

Providing a constant temperature control and high cooling efficiency.



Performance

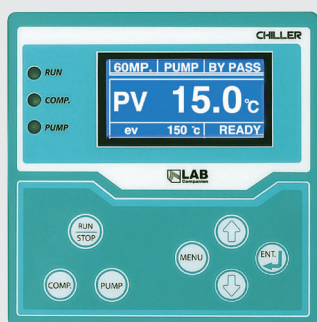
- Temperature range from 3 °C to 40 °C.
- High cooling capacity up to 7.1kW at 20 °C.
- Powerful circulating pumps up to 40L/min., 4.3 bar.
- Refrigerating system is designed to reduce energy consumption and maximize refrigerating efficiency.
- Pump pressure can be controlled using a by-pass function. (for H type)

Convenience

- Clear and easy-to-use LCD display. (resolution 0.1 °C)
- Bright LED water level indicator can be seen from a distance.
- Built in pressure gauge for checking pump pressure at a glance.
- High/low pressure gauges for condition diagnosis of refrigerating system at a glance. (for H type)
- Wide filling inlet for easy and safe pouring of solution into the unit.
- Suitable model is selectable between magnetic pump, centrifugal pump.
- Double service valve prevents refrigerant leakage for easy maintenance.
- Removable gridded vent for easy maintenance of condenser.
- Built-in casters for easy transport and installation.

Safety

- Self-diagnostic function identifying errors.
- Complete safety protection system with warning alarms.
 - Low fluid level and dry-running protection; when triggered shows an error symbol on the display and an audible buzzer sound.
 - Over-temperature protection; If the equipment operates at over maximum temperature due to external environment, user can simply identify the error with a visual signal or an audible buzzer sound.
 - Over-current circuit breaker.
- Eco-friendly R-404A refrigerant use for environmental protection.
- Splash-proof keypad.



LCD display



Pressure gauge



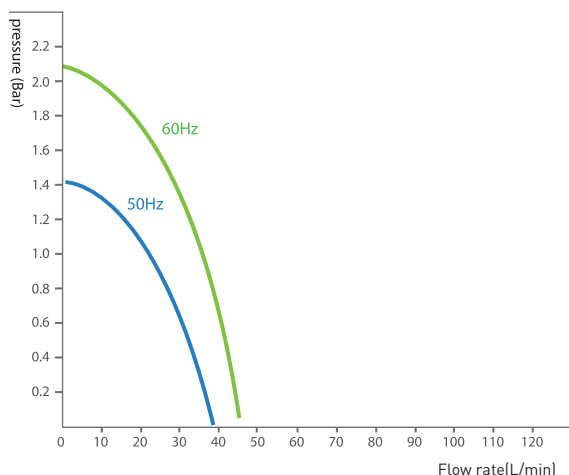
Level indicator

Testing in accordance with **DIN EN 12876**

Standard accessories • 3/4" male to 3/4" male adapters (2ea)
see page 120-121 • Ball valves (2ea)

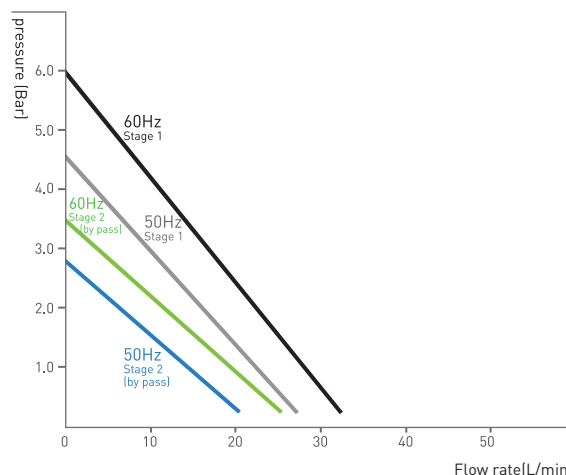
Pumping capacities (bath fluid: water)

