

Installation Instructions

ER30-1A/2A/3A TR30-1A Refrigeration Packages

IMPORTANT! INSTALLER PLEASE NOTE.

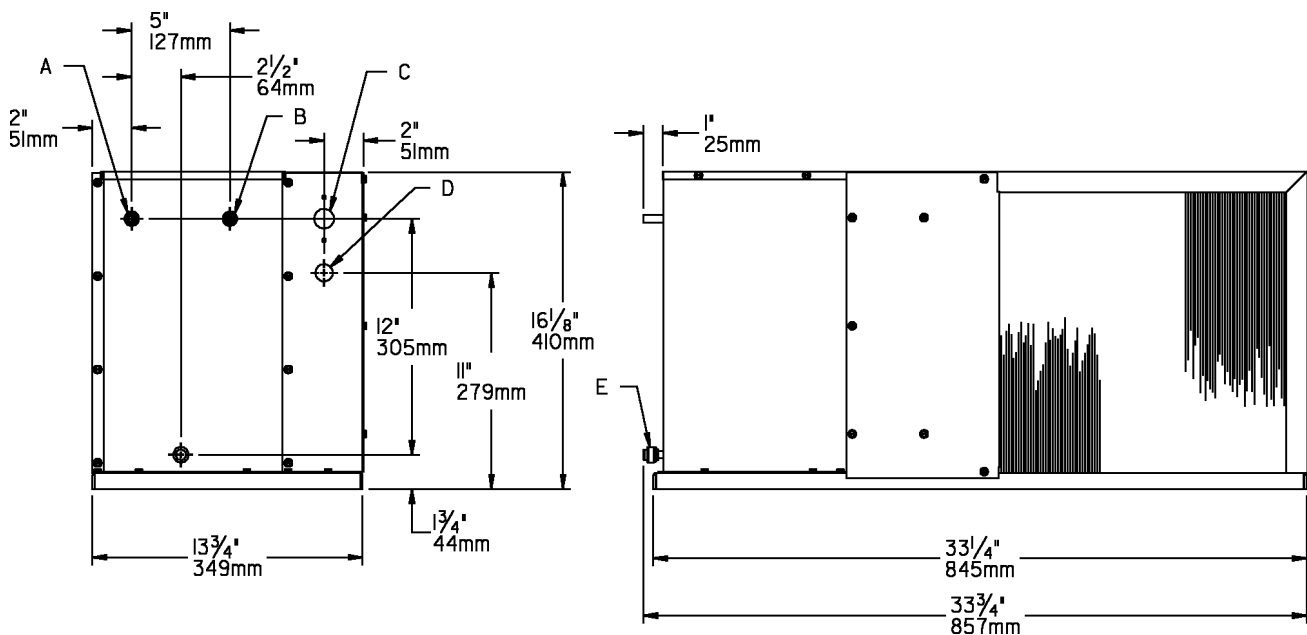
The grounding of electrical equipment such as telephone, computers, etc., to water lines is a common procedure. This grounding may be in the building, or may occur away from the building. This grounding can cause electrical feedback into a water chiller, creating an electrolysis which causes a metallic taste or an increase in the metal content of the water. This condition is avoidable by using the proper materials indicated below. Drain fittings which are provided by the installer should be plastic to electrically isolate the chiller from the building plumbing system.

INSTALLATION

1. This unit is intended for remote installation only. It is important to insure proper ventilation. A minimum of 6 inches (152mm) to the front must be maintained, and 6 inches (152mm) to the rear of the unit.
2. This chiller has been designed for use with potable water and includes an o-ring seal on the drain plug. This fitting should be replaced if the unit is to be used with more aggressive fluids.
3. Installer to provide air gap at condenser water outlet to comply with local plumbing specifications.
4. Connecting lines to be made of copper. Thoroughly flush all lines to remove all foreign matter before connecting to cooler. If flushing does not remove all particles, a water strainer should be installed in the supply line.
5. Connect cooler to building supply with a shut-off valve and install a union connection between the valve and the cooler.
6. Electrical: Make sure power supply is identical in voltage, cycle, and phase to that specified on cooler serial plate. Never wire the compressor directly to the power supply.
7. For use with photo processing applications, adjust thermostat to warmer settings.

START UP

1. Open supply line valve.
2. Purge all air from all water lines by operating bubbler valve of fountain to which cooler is connected. A steady stream assures that all air is removed.
3. Rotate fan blade to assure proper clearance and free action.
4. Connect to proper electrical power.



