

Recirculating Coolers (chillers)

- › General Recirculating Coolers
- › Low Temp. Recirculating Coolers
- › Advanced Low Temp. Recirculating Coolers
- › High Temp. Recirculating Coolers
- › Compact Recirculating Cooler



General Applications

Recirculating Cooler (HX)

Warming reagents, Routine laboratory applications, Coliform determinations, Sample thawing, Bacteriological examinations, Microbiological assays, Cell cultivation.

Recirculating Cooler (HL/HS/HH)

Temperature control, Incubations, Material testing, Increasing solubility rates, Corrosion tests, Cell cultivation, Histological studies.

Recirculating Cooler (RC)

Viscosity measurements, Fecal coliform testing, Plasma thawing, Histological studies.

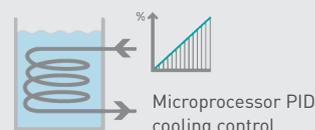
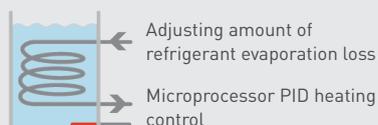
Product Name		General Recirculating Coolers		Low Temp. Recirculating Coolers	
Model		HX	HX-H	HL	HL-H
Description		-		-	
Temp. control (°C/°F)		3 to 40 / 37.4 to 104		-20 to 40 / -4 to 104	
Temp. stability at 15°C (±°C/°F)		1 / 1.8		1 / 1.8	
Cooling capacity at 20°C (Kw)		1.9, 2.4	1.9, 2.4, 3.6, 4.7, 7.1	0.6, 0.7, 1.45, 1.8	1.45, 1.8, 2.5, 3.3, 6.5, 7.1
Heating capacity at 20°C (Kw)		-	-	-	-
Pump (50Hz)	Max. flow rate (L / min)	40	28	50	40, 70
	Max. pressure (bar)	1.58	4.3	1	3.3, 6
Dimension	Max. filling capacity (L)	35, 45		7.5, 13.5, 25, 39	
	for tubing dia. (mm / inch)	20		20	
Control	Display & Control interface	LCD, Buttons		VFD, Touch buttons, Knob	
	Computer interface	-		-	
	JeioTech Network	-		-	
Safety	Over temp. limit	-		-	
	Low fluid level alarm	0		0	
	External sensor	-		-	

Technical Benefits

Wide model selection covers all of your application needs

- Excellent heating and cooling control from -10 to 80°C.
- Cooling capacity of up to 7.7kW
- Circulating pumps up to 70 L/min and 6 bar.
- Energy-effective by-pass model and cost-effective general model.

Stand alone cooling performance



HH models

- Broad cooling and heating task from -20°C to 80°C.
- Quick heat up time with the intergrated heater.
- Superb temperature stability of $\pm 0.1^\circ\text{C}$ by microprocessor PID control.

HS models

- Smart cooling performance from with high temperature stability.
- No heater equipped, high temperature stability of $\pm 0.2^\circ\text{C}$ is guaranteed with only using a refrigerating system.
- Cooling capacity of refrigerator is adjustable from 1% to 100% by high-tech microprocessor PID control. (patent pending)

Advanced Low Temp. Recirculating Coolers		High Temp. Recirculating Coolers		Compact Recirculating Cooler
HS	HS-H	HH	HH-H	RC
• Precise temperature stability without heater.		• Broad temp. range. • Quick heat up time and precise temp. stability with intergrated heater.		• Compact size.
-20 to 40 / -4 to 104		-20 to 80 / -4 to 176		-10 to 30 / 14 to 86
0.2 / 0.36		0.1 / 0.2		1 / 1.8
1.45, 1.8, 2.5, 3.3, 6.5, 7.1	6.5, 7.1	1.45, 1.8, 2.5, 3.3	6.5, 7.1	0.58
-	-	2, 4	8.4	-
40	70	40	70	26
3.3	6	3.3	6	0.7
13.5, 25, 39		13.5, 25, 39		5
20		20		9.5
VFD, Touch buttons, Knob		VFD, Touch buttons, Knob		LCD, Buttons
RS-232 port, Alarm output port		RS-232 port, Alarm output port		-
0		0		-
-		0		-
0		0		0
0 (optional)		0 (optional)		-

Providing a constant temperature control and high cooling efficiency.



