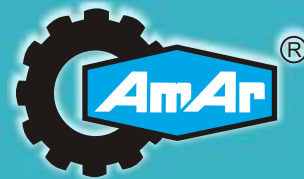


Cooling & Heating Baths

with Circulator



- Cooling baths with temperature upto -70°C
- Heating baths with temperature upto 200°C
- Heating & Cooling in common bath for -60 to 200°C
- Closed loop systems to use single fluid for entire range
- No fuming of thermic fluid in closed loop systems
- Compact, eco friendly & energy efficient systems
- Accurate temperature control
- PC operated / programmable system
- Suitable for reactor sizes from 1 ltr. to 500 ltrs.
- Air cooled & water cooled machines

Heat Transfer Specialist

Your Research Partner



Technical Specification

- Temperature Controller : PID for all except Eco series will have on/off type
- Display Resolution : 0.1°C
- Controller Accuracy : $\pm 0.5^\circ\text{C}$ for all except Eco series will have $\pm 1.5^\circ\text{C}$
- M.O.C. : Bath, Bath Lid, Pump & all medium touched parts SS304 & body shall be MS powder coated for all except closed loop systems shall have complete SS construction
- Safety interlocks for low level, high temperature, pump flow & compressor overload etc.

Heating Bath Circulator

Temperature Range: 35°C to $+200^\circ\text{C}$ & -20°C to $+200^\circ\text{C}$ - with external chilled water / brine circulation (by client) inside the internal coil.

Model No.	HB-21	HB-22	HB-23
Bath Volume (Ltr.)	4~6	20	20
Bath Opening (mm)	100 x 100	150 x 100	150 x 100
Heating Capacity (kW)	1.50	3.00	6.00
Pump Flow (LPM)	14~20	14~20	14~20
Max. Pump Pressure (bar)	0.5	0.5	0.5
Overall Dimensions in mm (WxDxH)	300 x 425 x 650	350 x 500 x 755	450 x 500 x 755
Power Supply	220V 50Hz 1Ph	440V 50Hz 3Ph	440V 50Hz 3Ph
Total Load (kW)	2	4	7.5

Lab. Cooling Bath Circulator - Eco Series

Temperature Range: -20°C to Ambient

Model No.	CB-21	CB-22	CB-23	CB-24	CB-25	CB-26
Bath Volume (Ltr.)	4~6	4~6	4~6	8~10	20	20
Bath Opening (mm)	100 x 100	100 x 100	100 x 100	150 x 100	150 x 150	150 x 150
Cooling Powers						
@ $+20^\circ\text{C}$ (kW)	0.20	0.27	0.50	0.90	3.00	4.00
@ 0°C (kW)	0.10	0.15	0.32	0.50	1.50	3.15
@ -20°C (kW)	0.05	0.06	0.15	0.23	0.71	1.44
Pump Flow (LPM)	14~20	14~20	14~20	14~20	30~35	30~35
Max. Pump Pressure (bar)	0.5	0.5	0.5	0.5	0.7	0.7
Overall Dimensions mm (WxDxH)	300x425x650	300x425x650	300x425x650	300x425x650	350x500x755	450x500x755
Power Supply	220 V 50 Hz	220 V 50 Hz	220 V 50 Hz	220 V 50 Hz	440 V 50 Hz	440 V 50 Hz
	1 Ph	1 Ph	1 Ph	1 Ph	3 Ph	3 Ph
Total Load (KW)	2.1	2.25	2.5	2.7	7.5	9.2

