

Sr. No.	Item Name	Quantity
01	<p><b>Glass Lined Jacketed (Double walled) Stainless Steel Reactor</b></p> <ul style="list-style-type: none"> <li>• Stainless Steel reactor with glass lined inner surface (~ 3 mm thickness), Capacity 3 L to 20 L, Two piece design with removable flange (Lid), annular space jacket having circulating nozzles.</li> <li>• Resistant to corrosion for acids/alkalis and adhesion, withstanding mechanical stress and thermal shock, Pressure: -1 to +6 bar (vessel and jacket pressure), Temperature -25 to 200°C, Water, steam or oil heating media.</li> <li>• Variable speed customized glass lined agitator (0-2400 rpm; max. viscosity 20,000 poise), suitable for solid/aqueous suspension, with provision to accommodate different types of propellers (Impeller agitators, Marine propeller type blades, Kneading type, Anchor agitators, Paddle-type baffles)</li> <li>• Two openings for loading materials in the lid, Temperature probe, Vacuum/Pressure gauge, Sight/light window options, Flame and explosion proof motor, Bottom outlet glass-lined valve, Mechanical sealing/ gaskets.</li> <li>• Compatible Vacuum system including vacuum pump and SS buffer tank.</li> <li>• Safety limit switches to ensure safe operation.</li> <li>• Support legs equipped with polyurethane wheels with locking mechanism alongwith side bracket supports/support rings.</li> <li>• Spares: Seal (02 No.), Nozzles (02 No.), Gaskets (02 No.), glass lined propellers (Impeller agitators, Marine propeller type blades, Kneading type, Anchor agitators, Paddle-type baffles) (01 No. Each).</li> </ul>	01
02	<p><b>Laboratory Heating and Cooling Circulator</b></p> <ul style="list-style-type: none"> <li>• To supply heating and cooling source for the reactors, tanks and other equipments. Temp. range: -20 to + 250°C. Temp. stability <math>\pm 0.05</math> °C, Digital programmable display resolution 0.1°C, Bath capacity 12-13 L. Drain valve. Stable performance and reliable quality. Meet the long-distance transportation of heat conducting medium.</li> <li>• Efficient fast, simple topping up liquid ensure fast cooling at high temperature and can achieve temperature control continuously. LED display controller (Digital, programmable), can show the setting temperature &amp; actual value, and alarm value for over temperature. Clear touch screen, display temperature, time and other parameters, clearly visible from the distance.</li> <li>• Closed heating &amp; cooling circulator cycle system (Fully enclosed compressor) with no oil mist and water vapor, so as to assure</li> </ul>	01

the lab safety and heat transfer fluid lifetime. Low noise refrigeration system with environmental protection.

- The internal and external circulation can be switched, and the pump flow rate is controllable, suitable for various experiments with different needs. The refrigeration compressor has automatic protection functions such as overheating and overloading. (Use the same kind of heat conducting in the whole heating-cooling cycle when control heat conducting medium temperature.)
- Self-diagnosis function; freezer overload protection; high pressure switch, overload relay, thermal protection device, liquid low level protection, high temperature protection and temperature fault protection.

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**Aspirator Pump (Electrical with built-in water circulating pump)**

- Vacuum levels as low as 10 Torr.
- Power 220-250 VAC, 50 Hz, .
- Chemical-resistant.
- Equipped with cooling coil.
- Tank Size 9.5L.
- High flow rates for increased efficiency.
- Continuous duty cycle.
- Port Size: 8mm hose barb.
- Vacuum gauge with regulator.
- Spares Kit for wetted chemical resistant parts (2 No.)

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