Performance

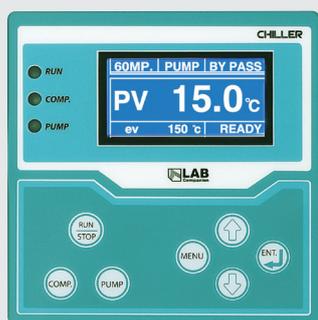
- Temperature range from 3°C to 40°C.
- High cooling capacity up to 7.1kW at 20°C.
- Powerful circulating pumps up to 40L/min., 4.3 bar.
- Refrigerating system is designed to reduce energy consumption and maximize refrigerating efficiency.
- Pump pressure can be controlled using a by-pass function. (for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

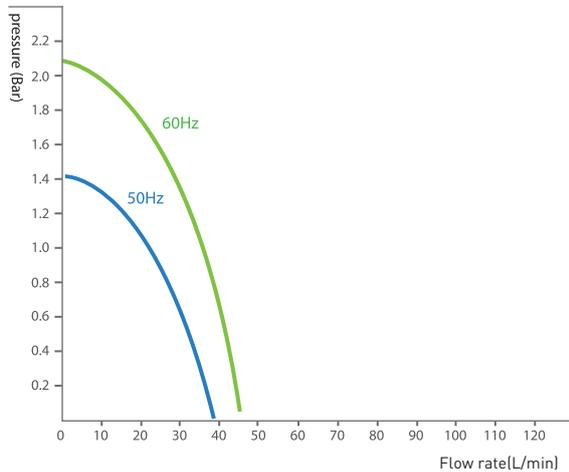
- 3/4" male to 3/4" male adapters (2ea)
- Ball valves (2ea)

see page 128-129



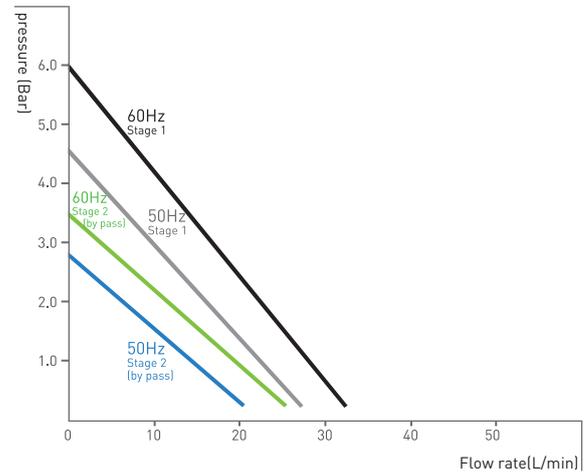
Pumping capacities (bath fluid: water)

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.

Recirculating Coolers (Low Temp.)

Powerful recirculating coolers.

Provide a wide range of cooling capacities with temperature reliability.



Performance

- Temperature range from -20°C to 40°C.
- High cooling capacity up to 7.1kW at 20°C.
- Powerful circulating pumps up to 70L/min., 6 bar.
- Refrigerating system is designed to reduce energy consumption and maximize refrigerating efficiency.

Convenience

- Designed to simplify operation with a touch screen type display.
 - Easy-to-read VFD display with interactive touch keys.
 - Setting and resolution indication 0.1°C/°F.
 - Quick keypad lock prevents accidental parameter changes.
 - Signal indicator for operation status.
- 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.
- 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 / R-507 refrigerant use for environmental protection.
- Splash-proof keypad.

