Technical Publications
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SOLAR-READY KIT

INSTALLATION GUIDELINES FOR SOLAR-READY ROOFTOP UNITS

Shipping and Packing List

This instruction is shipped in the literature packet provided in the compressor section of solar-ready units.

Application

This instruction provides guidelines when installing specified solar equipment. In installations where site supply voltage is 230VAC 3-phase or 460VAC 3-phase, install the appropriate, field-provided, step-up transformer.

⚠CAUTION

Danger of sharp metallic edges. Can cause injury. Take care when servicing unit to avoid accidental contact with sharp edges.

⚠WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier

Installation Guidelines

Solar-ready units are equipped with an S48 disconnect and F54 fuse block. In applications with more than 24 solar modules (15-ton units and higher), units are equipped with an F56 fuse block. The following are installation guidelines.

Note - Solar-ready units are also equipped with an F4 fuse. F4 is wired in the factory and does not require field wiring.

- When building supply voltage is either 230VAC delta or 460VAC three-phase, install a step-up transformer.
- Transformer can be installed on a Unistrut system or other field-provided framework.
- Do not install components in a location that will prevent the opening of access panels.
- In horizontal applications, install conduit and components below bottom of unit to allow opening of access panels. A transition may be required to fit transformer between the unit and roof.
- When a step-up transformer and transition are installed, make sure the transformer is secured upright. Use a support at the bottom of the transformer as shown in figure 1.
- In horizontal applications, components cannot be installed over the supply and return air ducts. Components must be installed on the front or sides of the unit.

Use component and wire routing guidelines as shown in table 1.

TABLE 1

Unit	Airflow	Transition	Figure*
5 - Ton	Horizontal	Yes	2
7-1/2 - Ton	Horizontal	Yes	3
15 - Ton	Downflow	No	4

*Step-up transformers are shown in all figures.

