

Model Specific Instructions

NOTE: Read the entire instruction manual before starting the installation. Refer to Split-System Heat Pump Common Installation and Start-Up Practices (included in this packet).

SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause death, personal injury, or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Use quenching cloth for brazing operations. Have fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes and National Electrical Code (NEC) for special requirements.

Recognize safety information. This is the safety-alert symbol \triangle . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal word DANGER, WARNING, or CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in personal injury or death. CAUTION is used to identify unsafe practices which **would** result in minor personal injury or product and property damage.

A WARNING

Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position. There may be more than 1 disconnect switch. Lock out and tag switch with a suitable warning label. Electrical shock can cause personal injury or death.

INSTALLATION

Step 1—Mount Unit to Pad

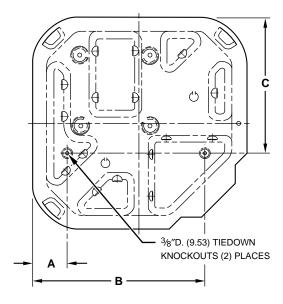
Refer to Fig. 1 for pad dimensions and dimensions needed to mount unit to pad.

Step 2—Refrigerant Tubing

Refer to Fig. 2 for refrigerant tube dimensions and connections.

Step 3—Mechanical Connection (38YCP Model)

- 1. Remove plastic retainer holding outdoor piston and piston retainer in the liquid service valve. Connect and tighten the liquid service valve adapter to the valve body prior to assembling ferrule/lock nut. (See Fig. 3.)
- Cut tubing to the correct length, deburr and size as necessary, making sure tube ends are square. If a large burr is evident, the ID and OD must be deburred to allow the tube to bottom in valve.



A94199

UNIT SIZE	MIN. PAD DIM. (IN.)	TIEDOWN KNOCKOUT LOCATIONS		
ONIT SIZE		A (In.)	B (ln.)	C (ln.)
38YCB(P)018-030 38AYB018 38BYB018	22-1/2 X 22-1/2	3-11/16	18-1/8	14-3/8
38YCB(P)036-060 38AYB024-060 38BYB024-060	30 X 30	6-1/2	23-1/2	20

Fig. 1-Mount Unit to Pad

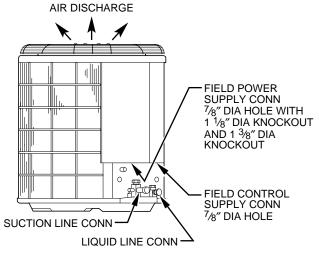
 Remove lock nut and ferrule from plastic bag taped to service panel. (See Fig. 4.) Remove the lock nut and ferrule from liquid service valve adapter. (See Fig. 3.)

A CAUTION

If undersized, damaged, or elliptically shaped tubing is used when making connection, leaks could result.

- 4. Slide the lock nut and ferrule onto each tube. (See Fig. 5.)
- Apply a few drops of refrigerant oil to the ferrule and valve threads and adapter threads to reduce assembly torque and assist sealing.
- Insert tube end into the service valve or adapter until it bottoms.
- 7. Push the ferrule into place and hand tighten the nut until an increase in torque is felt.
- 8. Mark the nut and tube and tighten 1-1/2 turns from the mark. (See Fig. 6.) Keep the tube bottomed in the valve and adapter while tightening nut.

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

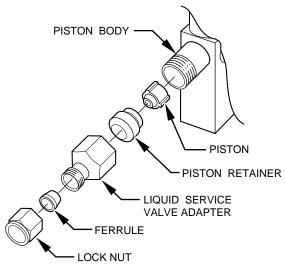


A93578

UNIT SIZE	LIQUID TUBE		VAPOR TUBE		
	Conn Dia	Tube Dia	Conn Dia	Tube Dia	
018, 024	3/8	3/8	5/8	5/8	
030, 036	3/8	3/8	3/4	3/4	
042, 048	3/8	3/8	7/8	7/8	
060	3/8	3/8	7/8	1-1/8	

Tube diameters are for lengths up to 50 ft. For tubing lengths greater than 50 ft, consult your local distributor.

Fig. 2—Refrigerant Tube Dimensions/Connections



A94030

Fig. 3—Liquid Service Valve Mechanical Fitting Assembly (38YCP Model)

NOTE: A backup wrench on the hex part of the suction valve fitting is required while tightening.

