

Vacuum Insulated Hose

The static vacuum insulated hose is manufactured from 304 stainless steel, evacuated to a high vacuum of 10^{-6} mbar (10^{-4} Pa) with a vacuum pump, and then sealed. The hose is in modular structure and is assembled and connected with vacuum genderless blade connectors.

The hose is available in two standard inner diameter sizes: 0.625" (Model DN15) and 1.25" (Model DN25). The outer layer is protected by a flexible stainless steel braided sheath.

Scala provides a complete range of components, including inline exhaust devices, phase separators, gas traps, vacuum tees, and vacuum elbows, to maximize system performance and design flexibility.

Features

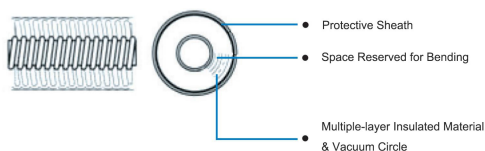
Space-saving – Eliminate on-site vacuum pumps, thus reduce pump maintenance and operational costs.

1-year vacuum warranty – Includes a 1-year warranty covering material and manufacturing defects.

Ultra-low heat loss – Lightweight stainless steel construction minimizes liquid nitrogen consumption.

Vacuum blade connections – Reduces liquid nitrogen leakage.

Modular design – Enables easier maintenance, flexible pipeline adjustments and system expansions.



Advantages

Saving Space – Eliminates the need for vacuum pumps, avoiding the requirement for a separate pump room, freeing up space, and reducing labor allocation.

Enhancing Safety – Features a modular vacuum tube system equipped with safety valves and pressure relief valves, ensuring safe and reliable operation.

Easy Installation and Modification – Flexible, lightweight, and plug-and-play for effortless setup. Allows adaptable adjustments when on-site conditions change.

Future-Proof Expansion – The modular vacuum tube system enables seamless scalability, with any connection point accommodating future extensions.

Technical Data

	DN15	DN25
Inner Diameter	0.625 " (15.9mm)	1.25 " (31.8mm)
Outer Diameter	1.8 " (50.00mm)	2.6 " (66.0mm)
Hose Heat Loss	1btu/hr/ft(0.80watts/meter)	2btu/hr/ft(1.9watts/meter)
Connector Heat Loss	6btu/hr(1.5watts)	12btu/hr(3.5watts)
Max Pressure	200psi(13.8bar)	125psi(8.6bar)
Working Temperature	-196°C	
Material	SS304	
Testing Standard	Helium leak detection, vacuum retention, liquid nitrogen shock	

Standard Installation Diagram