Lab. Heating / Cooling Bath Circulator

(a) Temperature Range: -20°C to 200°C

Model No.	HCB-221	HCB-222	HCB-223	HCB-224	HCB-225	HCB-226
Bath Volume (Ltr.)	4~6	4~6	4~6	8~10	20	20
Bath Opening (mm)	100 x 100	100 x 100	100 x 100	150 x 100	150 x 150	150 x 150
Heating Capacity (kW)	1.50	1.50	1.50	1.50	3.00	3.00
Cooling Powers						
@ +20°C (kW)	0.20	0.27	0.50	0.90	3.00	4.00
@ 0°C (kW)	0.10	0.15	0.32	0.50	1.50	3.15
@ -20°C (kW)	0.05	0.06	0.15	0.23	0.71	1.44
Pump Flow (LPM)	14~20	14~20	14~20	14~20	30~35	30~35
Max. Pump Pressure (bar)	0.5	0.5	0.5	0.5	0.7	0.7
Overall Dimensions mm (WxDxH)	300x425x650	300x425x650	300x425x650	350x500x755	450x500x755	450x500x755
Power Supply	220 V 50 Hz 1 Ph	220 V 50 Hz 1 Ph	220 V 50 Hz 1 Ph	220 V 50 Hz 1 Ph	440 V 3 Ph 50 Hz	440 V 3 Ph 50 Hz
Total load (kW)	2.1	2.25	2.5	2.7	7.5	9.2

(b) Temperature Range: -30°C to 200°C

Model No.	HCB-321	HCB-322	HCB-323	HCB-324	HCB-325	HCB-326
Bath Volume (Ltr.)	4~6	4~6	4~6	8~10	20	20
Bath Opening (mm)	100 x 100	100 x 100	100 x 100	150 x 100	150 x 150	150 x 150
Heating Capacity (kW)	2.00	2.00	2.00	2.00	2.00	3.00
Cooling Powers						
@ +20°C (kW)	0.90	1.00	1.20	1.50	2.00	4.00
@ 0°C (kW)	0.60	0.77	1.00	1.20	1.55	3.15
@ -20°C (kW)	0.20	0.35	0.45	0.50	0.71	1.44
@ -30°C (kW)	0.10	0.15	0.20	0.25	0.29	0.60
Pump Flow (LPM)	14~20	14~20	14~20	30~35	35~40	35~40
Max. Pump Pressure (bar)	0.5	0.5	0.5	0.7	0.7	0.7
Overall Dimensions mm (WxDxH)	300x425x650	300x425x650	300x425x650	350x500x755	450x500x755	450x500x755
Power Supply	220 V 50 Hz 1 Ph	220 V 50 Hz 1 Ph	220 V 50 Hz 1 Ph	220 V 50 Hz 1 Ph	440 V 3 Ph 50 Hz	440 V 3 Ph 50 Hz
Total Load (kW)	3.3	3.4	3.5	3.6	3.75	10

Single Fluid Heating / Cooling Closed Loop System

Model No.	Temperature Range	Heating Power kW	Cooling power kW			Pump Flow LPM
			@ 0°C	@ -20°C	@ -30°C	
CLS-321	-35 to 200 °C	1.5	1.2	0.6	0.3	30
CLS-322	-35 to 200 °C	3	2.5	1.2	0.5	45
CLS-323	-35 to 200 °C	3	3.3	1.8	0.9	45
CLS-324	-35 to 200 °C	4.5	4.5	2.5	1.2	55
CLS-325	-35 to 200 °C	6	5.5	3.0	1.5	55
CLS-326	-35 to 200 °C	9	6.6	4.0	1.8	60
CLS-327	-35 to 200 °C	18	9.0	6.0	3.0	80
CLS-328	-35 to 200 °C	24	20.0	13.0	7.0	80
CLS-621	-60 to 200 °C	6	6	5	2.8	60
CLS-622	-60 to 200 °C	9	9	8	4.5	100

Max. pump pressure 1.5 bar for all the models & same can be high on request

Some of our reputed customers



Optional Accessories

- Synthetic thermic / silicon fluid (non toxic & non flammable) for heating & cooling for temperatures from -70 °C to + 200 °C
- Flexible SS hose pipes with insulation for fluid circulation
- PC operated / programmable heating or cooling bath with online & historical data logging
- External process temperature control

Application

Used for rotavapours, SS/Glass reactor (micro, lab & plant scale), heat exchanger, fermentors etc. in laboratories / pilot plant of all Pharmaceuticals, Chemical, Beverage, Paint, Dye, Petrochemical, Agrochemical etc. Industries & in research & educational institutes.

Our motto, customer's delight & not mere satisfaction



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