

# Internal Gas Traps

## Reduces Frosting When Equipment Is Not In Use

Internal gas traps are typically installed in vertical drops to liquid nitrogen use points with non-vacuum jacketed terminations. Rated at 150 psi (10 bar) for liquid nitrogen applications.

### Benefits

- **Reduction in Heat Leak:**  
When liquid nitrogen is not flowing, the heat leak of a non-vacuum jacketed termination is about 200 BTU/hr (59 watts). With an internal gas trap, the heat leak is reduced to about 0.5 BTU/hr (.1 watts).
- **Reduces Ice:**  
When liquid nitrogen is not flowing, your non-vacuum jacketed terminations will drip and form an ice ball. With an internal gas trap this ice ball disappears.

### How It Works

A gas trap fills the use point connection with gas instead of liquid nitrogen. The gas trap 'traps' a pocket of gas inside the line when the use point or the supply line is shut-off. The gas pocket prevents liquid nitrogen from reaching the non-vacuum jacketed tubing, allowing the connection to defrost when not in use.

