

# WHY CHOOSE ISOPOLAR LINESETS

**HMAX**  
QUALITY HVAC ACCESSORIES

Available in single  
or twin pipe  
configurations

## 1. Consistently Specified by Engineering Firms

Regarded as some of the toughest and most reliable linesets available for commercial applications

## 2. Superior ASTM B280 Copper

Free of imperfections that cause leaks and kinks, ISO lineset copper is produced from our proprietary foundry

## 3. Tear Resistant Jacket

Tough, white sheathing is highly resistant to tearing but trims clean saving time and money with less service calls

## 4. Quality Above All

ISO linesets outperform the competition by keeping quality as the number one priority

## 5. Safe, Non-Corrosive Insulation

ISOPOLAR's PE insulation classifies as an A+ for emission, and deemed harmless to copper pipe.



**ISOPOLAR**  
FROM HMAX



**ISOPOLAR**  
TWIN FROM HMAX







Preferred by HVAC professionals for mini-split, residential unitary, heat pump and light commercial installations. ISO makes every job look cleaner and is available in 1/2", 3/4" and 1" thicknesses with 3 coil lengths – 50', 82', 164'.



Products are  
made to meet  
requirements of  
ASTM B1003

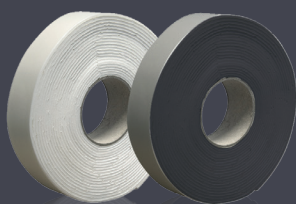
Tight, protective  
packaging for  
efficient storage

Product certifications  
available upon request.

ISOPOLAR Lineset	Features
✓	 <b>Reliable, closed-cell polyethylene insulation with tear-resistant sheath</b>
✓	 <b>Crimped ends to keep inside surfaces clean prior to installation</b>
✓	 <b>Superior material - ASTM B280 type ACR copper</b>
✓	 <b>Durable jacket marked by the foot for maximum waste reduction</b>
✓	 <b>High resistance to moisture and water-vapor intrusion. UV-resistance tested according to ASTM G154 standard</b>
✓	 <b>Quick and easy install - No field-applied coating or jacketing</b>

## TECHNICAL SPECIFICATIONS

- Made according to ASTM C 1427-07, type I (tubular), grade I (insulation material for use on typical commercial system non-cross-linked)
- Insulation meets industry requirements for surface burning and ignition resistance
- CFC and HCFC damaging ozone gas free External LDPE foil covering which adheres to a non-flammable base, melts flameless and belongs to Self-Extinguish Class 1
- Marked at every foot with product details (pipe and insulation diameters), production date and time
- Additional protection on foam insulation reduces risk of tearing
- High resistance to water-vapor diffusion
- Rated for plenum applications
- Exterior insulation must be protected from exterior hazards (ASHRAE 90.1-2013 and IECC- 2015)
- After installation of line sets, ends should be properly sealed to prevent moisture infiltration (See ISOTAPE below)
- Insulation has undergone UV resistance testing as per ASTM G154 standard



## ISOTAPE

- Eco-friendly, white polyethylene band - also available in black closed-cell elastomer
- Highly flexible, physically cross linked with compliant thermal conductivity
- Ideal for wrapping indoor refrigerant pipe connections and for bundling piping together for easy, fast installation
- Temperatures from -20°F to 175°F with low thermal conductivity
- Extremely low water vapor permeability and absorption

## SINGLE-PIPE COILS ORDERING GUIDE

Part Number	Pipe Size	Insulation Thickness	Coil Length	Coils Per Pallet
ISO14-12-50	1/4"	1/2"	50'	22
ISO38-12-50	3/8"	1/2"	50'	21
ISO12-12-50	1/2"	1/2"	50'	18
ISO58-12-50	5/8"	1/2"	50'	17
ISO34-12-50	3/4"	1/2"	50'	16
ISO78-12-50	7/8"	1/2"	50'	13
ISO14-12-164	1/4"	1/2"	164'	12
ISO38-12-164	3/8"	1/2"	164'	13
ISO12-12-164	1/2"	1/2"	164'	10
ISO58-12-164	5/8"	1/2"	164'	10
ISO34-12-82	3/4"	1/2"	82'	11
ISO78-12-82	7/8"	1/2"	82'	11
ISO14-34-50	1/4"	3/4"	50'	16
ISO38-34-50	3/8"	3/4"	50'	13
ISO12-34-50	1/2"	3/4"	50'	13
ISO58-34-50	5/8"	3/4"	50'	14
ISO34-34-50	3/4"	3/4"	50'	12
ISO78-34-50	7/8"	3/4"	50'	10
ISO14-1-50	1/4"	1"	50'	10
ISO38-1-50	3/8"	1"	50'	11
ISO12-1-50	1/2"	1"	50'	11
ISO58-1-50	5/8"	1"	50'	11
ISO34-1-50	3/4"	1"	50'	10
ISO78-1-50	7/8"	1"	50'	8

## TWIN-PIPE COILS ORDERING GUIDE

BI14X38-12-50	1/4" + 3/8"	1/2"	50'	14
BI14X12-12-50	1/4" + 1/2"	1/2"	50'	12
BI14X58-12-50	1/4" + 5/8"	1/2"	50'	12
BI38X12-12-50	3/8" + 1/2"	1/2"	50'	12
BI38X58-12-50	3/8" + 5/8"	1/2"	50'	11

## ISOTAPE ORDERING GUIDE | ACCESSORY

ISOTAPE-WH	White 2" x 30' POLYETHYLENE tape - Use with white polyethylene insulation
ISOTAPE-BK	Black 2" x 30' ELASTOMER insulating tape - Use for conventional black rubber insulation

## SUBMITTAL DATA SHEET | ISOTECH LINESETS

Job Name		Location	
Purchaser		Engineer	
Submitted To	Reference	Approval	Construction
Submitted By	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit Designation		Schedule	
Construction		Date	

### DURABILITY

Bare Copper Pipes in inches (mm)	Thickness of Insulating Sheath	Nominal Bursting Pressure [MPa]	Nominal Working Pressure (ASTM B111 M) [atm]
1/4" (6.35 x 0.762)	1/2", 3/4" and 1"	56.54	14.14
3/8" (9.52 x 0.813)	1/2", 3/4" and 1"	37.71	9.43
1/2" (12.70 x 0.813)	1/2", 3/4" and 1"	28.27	7.07
5/8" (15.88 x 0.889)	1/2", 3/4" and 1"	28.28	7.07
3/4" (19.05 x 0.889)	1/2", 3/4" and 1"	23.55	5.89
7/8" (22.22 x 1.14)	1/2", 3/4" and 1"	21.50	5.35

### TECHNICAL DATA

Copper Pipe Wall Thickness	ASTM B280
Insulation Thickness	1/2"
Operating Temperature Range	-112°F / 208°F (-80°C / +98°C)
Coefficient of Water Vapor Dispersion	5482 μ
Thermal Conductivity	0.0397 W. m <sup>-1</sup> . K <sup>-1</sup>
Insulation Density	99 lbs./cubic ft. (45 Kg/m <sup>3</sup> )
Fire Resistance	Class 1 (self-extinguishing)
Packaging	Comes in single coils wrapped in clear film for added protection