



## Refrigerant Line Assemblies

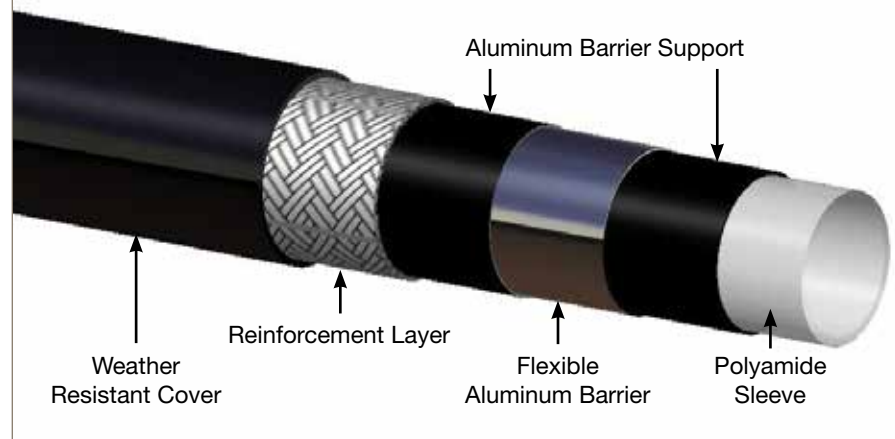


Parker's ZoomLine assemblies are engineered and tested for the exacting requirements of medium and low temperature refrigerating system use. The flexible ZoomLine assemblies offer many advantages over rigid tubing including time and cost savings due to:

- Ease of routing and maintenance
- Reduced copper content eliminating expensive metals and theft concerns
- Reduced brazing and rework due to leakage at braze joints
- Reduced tube bending, rework, and scrap
- Reduced parts and inventory by eliminating elbows and couplings

System benefits include enhanced insulating effect compared to bare copper and reduced vibration transmission which decreases potential tube breakage, making the system more efficient and reliable. Zoomline assemblies are custom configurable with many connection styles, lengths and diameters available so system designers can optimize the system to meet even the most demanding customer's needs.

### ZoomLine Construction



**ZoomLine** has been designed to eliminate refrigerant leakage while maintaining flexibility not available with copper tubing. The 6 layer hose is designed to withstand environmental, temperature and pressure extremes while providing excellent installation flexibility and long life.

- **Polyamide Sleeve** is a time tested material that provides compatibility and durability with system fluids.
- The state of the art, patent pending **Flexible Aluminum Barrier** provides the same metal-based worry-free leakage performance as copper tubing.
- **Aluminum Barrier Supports** also act as refrigerant barriers and support the Aluminum Barrier during installation and use.
- **Reinforcement Layer** provides high strength with lower weight than copper tubing.
- **Weather Resistant Cover** ensures long life regardless if installed indoors or outdoors.

The unique couplings connecting ZoomLine assemblies to the system have multiple barriers. Entire assemblies have been rigidly tested using the latest leak detection technologies to ensure no leakage.

Zoomline is the first flexible line designed to protect the environment and the customer's investment while eliminating the need for expensive and hard to work with copper tubing.



ENGINEERING YOUR SUCCESS.

**ZoomLine™  
Refrigerant Line  
Assemblies**



## ZoomLine Specifications and Performance:

- Applications:  
Liquid and suction line applications meeting temperature and pressure limits; suitable for indoor and outdoor use
- Estimated Tonnage Range:  
<2 to 10 tons
- Refrigerants:  
R-134a and R-404A
- Lubricant / Oil: POE, Mineral Oil
- Maximum Burst Pressure:  
2500 psi (172 bar) all sizes
- Maximum Operating Pressure:  
500 psi (34.47 bar)
- Operating and Ambient Temperature Range:  
-25°F to +176°F (-31.67°C to +80°C)
- ROHS Compliant
- Wetted Materials:  
Steel, brass, polyamide, HNBR elastomer
- Environmental / UV Protection:  
Optimized outer sleeve; Hose tested using SAE and ASTM Test Conditions
- External Leakage: None detectable using Helium mass spectrometry methods.

Nominal Size Inches (mm)	I.D. Inches (mm)	O.D. Inches (mm)	Minimum Bend Radius Inches (mm)
3/8 (9.5)	0.33 (8.38)	0.68 (17.27)	2.72 (69)
1/2 (12.7)	0.43 (10.95)	0.81 (20.57)	3.25 (83)
5/8 (15.8)	0.56 (14.25)	0.95 (24.12)	3.88 (98)
7/8 (22.2)	0.82 (20.96)	1.25 (31.75)	5.00 (127)

## Connection Styles and Sizes\*

	<b>ODF Copper</b> Sweat connection to copper tubing Size Range: 1/4" to 7/8"
	<b>5400 Series Steel Couplings</b> Self-sealing and resealing connector Size Range: 1/4" to 1-3/8"
	<b>5500 Series Brass Couplings</b> Pre-chargeable self-sealing and resealing connector Size Range: 3/8" to 1-1/8"
	<b>5700 Series Brass Couplings</b> One Shot™ pre-chargeable connector Size Range: 3/8" to 1-1/8"

For more information on Parker's Series Couplings refer to Catalog OEM-1.  
\*Custom bent copper connectors and mechanical connections available upon request.

