

## ISOCLIMA

### Pre-Insulated Copper Line Sets

- Individual pre-insulated rolls to perfectly fit every ductless mini-splits, VRF, heat pumps and unitary systems installation.
- Available in 50ft, 82ft and 164ft with 1/2" insulation thickness and in single or twin pipe.
- All rolls are wrapped in clear film for added protection and marked by the foot for maximum waste reduction.



Tested in accordance with  
**UL 94, UL 723A, UL 746A**



**ASTM B280**

#### COPPER PIPE

- Made in accordance with applicable regulations, with cleaned inside surfaces, phosphorous deoxidized, high residual phosphorous, annealed in coils. Crimped ends to keep the pipe clean until it has been installed.
- Minimum Cu  $\geq 99.90\%$
- Phosphorous content =  $0.015\% \div 0.040\%$
- **Approved to ASTM B280**
- Perfect for applications where high-pressure gases are used as refrigeration source.

#### INSULATION

- Low density closed cells polyethylene foam
- CFC and HCFC damaging-ozone gas free
- Made according to **ASTM C 1427-07**, type I (tubular), grade I (insulation material for use on typical commercial system non-cross-linked)
- Surface burning characteristics: **UL 94**, top rated for Surface Burning Characteristics – **UL 723** (Flame and Spread Index less than 25 and Smoke Development Index less than 50), **ASTM E84** (25/50) compliant and tested in accordance with **UL 746A** for Ignition Resistance.

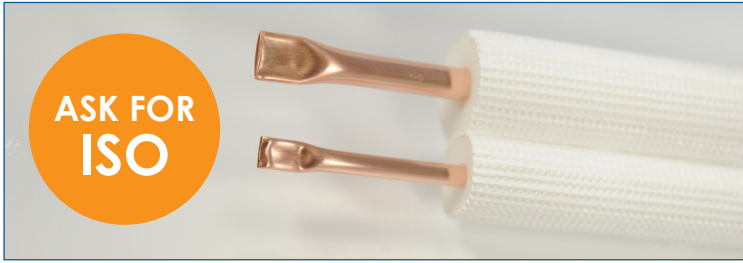
#### SHEATH

- External LDPE foil covering which adheres to a non-flammable base, melts flameless and thus belongs to self-extinguish Class 1.
- Marked progressively every foot with product details (pipe and insulation diameters) and production date & time.
- Excellent resistance to water vapor diffusion and substantial reduction of moisture on the outer surface of the pipe.
- Additional protection to foam insulation from tearing during installation process.

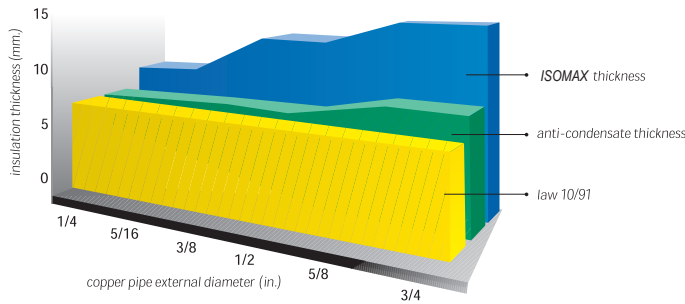
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ISO

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Pre-Insulated Copper Line Sets



<b>COPPER PIPE WALL THICKNESS</b>	ASTM B280
<b>INSULATION THICKNESS</b>	1/2" (12.7 mm)
<b>OPERATING TEMPERATURE RANGE</b>	-112°F / 208°F (-80°C / +98°C)
<b>COEFF. OF WATER VAPOR DISPERSION</b>	5482 μ
<b>THERMAL CONDUCTIVITY</b>	0.0397 W. m <sup>-1</sup> . K <sup>-1</sup>
<b>INSULATION DENSITY</b>	99 lbs/cubic ft (45 Kg/m <sup>3</sup> )
<b>FIRE RESISTANCE</b>	Class 1 (self-extinguishing)
<b>PACKAGING</b>	Comes in single coils wrapped in clear film for added protection.



PART NUMBER	PIPE	INSULATION	LENGTH (FT)
<b>SINGLE Pre-Insulated Copper Pipe Coils</b>			
ISO14-12-50	1/4"	1/2"	50
ISO38-12-50	3/8"	1/2"	50
ISO12-12-50	1/2"	1/2"	50
ISO58-12-50	5/8"	1/2"	50
ISO34-12-50	3/4"	1/2"	50
ISO78-12-50	7/8"	1/2"	50
ISO14-12-164	1/4"	1/2"	164
ISO38-12-164	3/8"	1/2"	164
ISO12-12-164	1/2"	1/2"	164
ISO58-12-164	5/8"	1/2"	164
ISO34-12-82	3/4"	1/2"	82
ISO78-12-82	7/8"	1/2"	82
<b>DOUBLE Pre-Insulated Copper Pipe Coils</b>			
Bi14X38-12-50	1/4" and 3/8"	1/2"	50
Bi14x12-12-50	1/4" and 1/2"	1/2"	50
Bi14x58-12-50	1/4" and 5/8"	1/2"	50
Bi38x12-12-50	3/8" and 1/2"	1/2"	50
Bi38x58-12-50	3/8" and 5/8"	1/2"	50

BARE COPPER PIPE DIMENSIONS	THICKNESS OF INSULATING SHEATH	NOMINAL BURSTING PRESSURE [MPa]	NOMINAL WORKING PRESSURE (ASTM B111 M) [atm]
1/4" (6.35 x 0.762 mm)	1/2" (12.7 mm)	56.54	14.14
3/8" (9.52 x 0.813 mm)	1/2" (12.7 mm)	37.71	9.43
1/2" (12.70 x 0.813 mm)	1/2" (12.7 mm)	28.27	7.07
5/8" (15.88 x 0.889 mm)	1/2" (12.7 mm)	28.28	7.07
3/4" (19.05 x 0.889 mm)	1/2" (12.7 mm)	23.55	5.89
7/8" (22.22 x 1.14 mm)	1/2" (12.7 mm)	21.50	5.35



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ASTM B280