



Standard and Mini Split Line Sets

Copper Tube Data

Standard Line Sets with Elastomeric Insulation

HRF Max	Copper Tube Sizes		Lengths	Insulation Thickness	Optional Finishes
	Liquid Line	Suction Line			
50	1/4" - 1/2"	3/8" - 1-1/8"	10' - 50' using 5' intervals; 60' & 100' (other lengths are available upon customer request)	3/8" - 1-1/2"	Flare nuts, 90-degree bends, custom connections, thermostat wire and taping

Mini Split Line Sets with Elastomeric Insulation

HRF Max	Copper Tube Sizes		Lengths	Insulation Thickness	Optional Finishes
	Liquid Line	Suction Line			
50	1/4" - 3/8"	3/8" - 7/8"	15' - 50' using 5' intervals; 100' (other lengths are available upon customer request)	3/8" - 1-1/2"	Insulated liquid and suction lines and twin tube system, flare nuts, 90-degree bends, custom connections, mini-split wire or control cable and taping

Line Sets with White Insulation

HRF Max	Copper Tube Sizes	Lengths	Insulation Thickness
50	1/4" - 7/8"	35', 50', 100', 164' (other lengths are available upon customer request)	1/2" - 3/4"

Line Sets with EPDM Insulation

HRF Max	Copper Tube Sizes	Lengths	Insulation Thickness	Optional Finish
50	1/4" - 1 - 1/8"	10' - 50' using 5' intervals (other lengths are available upon customer request)	1-1/2"	Flare nuts, 90 degree bends, custom connections, thermostat wire and taping



Standard and Mini Split Line Sets

Elastomeric Insulation Data

Insulation:

"R" Values

Pipe Insulation Size	Nom. 3/8"	Nom. 1/2"	Nom. 3/4"	Nom. 1"	Nom. 1-1/2"
1/4"	2.7	3.6	5.6	8.5	14.6
3/8"	2.5	3.2	5.4	8.5	14.6
1/2"	2.4	3.2	5.2	7.9	13.5
5/8"	2.3	3.2	5.2	6.7	12.8
3/4"	2.2	3.1	5.1	6.5	12.1
7/8"	2.2	3.1	5.0	6.5	11.6
1-1/8"	2.1	3	5.4	6.8	10.8

Specification Compliance:

- ASTM C 534, Type II — Sheet Grade 1
- ASTM C 1534
- ASTM E 84, NFPA 255, U L 723
- CAN/ULC S102
- NFPA 90A, 90B
- ASTM G21/C1338
- ASTM G22
- ASTM D 1056, 2B1
- MIL-P-15280J, FORM S
- MIL-C-3133C (MIL STD 670B),
- Grade SBE 3
- MEA 107-89M
- UL 181
- UL 94 5V-A, V-0, File E 55798
- City of Los Angeles – RR 7642

Physical Properties:

Specifications	Values	Test Method
Thermal Conductivity, Btu • in./h • ft ² • °F (W/mK) 75°F Mean Temperature (24°C) 90°F Mean Temperature (32°C)	0.25 (0.036) 0.256 (0.037)	ASTM C 177 or C 518
Water Vapor Permeability, Perm-in. [Kg/(s•m•Pa)]	0.05 (0.725 x 10 ⁻¹³)	ASTM E 96, Procedure A
Flame Spread and Smoke Developed Index through 1" (25mm)*	25/50*	ASTM E 84 CAN/ULC S102
Mold Growth Fungi Resistance Bacterial Resistance	UL181 ASTM G21/C1338 ASTM G22	Meets requirements Meets requirements Meets requirements
Water Absorption, % by Volume	180/220°F (82/105°C)	ASTM C 209
Upper Use Limit	220°F (105°C)	—
Lower Use Limit	-297°F (-183°C)	—
Ozone Resistance	GOOD	—



Standard and Mini Split Line Sets Polyethylene Insulation Data

Insulation: Wall thickness is 1/2" - 3/4" and product is made according to ASTM C 1427-07 (insulation material for use on typical commercial system non-cross-linked)

"R" Value:

1/2" Wall = R3

3/4" Wall = R5

Specification Compliance:

Description	Specifications	Notes
Water Vapor Permeability	ASTM E96-00	$\mu = 4 \times 10^{-5}$ [mg/(h*m*Pa)]
Working Temperature	ASTM C 1427-07	Type I (tubular), Grade I
Surface Burning Characteristics	ASTM E84 (25/50)	Flame & Spread Index Less Than 25 & Smoke Development Index less than 50
Thermal Conductivity	ASTM C 335-95	"k" at 104°F (average temperature) = 0.263468 (Btu in.)/sq.ft. °F h)
	ISO EN 8497	"λ" at 40 °C (average temperature) = 0.038 W/(m*K)

WARNING: This product includes polyethylene (PE) foam insulation. Although this product meets ASTM E84 25/50 flame/smoke index, PE foam insulation may nonetheless be highly flammable when ignited. To reduce the risk of fire spread, property damage, or personal injury, great caution should be exercised when using this product in proximity to any ignition sources or open flames.



Standard and Mini Split Line Sets

EPDM Insulation Data

Insulation:

"R" Values

Pipe Size	Insulation Wall
	1-1/2"
1/4"	13.7
3/8"	13.7
1/2"	12.7
5/8"	12.0
3/4"	11.3
7/8"	10.8
1-1/8"	10.1

Specification Compliance:

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- ASTM E 84, NFPA 255, U L 723
- CAN/ULC S102
- NFPA 90A, 90B
- ASTM G21/C1338
- ASTM G22
- ASTM D 1056, 2B1
- MIL-P-15280J, FORM S
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