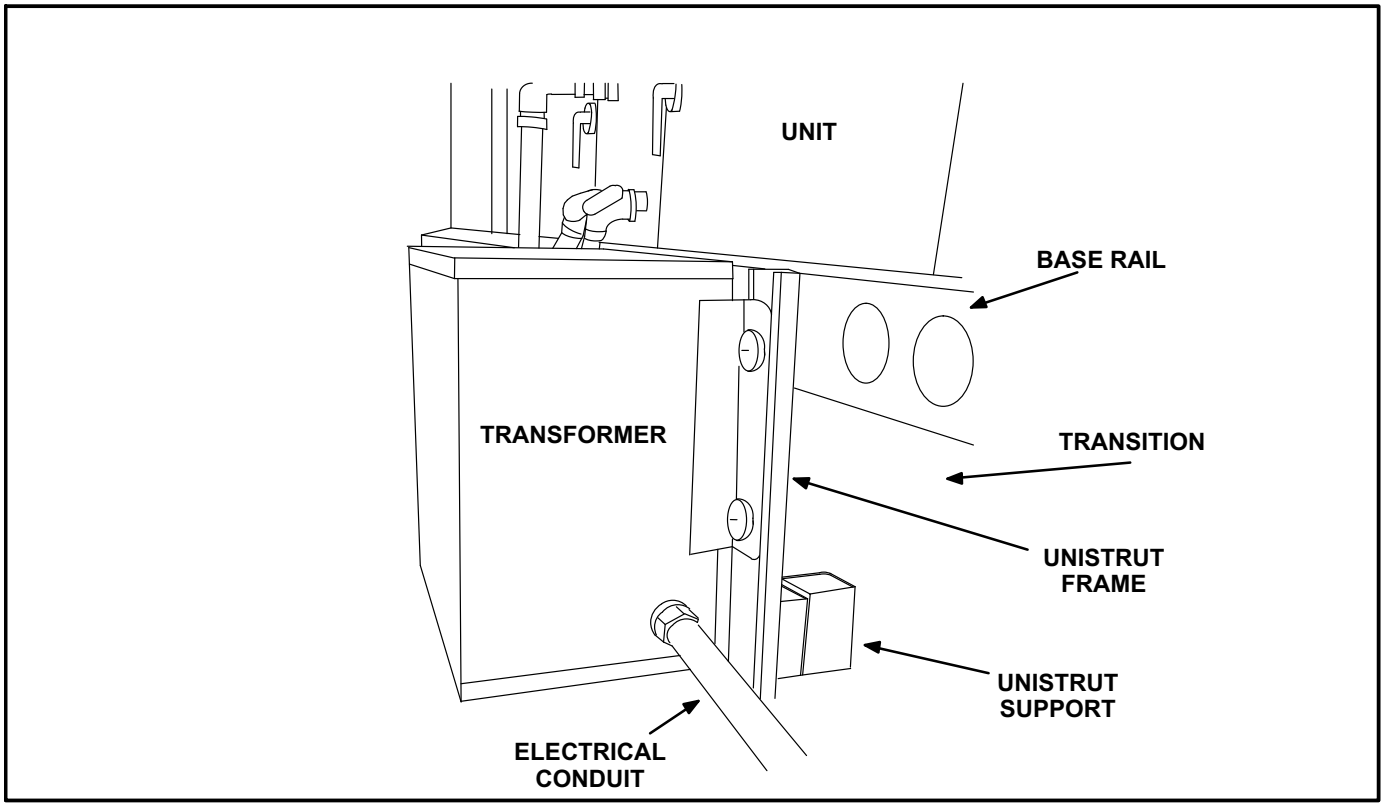

FIGURE 1

INSTALLATION GUIDLELINE
(TRANFORMER INSTALLED ON THE FRONT OF A 5-TON HORIZONTAL AIRFLOW UNIT EQUIPPED WITH A TRANSITION)