Magnetic pump



• HX-20, 25

Centrifugal pump



• HX-20H, 25H, 35H, 45H, 55H

Model		HX-20	HX-25	HX-20H	HX-25H	HX-35H	HX-45H ²⁾	HX-55H ²⁾	
Temperature ¹⁾ (bath fluid : water)	Working temperature range (°C / °F)	+3 to 40 / +37.4 to 104							
	Temperature stability at 15°C (±°C / °F)	1 / 1.8							
Cooling capacity (bath fluid : water)	at 20°C (kW)	1.9	2.4	1.9	2.4	3.6	4.7	7.1	
	at 10°C (kW)	1.4	1.7	1.4	1.7	3.1	3.6	5.1	
	at 5°C (kW)	1	1.4	1	1.4	2.4	2.9	4.2	
Pump	Max. flow rate (L / min, gal / min)	40 / 10.6		28 / 7.39					
	Max. pressure (bar / psi)	1.43 / 20.74		4.3 / 62.37					
Dimension	Max. filling capacity (L / cu ft)	35 / 1.24				45 / 1.59			
	For tubing dia. (mm / inch)	20 / 3/4							
	Filling inlet (Ø, mm / inch)	50 / 1.9							
	Overall (WxLxH, mm / inch)	620x785x990 / 24.4x30.9x39					745x800x1095 / 29.3x31.5x43.1		
	Net weight (kg / lbs)	93 / 205	101 / 223	97 / 214	105 / 231	120 / 265	130 / 287	140 / 309	
Electrical requirements (230V, 60Hz)	8.5A	9A	9.3A	9.8A	15A	19A			
Cat. No.	AAH64011K	AAH64021K	AAH64111K	AAH64121K	AAH64131K	AAH64141K		-	
Electrical requirements (230V, 50Hz)	7A	7.6A	7.9A	8.8A	14A				
Cat. No.	AAH64012K	AAH64022K	AAH64112K	AAH64122K	AAH64132K				
Electrical requirements (120V, 60Hz)	17A	22A							
Cat. No.	AAH64013U	AAH64023U	-	-	-	-	-	-	
Electrical requirements (380V, 60Hz)						10A	11.5A		
Cat. No.	-	-	-	-	-	AAH64149K	AAH64159K		
Electrical requirements (380V, 50Hz)						7A	8.5A		
Cat. No.	-	-	-	-	-	AAH64148K	AAH64158K		

1) Technical data according to DIN 12876

2) HX-45H, 55H is recorded by 380V, 60Hz.

* Above specification value is recorded by 50Hz.

* Product performance may be affected by ambient temperatures.

* FDA establishment registered company. FDA listed products.

Accessories & Options

Barbed fittings

Cat. No.	Description
HXE1066	3/4" male to barbed fitting for tubing 1" inner dia.
HXE1067	3/4" male to barbed fitting for tubing 3/4" inner dia.
HXE1068	3/4" male to barbed fitting for tubing 5/8" inner dia.
HXE1069	3/4" male to barbed fitting for tubing 1/2" inner dia.
HXE1070	3/4" male to barbed fitting for tubing 3/8" inner dia.
AAA64501	1" barbed fittings set with ball valve
AAA64502	3/4" barbed fittings set with ball valve
AAA64503	5/8" barbed fittings set with ball valve
AAA64504	1/2" barbed fittings set with ball valve
AAA64505	3/8" barbed fittings set with ball valve
AAA64506	1" barbed fittings set with gate valve
AAA64507	3/4" barbed fittings set with gate valve
AAA64508	5/8" barbed fittings set with gate valve
AAA64509	1/2" barbed fittings set with gate valve
AAA64510	3/8" barbed fittings set with gate valve



Barbed fittings

Geared for quick connecting of various size type tubes using pipe fittings, tube fittings, and hose fittings without tools.

Connectors / Adapters

Cat. No.	Description
HXE1105	3/4" male to 3/4" female
HXE1106	3/4" male to 5/8" female
HXE1107	3/4" male to 1/2" female
HXE1108	3/4" male to 3/8" female
HXE1109	3/4" male to 3/4" male
HXE1110	3/4" male to 5/8" male
HXE1111	3/4" male to 1/2" male
HXE1112	3/4" male to 3/8" male



Connectors / Adapters

Connect tubing or other devices.

