

# Model Specific Instructions

Split-System  
Air Conditioner

AA1C, AB1C  
AC1C

**NOTE:** Read the entire instruction manual before starting the installation. Refer to Split-System Air Conditioner 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 . 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.

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 **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.

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## INSTALLATION

### PROCEDURE 1—MOUNT UNIT TO PAD

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

### PROCEDURE 2—REFRIGERANT TUBING

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

### PROCEDURE 3—INSTALL SOLENOID VALVE IN LIQUID TUBE (IF REQUIRED)

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 **CAUTION:** Not all applications require use of a liquid tube solenoid valve. If your unit has been shipped with a liquid tube solenoid valve in the unit, it must be installed for performance enhancement. The liquid tube solenoid valve must be energized during evacuation for complete removal of refrigerant.

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Before making liquid tube connections, install factory-supplied solenoid valve on indoor liquid fitting. (See Fig. 3.) Be sure to use flare adapter supplied with the indoor coil when making connections.

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 **CAUTION:** Wiring must comply with local codes and NEC requirements, if a field-supplied control power source is needed when adding solenoid.

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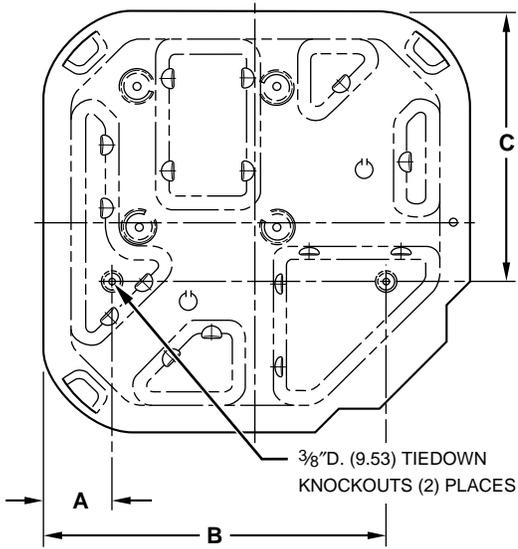
1. Remove coil liquid connection cap and discard.
2. Mount solenoid valve on liquid tube, making sure valve flow arrow points toward indoor coil. Mount valve in any position except valve body at top and electric coil at bottom. (See Fig. 3.) The solenoid valve is to be installed a maximum of 2 ft from indoor coil.

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 **CAUTION:** Avoid valve damage while brazing by wrapping valve with a heat-sinking material such as a wet cloth.

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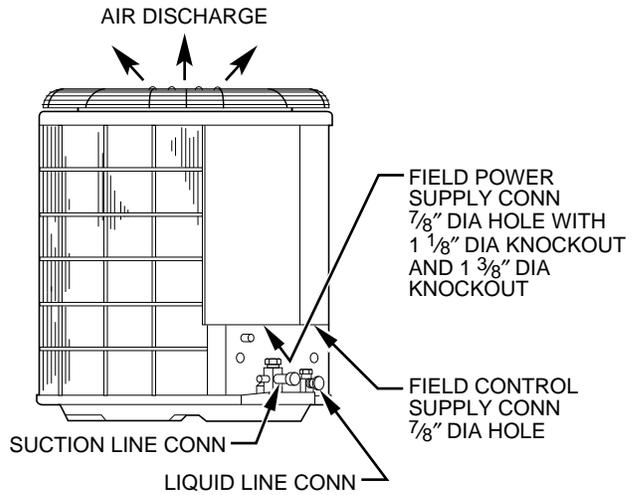
3. Braze valve onto end of liquid tube using silver bearing or non-silver bearing brazing material. Consult local code requirements.
4. Braze flare adapter onto outlet end of solenoid valve.
5. Wire solenoid coil into system control circuit.



A94199

UNIT SIZE	MIN. PAD DIM. (IN.)	TIEDOWN KNOCKOUT LOCATIONS		
		A (In.)	B (In.)	C (In.)
AA1C018, 024	18 X 18	3	15	10-3/16
AA1C030-042 AB1C018-030	22-1/2 X 22-1/2	3-11/16	18-1/8	14-3/8
AA1C048, 060 AB1C036-060 AC1C024-060	30 X 30	6-1/2	23-1/2	20

Fig. 1—Mount Unit to Pad

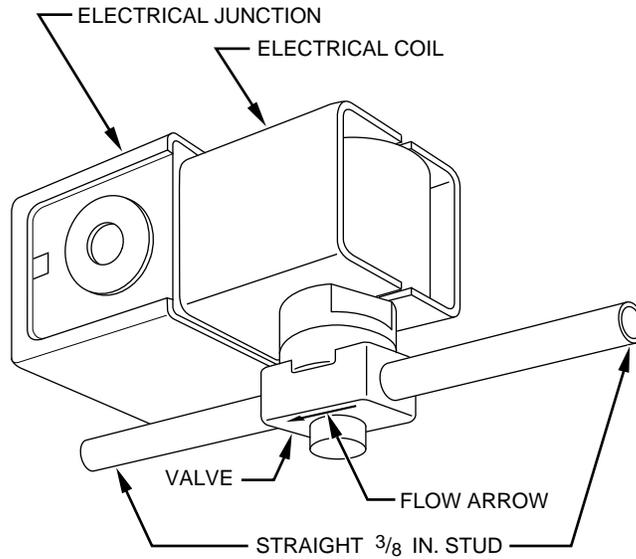


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UNIT SIZE	LIQUID TUBE		VAPOR TUBE	
	Conn Dia	Tube Dia	Conn Dia	Tube Dia
018, 024	3/8	3/8	5/8	5/8
030, 036	3/8	3/8	3/4	3/4
042, 048	3/8	3/8	7/8	7/8
060	3/8	3/8	7/8	1-1/8

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



NOTE: System flow direction must match arrow on bottom of body.

Fig. 3—Solenoid Valve Installation

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