

### R-134a Refrigerant Line Sizing Selections for Type L Copper Tubing (Dimensions in OD; data based on 120° condensing)

Evaporator Capacity (tons)	Suction Line Sizes to Limit Pressure Drop to 2° Equivalent									Discharge Line Sizes for 1° Equivalent	Liquid Line Sizes for 1° Equivalent				
	-40° Evap.			0° Evap.			40° Evap.								
	Equivalent Piping Length (ft)									Equivalent Piping Length (ft)					
	25	50	100	25	50	100	25	50	100	25	50	100	25	50	100
1/4	3/4	7/8	1-1/8	1/2	5/8	3/4	3/8	1/2	1/2	3/8	3/8	3/8	3/8	3/8	3/8
1/2	1-1/8	1-1/8	1-3/8	5/8	3/4	7/8	1/2	5/8	5/8	3/8	1/2	1/2	3/8	3/8	3/8
3/4	1-1/8	1-3/8	1-5/8	3/4	7/8	1-1/8	5/8	5/8	3/4	1/2	1/2	5/8	3/8	3/8	3/8
1	1-3/8	1-3/8	1-5/8	7/8	1-1/8	1-1/8	5/8	3/4	3/4	1/2	5/8	5/8	3/8	3/8	3/8
1-1/2	1-3/8	1-5/8	2-1/8	1-1/8	1-1/8	1-3/8	3/4	7/8	7/8	5/8	5/8	3/4	3/8	3/8	1/2
2	1-5/8	2-1/8	2-1/8	1-1/8	1-3/8	1-5/8	3/4	7/8	1-1/8	5/8	3/4	7/8	3/8	3/8	1/2

- Above chart lists appropriate pipe size selections for various system capacities and evaporating temperatures. These are based solely on pressure drop parameters and do not incorporate minimum or maximum velocity considerations.
- Equivalent length is actual length plus friction losses caused by fittings and accessories.

### R-134a Refrigerant Line Sizing Selections for Type L Copper Tubing (Dimensions in OD; data based on 120° condensing)

Evaporator Capacity (tons)	Suction Line Sizes to Limit Pressure Drop to 2° Equivalent									Discharge Line Sizes for 1° Equivalent	Liquid Line Sizes for 1° Equivalent				
	-40° Evap.			0° Evap.			40° Evap.								
	Equivalent Piping Length (ft)									Equivalent Piping Length (ft)					
	25	50	100	25	50	100	25	50	100	25	50	100	25	50	100
1/4	3/4	7/8	1-1/8	1/2	5/8	3/4	3/8	1/2	1/2	3/8	3/8	3/8	3/8	3/8	3/8
1/2	1-1/8	1-1/8	1-3/8	5/8	3/4	7/8	1/2	5/8	5/8	3/8	1/2	1/2	3/8	3/8	3/8
3/4	1-1/8	1-3/8	1-5/8	3/4	7/8	1-1/8	5/8	5/8	3/4	1/2	1/2	5/8	3/8	3/8	3/8
1	1-3/8	1-3/8	1-5/8	7/8	1-1/8	1-1/8	5/8	3/4	3/4	1/2	5/8	5/8	3/8	3/8	3/8
1-1/2	1-3/8	1-5/8	2-1/8	1-1/8	1-1/8	1-3/8	3/4	7/8	7/8	5/8	5/8	3/4	3/8	3/8	1/2
2	1-5/8	2-1/8	2-1/8	1-1/8	1-3/8	1-5/8	3/4	7/8	1-1/8	5/8	3/4	7/8	3/8	3/8	1/2

- Above chart lists appropriate pipe size selections for various system capacities and evaporating temperatures. These are based solely on pressure drop parameters and do not incorporate minimum or maximum velocity considerations.
- Equivalent length is actual length plus friction losses caused by fittings and accessories.