One touch adapters set

Cat. No.	Description
HXE1075	12mm one touch adapter ID. 9mm, OD. 12mm
HXE1076	10mm one touch adapter ID. 6.5mm, OD. 10mm
HXE1077	8mm one touch adapter ID. 5.5mm, OD. 8mm
HXE1078	6mm one touch adapter ID. 4mm, OD. 6mm
AAA64531	12mm adapters set with ball valve
AAA64532	10mm adapters set with ball valve
AAA64533	8mm adapters set with ball valve
AAA64534	6mm adapters set with ball valve



One touch adapters set

Convenient to connect and exchange tubing.

Flexible fittings

Cat. No.	Description
HXE1071	3/4" male to 3/4" flexible fitting
HXE1072	3/4" male to 1/2" female with 1/2" male to 1/2" flexible fitting
AAA64521	3/4" flexible fittings set with ball valve
AAA64522	1/2" flexible fittings set with ball valve
AAA64523	3/4" flexible fittings set with gate valve
AAA64524	1/2" flexible fittings set with gate valve



Flexible fittings

Stainless steel tubing designed for superior flexibility and with good chemical resistance.

Tubings

Cat. No.	Description	
HXE1079	1m 12mm urethane tubing	ID. 9mm, OD. 12mm
HXE1080	1m 10mm urethane tubing	ID. 6.5mm, OD. 10mm
HXE1081	1m 8mm urethane tubing	ID. 5.5mm, OD. 8mm
HXE1082	1m 6mm urethane tubing	ID. 4mm, OD. 6mm
HXE1083	1m 1" PVC tubing with thread	ID. 25mm, OD. 31mm
HXE1084	1m 3/4" PVC tubing with thread	ID. 19mm, OD. 24mm
HXE1085	1m 5/8" PVC tubing with thread	ID. 16mm, OD. 20.5mm
HXE1086	1m 1/2" PVC tubing with thread	ID. 12mm, OD. 16.0mm
HXE1087	1m 3/8" PVC tubing with thread	ID. 10mm, OD. 14mm
HXE1088	1m 1" PVC tubing with wire	ID. 25mm, OD. 33mm
HXE1089	1m 3/4" PVC tubing with wire	ID. 19mm, OD. 26mm
HXE1090	1m 5/8" PVC tubing with wire	ID. 15mm, OD. 22mm
HXE1091	1m 1/2" PVC tubing with wire	ID. 12mm, OD. 18mm
HXE1092	1m 3/8" PVC tubing with wire	ID. 9mm, OD. 15mm



Tubings

Excellent heat resistance and corrosion resistance urethane tubing.

Tubing insulations

Cat. No.	Description	
HXE1093	EPDM insulation, 16mm inner dia. (9T)	
HXE1094	EPDM insulation, 19mm inner dia. (9T)	
HXE1095	EPDM insulation, 25mm inner dia. (9T)	
HXE1096	EPDM insulation, 28mm inner dia. (9T)	
HXE1097	EPDM insulation, 35mm inner dia. (9T)	



Tubing insulations

EPDM insulation is used to reduce heat loss and condensation from cold water plumbing, chilled water, and refrigeration lines.

Flexible tubing

Cat. No.	Description	
HXE1073	3/4" flexible tubing (SUS 304, m)	
HXE1074	1/2" flexible tubing (SUS 304, m)	

Tube clamps

Cat. No.	Description	
HXE1098	1" clamp	
HXE1099	3/4" clamp	
HXE1100	5/8" clamp	
HXE1101	1/2" clamp	
HXE1102	3/8" clamp	



Tube clamps

Corrosion resistant stainless steel clamps

Bath fluid

Cat. No.	Description	
HXE1113	Distilled water (20L)	
HXE1114	Ethylene glycol (4L)	
HXE1115	Ethylene glycol (20L)	

Distributing fittings

Cat. No.	Description	
AAA64541	3-way distributing barbed fittings set (1/4")	
AAA64542	3-way distributing barbed fittings set (3/8")	



Distributing fittings

Distributing fittings connect even with small tubes with barb fittings.

External sensor (for HS, HH)

Cat. No.	Description	
CFA1946	3m cable for Pt 100 sensor	