Wostore 16' x 1/4"-3/8"

Wostore 16 Ft. Mini Split Air Conditioner Insulated Line Set (1/4" & 3/8" OD)

Model: 16' x 1/4"-3/8"

1. Introduction

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Wostore 16 Ft. Mini Split Air Conditioner Insulated Line Set. This line set is designed for use with mini split air conditioning systems in various environments, including homes, offices, and commercial spaces. Please read this manual thoroughly before installation and retain it for future reference.

2. What's in the Box

The Wostore 16 Ft. Mini Split Air Conditioner Insulated Line Set package includes the following components:

- 16 Ft. insulated line set (1/4" and 3/8" OD copper pipes)
- Wall sleeve cylinder
- Decorative wall cap
- Wall filler putty
- Non-adhesive decorative wrapping tape
- Flexible condensate drain hose
- Matching length interconnecting cable (18Ft., 16/4)



Figure 2.1: Components included in the Wostore Mini Split Line Set package.

3. Product Features

The Wostore Insulated Line Set is engineered with several features to ensure efficient and reliable performance for your mini split system:

3.1. High-Quality Copper Tubing

- **Thickened Copper:** The 1/4" and 3/8" copper tubes feature a wall thickness of 0.65mm, meeting ASTM B743 standards.
- **Durability:** Made from high-quality copper, designed to withstand high pressure and temperature.
- **Flared Ends:** Pre-flared ends with copper nuts ensure a secure and leak-free connection.



Figure 3.1: Detail of the copper pipes with flared connections, emphasizing quality.



Figure 3.2: Copper pipe specifications and material properties.

3.2. Advanced Insulation

- **Triple-Layer Design:** Features inner insulation, outer insulation, and an embossed polyethylene film for superior thermal performance.
- **Embossed Polyethylene Film:** Provides abrasion resistance, prevents rainfall penetration, and reduces friction and noise.
- **Protective External Layer:** Made of UV-resistant material to protect the copper tube from corrosion, weather, and rodents. It is also fire-retardant.



Figure 3.3: Cross-section view of the triple-layer insulation.



Figure 3.4: Benefits of the embossed polyethylene film and flame-retardant properties.

3.3. Seamless Integration

- Designed for mini split air conditioning systems to ensure efficient cooling and heating.
- Each foot of the product is marked with a corresponding number for easy measurement and installation.



Figure 3.5: Details of the line set connections and insulation.



Figure 3.6: Applications and benefits of the insulated copper line set.

4. Setup and Installation

Installation of the Wostore Mini Split Air Conditioner Insulated Line Set should be performed by a qualified HVAC technician to ensure proper function and safety. Incorrect installation can lead to refrigerant leaks, system inefficiency, or damage.

4.1. Pre-Installation Checks

- Verify that the line set dimensions (1/4" and 3/8" OD) match the requirements of your mini split unit.
- Inspect all components for any signs of damage during shipping.
- Ensure all necessary tools for installation are available.

4.2. Installation Steps (Overview)

1. **Route the Line Set:** Carefully route the insulated copper pipes and interconnecting cable between the indoor and outdoor units, avoiding sharp bends or kinks.
2. **Wall Penetration:** Use the provided wall sleeve cylinder and wall cap for a neat and sealed penetration through the wall.
3. **Connect Pipes:** Connect the flared ends of the copper pipes to the corresponding ports on both the indoor and outdoor units. Ensure connections are tight to prevent leaks.
4. **Connect Electrical:** Connect the interconnecting cable according to your mini split unit's wiring diagram.
5. **Drain Hose:** Install the flexible condensate drain hose with a proper slope to allow for gravity drainage.
6. **Vacuum and Charge:** Evacuate the system to remove air and moisture, then charge with the appropriate refrigerant as specified by your mini split manufacturer.
7. **Seal and Wrap:** Use the wall filler putty to seal any gaps around the wall penetration and wrap the exposed line set with the decorative wrapping tape for protection and aesthetics.

Warning: Handling refrigerants and electrical connections requires specialized knowledge and tools. Always consult a professional HVAC technician for installation.

5. Operating Instructions

The Wostore Insulated Line Set is a passive component of your mini split air conditioning system. Its primary function is to transport refrigerant between the indoor and outdoor units. There are no direct operating controls for the line set itself. Proper operation of your mini split system will depend on the correct installation of this line set and the functionality of your mini split unit.
Refer to your mini split air conditioner's instruction manual for specific operating procedures, including turning the unit on/off, setting temperature, and selecting modes.

6. Maintenance

Regular maintenance of your mini split system, including the line set, helps ensure longevity and optimal performance.

6.1. Periodic Inspection

- **Visual Check:** Periodically inspect the exposed sections of the line set for any signs of physical damage, wear, or degradation of the insulation.
- **Leak Detection:** If you suspect a refrigerant leak (e.g., reduced cooling/heating performance, hissing sounds), contact a qualified technician immediately.
- **Condensate Drain:** Ensure the condensate drain hose is free from blockages and is draining properly.

6.2. Cleaning

- Keep the exterior of the line set clean from dirt, debris, and vegetation.
- If the decorative wrapping tape becomes damaged, replace it to maintain protection against UV exposure and physical wear.

7. Troubleshooting

Most issues related to the line set are typically associated with improper installation or physical damage. If you experience any of the following, consult a professional HVAC technician:

- **Reduced Cooling/Heating:** This could indicate a refrigerant leak from a faulty connection or damaged pipe.
- **Visible Leaks:** Any signs of oil residue or ice formation on the copper pipes suggest a refrigerant leak.
- **Unusual Noises:** While the line set itself is generally quiet, unusual noises from the system could point to issues with refrigerant flow or other components.
- **Damaged Insulation:** Compromised insulation can lead to energy loss and reduced system efficiency.

Note: Do not attempt to repair refrigerant lines or electrical connections yourself. This can be dangerous and may void your mini split system's warranty.

8. Specifications

Specification	Detail
Brand	Wostore
Material	Copper, Foam, Cotton
Color	Copper (pipes), White (insulation)
Product Dimensions	192"L x 0.37"W (16 feet length)
Item Weight	3.45 Kilograms (7.58 pounds)
Nominal Wall Thickness	0.65 millimeters
Outside Diameter	1/4" and 3/8"
UPC	644925533344
ASIN	B07VP4RWVD

9. Official Product Video

Your browser does not support the video tag.

Video 9.1: An overview of the Wostore Mini Split Line Set, demonstrating its features and manufacturing process.

10. Warranty and Support

For specific warranty information regarding your Wostore Mini Split Air Conditioner Insulated Line Set, please refer to the documentation provided with your purchase or contact Wostore customer support directly. General product support and inquiries can be directed to the manufacturer via their official website or customer service channels.
It is recommended to keep your purchase receipt as proof of purchase for any warranty claims.

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