

# Instructions

## 3RTE20-EH, 3RTE35-EH, 3RTE50-EH and 3RTE75-EH

### Line Set Instructions

1. Select the end that goes to the ice making head. **See the next two pages!**

---

**Note: Lines are reversible depending upon the connection path to the ice making head. See Ice making head manual.**

---

2. Check line set schrader valves for line set pressure. Lines are shipped with a holding charge of R-404A. If no pressure, check for leak. If leak is found, repair using nitrogen purge, and evacuate.

3. Route lines in two sets: liquid and discharge and then suction.

---

**Note: Handle the suction line with great care and allow large radius bends.**

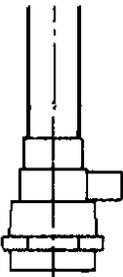
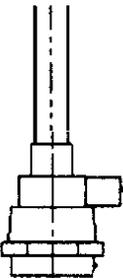
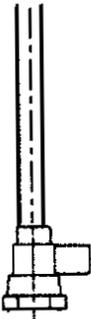
---

4. Follow quick connect coupling instructions on back page.

# When Using EH222 Ice Making Head

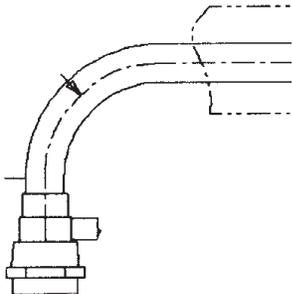
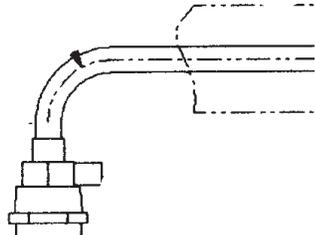
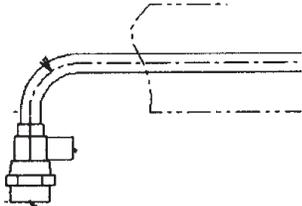
## Routing UP?

Straight line set ends go to ice machine if routing up from the top panel of the ice machine. Other end goes to condensing unit.



## Routing Back?

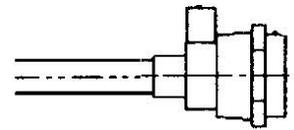
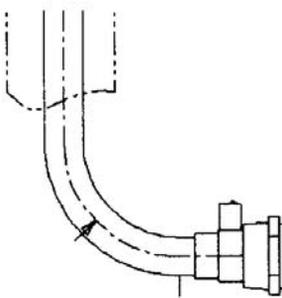
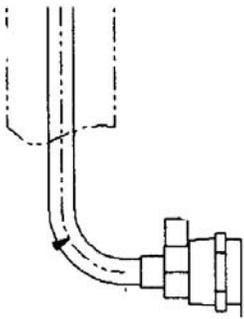
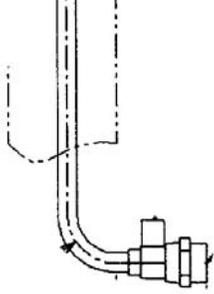
90° el line set ends go to ice machine if routing back from the top panel of the ice machine. Other end goes to condensing unit.



# When Using EH130, EH330, or EH430 Ice Making Head

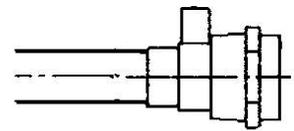
## Routing UP?

90° el line set ends go to ice machine if routing up from the top panel of the ice machine. Other end goes to condensing unit.



## Routing Back?

Straight set ends go to ice machine if routing back from the top panel of the ice machine. Other end goes to condensing unit.



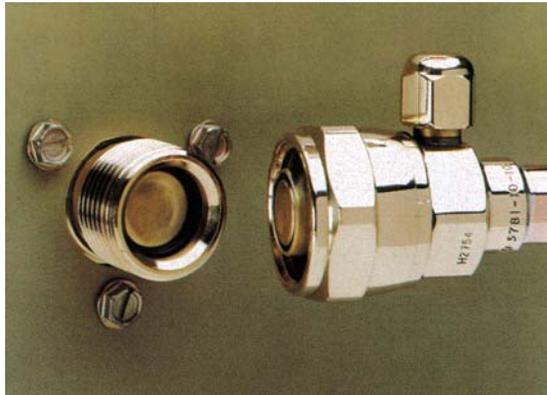
## Coupling Connections:

The couplings on the ends of the pre-charged line sets are self-sealing when installed properly.

Follow these instructions carefully. These steps must be performed by an EPA Certified Type II or higher technician.

### Initial Connections

1. Remove the protector caps and plugs. Wipe the seats and threaded surfaces with a clean cloth to remove any possible foreign matter.



### **Clean and Lubricate Couplings**

2. Thoroughly lubricate the threads, o-rings, diaphragms and all internal coupling surfaces with polyolester refrigerant oil.

3. Position the fittings on the correct connections on the condenser and ice machine.

### Final Connections:

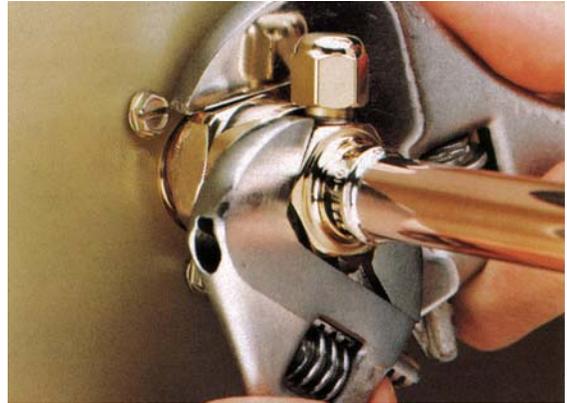
4a. Begin to tighten the couplings together by hand. Continue to turn the swivel nuts by hand until it is certain that the threads are properly engaged.

4b. Using two wrenches, one to rotate the swivel nut and one to hold the tubing in place, tighten each coupling.

It is **CRITICAL** that **ONLY** the NUT on the pre-charged tube be turned, or the diaphragms will be torn by the piercing knives and become loose in the refrigeration system causing severe operational problems.

Note: As the coupling is tightened, the diaphragms in the quick connect couplings will begin to be pierced. As that happens, there will be increased resistance to tightening the swivel nut.

4c. Continue tightening the swivel nut until it bottoms out or a very definite increase in resistance is felt (no threads should be showing). Do NOT overtighten.



### **Tighten Swivel Nut**

5. Use a marker or pen to mark a line on the coupling nut and unit panel. Then tighten the



### **Rotate Swivel Nut ¼ Turn More**

coupling nut an additional one-quarter turn. The line will show the amount that the nut turns.

6. After all connections have been made, check the couplings for leaks.

7. Add cork tape to the swivel nut of the suction line to insulate it. **Be sure all exposed tubing of the suction line is insulated.**