



Suva 404A Refrigerant Piping Guide

Suva
refrigerants

Suction Line Size .. Evaporator to Compressor

		50° F through 30° F (104 through 70 psig)					29° F through 10° F (68 through 43 psig)					9° F through -10° F (42 through 24 psig)						
		Suggested Allowable Pressure Drop in psig = 2F°																
		3.4 lbs. (2F°)					2.6 lbs. (2F°)					1.9 lbs. (2F°)						
System Capacity BTU/Hr.	System Capacity Tons/Hr.	Equivalent Section Line Lengths ... feet															System Capacity Tons/Hr.	System Capacity BTU/Hr.
		25	50	75	100	150	25	50	75	100	150	25	50	75	100	150		
10,000	1.50	5/8	5/8	3/4	3/4	3/4	5/8	3/4	3/4	7/8	7/8	3/4	7/8	7/8	1 1/8	1 1/8	1.50	10,000
24,000	2.00	5/8	3/4	7/8	7/8	7/8	3/4	3/4	7/8	7/8	1 1/8	3/4	7/8	1 1/8	1 1/8	1 1/8	2.00	24,000
30,000	2.50	3/4	3/4	7/8	7/8	1 1/8	3/4	7/8	7/8	1 1/8	1 1/8	7/8	1 1/8	1 1/8	1 1/8	1 1/8	2.50	30,000
36,000	3.00	3/4	7/8	7/8	7/8	1 1/8	7/8	7/8	1 1/8	1 1/8	1 1/8	7/8	1 1/8	1 1/8	1 1/8	1 3/8	3.00	36,000
42,000	3.50	3/4	7/8	7/8	1 1/8	1 1/8	7/8	1 1/8	1 1/8	1 1/8	1 3/8	1 1/8	1 1/8	1 1/8	1 3/8	1 3/8	3.50	42,000
48,000	4.00	3/4	7/8	1 1/8	1 1/8	1 1/8	7/8	1 1/8	1 1/8	1 1/8	1 3/8	1 1/8	1 1/8	1 3/8	1 3/8	1 3/8	4.00	48,000
60,000	5.00	7/8	7/8	1 1/8	1 1/8	1 3/8	1 1/8	1 1/8	1 1/8	1 3/8	1 3/8	1 1/8	1 3/8	1 3/8	1 3/8	1 5/8	5.00	60,000
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600,000	50.00	2 1/8	2 1/8	2 5/8	2 5/8	3 1/8	2 1/8	2 5/8	2 5/8	3 1/8	3 1/8	2 5/8	3 1/8	3 1/8	3 5/8	3 5/8	50.00	600,000

- 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 6°F F return gas entering the compressor and a refrigerant condensing and liquid line temperature of 105°F.

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A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

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Data Manual Vilter Manufacturing Corporation, 1978 Refrigeration Piping Handbook International Institute of Ammonia Refrigeration, 2019-06-24 Newly Revised Refrigeration Piping Handbook A guide to modern refrigeration piping this book is a comprehensive introduction to refrigeration piping as it is practiced in the field Originally printed in 2000 this publication has gone through several updates throughout the years The 2019 update is considered a cover to cover review and edit Chapter 1 is significantly different from the last version It provides an engineering basis for determining pressure drop in single phase and two phase flow regimes as well as determining pressure drop in wet suction vertical risers based on current research and analysis via full scale testing In addition new nomographs were generated to aid the user with determining pressure drop in various flow regimes Parameters for determining pressure drop in stainless steel pipe are now included The user is also referred to several computer programs that can be used to determine pressure drop and assist in selecting pipe sizes based on varying operating and economic conditions Some mandatory language has been changed to non mandatory and a new appendix has been added which addresses piping and equipment identification

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