LEGEND

A = 3/8" O.D. TUBE WATER INLET

C = TEMPERATURE ADJUSTMENT

E = 3/8" O.D. TUBE TANK DRAIN

B = 3/8" O.D. TUBE WATER OUTLET

D = ELECTRICAL

TROUBLE SHOOTING AND MAINTENANCE

| ITEMIZED PARTS LIST | | |
|---------------------|--------------|-------------------------|
| ITEM NO. | PART NO. | DESCRIPTION |
| 1 | 23152C | Box - Insulation |
| 2 | 28070C | Base Assy |
| 3 | 27698C | Panel |
| 4 | 27700C | Panel - Front |
| 5 | 23158C | Cover - Insulation Box |
| 6 | 23159C | Bracket - Conduit |
| 7 | 27702C | Cabinet |
| 8 | 35882C | Control - Cold |
| 9 | 35792C | Fan Motor |
| 10 | 31180C | Fan Blade |
| 11 | 31181C | Fan Bracket |
| 12* | 33484000 | Condenser |
| 13 | 19050000 | Strainer |
| 14 | 30440C | Capacitor |
| *15 | 48000036 | Compressor |
| 16 | 30248C | Overload |
| 17 | 48000070 | Gasket (Terminal Cover) |
| 18 | 48000067 | Overload Spring |
| 19 | 48000069 | Bale Strap |
| 20 | 48000068 | Cover Terminal |
| 21 | 19037000 | Clip |
| 22 | 100806740570 | Grommet |
| 23 | 62277C | Evaporator Assy |
| 24 | 70772C | Drain Plug |
| 25 | 31738002 | Drier |
| 26 | 37268000 | Heat Exchanger |
| 27 | 33075000 | Valve - By Pass |
| 28 | 70020C | Nut |
| 29 | 34783005 | Washer - Lock |
| NS | 27701C | Panel - Rear |

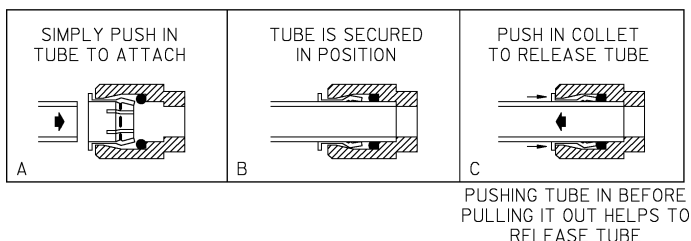
Temperature Control: Factory set for 50°F water (± 5°) under normal conditions. For colder water, adjust screw on item no. 8 clockwise.

Ventilation: Cabinet louvers and condenser fins should be periodically cleaned with a brush, air hose, or vacuum cleaner. Excess dirt or poor ventilation can cause no cold water and compressor cycling on the overload protector.

Lubrication: Motors are lifetime lubricated.

Actuation of Quick Connect Water Fittings: Cooler is provided with lead-free plug which utilizes an o-ring seal. To remove plug from cooler, relieve water pressure, pull the collar towards the fitting and pull the fitting off the tube. To install plug, push fitting straight onto tubing until it reaches a positive stop, approximately 3/4".

OPERATION OF QUICK CONNECT FITTINGS

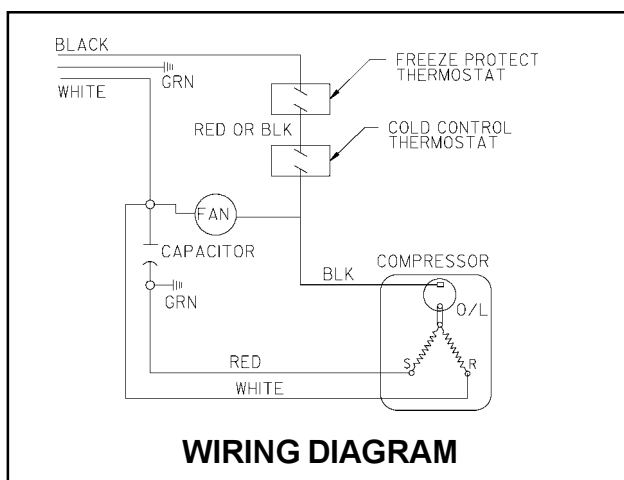


ER30-2A 220V/50Hz

| ITEM NO. | PART NO. | DESCRIPTION |
|----------|----------|-------------|
| 9 | 35793C | Fan Motor |
| 14 | 30441C | Capacitor |
| *15 | 37895000 | Compressor |
| 16 | 40405028 | Overload |

ER30-3A 220V/60Hz

| ITEM NO. | PART NO. | DESCRIPTION |
|----------|----------|-------------|
| 9 | 35793C | Fan Motor |
| 14 | 30441C | Capacitor |
| *15 | 37167000 | Compressor |
| 16 | 40405030 | Overload |



WIRING DIAGRAM

*INCLUDES RELAY & OVERLOAD. IF UNDER WARRANTY, REPLACE WITH SAME COMPRESSOR USED IN ORIGINAL ASSEMBLY.
 NOTE: All correspondence pertaining to any of the above water cooler or orders for repair parts MUST include model number and serial number of cooler, name and part number of replacement part.