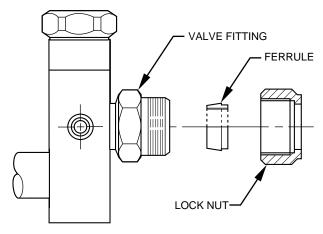
A CAUTION

The tube end must stay bottomed in the service valve during final assembly to ensure proper seating, sealing, and rigidity.

MECHANICAL FITTING REPAIR

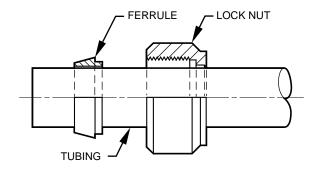
To replace damaged ferrule or tubing, proceed as follows.

- 1. Attach gages to service valves.
- Close liquid service valve and operate unit in cooling mode to pump refrigerant charge into condenser coil.
- 3. When suction pressure reaches 5 psig, shut unit off. Do not operate unit in a vacuum.



A92120

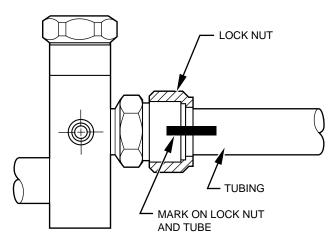
Fig. 4—Suction Service Valve with Mechanical Adapter (38YCP Model)



A92121

Fig. 5—Lock Nut/Ferrule Positioning

- 4. Close suction service valve and recover refrigerant in tubing.
- 5. Back-off locknut and ferrule onto tube.
- 6. Remove damaged part of tubing using tubing cutter. Repeat installation procedure previously outlined using new ferrule.
- 7. Evacuate tubing set and indoor coil. Check for leaks.
- Open service valves or recharge unit. Check refrigerant charge.



A92122

Fig. 6—Proper Marking of Valve Assembly

NOTE: A thermostatic expansion valve (TXV) is required on all 38BYB units. Step 4 refers to the installation of the TXV.

Step 4—Remove Indoor AccuRater® Piston and Install TXV

A CAUTION

For proper unit operation and reliability, units must be installed with a field-supplied hard shut-off TXV. Do not install with evaporator coils having capillary tube metering devices or piston.

After removing existing AccuRater from indoor coil, install field-supplied bi-flow hard shut-off TXV kit. (See Fig. 7 and 8.)

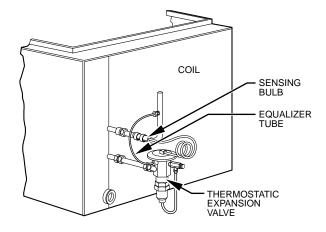
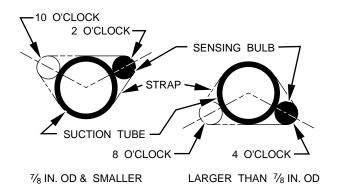


Fig. 7—Typical TXV Installation

A88382



A81032

Fig. 8—Positioning of Sensing Bulb

For TXV kit part number and charging instruction, refer to TXV label in your unit. If the indoor unit (fan coil) comes factory equipped with a bi-flow hard shut-off TXV, no TXV change is required.

Install TXV kit to indoor coil as follows:

- 1. Install suction tube adapter.
- 2. Install liquid flare-to-sweat adapter.
- Connect external equalizer tube to fitting on suction tube adapter.
- Position sensing bulb on horizontal portion of suction tube adapter. Secure using supplied hardware.
- 5. Insulate bulb after installation. (See Fig. 8.)
- 6. Leak check all connections.

SERVICE TRAINING

Packaged Service Training programs are an excellent way to increase your knowledge of the equipment discussed in this manual, including:

- Unit Familiarization
- Maintenance
- Installation Overview
- Operating Sequence

A large selection of product, theory, and skills programs is available, using popular video-based formats and materials. All include video and/or slides, plus companion book.

Classroom Service Training plus "hands-on" the products in our labs can mean increased confidence that really pays dividends in faster troubleshooting, fewer callbacks. Course descriptions and schedules are in our catalog.

CALL FOR FREE CATALOG 1-800-962-9212

[] Packaged Service Training [] Classroom Service Training

A94328

Copyright 1996 CARRIER Corp. • 7310 W. Morris St. • Indianapolis, IN 46231

38vcb2si

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com