

Cooling & Heating Baths



with Circulator For Laboratory Applications

Salient Features

- Cooling baths with temperature upto -70°C .
- Heating baths with temperature upto 300°C .
- Heating & Cooling in common bath.
- Eco friendly CFC free systems.
- Compact & Sturdy Design.
- Energy efficient systems.
- Accurate temperature control upto $\pm 0.1^{\circ}\text{C}$.
- PC operated / programmable system.

Low Temperature Cooling (Cryostat) Baths & Circulators

It consists of a SS-304/316 tank with PUF insulation, hermetically sealed compressor, with air cooled condenser, Cu - tubes, microprocessor PID temperature controller & safety inter locking, suitable capillary / expansion valve, stirrer & optionally a circulation pump for circulating cold brine solution in some external load like rotavapour, SS / glass reactor, tank, heat exchanger etc.

Tank Capacity : 5 - 50 Ltrs. Depending on cooling load.

Bath Opening size : Can be customized .

Min. bath Temp : 0°C to -70°C as required.

Max. bath Temp : 200°C (i.e cooling & heating in same bath)

Cooling Capacity : 100 w to 6000 w at room temperature as per requirement.

Pump h. P. : 1/8 / 1/4 / 1/2 h.p.

Pump flow rate : 10 Lpm - 50 Lpm

Pump head : 5m - 20m

Note: To receive quote, client should specify minimum / maximum bath temperature & heating / cooling capacity in watts at room temp. / load details.



Hot oil / water baths & circulators

It consists of SS-304 / 316 tank with ceramic wool insulation, enclosed submerged electric heater, stirrer, level switch, microprocessor based PID temperature controller & optionally a circulation pump can be offered for circulating the hot liquid in some external load like fermentor, SS / glass reactors, heat exchanger, for calibration of sensors etc.

Tank Capacity : 5 - 50 Ltrs. depending on heating capacity.
Bath Opening : Can be customized.
Max. Temp. : 250 °C, optionally upto 300 °C.
Heater Wattage : 1 to 12 kW depending on load or time
in which temperature is desired.
Pump h.P : 1/8 / 1/4 / 1/2 h.p.
Pump flow rate : 10 Lpm - 50 Lpm
Pump head : 5m - 20m



Optional Accessories

- Outer body of SS instead of powder coated C.I.
- Synthetic thermic / silicon fluid (non toxic & non flammable) for heating & cooling for temperatures from -70 °C to + 300 °C.
- Flexible SS braided Teflon hose pipes / silicon tubing for fluid circulation.
- Low temperature / high temperature special insulation for lines.
- PC operated / programmable heating or cooling bath / circulators with online & historical data logging.
- The baths can be provided with additional cascade PID controller for external load temperature indication and control in addition to the bath temperature controller.
- Flame proof heating bath with flame proof panel.



Application

In laboratories / pilot plant of all Pharmaceuticals, Chemical, Beverage, Paint, Dye, Petrochemical, Agrochemical etc. Industries & in research & educational institutes.

Some of our reputed customers

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Tel: +91-22-25129273/ 25111540/ 25143142/ 65228426/ 65753028/ 65753029 • FAX: 25109565
E-mail:sales@amarequip.com / amarequip@amarequip.com • Website: www.amarequip.com