### DESCRIPTION

Packaged water-cooled liquid chillers are factory wired, piped, and charged with HFC-134a.

### FEATURES

Cooler is mechanically cleanable shell-and-tube type with removable heads. It is tested and stamped in accordance with ASME Code for a refrigerant working side pressure of 235 psig (1620 kPa) and a minimum water side pressure of 300 psig (2068 kPa) (250 psig [1720 kPa] in Canada).

Compressor is semi-hermetic twin screw design with refrigerant gas cooled motor and integral oil filter and discharge gas muffler. Complete thermal and electrical protection is provided.

Water-cooled condenser is mechanically cleanable shell-and-tube type with removable heads and is tested and stamped in accordance with ASME Code for a refrigerant working side pressure of 235 psig (1620 kPa) and a minimum water side pressure of 300 psig (2068 kPa) (250 psig [1720 kPa] in Canada).

Each refrigerant circuit includes oil separator, high side pressure relief device, liquid and discharge line shutoff valve, filter drier, moisture indicating sight glass, expansion valve.

Microprocessor control includes keypad, system status (including temperatures, pressures and % loading) and the alarm conditions.

Automatic circuit lead/lag.

Capacity control based on leaving chilled water temperature with return water temperature sensing.

7-day time scheduling of pump(s) and chiller.

### PERFORMANCE DATA

**UNIT:**
- Capacity ____________________________
- Compressor Input Power ___________________ kW
- Unit Input Power _______________________ kW
- Minimum Capacity % ____________________________ %
- EER _______________________
- Weight _____________________________

**COOLER:**
- Cooler Fluid __________________________
- Entering Fluid Temperature _______________________
- Leaving Fluid Temperature _____________________
- Flow Rate _____________________________
- Pressure Drop __________________________
- Fouling Factor __________________________

**CONDENSER:**
- Condenser Fluid _________________________
- Entering Fluid Temperature _______________________
- Leaving Fluid Temperature _____________________
- Flow Rate _____________________________
- Pressure Drop __________________________
- Fouling Factor __________________________
- Total Heat Rejected ________________________

**ELECTRICAL DATA**
- Power Supply to Unit _______ Volts _______ Ph _______ Hz
- Power Supply to Control Circuit _______ Volts _______ Ph _______ Hz
- Minimum Amps _________________________ Amps
- Maximum Fuse Amps ____________________ Amps
- Control Circuit Fuse Amps _______ Amps
- Maximum Instantaneous Current Flow __________ Amps

**FACTORY-INSTALLED OPTIONS**

- □ ____________________________
- □ ____________________________
- □ ____________________________
- □ ____________________________

**FIELD-INSTALLED ACCESSORIES**

- □ ____________________________
- □ ____________________________
- □ ____________________________
- □ ____________________________
NOTES
1. DIMENSIONS IN ( ) ARE IN MILLIMETERS.
2. 26" (762mm) RECOMMENDED AVAILABLE CLEARANCE AROUND MACHINE.
3. UNDESK PORTION OF PIPING OPENINGS TO BE CLOSED AND INSULATED FOR ACOUSTIC PURPOSES. USE FILLER PANEL IN ACCESSORY PACKAGE.
4. FIELD FABRICATED HOLES MUST BE CLOSED AND INSULATED FOR ACOUSTIC PURPOSES.
5. RECOMMENDED ELECTRICAL POWER SUPPLY AREA. NOTCH TO SUIT AND CONOVER INSULATE REMAINING OPEN AREA FOR ACOUSTIC PURPOSES.
6. RECOMMENDED CONTROL WORK ENTRY AREA. NOTCH TO SUIT AND CONOVER INSULATE REMAINING OPEN AREA FOR ACOUSTIC PURPOSES.
7. RECOMMENDED COOLER BELLE VALVE VENT LINE AND THEIR CONDENSED BELLE VALVE VENT AREA. DUCT OVERSHIELD AND INSULATE Military SIDE. NOTCH ENCLOSURE TO SUIT PARTICULAR INSTALLATION.
8. MODEL: IN DRAWING IS TYPICAL AND REPRESENTS 3000X144 X 46 SIZES IN 3000X600. DO NOT INCLUDE ACCESS.
9. SOUND ENCLOSURE ACCESSORY SHOULD BE ALIGNED TO THE CENTER LINES OF THE CONTROL PANEL ACCESS AND FITTING OPENINGS.
1. Factory wiring is in accordance with National Electrical Code (NEC). Field modifications or additions must be in compliance with all applicable codes.

2. Wiring for main field supply must be rated 150% minimum use copper for all units.

3. Power for control circuit should be supplied from a separate source (except 380/415V units) through a field supplied disconnect with 5 amp maximum protection for 115 volt control circuits and 15 amp maximum protection for 230 volt control circuit. Connect control circuit power to terminals 1 and 2 on T4. Control circuit conductors for all units must be copper only. Control circuit power is factory wired for 380/415V units.

4. Terminals 13 and 14 of T5 are for field external connection for remote on-off. The contacts must be rated for dry circuit application capable of handling a 24 V AC load up to 30 MA.

5. Terminals 1 to 2 of T6 are for chilled water pump interlock functions. If added, chilled water pump interlock contacts must be wired in series with flow switch contacts. The contacts must be rated for dry circuit application capable of handling a 24 V AC load up to 30 MA. Chilled water flow switch (CWS) is factory installed.

6. Terminals 6 to 12 of T5 are for control of chilled water pump starter. The maximum load allowed for the chilled water pump relay is 75 VA sealed, 360 VA at 115 or 230 volt. Field power supply is not required.

7. Terminals 11 and 12 of T5 are for alarm relay. The maximum load allowed for the alarm relay is 75 VA sealed, 360 VA at 115 or 230 volt. Field power supply is not required.

8. Terminals B & 9 of T2 are for condenser water pump (CWP) only. The maximum load allowed is 75 VA sealed, 360 VA at 115 or 230 volt. Separate field power supply is not required. Liquid line solenoid valves (SLV) only must be connected in parallel with condenser fan contactors as shown.

9. Terminals 5 & 6 of T2 are for condenser fan switch (CFS). Condenser fan switch is factory wired. The contacts must be rated for dry circuit application capable of handling a 24 V AC load up to 30 MA.

10. Make appropriate connections to TOS as shown for energy management board options. The contacts for demand limit and ice block options must be rated for dry circuit application capable of handling a 24 V AC load up to 30 MA.

11. TB8 supplied on 30HX48A 208/230 Y-Delta, 30XXA204-2Y 2Y-Delta and by special order.