

Chiller (Recirculating Cooler)

HX general type

Verified performance and durability according to international standards.

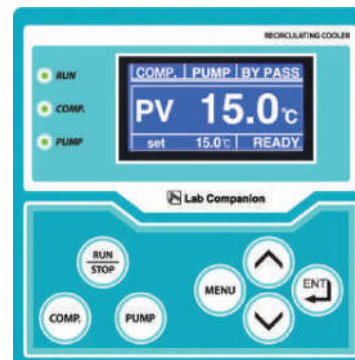
Structural Functional Features

- Designed and tested according to strict international standards.
- Provides proven performance specifications and high reliability.
- Optimized slim and compact design minimizes installation space.
- The conventional simple refrigerant compressor control method can cause the compressor life to be shortened by turning the refrigeration system on/off from time to time to control the temperature. However, the Lab Companion's Chiller is a unique refrigerant control type cooling system completed using our proprietary technology development. Compressor On/Off operation is minimized, and durability of the cooling system is greatly increased.
- Double service valve prevents refrigerant leakage.
- Easy installation with air-cooled type integrated refrigeration system.
- Easy to clean as it is easy to remove refrigerator condenser grill, making it convenient to maintain efficiency of refrigeration.
- Installation of refrigeration system using environmentally friendly refrigerant.
- Pump pressure can be confirmed from the front of the machine, so it is always convenient to check the operation status.
- Pressure-sensitive user application protection (H Type) due to by-pass function to reduce pump pressure.
- Bath fluid inlet is wide, making installation and maintenance convenient.
- Equipped with removable casters for easy movement and installation.



HX-65H

HX-45H



Use Convenience Features

- Bright LCD display provides excellent visual perception.
- Identify all operations and operating conditions from the front panel.
- Simultaneously displays the set value and the current value, and settings can be changed during equipment use, making it convenient.
- Highly-reliable control through calibration.
- The refrigeration compressor and pump can be each turned On/Off.
- Level indicator with LED backlight for easy checking of bath fluid level.
- Easy to maintain as a drain valve is included.

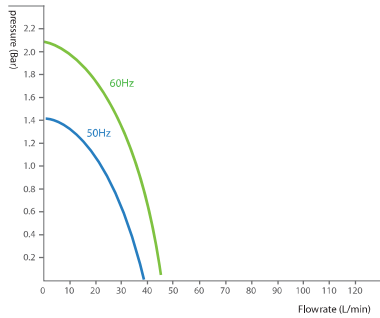
Outstanding Safety

- Over temperature alarm.
- Provides a warning when abnormal temperature or bath fluid shortage is detected, and keeps the chiller operating continuously to protect the user application.
- Over-current and short circuit protection of device.
- Auto stop when operating current of refrigerator is overloaded.



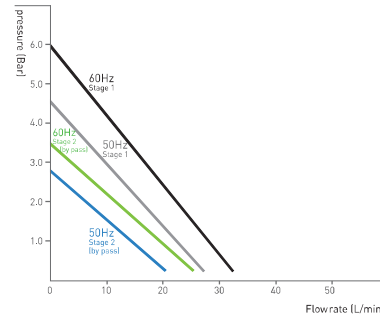
Pumping capacities

Submersible pump



※ Application model : HX-20, 25

Centrifugal pump



※ Application model : HX-20H, 25H, 35H, 45H, 55H

Specification

Model	HX-20	HX-25	HX-20H	HX-25H	HX-35H	HX-45H	HX-55H
Interior dimensions							
Max. filling volume (L / cu ft)	35 / 1.24	35 / 1.24	35 / 1.24	35 / 1.24	45 / 1.59	45 / 1.59	45 / 1.59
Refrigerator capacity (HP)	3/4	1	3/4	1	1.5	2	3
For tubing dia. (mm / inch)	20 / (3/4")	20 / (3/4")	20 / (3/4")	20 / (3/4")	20 / (3/4")	20 / (3/4")	20 / (3/4")
Filling inlet (Ø, mm / inch)	50 / 1.9	50 / 1.9	50 / 1.9	50 / 1.9	50 / 1.9	50 / 1.9	50 / 1.9
Exterior dimensions							
Width (mm / inch)	620 / 24.4	620 / 24.4	620 / 24.4	620 / 24.4	745 / 29.3	745 / 29.3	745 / 29.3
Depth (with drain valve), (mm / inch)	715 (785) / 28.1(30.9)	715 (785) / 28.1(30.9)	715 (785) / 28.1(30.9)	715 (785) / 28.1(30.9)	735 (800) / 28.9 (31.5)	735 (800) / 28.9 (31.5)	735 (800) / 28.9 (31.5)
Height (with lid), (mm / inch)	955 (990) / 37.6 (39.0)	955 (990) / 37.6 (39.0)	955 (990) / 37.6 (39.0)	955 (990) / 37.6 (39.0)	1060 (1095) / 41.7 (43.1)	1060 (1095) / 41.7 (43.1)	1060 (1095) / 41.7 (43.1)
Weight (kg / lbs)	93 / 205	101 / 223	97 / 214	105 / 231	120 / 265	130 / 287	140 / 309
Temperature data							
Working temperature range (°C / °F)	3 to 40 / 37.4 to 104	3 to 40 / 37.4 to 104	3 to 40 / 37.4 to 104	3 to 40 / 37.4 to 104	3 to 40 / 37.4 to 104	3 to 40 / 37.4 to 104	3 to 40 / 37.4 to 104
Temperature stability at 15°C (±°C / °F)	1 / 1.18	1 / 1.18	1 / 1.18	1 / 1.18	1 / 1.18	1 / 1.18	1 / 1.18
Cooling capacity, Max							
at 20°C (kW)	2.2	2.8	2.2	2.8	4.2	5.5	8.1
at 10°C (kW)	1.6	2	1.6	2	3.6	4.2	5.9
at 5°C (kW)	1.2	1.6	1.2	1.6	2.8	3.4	4.8
Pump data							
Max. flow rate (L / min, gal / min)	40 / 10.6	40 / 10.6	32 / 8.5	32 / 8.5	32 / 8.5	32 / 8.5	32 / 8.5
Max. pressure (bar / psi)	2 / 29.0	2 / 29.0	6 / 87.0	6 / 87.0	6 / 87.0	6 / 87.0	6 / 87.0
Electrical data & Ordering information							
230V, 50Hz, A	7	7.6	7.9	8.8	15	19	
Cat. No.	AAH64012K	AAH64022K	AAH64112K	AAH64122K	AAH64132K (50/60Hz)	AAH64142K	-
230V, 60Hz, A	8.5	9	9.3	9.8	15	19	
Cat. No.	AAH64011K	AAH64021K	AAH64111K	AAH64121K	AAH64132K (50/60Hz)	AAA64141	-
120V, 60Hz, A	17	22					
Cat. No.	AAH64013U	AAH64023U	-	-	-	-	-
380V, 50Hz, A						7	8.5
Cat. No.	-	-	-	-	-	AAH64148K	AAH64158K
380V, 60Hz, A						10	11.5
Cat. No.	-	-	-	-	-	AAH64149K	AAH64159K

- ※ According to DIN 12876
- ※ Temperature stability / Cooling capacity / Pump data : Water
- ※ Above specification value is recorded by 230V 60Hz. (HX-45H, 55H is recorded by 380V 60Hz)
- ※ Product performance may be affected by ambient temperature.

Accessories Page 44 Fitting, Connector, Adapter, Tubing, Tube Clamp