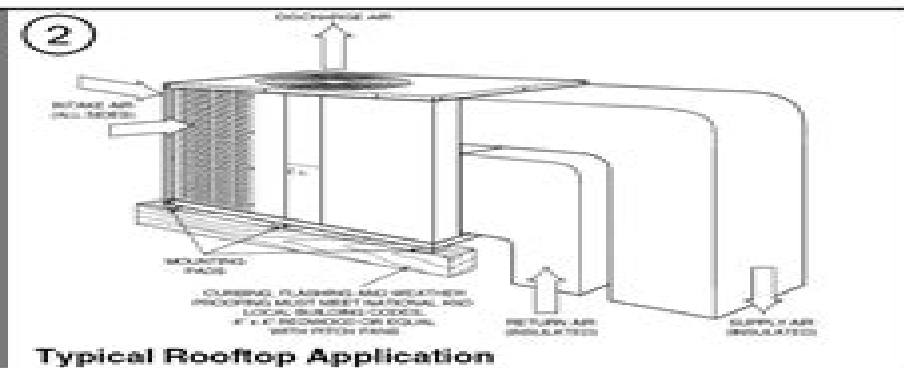


Roof Top

For roof top installations, the roof must have sufficient structural strength to support the load. FHA approved construction and local codes are normally adequate provided the roof joists and rafters have a proportionally distributed load. See Figure 2.

The unit should be positioned for recommended clearances as previously outlined under "Location and Recommendations"



Typical Rooftop Application

If duct hood or supply and return ducts are fabricated by the installing contractor, be sure that the portion of the supply and return ducts located outdoors is as short as possible. The supply duct, return duct, and connectors should be insulated with 2 inches of insulation and weatherproofed. Be sure the openings in the structure for the supply and return ducts are large enough to include the insulation.

Use turning vanes inside the supply and return ducts when using a square elbow take-off from the unit.

Vibration isolators are recommended to prevent transmission of vibration to the structure. Isolate with at least four (4) vibration isolators or equivalent. The isolators must provide a minimum clearance of 1/4" beneath the unit to permit air to circulate under the unit's base.

After the unit has been properly positioned, complete the installation according to the instructions in the following sections of this manual. Then follow the Start-Up procedure on page 6 and the Checkout procedure on page 10 of this manual.

Ground Level - Outdoor

For ground level installations, position the unit on a pad at least two (2) inches larger than the unit on all sides. The unit must be level on the pad. The pad must not contact the structure. Be sure the outdoor portion of the supply and return air ducts are as short as possible.

The installation should proceed as follows:

The unit must be isolated with mounting pads. The mounting pads must provide a minimum of 1/4" clearance beneath the unit to permit air circulation and prevent corrosion of the base. See Figure 3.



Typical Ground Level Application

Attach the supply and return air ducts to the unit. The portion of the supply and return ducts located outdoors must be as short as possible.

Insulate any ductwork outside the structure with at least 2 inches of insulation and weatherproofing. Be sure the openings in the structure are large enough to include ducts and insulation.

Complete the installation according to the instructions in the following sections of this manual.

— Condensate Drain Piping —

A 3/4-inch female NPT condensate drain connection is provided on the evaporator end of the unit. See Figure 1. Provide a trap and fill it with water before starting the unit to prevent air from being drawn through. Follow local codes and standard piping practices when running the drain line. Pitch the line downward away from the unit. Avoid long horizontal runs. See Figure 4.

NOTE: Do not use reducing fittings in the drain line.

The condensate drain must be:

- Made of 3/4" pipe.
- Pitched 1/4" per foot to provide free drainage to a convenient drain system.
- Trapped
- Not connected to a closed drain system.

4

3/4" PVC OR COPPER TUBING AND FITTINGS

QTY.	MATERIALS
1	TEE
3	90° ELL
1	PLUG
1	4" NIPPLE
2	2" NIPPLE
1	3/4" NPT TO PVC OR COPPER ADAPTER

FROM DWG. 21C128155 FIG. 1, R1

Trane Ycd Voyager Manual

Mark Steyvers



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