



Ammonia refrigerant lines - food processing industry
- no maintenance - no downtime.



Specially designed Cryogenic system - 100°C

System Benefits

• High Efficiency Insulation

- Half thickness of mineral wool
- Allows more space
- Energy efficient
- Maintenance free

• Rugged Structure

- Support from casing
- Long term integrity of casing
- Long life system
- No corrosion problems

• Excellent Vapour Barrier

- Needs no penetrations at hangers or supports
- Long life even in tropical areas
- No drop off in efficiency
- No icing up
- No sweating

• Reduced Site time and cost

- Install three systems in one operation
- Insulation, Vapour barrier and Cladding
- Simple as assembly using standard equipment
- Underground system can lie directly in unlined trench

• Quality

- Factory insulated under controlled conditions
- Qualified procedures and controlled conditions throughout manufacture.
- No weather delays. No damp insulation, or reduction in quality due to site conditions or remoteness.
- Minimum reliance on field skills.

• Fire Resistance

- 2 hour fire rating to enhance safety.

• Low life cycle cost

- No maintenance
- Long term integrity

• Subcontractor liaison as required for practical solutions

- Selection of subcontractors
- Training through data modules
- Training on site
- Site supervision
- Assistance with commissioning
- Completion on time and within budget



Applications

- Liquid suction lines
- Aboveground
- Underground
- In service ducts
- In ceiling spaces
- Exposed on roofs

Typical Sites

- Food Processing Facilities
- Coolstores
- Supermarkets
- Wineries
- DX Aircon systems

Technical Data Insulation

Thermal Conductivity	0.02 W/m ² K
Compressive Strength	320 kPa
Shear Strength	250 kPa
Density	65 Kg/m ³
Vapour permeability aboveground	1.8 x10 ⁻⁵ metric perm
Minimum service temperature	-50°C
Special systems available for cryogenics.	

Underground System Casing Materials

High density polyethylene, one piece extruded.

Aboveground System Casing Materials

- Spiral wound galvanised steel
- Spiral wound stainless steel
- Spiral wound aluminium
- Spiral wound epoxy coated steel
- High density polyethylene, one piece extruded.

Process Pipe

Normally single or double random lengths to Engineers' Specification in copper or steel.
Superior system performance may allow reduced diameter and corrosion provision.



Refrigeration pipelines outdoors in Queensland - under budget and on time.



Refrigerant lines supported from outer casing - no vapour barrier penetrations, no sweating and no ice ups.

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