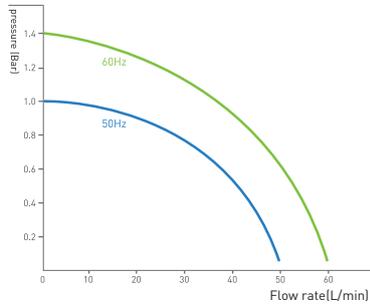
Testing in accordance with **DIN EN 12876**

Standard accessories • 3/4" male to 3/4" male adapters (2ea)
see page 128-129 • Ball valves (2ea)

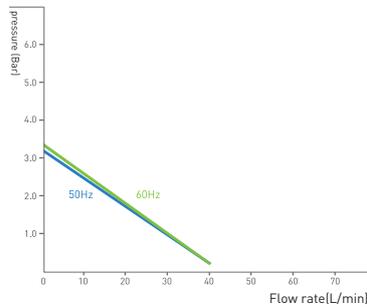


Pumping capacities (Bath fluid : ethylene glycol mix 1:1 water)

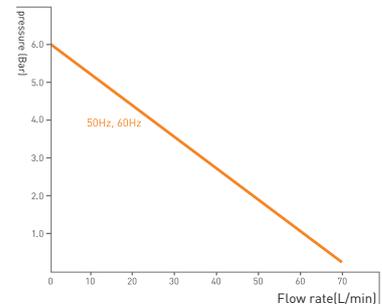
Submersible pump



- HL-05, 10, 15, 2



- HL-15H, 20H, 25H, 35H



- HL-45H, 55H

Model		HL-05	HL-10	HL-15	HL-20	HL-15H	HL-20H	HL-25H	HL-35H	HL-45H ²⁾	HL-55H ²⁾	
Temperature ¹⁾ (bath fluid : ethylene glycol mix 1:1 water)	Working temp. range (°C / °F)	-20 to 40 / -4 to 104										
	Temp. stability at 15°C, (±°C / °F)	1 / 1.8										
Cooling capacity (bath fluid : ethylene glycol mix 1:1 water)	at 20°C (kw)	0.6	0.7	1.45	1.8	1.45	1.8	2.5	3.3	6.5	7.1	
	at 10°C (kw)	0.5	0.6	1.15	1.5	1.15	1.5	1.8	2.3	4.5	6	
	at 0°C (kw)	0.35	0.42	0.86	1.15	0.86	1.15	1.1	1.7	3	4.1	
	at -10°C (kw)	0.18	0.32	0.62	0.85	0.62	0.85	0.65	1	2.1	2.5	
	at -20°C (kw)	0.04	0.14	0.3	0.40	0.3	0.4	0.4	0.55	1.2	1.5	
Pump	Max. flow rate (L / min, gal / min)	50 / 13.2				40 / 10.57				70 / 18.49		
	Max. pressure (bar / psi)	1 / 14.5				3.3 / 47.9				6 / 87		
Dimension	Max. filling Capacity (L, cu ft)	75 / 0.26		13.5 / 0.47				25 / 0.88		39 / 1.37		
	For tubing dia. (mm / inch)	20 / 3/4										
	Filling inlet (Ø, mm / inch)	120 / 4.7										
	Overall (WxLxH, mm / inch)	405×620×710 / 15.9×24.4×28			515×715×835 / 20.3×28.1×32.9				550×900×1140 / 21.7×35.4×44.9		605×1045×1300 / 23.8×41.4×51.2	
	Net weight (kg / lbs)	62.85 / 138.6	64.85 / 143	86.5 / 190.7	87.35 / 192.9	91.8 / 202.4	92.65 / 204.3	141.3 / 310.9	146.3 / 321.9	171 ±10 / 377 ±22	176 ±10 / 388 ±22	
Electric requirement (230V, 60Hz)	5A	5.5A	6.5A	7.5A	6.5A	7.5A	9.5A	13.5A				
Cat. No.	AAH65001K	AAH65011K	AAH65021K	AAH65031K	AAH65121K	AAH65131K	AAH65141K	AAH65151K	-	-		
Electric requirement (230V, 50Hz)	4.5A	5A	6A	7A	6A	7A	7.5A	12.5A				
Cat. No.	AAH65002K	AAH65012K	AAH65022K	AAH65032K	AAH65122K	AAH65132K	AAH65142K	AAH65152K	-	-		
Electric requirement (120V, 60Hz)	10A	11A	13A	15A								
Cat. No.	AAH65003U	AAH65013U	AAH65023U	AAH65033U	-	-	-	-	-	-		
Electric requirement (380V, 60Hz)									5.5A	7A		
Cat. No.	-	-	-	-	-	-	-	-	AAH65169K	AAH65179K		
Electric requirement (380V, 50Hz)									5A	6A		
Cat. No.	-	-	-	-	-	-	-	-	AAH65168K	AAH65178K		

1) Technical data according to DIN 12876.

