



Concept Group LLC

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Concept Group History

- 1970** Concept Group was founded as a precision CNC machine shop
- 1980s** Developed expertise manufacturing hermetic glass-to-metal seals
- 1990s** Expanded into vacuum insulation technology
- 2000s** Developed and patented Insulon Technology
- 2021** Launched standardized Insulon Vacuum Jacketed Hose product line

Management Team



Aarne Reid
Founder & CEO

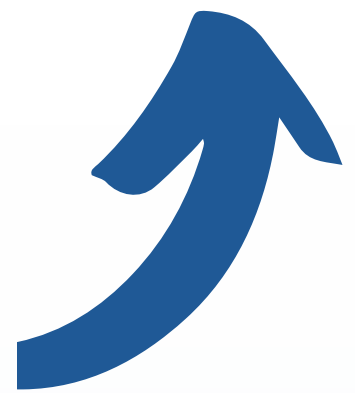


Ram Radhakrishnan
President



Dan Prall
COO

Engineering & Manufacturing Expertise



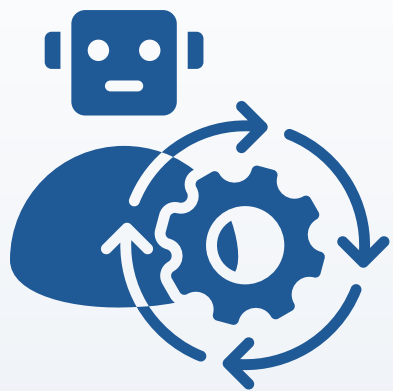
High volume manufacturing

Producing millions of parts every year



High precision manufacturing

Each part receives high attention to detail



Automated cells

Cells may be fully or semi-automated



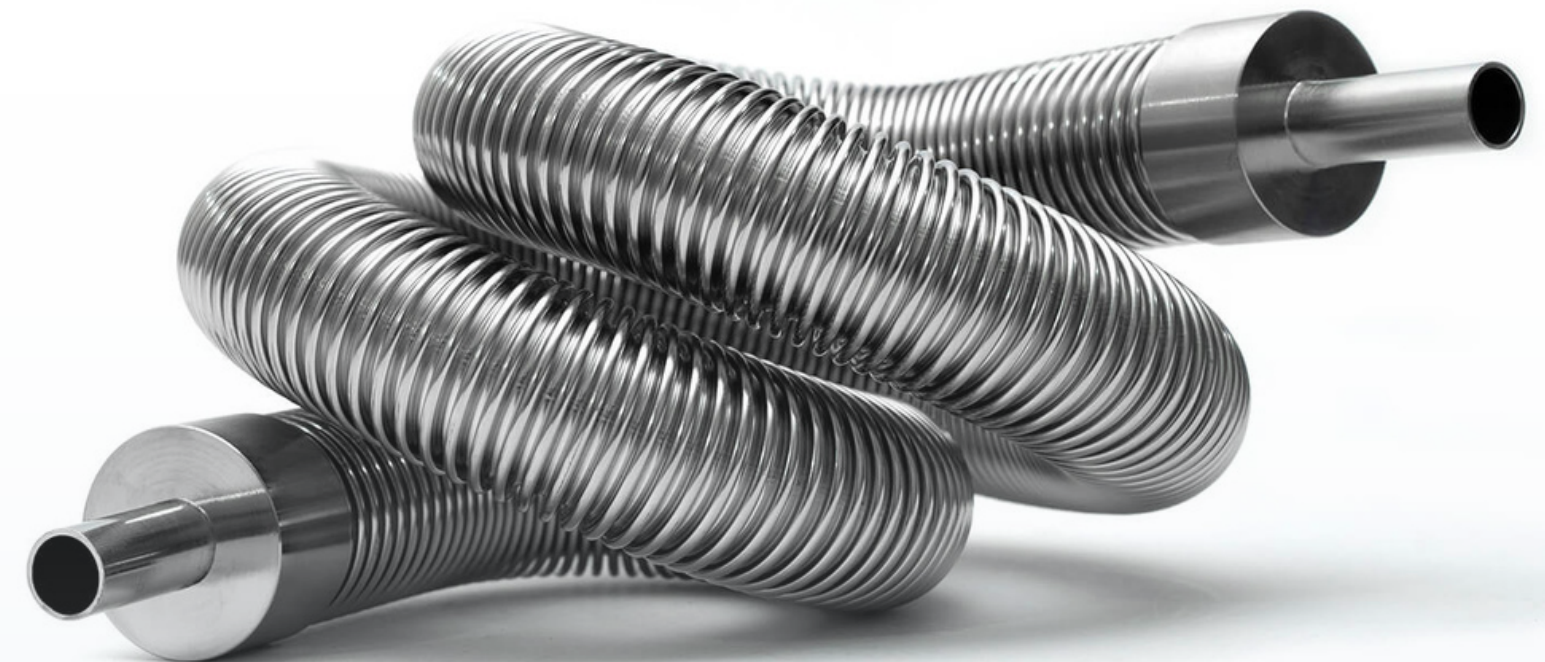
Expert quality control

Every part is double-checked by our quality control team

Insulon Vacuum Jacketed Hose

Product Overview