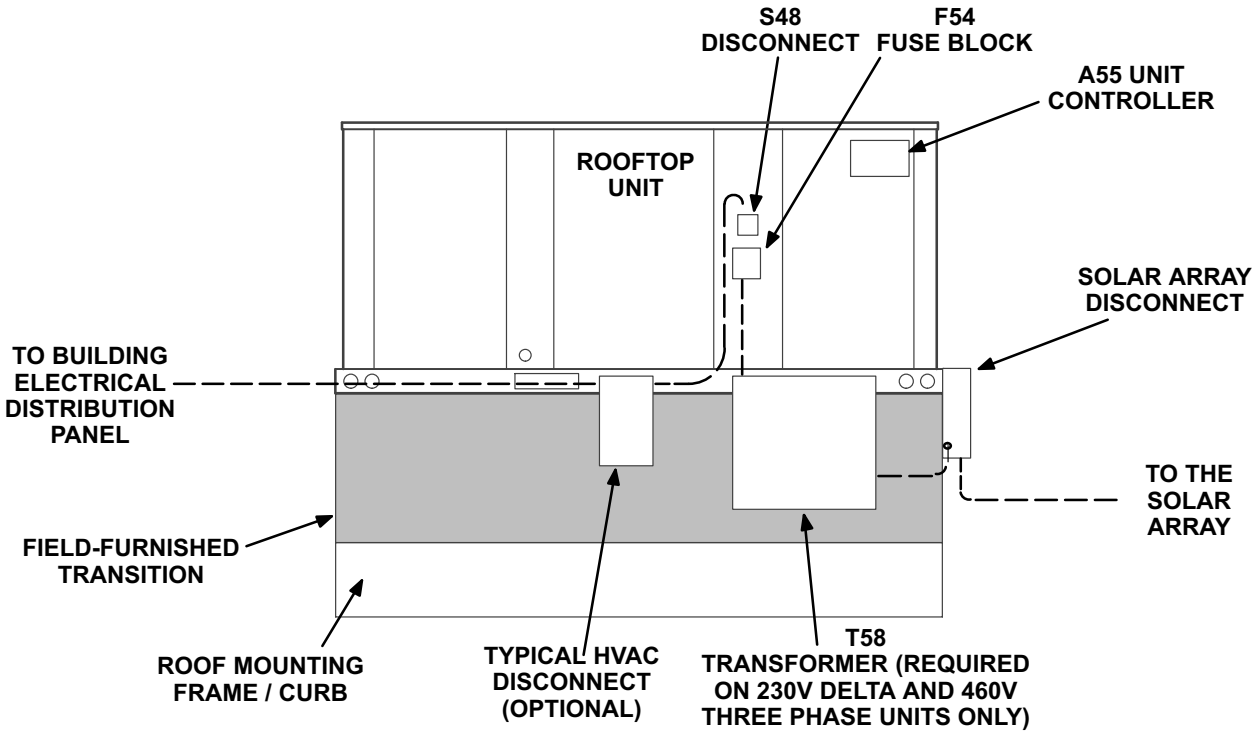

FIGURE 2

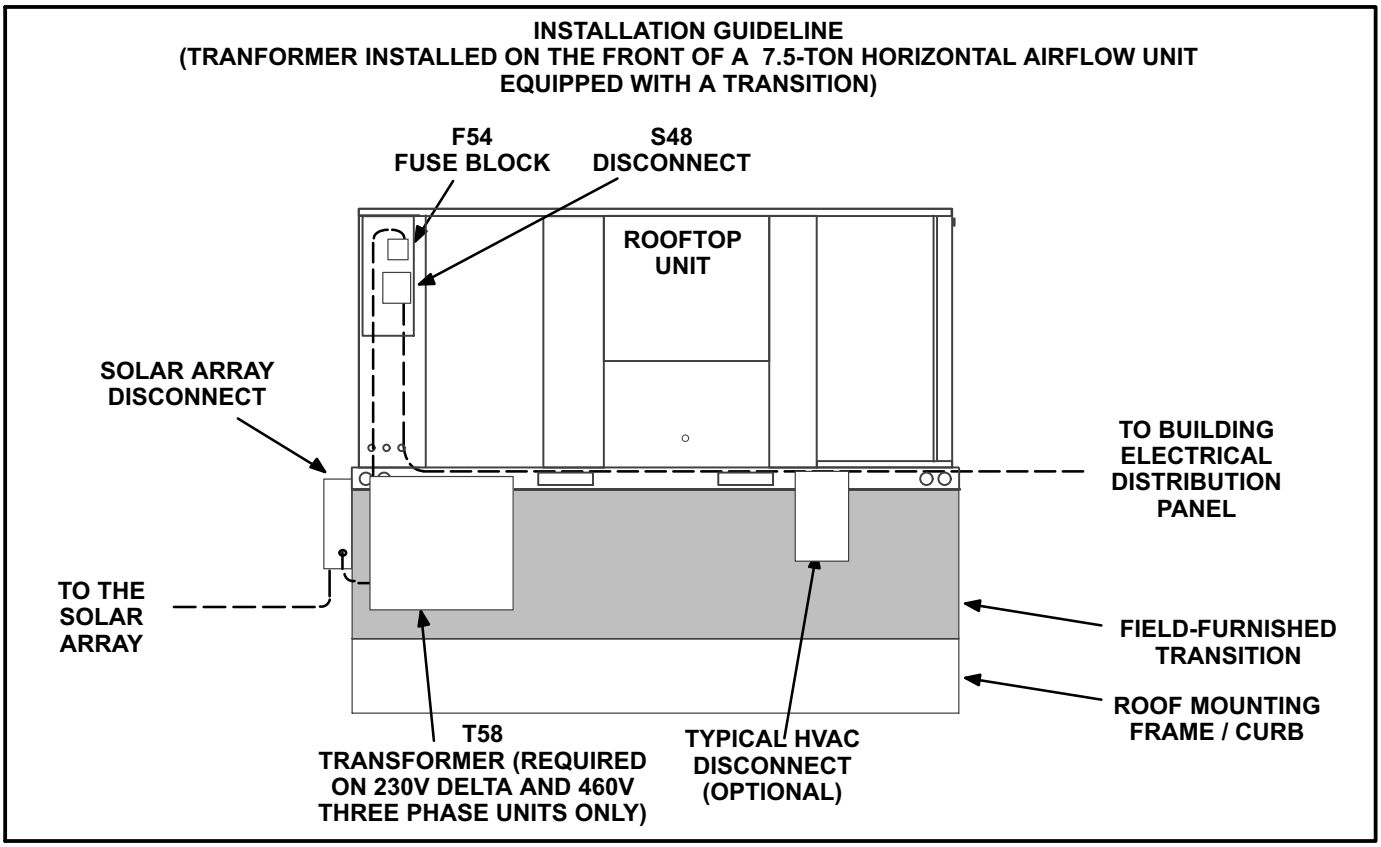
INSTALLATION GUIDELINE
(TRANFORMER INSTALLED ON THE FRONT OF A 7.5-TON HORIZONTAL AIRFLOW UNIT EQUIPPED WITH A TRANSITION)
F54
FUSE BLOCK
S48
DISCONNECT
ROOFTOP
UNIT
SOLAR ARRAY
DISCONNECT
TO BUILDING
ELECTRICAL
DISTRIBUTION
PANEL
TO THE
SOLAR
ARRAY
FIELD-FURNISHED
TRANSITION
ROOF MOUNTING
FRAME / CURB
T58
TRANSFORMER (REQUIRED
ON 230V DELTA AND 460V
THREE PHASE UNITS ONLY)
TYPICAL HVAC
DISCONNECT
(OPTIONAL)