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

* Above specification value is recorded by 50Hz.

* Product performance may be affected by ambient temperatures.

* CE except for HL-45H/55H.

* FDA establishment registered company. FDA listed products.

Adjustable, precise PID temperature controller beneficial for various cooling tasks in the science, research, and industrial laboratories.



REMOTE CONTROL
with your **MOBILE DEVICE**
see page 8-9



Testing in accordance with **DIN EN 12876**

Standard accessories

- 3/4" male to 3/4" male adapters (2ea)
- Ball valves (2ea)

Optional accessories

- Gateway

see page 128-129

Performance

- Temperature range from -20°C to 40°C.
- High cooling capacity up to 7.1kW at 20°C.
- Powerful circulating pumps up to 70L/min., 6 bar.
- Precise temperature stability $\pm 0.2^\circ\text{C}$ (at 15°C) without heater.
 - Innovative and exclusive controller can adjust the cooling capacity from 1% to 100%.
- Refrigerating system is designed to reduce energy consumption and maximize refrigerating efficiency.

Convenience

- Designed to simplify operation with a touch screen type display.
 - Setting and resolution indication 0.1°C/°F.
 - Quick keypad lock prevents accidental parameter changes.
- Bright LED water level indicator can be seen from a distance.
- Optional external sensor can be connected for more actual temperature control.
- 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.
- 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.
- RS-232 interface for external control and data collection.

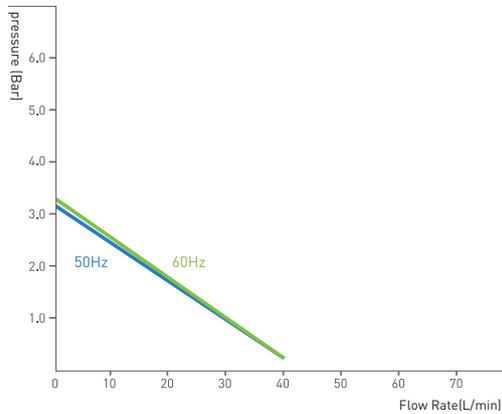
Safety

- 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 / R-507 refrigerant use for environmental protection.
- Splash-proof keypad.

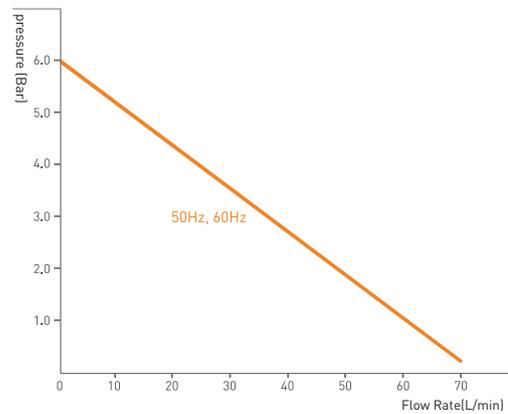


Pumping capacities (bath fluid: water)