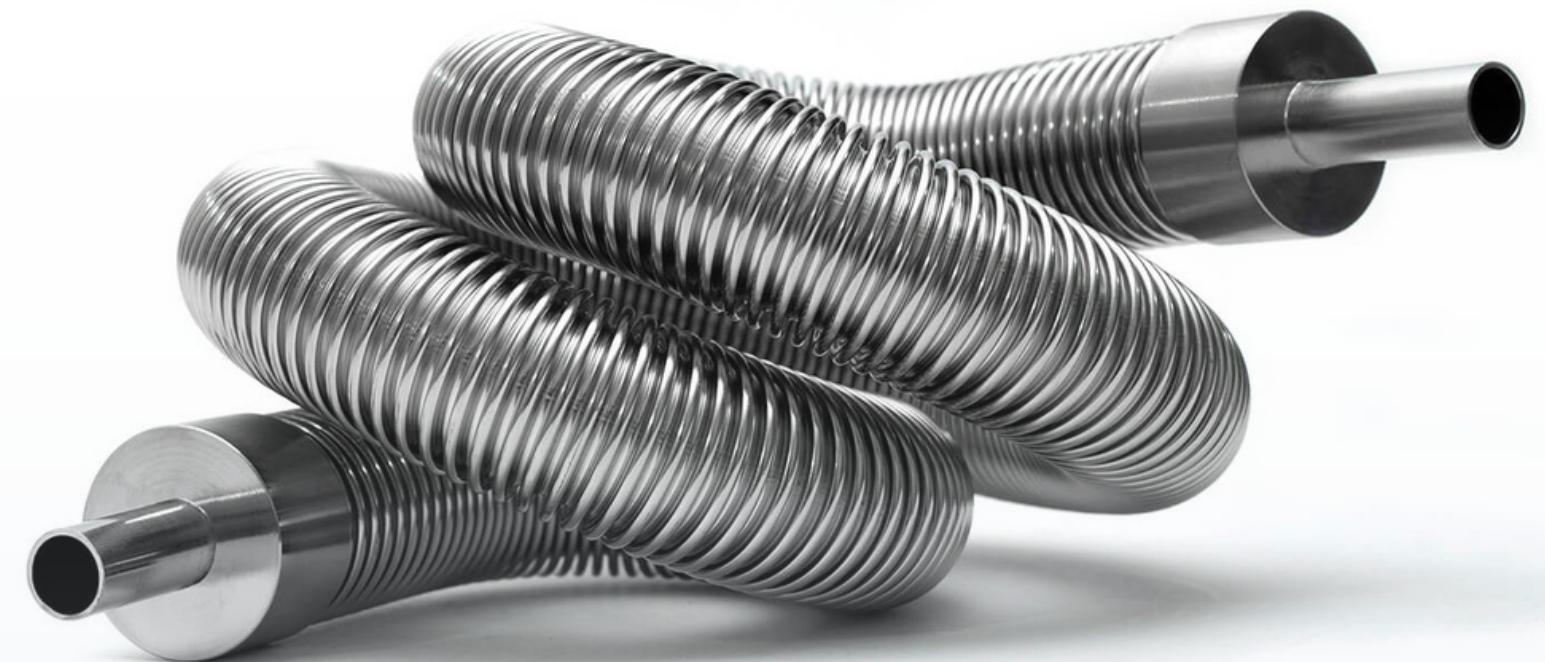
- Vacuum jacketed hoses engineered with Insulon Technology for fluid transfer applications from -270 to 900°C (-454 to 1652°F).
- Proprietary, advanced vacuum insulation technology
 - Zero pump-down maintenance
 - More compact, sleeker profile
 - No getters in the vacuum annulus
 - Hyper deep vacuum space with better resistance to thermal cycling
- Option to include proprietary, high-density multi-layer insulation (MLI).



Insulon Vacuum Jacketed Hose

Benefits for Semiconductor Fabrication

- Maximize productivity with faster time-to-temperature.
- Minimize downtime with zero pump-down maintenance.
- Minimize condensation for low- and ultra-low-temperature chillers.
- Improve temperature control for high-temperature carrier gases in deposition and other thermal processes.
- Cleanroom-compatible, inert materials (316L stainless steel)
- Reduce environmental impact by improving energy efficiency.





Thank You

To learn more, please visit us online at

conceptgroupllc.com