

- 1) Installation and operation
Before installing and operating this chiller(/heater), read all applicable manual(s).
- 2) **WARNING**
Do not store or use gasoline, thinner or other flammable vapors, liquid and materials in the vicinity of chiller(/heater).
- 3) Machine room
Keep the machine room temperature between 5C(41F) and 40C(105F) to protect against solution crystallization during chiller(/heater) shut down.
Keep the humidity in the machine room within 90%.

<For 16DJ (Direct fired type)>
Perform sufficient ventilation in the machine room.
Required fresh air rate for combustion : Approximately 1.0 cub.m/h(35 cub.ft/h) per fuel consumption of 1 kW(3400 Btu/h).

Keep the service and maintenance clearances shown in the dimensional drawing.
- 4) Purging
Ensure that air cannot leak into the chiller(/heater)(refer to the relevant manuals).
The chiller(/heater) has palladium cell as an auto-purge system; do not turn off the main power supply to chiller(/heater) during chiller(/heater) shut-down.
- 5) Pumps and Air handling units
Operate the chilled water pump(s) and air handling unit(s) during dilution cycle of the chiller(/heater) [according to the signal from chiller\(/heater\)](#).

[During the operation of the chill\(/heater\), never stop the cooling water pump\(s\) manually. Operate the cooling water pump\(s\) by the signal from chiller\(/heater\).](#)

Do not operate cooling water pump within 1 hour after chiller(/heater) stops completely for protection of chilled water frozen.
- 6) Winter season
In winter, ensure that the chilled and cooling waters in the pipes does not freeze during chiller(/heater) shut-down. If the cooling water pump(s) operate to provide frost protection of the cooling water, operate the chilled water pump(s) simultaneously.
[When cooling water temp. does not get rated conditon after 30 min. of chiller operation, the chiller stops.](#)

<For 16DJ (Direct fired type)>
In case of several chiller/heater operation in heating mode, do not flow through above 60C(140F) hot water into the chiller/heater.
[In heating mode, cooling water temp. in the chiller rises to approx. 90C\(194F\). Then, if using lining pipe in the cooling water line, use resistance to heat lining pipe.](#)
- 7) Service and maintenance
The chiller(/heater) should be checked periodically, please contact the service agent.
- 8) In case to give serious infliction by chiller(/heater)'s trouble, please install standby chiller(/heater).



Precautions for use

Model

All model

Drawing code

CM-005-001-00-3