Submersible pump



• HS -15, 20, 25, 35, 45, 55



• HS - 45H, 55H

Model		HS-15	HS-20	HS-25	HS-35	HS-45	HS-55	HS-45H ²⁾	HS-55H ²⁾	
Temperature ¹⁾ (bath fluid : ethylene glycol mix 1:1 water)	Working temperature range (°C / °F)	-20 to 40 / -4 to 104								
	Temperature stability at 15°C, (±°C / °F)	0.2 / 0.36								
Cooling capacity (bath fluid : ethylene glycol mix 1:1 water)	at 20°C (kw)	1.45	1.8	2.5	3.3	6.5	7.1	6.5	7.1	
	at 10°C (kw)	1.15	1.5	1.8	2.3	4.5	6	4.5	6	
	at 0°C (kw)	0.86	1.15	1.1	1.7	3	4.1	3	4.1	
	at -10°C (kw)	0.62	0.85	0.65	1	2.1	2.5	2.1	2.5	
	at -20°C (kw)	0.3	0.4	0.4	0.55	1.2	1.5	1.2	1.5	
Pump	Max. flow rate (L / min, gal / min)	40 / 10.57						70 / 18.49		
	Max. pressure (bar / psi)	3.3 / 47.86						6 / 87		
Dimension	Max. filling Capacity (L, cu ft)	13.5 / 0.47		25 / 0.88		39 / 1.37				
	For tubing dia. (mm / inch)	20 / 3/4								
	Filling inlet (Ø, mm / inch)	120 / 4.7								
	Overall (W×L×H, mm / inch)	515×715× 835 / 20.3×28.1×32.9			550×900×1140 / 21.7×35.4×44.9		605×1045×1300 / 23.8×41.4×51.2			
	Net weight (kg / lbs)	91.8 / 202.4	92.65 / 204.3	141.3 / 310.9	146.3 / 321.9	168 ±10 / 370 ±22	173±10 / 381 ±22	171 ±10 / 377 ±22	176 ±10 / 388 ±22	
Electric Requirement (230V, 60Hz)		6.5 A	7.5 A	9.5 A	13.5 A					
Cat. No.		AAH66011K	AAH66021K	AAH66031K	AAH66041K	-	-	-	-	
Electric Requirement (230V, 50Hz)		6 A	7 A	7.5 A	12.5 A					
Cat. No.		AAH66012K	AAH66022K	AAH66032K	AAH66042K	-	-	-	-	
Electric Requirement (380V, 60Hz)						5.5 A	7 A	5.5 A	7 A	
Cat. No.		-	-	-	-	AAH66259K	AAH66469K	AAH66359K	AAH66569K	
Electric Requirement (380V, 50Hz)						5 A	6 A	5 A	6 A	
Cat. No.		-	-	-	-	AAH66258K	AAH66468K	AAH66358K	AAH66568K	

1) Technical data according to DIN 12876.

2) HS-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.

Recirculating Coolers (High Temp.)

Broad temperature ranging up to 80°C for various applications. Also integrated heaters greatly provides high temperature stability.



REMOTE CONTROL
with your **MOBILE DEVICE**
see page 8-9



Testing in accordance with **DIN EN 12876**

Standard accessories

- 3/4" male to 3/4" male adapters (2ea)
- Ball valves (2ea)

Optional accessories

- Gateway

see page 128-129

Performance

- Wide temperature range from -20°C to 80°C.
- High cooling capacity up to 7.1kW at 20°C.
- Powerful circulating pumps up to 70L/min., 6 bar.
- Precise temperature stability $\pm 0.1^\circ\text{C}$ (at 15°C) with integrated heaters.
- Refrigerating system is designed to reduce energy consumption and maximize refrigerating efficiency.

Convenience

- Designed to simplify operation with a touch screen type display.
 - Setting and resolution indication 0.1°C/°F.
 - Quick keypad lock prevents accidental parameter changes.
- Bright LED water level indicator can be seen from a distance.
- Optional external sensor can be connected for more actual temperature control.
- 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.
- 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.
- RS-232 interface for external control and data collection.

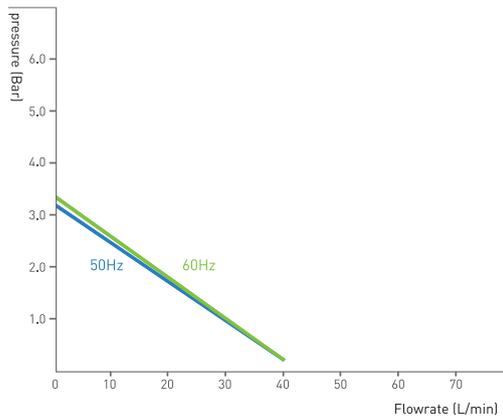
Safety

- 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 / R-507 refrigerant use for environmental protection.
- Splash-proof keypad.

