

# Piping

## The benefits of Airstream's multi-layered piping system

### Applications

Combining the benefits of metal and plastic material, but avoiding the drawbacks of both, PEX/ALU/PEX multi-layered pipes are an ideal choice for compressed air distribution systems.

This pipe is made up of a longitudinal butt welded aluminium layer that is surrounded on the inside and outside by layers of cross-linked poly-ethylene. The aluminium provides excellent resistance to pressure and temperature. The inner and outer PE layers inhibit scaling and corrosion whilst the addition of aluminium gives the pipe its strength that makes the best alternative to copper.

### Environment

Airstream pipe systems are air impermeable, preventing contamination of the medium contained within its system, making it compliant with stringent food regulations. The choice of resin (PEX) is a key factor in the construction of our pipe enhancing its performance of high pressures and temperatures.

Worldwide there is a concern over corrosion in piping. The decline in air quality has been attributed to corrosion and scale build-up of old pipe systems. Hygiene, no scale build-up and zero-corrosion of PEX/ALU/PEX multi-layered piping systems are lightweight and easy to handle and have coil lengths of up to 200meters to allow longer runs with less connections, reducing potential leak points.

It's fast and easy to join in four simple steps; cut, bevel, insert, crimp. Any bend of any angle can be made effortlessly by tool or hand for easy installation.

### Summary of advantages

- PEX/ALU/PEX multi-layered pipe has been designed to offer the end user the advantages of both metallic and polymer piping systems
- Price competitive
- Quick and easy to install
- No theft value
- Safe to use - no sharp edges, no naked flames or gas required
- Hygienic non-toxic , no micro organism growth
- 30% better flow rate than metal pipes
- Expansion rate, same as metal pipes
- Easy to handle, 200 metres of pipe weighs 24 kgs
- 50 - 80 years working life
- Guaranteed for 20 years
- 3 times the life of metal pipes - no corrosion
- Guaranteed leak free joints

### Pipe and fitting sizes

1216	1/2"
2025	3/4"
2632	1"

