



INSTALLATION INSTRUCTIONS

CONTINUOUS FLOW ICEMAKER SERIES 1400R AND 1400-RACK

Before starting installation, read and understand all safety label and warnings on the machine. Also, review and understand all safety instructions in the owners, installation and service manuals.

Failure to comply could result in serious injury, death or damage to the equipment.

WARNING:

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit. All wiring and plumbing must conform to national and local codes.

Failure to comply could result in serious injury, death or equipment damage.

WARNING:

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work.

Failure to comply could result in serious injury, death or damage to the equipment.

CAUTION:

Always be sure to keep the area around the unit clean and free of clutter.

Failure to keep this area clean may result in injury or equipment damage.

This manual covers unpacking and inspection, selecting location, installing unit, and preparing for operation.

The unit is a split system; it consists of a condensing unit, an IceMaker and a line kit.

- The condensing unit is an outdoor component; it contains the compressor, condenser, receiver and fan motor. It is controlled by a low-pressure switch.
- The IceMaker is an indoor component; it contains two gear motors, two evaporators, two water level controls and two bin thermostats. The bin thermostats control a liquid line solenoid.
- Line Kit: precharged 3/8" liquid line and 3/4" suction line.

NOTE: In a rack refrigeration application, only the ice making head is required (condensing unit and line kit are not used). Ice making head installed on a -23° F (-30.56° C) low state saturation temperature (14 psig saturation pressure for R404A) requires the installation of one EPR valve, set at 20 psig downstream of the common suction line of WCC-1400R and WCC-1400Rack unit. Approved EPR model is ORIT-6-0/50.

REMOVE UNITS CARTON

1. Keep unit in the upright position, remove carton and pallet from unit and inspect for damage.
2. Locate startup card either on outside of container or on plastic liner. Fill in proper information and send one copy to factory, and other copy to distributor. Postage is prepaid.



CABINET REMOVAL

Condensing Unit

- Remove 19 screws and lift upward.

Icemaker

1. **Front Panel** – Remove 4 screws and pull forward.
2. **Top Panel** – Remove 4 screws and lift upward.
3. **Side Panels** – Remove 3 screws and pull forward.
4. **Back Panel** – Should not be removed.

PREPARATION OF INSTALLATION SITE

Condensing Unit

The refrigeration system is air-cooled, it requires airflow, so a well-ventilated area should be chosen. A minimum of 4 feet must be maintained for air intake and exhaust.

Icemaker

The unit can be installed either on an ice storage bin or ice dispenser using proper adapter kits. (Refer to sales literature for information.) The install kit provided with each icemaker and adapter kits will supply everything to locate unit correctly. In all cases the icemaker should be sealed all around the base with an NSF listed sealant. (63804815B)

WATER INLET HOOK UP

1. **Water Inlet** – Fitting is a ¼ SAE male flare located at the rear of the unit. Connect water supply with a ¼ SAE flare nut and ¼" or larger copper or flexible tubing.
2. **Water Pressure** – Unless otherwise specified, the unit is designed to operate on water pressures between 10 P.S.I. and 90 P.S.I. (NOTE: for pressures above 90 P.S.I. a regulator must be installed.)
3. Filter/Conditioners are recommended on supply lines to icemaker.

NOTE: Unit must be installed per local plumbing code BOCA.

DRAIN CONNECTION

Overflow Line – is a 3/8" I.D. flexible tube located at the rear of the icemaker. Extend this line to proper drain.

NOTE: Unit must be installed per local plumbing code BOCA.

ELECTRICAL SUPPLY

1. **Power Access** — is provided with a 7/8" diameter. knockout hole in the rear panel. Route incoming power in conduit, through rear panel to icemaker electrical control box. Make connections to wires provided in the control box and ground lug/screw.
2. **Fused Line** — should be checked and sized according to electrical rating shown on unit nameplate.

AUGER ENGAGEMENT

Be certain that auger is fully engaged to lower drive and extruding head is fully engaged into evaporator.

INITIAL START UP, CHECKS AND ADJUSTMENT INSTRUCTIONS

NOTE: Do not start unit before completing installation steps on the previous page.

Turn on water supply (if unit is water cooled turn water on to condenser also) turn on main power switch (located on top of electrical box), and make the following system checks:

NOTE: If unit will not start be sure water reservoir is full. Low water safety control must be properly adjusted to start and shut down unit. If water level drops below bottom of reservoir, unit must shut down. Adjustment is made by moving magnet up or down.

Water Level — If necessary adjust float by bending float arm up or down as needed, push float assembly down until unit stops running. Release float and unit will restart. Keep water in reservoir at level line while unit is in operation.

Low Water Safety Control — Adjust magnet by bending magnet arm as needed to shut unit down if water level drops below bottom of reservoir.

Bin Control — Place ice around probe, unit should shut down in one minute. Remove ice from around probe, unit should start in two minutes.

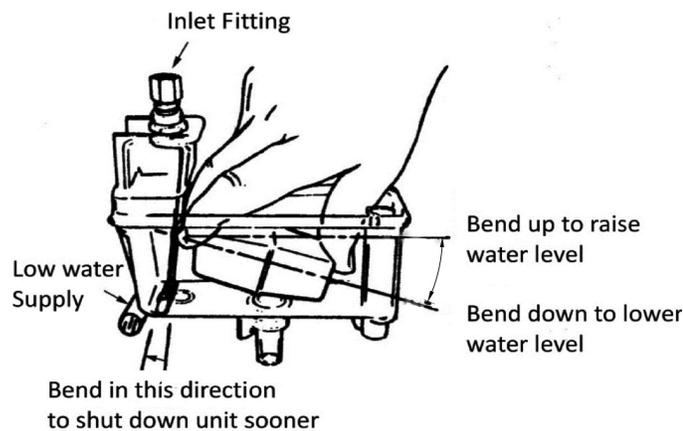


Figure 1. Icemaker Float Assembly

Water modulating valve (water cooled units only) — Opening point of condenser water modulating valve should be set to maintain proper operating pressure in the refrigeration system high side. Closing point of valve should be set low enough to close valve during compressor stand by periods. To raise, turn counterclockwise, to lower turn clockwise.

NOTE: If any of these checks or adjustments cannot be achieved, refer to Service Manual or call for factory assistance at 1-800-238-3600.