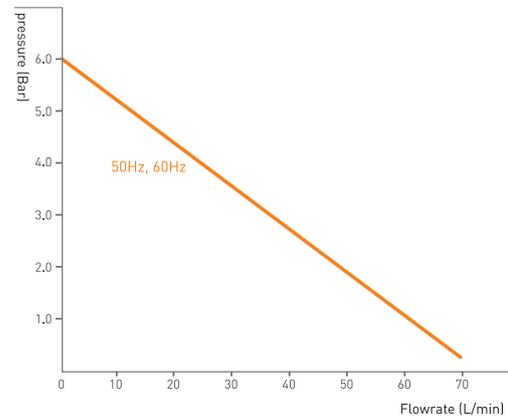


Pumping capacities (bath fluid : ethylene glycol mix 1:1 water)

Submersible pump



• HH- 15, 20, 25, 35



• HH- 45H, 55H

Model		HH-15	HH-20	HH-25	HH-35	HH-45H ²⁾	HH-55H ²⁾	
Temperature ¹⁾ (bath fluid : ethylene glycol mix 1:1 water)	Working temperature range (°C / °F)	-20 to 80 / - 4 to 176						
	Temperature stability at 15°C (±°C / °F)	0.1 / 0.2						
Cooling capacity (bath Fluid : ethylene glycol mix 1:1 water)	at 80°C (kw)	2	2.5	3.5	4	6	7.5	
	at 40°C (kw)	0.9	1	2.4	2.5	4.5	5	
	at 20°C (kw)	1.45	1.8	2.5	3.3	6.5	7.1	
	at 0°C (kw)	0.86	1.15	1.1	1.7	3	4.1	
	at -20°C (kw)	0.3	0.4	0.4	0.55	1.2	1.5	
Heating capacity(kw)		2		4		8.4		
Pump	Max. flow rate (L / min, gal / min)	40 / 10.6				70 / 18.5		
	Max. pressure (bar / psi)	3.3 / 47.9				6 / 87.02		
Dimension	Max. filling capacity (L, cu ft)	13.5 / 0.47		25 / 0.88		39 / 1.37		
	For tubing dia. (mm / inch)	20 / 3/4						
	Filling inlet (Ø, mm / inch)	120 / 4.7						
	Overall (WxDxH, mm / inch)	515×715× 835 / 20.3×28.1×32.9			550×900×1140 / 21.7×35.4×44.9		605×1045×1300 / 23.8×41.4×51.2	
	Net weight (kg / lbs)	92 / 202.8	93 / 205	142 / 313	147 / 324	171±10 / 377±22	176±10 / 388±22	
Electric requirement (230V, 60Hz)		15A	16A	27A	31A			
Cat. No.		AAH67011K	AAH67021K	AAH67031K	AAH67041K	-	-	
Electric requirement (230V, 50Hz)		14.5A	15.5A	25A	30A			
Cat. No.		AAH67012K	AAH67022K	AAH67032K	AAH67042K	-	-	
Electric requirement (380V, 60Hz)						18.3	19.8	
Cat. No.		-	-	-	-	AAH67159K	AAH67169K	
Electric requirement (380V, 50Hz)						17.8	19.3	
Cat. No.		-	-	-	-	AAH67158K	AAH67168K	

1) Technical data according to DIN 12876.

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

※ Above specification value is recorded by 50Hz.

※ Product performance may be affected by ambient temperatures.

※ Under the condition of no-load operation, cooling capacity should be lower than heating capacity.

※ FDA establishment registered company. FDA listed products.

Recirculating Coolers (Compact)

This compact designed model is ideal for cooling small laboratory equipment in daily use.



