

Refrigerant (R-404A)

Velocity in Lines for Freon<sup>™</sup> 404A (R-404A) Refrigerant (65 °F Evaporator Outlet) Eng Units

# **Technical Information**

### Dimensions of Type L Copper Tubing

Outside Diameter	Inside Diameter	
Inches (in)	Inches (in)	Millimeters (mm)
6-1/8	5.845	148.5
5-1/8	4.875	123.8
4-1/8	3.905	99.2
3-5/8	3.425	87.0
3-1/8	2.945	74.8
2-5/8	2.465	62.6
2-1/8	1.985	50.4
1-5/8	1.505	38.2
1-3/8	1.265	32.1
1-1/8	1.025	26.0
7/8	0.785	19.9
3/4	0.666	16.9
5/8	0.545	13.8
1/2	0.430	10.9
3/8	0.315	8.0



#### TONS OF REFRIGERATION 0.1 0.2 0.4 0.6 100 1 2 4 6 10 20 40 60 li l ╢╢ NOTE: Liquid line and discharge lines determined at 0°F evap. and 80°F cond. Other conditions do not appreciably change result. Net refrigeration for Freon" 404A includes suction gas at 65°F. +-----+ +-i----╢╢ 1 APP -10 H ର୍ନ ĸ Talos ┼∎┼ ┼┋╎┤╿ П 80 94 3000 6000 8000 8 8 8 8 8 8 2000 4000 20 200 300 400 c EXAMPLE At 80°F Condenser 5.5 tons at -40°F evap. and 100°F cond. 2-5/8" suction line velocity = 1800 ft/min At 100°F Condenser 3/4" liquid line velocity = 140 ft/min At 120°F Condenser 00 80 00 4000 3000 8000 8 8 0 300 400 2000 <del>Q</del> 20 8 VELOCITY IN FEET/MINUTE

## Freon<sup>™</sup> 404A Refrigerant - Velocity in Lines (65 °F Evaporator Outlet)

### For more information on Freon<sup>™</sup> refrigerants, visit freon.com

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