FIGURE 3

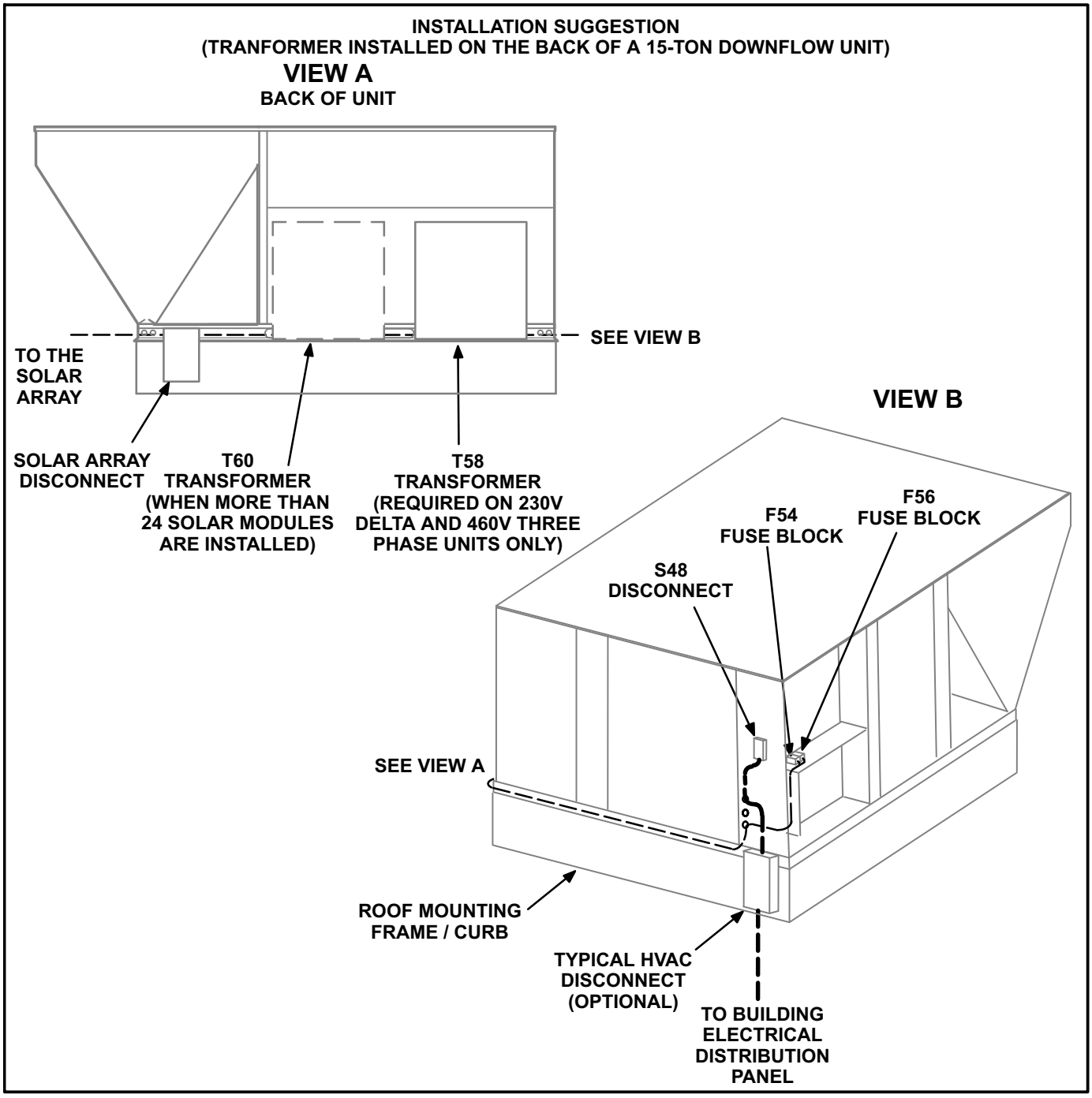
INSTALLATION SUGGESTION
(TRANFORMER INSTALLED ON THE BACK OF A 15-TON DOWNFLOW UNIT)
VIEW A
BACK OF UNIT
SEE VIEW B
TO THE SOLAR ARRAY
SOLAR ARRAY DISCONNECT
T60 TRANSFORMER (WHEN MORE THAN 24 SOLAR MODULES ARE INSTALLED)
T58 TRANSFORMER (REQUIRED ON 230V DELTA AND 460V THREE PHASE UNITS ONLY)
VIEW B
F54 FUSE BLOCK
F56 FUSE BLOCK
S48 DISCONNECT
SEE VIEW A
ROOF MOUNTING FRAME / CURB
TYPICAL HVAC DISCONNECT (OPTIONAL)
TO BUILDING ELECTRICAL DISTRIBUTION PANEL

FIGURE 4