

Job Name:

System Reference:

Date:



Diamondback® refrigeration Linesets are designed especially for the ductless and ducted mini and multi split Air Conditioning and Heat Pump System products requiring insulation on both lines and flared connections. The copper tubes are ASTM B280, annealed, refrigerant grade, ACR type; individually insulated with Mitsubishi Electric's "Twin Tube" – single piece molded - closed cell foam insulation. The figure eight shaped insulation

has the highest grade UV resistance available for extended outdoor applications.

Linesets come in diameter combinations for M- & P-Series and CITY MULTI® indoor units and are available in various lengths to meet most requirements for quick, cost effective field installations. All four (4) connections are flared and provided with forged brass flare nuts protected with plastic shipping inserts.

In response to the demand for a quick, efficient and economical field method of installation for refrigerant lines to connect ductless mini-split and other split system air conditioners and heat pumps, Mitsubishi Electric offers a proven product to meet the industry's needs.

Diamondback Advantages include:

- Quick, efficient and economical field installation using factory applied "Twin Tube" insulation and flare connections with flare nuts mounted
- Correct lengths for reducing waste and time
- Quality, consistency and economy
- All Diamondback Lineset tubing is tested in accordance with ASTM E243

Lineset Model Number	Tube Size (In.)	Length (Ft.)	Insul.
MLS143812T-15	1/4 x 3/8	15	1/2"
MLS143812T-30	1/4 x 3/8	30	1/2"
MLS143812T-50	1/4 x 3/8	50	1/2"
MLS143812T-65	1/4 x 3/8	65	1/2"
MLS141212T-15	1/4 x 1/2	15	1/2"
MLS141212T-30	1/4 x 1/2	30	1/2"
MLS141212T-50	1/4 x 1/2	50	1/2"
MLS141212T-65	1/4 x 1/2	65	1/2"
MLS141212T-100	1/4 x 1/2	100	1/2"
MLS145812T-15	1/4 x 5/8	15	1/2"
MLS145812T-30	1/4 x 5/8	30	1/2"
MLS145812T-50	1/4 x 5/8	50	1/2"
MLS145812T-65	1/4 x 5/8	65	1/2"
MLS145812T-100	1/4 x 5/8	100	1/2"
MPLS385812T-10	3/8 x 5/8	10	1/2"
MPLS385812T-15	3/8 x 5/8	15	1/2"
MPLS385812T-30	3/8 x 5/8	30	1/2"
MPLS385812T-50	3/8 x 5/8	50	1/2"
MPLS385812T-65	3/8 x 5/8	65	1/2"
MPLS385812T-100	3/8 x 5/8	100	1/2"
MPLS383412T-15	3/8" x 3/4"	15	1/2"
MPLS383412T-50	3/8" x 3/4"	50	1/2"



Caps off with
flared ends
exposed

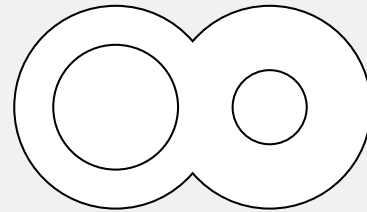


Caps on



"Twin-Tube" Lineset Insulation Design

- Balanced outside diameter for uniform coil/uncoil position stability.
- Minimum 1/2" insulation thickness on both tubes



LINESETS

Product	Temper	Lengths	Uses	Specifications	End Finishing	
Basic Linesets	050-060 (soft anneal)	Available from 15'-100' depending on model selected	Ductless and Ducted Mini-Split or other Split type air conditioning and heat pump systems	Currently there is no ASTM specification for insulated copper tube *1	Flare connection with mounted forged Brass Flare nut Protective plastic plug provided	
NOTE: *1 Bare copper tube conforms to the ASTM B280 standard.						
Copper Tube Sizes			Refrigerant	Insulation Thickness		
Product	Suction Line	Liquid / Saturated Gas Line	-	Product	Suction Line	Liquid / Saturated Gas Line
Basic Linesets	3/8" - 3/4"	1/4" - 3/8"	R-410A / R-22 / R-407c / R-454B / R-32	Twin Tube	1/2" foam	1/2" foam minimum

- Follow the equipment manufacturer's instructions when connecting refrigerant piping, evacuating system and testing for leaks.
- Remove protective shipping plugs before connecting to equipment.
- Properly tighten the flare connections and be careful not to over tighten. Use torque wrench and tighten to the approved level.
- Apply a small amount of refrigerant oil to the flare back and face during installation for a proper and long lasting seal. This will help ensure protection against leaks.
- Be careful not to tear the insulation. Cut the web between the insulation tubes with a sharp knife to separate the "Twin Tube" insulation.
- Be careful not to crimp piping when bending.
- Never allow contaminants to be introduced into the piping.
- "One Year Warranty" against defects in materials and workmanship from date of purchase.

INSULATION:

Flexible, closed-cell, CFC-free (ozone depletion potential of zero), elastomeric material for the insulation of refrigerant pipes and tubes with superior fire performance.

Armaflex® has a low thermal conductivity and very high resistance to water vapor transmission and is widely used for condensation control and energy saving.

- Thermal Conductivity = 0.30 BTU-inch/hour per Sq Ft / °F
- Water Vapor Transmission = 0.08 Perm-inch
- Fire Ratings; Insulation will not contribute significantly to fire (Simulated end-use testing); Up to 1" thick insulation has a Flame-Spread Index of less than 25* and a Smoke-development Index of less than 50* as tested by ASTM E 84 and CAN / ULC S-102

* Note: Numerical flammability ratings alone may not define the performance of products under actual fire conditions. They are provided only for use in the selection of products to meet limits specified.

PACKAGING:

Individual Linesets are packaged in cardboard inserts and packaged in a master carton.

(See Price Sheet for packaging multiples).

* Note: Plumbing and mechanical codes govern what types of products may be used for applications. Local codes should always be consulted for minimum requirements.

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