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F.Y.I.

TEMPERATURE CONTROLLERS... PORTABLE CHILLERS... CENTRAL CHILLERS... PUMP/TANK STATIONS... TOWER SYSTEMS...

SUBJECT: R410A DISCHARGE & CONDENSER LIQUID REFRIGERANT
LINE SIZING GUIDE

FYI #334 05/03/2021

R410A REFRIGERANT PIPING GUIDE

System Capacity BTU/hr	System Capacity Tons/HP	DISCHARGE LINE SIZE COMPRESSOR TO CONDENSER 15" (5 PSI) pressure drop maximum					LIQUID CONDENSATE LINE CONDENSER TO RECEIVER Condensate drain / vent				
		Equivalent Line Lengths (feet)					Equivalent Line Lengths (feet)				
		25	50	75	100	150	25	50	75	100	150
18000	1.50	1/2	1/2	1/2	5/8	5/8	1/2	1/2	1/2	1/2	1/2
24000	2.00	1/2	5/8	5/8	5/8	5/8	1/2	1/2	1/2	5/8	5/8
30000	2.50	1/2	5/8	5/8	5/8	5/8	1/2	1/2	5/8	5/8	5/8
36000	3.00	5/8	5/8	5/8	3/4	3/4	1/2	1/2	5/8	5/8	5/8
42000	3.50	5/8	5/8	3/4	3/4	3/4	1/2	5/8	5/8	5/8	5/8
48000	4.00	5/8	3/4	3/4	3/4	7/8	5/8	5/8	5/8	5/8	3/4
60000	5.00	3/4	3/4	7/8	7/8	7/8	5/8	5/8	5/8	3/4	3/4
90000	7.50	3/4	7/8	7/8	1 1/8	1 1/8	5/8	3/4	3/4	3/4	7/8
120000	10.00	7/8	1 1/8	1 1/8	1 1/8	1 1/8	5/8	3/4	3/4	7/8	7/8
150000	12.50	7/8	1 1/8	1 1/8	1 1/8	1 3/8	3/4	3/4	7/8	7/8	1 1/8
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240000	20.00	1 1/8	1 3/8	1 3/8	1 3/8	1 5/8	7/8	7/8	1 1/8	1 1/8	1 3/8
300000	25.00	1 1/8	1 3/8	1 3/8	1 5/8	1 5/8	7/8	1 1/8	1 1/8	1 3/8	1 3/8
360000	30.00	1 3/8	1 3/8	1 5/8	1 5/8	1 5/8	7/8	1 1/8	1 3/8	1 3/8	1 3/8
420000	35.00	1 3/8	1 5/8	1 5/8	1 5/8	2 1/8	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8
480000	40.00	1 3/8	1 5/8	1 5/8	2 1/8	2 1/8	1 1/8	1 3/8	1 3/8	1 3/8	1 5/8
540000	45.00	1 3/8	1 5/8	1 5/8	2 1/8	2 1/8	1 1/8	1 3/8	1 3/8	1 3/8	1 5/8
600000	50.00	1 5/8	1 5/8	2 1/8	2 1/8	2 1/8	1 3/8	1 3/8	1 3/8	1 5/8	1 5/8

- Refer to DuPont Refrigerant Expert, Version 2.0 for actual velocities and pressure drops.
- Equivalent length is actual length plus friction losses caused by fittings and accessories.
- Line sizes are expressed in outside diameter of type "L" copper tubing.
- Line sizes are calculated at rated full load system capacity.
- All selections are based on a maximum of 55°F return gas entering the compressor and refrigerant condensing and liquid line temperature of 125°F.
- Information provided for reference only. Consult your local expert for specific system recommendations.
- Information provided by DuPont.



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Trane R410 Piping Guide

Trane Company



Trane R410 Piping Guide:

Polk's Indianapolis (Marion County, Ind.) City Directory ,1949 *Hill's Greensboro (Guilford County, N.C.) City Directory, Including Guilford College* ,1945 *Trane Air Conditioning Manual* ,1965 **Refrigerant Piping** Trane Company,2002 **Trane Air Conditioning Manual Rev. Ed** ,1965 Refrigeration System Piping Trane Company,1978
Trane Air Conditioning, Cooling, Ventilating, Heating, Drying Trane Company,1934 **03103 Basic Copper and Plastic Piping Practices** NCCER,2018-10

The book delves into Trane R410 Piping Guide. Trane R410 Piping Guide is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Trane R410 Piping Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Trane R410 Piping Guide
- Chapter 2: Essential Elements of Trane R410 Piping Guide
- Chapter 3: Trane R410 Piping Guide in Everyday Life
- Chapter 4: Trane R410 Piping Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Trane R410 Piping Guide. The first chapter will explore what Trane R410 Piping Guide is, why Trane R410 Piping Guide is vital, and how to effectively learn about Trane R410 Piping Guide.
3. In chapter 2, this book will delve into the foundational concepts of Trane R410 Piping Guide. This chapter will elucidate the essential principles that need to be understood to grasp Trane R410 Piping Guide in its entirety.
4. In chapter 3, the author will examine the practical applications of Trane R410 Piping Guide in daily life. The third chapter will showcase real-world examples of how Trane R410 Piping Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Trane R410 Piping Guide in specific contexts. This chapter will explore how Trane R410 Piping Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Trane R410 Piping Guide. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Trane R410 Piping Guide.

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Trane R410 Piping Guide Introduction

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