

TANKS AND VESSELS FREEZE PROTECTION IN HAZARDOUS ENVIRONMENTS

A cost-effective and simple way to reduce viscosity and protect against cold weather in hazardous-area locations

Application

Petrochemicals are chemical products derived from petroleum sources. Some of these chemicals are obtained from resources such as coal, natural gas, corn, or even sugar-cane. The two most common petrochemical classes are olefins and aromatics and they are the building blocks used to manufacture a wide range of everyday materials such as solvents, detergents, adhesives, plastics, resins, fibers, elastomers, lubricants, and gels. Throughout petrochemical processing plants, there are many chemicals and gases kept in storage tanks. Unfortunately, petroleum-based chemicals can thicken or freeze and are difficult to work with at lower temperatures, which could lead to clogging or starving production areas. To complicate matters, these chemicals are often processed and stored in hazardous-area locations and therefore require hazardous-area rated heating products.

Solution

BriskHeat SRX hazardous-area silicone blankets are rated for Class 1 Divisions 2 Groups A, B, C, and D locations, and can prevent viscosity or freezing problems caused by cold weather for chemicals stored in tanks and vessels. They can be symmetrically attached to the outside of tanks using built-in, pressure-sensitive adhesive (PSA). SRX blankets are constructed with extra layers of silicone, high-limit thermostats, and conduit fittings at lead exit points for added safety. Additionally, they have an ingress protection rating of IP54 so they are suitable for outdoor use. A hazardous-area rated temperature controller is required for use with SRX heating blankets and BriskHeat offers temperature controller options depending on the specific requirements of the applications.

The TB110 series Hazardous-Area Bulb & Capillary temperature controller can be used with the SRX heater to set the temperature required by your process. It can be used for applications up to 650°F (343°C).

Insulation is always recommended to maximize heat and energy efficiency. BriskHeat's Silver-Series 2 removable cloth insulators provide the perfect combination of easy installation and thermal efficiency. They are quickly installed and easily removed for convenient, maintenance access. They are constructed of a durable and moisture-resistant, polymer-coated cloth to suit a wide variety of applications. For applications with temperatures less than 220°F (104°C), Insul-EZ adhesive-backed insulation sheets can be used on flat or large diameter surfaces to reduce heat loss.

Additional Uses

SRX hazardous-area silicone heating blankets are often commonly used as enclosure heaters for control panels located in hazardous areas.



Industries

Chemical Processing/
Extractions
Energy/Power Generation
Gas & Oil

Heavy Industry/Mining
Manufacturing
Water/Wastewater
Treatment

Types of Users

Facilities Maintenance
Production Managers

Plant Managers
Process Engineers