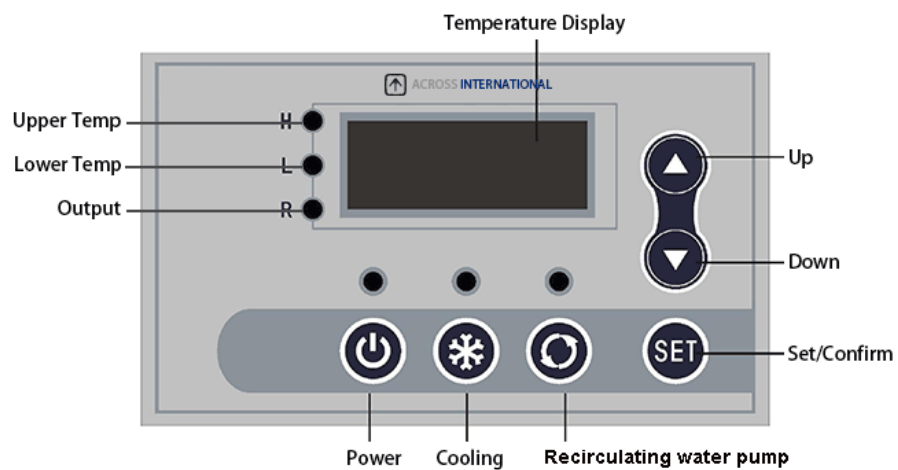
- Now includes a FREE high quality thermo insulation jacket with open/close viewing window and top/bottom adjustable drawstrings, specially designed and made for Ai glass jacketed reactors. These jackets will extend chiller life, allow you to go down to a lower temperature, and also cut your utility bill.
- Dual jacketed model allows you to draw vacuum from the outer jacket, thus protects your recirculating fluid temperature and gives you best control over your work. It also help prevents frost to form on the outside of the vessel, allowing you to see clearly into your material.
- Solvent-resistant PTFE on all sealing components ensures long time durability and operation.
- All glassware is hand-made from food grade high borosilicate glass that is heat/cold/corrosion-resistant.
- Adjustable stirring rate provides great torque or high speed.
- Patented PTFE stirring rod bearing for reliable and quiet operation.
- Optional multi-layer stirring blades for optimal reaction results.
- Wide range of temperature operations, from -110°F to 400°F.
- Large condenser cooling surface for exceptional condensation performance.
- Rugged stainless steel reinforced PTFE stirrer with anchored agitator, suitable for a wide range of viscous materials.
- Easily visual operation with digital speed and temperature displays.
- Heavy duty stainless steel supporting framework with lockable casters for mobility and stability. (whole support and glass vessel shipped pre-assembled)

Specifications

Model	2R20
Electrical requirements	110V 60Hz or 220V 50/60Hz, 1-PH, 90W
Reaction glass vessel capacity	5.3 gallons (20L)
Cooling/heating jacket capacity	1.6 gallons (6L)
Glass material	High borosilicate glass 3.3
Rotation controller	Digital controller with variable frequency drive
Maximum jacket pressure	4.4 psi or 0.03 MPa
Drain valve	Flush seal design with large opening and flat flange clamp
Agitator	Anchor design, type-304 stainless steel reinforced PTFE structure
Condenser	Dual-cooling coil design
Funnel	Pressure equalizing
Vacuum gauge	Mechanical
Swivel caster	Four
Glass vessel temperature range	-110°F to 400°F
Vacuum level	< 700 torrs
Vacuum sealing	Glass or PTFE
Drain port ground clearance	13 inches
Reactor dimensions (WxDxH)	20 x 27 x 80"
Shipping dimensions	24 x 75 x 31"
Shipping weight	265 Lbs







C30 Series Recirculating Pump Curves

Cooling media: ethanol