Performance

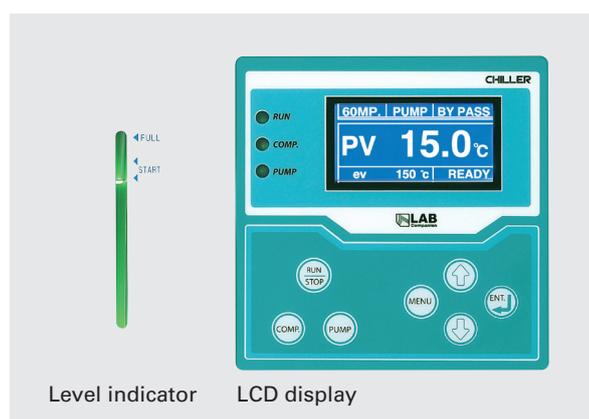
- Temperature range from -10°C to 30°C.
- Refrigerating system is designed to reduce energy consumption and maximize refrigerating efficiency.

Convenience

- Clear and easy-to-use LCD display. (resolution 0.1°C)
- Bright LED water level indicator can be seen from a distance.
- Wide filling inlet for easy and safe pouring of solution into the unit.
- Double service valve prevents refrigerant leakage for easy maintenance.
- Removable gridded vent for easy maintenance of condenser.
- Compact design for space saving. The unit is suitable for stable temperature cooling compact devices such as rotary evaporators in laboratory.
- Variety of accessories are available to meet application demands.

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-507 refrigerant use for environmental protection.
- Splash-proof keypad.



Level indicator LCD display

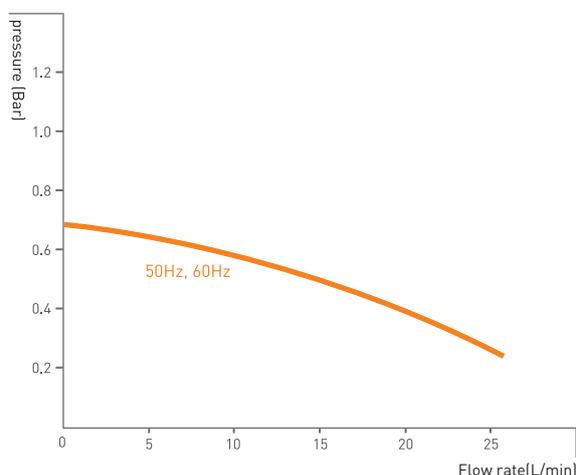
Testing in accordance with **DIN EN 12876**

Optional accessories
see page 128-129

- Adapters
- Tubing, Insulations
- Tube clamps
- Bath fluid

Pumping capacities (bath fluid: ethanol)

Magnetic pump



• RC-05



Model		RC-05
Temperature ¹⁾	Working temperature range (°C / °F)	-10 to 30 / 14 to 86
	Temperature stability at 15°C (±°C / °F) (bath fluid : water)	1 / 1.8
Cooling capacity (bath fluid : ethanol)	at 20°C (kW)	0.58
	at 10°C (kW)	0.45
	at 0°C (kW)	0.35
	at -10°C (kW)	0.27
	at -20°C (kW)	0.11
Pump	Max. flow rate (L / min, gal / min)	26 / 6.87
	Max. pressure (bar / psi)	0.7 / 10.15
Dimension	Max. filling capacity (L / cu ft)	5 / 0.18
	For tubing dia. (mm / inch)	9.5 / 3/8
	Filling inlet (Ø, mm / inch)	120 / 4.7
	Overall (WxLxH, mm / inch)	300x550x530 / 11.8x21.7x20.9
	Net weight (kg / lbs)	45 / 99.2
Electrical requirements (230V, 60Hz)		4A
Cat. No.		ACH651011K
Electrical requirements (230V, 50Hz)		4A
Cat. No.		ACH651012K

1) Technical data according to DIN 12876.

※ Above specification value is recorded by 60Hz.

※ Product performance may be affected by ambient temperatures.

Accessories & Options

Gateway

Cat. No.	Description	Suitable for
AAAQ1011	Gateway (2.4GHz, 100~240V, 50/60Hz)	HS, HH models



Gateway

Establish Jeio Tech Network by Gateway. No computer use is required at all.

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

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	