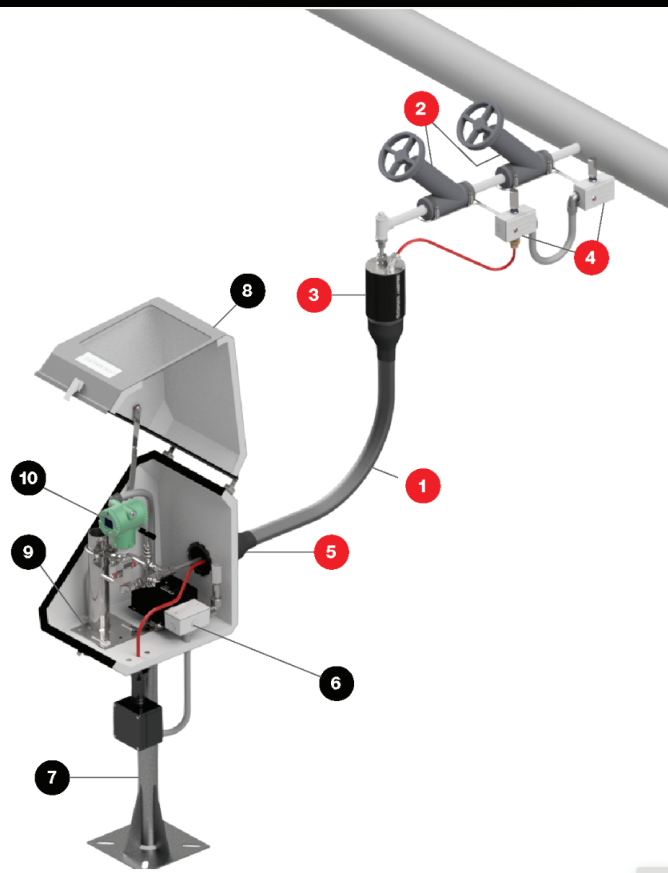
WARM LOOP WINTERIZATION DIAGRAM

This diagram shows a warm loop system which is a thermal management solution designed to maintain the temperature of instrument impulse lines, small-bore tubes that transmit pressure signals from process equipment to sensors or transmitters.

These systems are critical in environments where freezing, condensation, or temperature fluctuations can compromise measurement accuracy or damage instrumentation.



1. Heat Traced Tubing Bundle

O'Brien TRACEPAK® tubing bundle consists of a small diameter tube or group of tubes packaged in an insulated, weatherproofed jacket with steam or electric heat trace to provide freeze protection or temperature maintenance.

2. Strip Insulation (Not Shown)

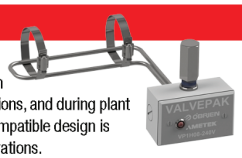
Strip insulation is designed to provide effective insulation for critical equipment on a temporary or emergency basis. It is durable, reusable and easy to install. It is used to wrap the valve bodies after VALVEPAK™ heaters are installed.

3. High Temp End Seal (HTES)

O'Brien's patented High Temperature End Seal (HTES) offers exceptional weather sealing for bundle ends, designed to withstand blow-down temperatures up to 1,100°F. Its versatile design accommodates various tubing and tracer configurations, while the integrated heat shrink flange ensures easy installation and superior weather protection.

4. Valve Heaters

VALVEPAK™ heating solution provides freeze protection for root valves and steam isolation valves during low ambient conditions, and during plant shutdown periods. The versatile, highly compatible design is available in single or dual heater configurations.



5. Entry Seals

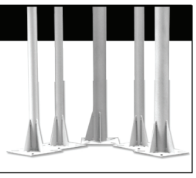
Waterproof entry seals have a heat-shrinkable boot at one end and a mounting assembly at the other. They mount directly to the wall of the enclosure or can be supplied with optional plates.

6. Enclosure Heater

T-series heaters are approved for use in hazardous and general purpose/safe areas. They provide freeze protection and temperature maintenance for field mounted instrumentation.

7. Enclosure Stand

SADDLEPAK® modular instrument stands can be as simple as a pipe stand or as complex as a multi-transmitter rack mount. Specialized components available for mounting to columns, beams and process lines.



8. Instrument Enclosure

The VIPAK® enclosure system winterizes process instruments and protects them from corrosion and abuse. Enclosures can be combined with a wide selection of mounts, brackets, and heaters to create customized packages that suit each application.

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9. Mounting Kit
(Mount & Bracket Components)

Mounting kits are easy-to-order combinations of standard mount and bracket components, compatible with various enclosure styles and sizes.

10. Factory Installation

Configurations will depend on the specifications and the level of installation the customer requires. We can install as much or as little as needed in the enclosure

Why Choose Ametek O'Brien For Your Winterization Projects?

O'Brien winterization solutions are engineered for reliability, performing consistently even in the harshest conditions.

matters—keeping your operations running smoothly.

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