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**Level** *How TXV*

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Refrigerant Piping

Requirements notes

The second

requirement of the

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design is to ensure that only liquid refrigerant enters the expansion device.

There are several types of expansion devices, including expansion valves (thermostatic or electronic), capillary tubes, and orifices.

One of the

*Page 11/39*

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## Fundamental Series - Trane - Accueil

The Windows®based piping program, Publication 32-3312-03 (or latest version) covers Trane and American Standard Heating and Air Conditioning split systems ranging from 1.0 to 20 ton in nominal capacity.

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## Application Guide - Refrigerant Piping Manual for Small ...

### 2.2 Refrigerant Piping Limits Table 2.1

When mounting the outdoor unit on a roof, be sure the roof will support the unit's weight. ... Trane outdoor condensing units are factory

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charged with the  
system charge  
required for the  
outdoor condensing  
unit, fifteen (15) feet  
of tested connecting  
line, and the smallest  
indoor evaporative  
coil match. ...

Installer's Guide  
Condensing Units -  
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of Trane, a business  
of Ingersoll-Rand.

Preface This manual  
examines chilled-  
water-system  
components,  
configurations,  
options, and control  
strategies. The goal is  
to provide system  
designers with options  
they can use to satisfy  
the building owners'  
desires, but this

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Air Conditioning

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22-5200-02-0203  
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## Trane User Manuals

A refrigerant tube size that doesn't cause excessive pressure drops which reduce compressor efficiency and capacity. Some of the piping techniques discussed in this newsletter wouldn't have been considered

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good practice in the past, but they work best and most reliably for modern commercial Trane equipment with scroll compressors.

As Equipment  
Evolves, So Must  
Piping Practices -  
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MaintenanceLibrary

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Product Model

Literature Type

Sequence Date File

No. Supersedes. CG-

SVX02B-EN. Service

Literature

Refrigeration

Hermetic Scroll Liquid

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CG-SVX02B-EN 105  
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Traditionally,  
refrigerant piping  
practices were guided  
by four principles: †

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Return the oil to the  
compressor. †  
Maintain a column of  
liquid at the  
expansion valve.

## Application Guide - Tube Size and Component Selection

...

Long Line  
Applications  
Guideline,  
Single?Stage and

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Two-Stage R-410A  
421 06 5100 04

Specifications subject  
to change without  
notice 3 C.

Introduction An  
application is  
considered Long Line,  
when the refrigerant  
level in the system  
requires the use of  
accessories to  
maintain

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## Piping Manual

### Applications Guideline

### R 410A Split Systems

Warnings and

Cautions appear at  
appropriate sections  
throughout this

manual. Read these  
carefully . APP-

APG011-EN Page 3

02/08/2010 I. Basic

practices for HVAC

systems ... Refer to

the current refrigerant

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Piping Manual: 1)  
SS-APG006-EN for  
1.5 through 5.0 ton  
split systems. ... for re-  
use with Trane HVAC  
split systems. The coil  
may trap ...

Trane Application  
Guide Retrofit  
Guidelines -  
Replacing ...  
Traditionally,  
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Practices were guided by four principles: †  
Return the oil to the compressor. †  
Maintain a column of liquid at the expansion valve.

SS-APG007-EN  
(10/11): Application  
Guide - Tube Size  
and ...  
with ARI Standard  
270 or 370. (6) Refer  
*Page 32/39*



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Piping Manual  
to refrigerant piping applications manual for line sizing and line length. (7) Refrigerant (operating) charge is for condensing unit (all circuits) with matching blower coils and 25 ft. of interconnecting refrigerant lines. All units are supplied with a small nitrogen holding charge only.

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TWE+TTA

TWE+TWA

- Use R-410A refrigerant gas as a tracer for leak detection and use oil-pumped dry nitrogen to develop required test pressures. 1. Close liquid line angle valve. 2. Connect R-410A refrigerant cylinder to high side

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charging port (at condenser or field supplied discharge line access port). Add refrigerant to reach pressure of 12 to 15 psig. 3.

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## Refrigeration Manual

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