

# FreezeFree<sup>®</sup>

## Fixed Anti-Icing Spray System

### Overview

FreezeFree is a Fixed Anti-Icing Spray Technology (FAST) system that delivers anti-icing liquids to the roadway in a timely manner. The application of chemical prevents snow, ice and frost from forming a bond to the pavement. The system consists of a pump house for storing liquid chemical and housing the electrical pump system and computer-based controller, electrical and fluid conduits to deliver power, communications and chemicals through the system, and valve and nozzle assemblies that directly apply the chemical to the roadway surface.

FreezeFree is ideal for bridges, winter weather trouble spots or remote locations where quick action is needed to keep roadways from freezing. FreezeFree delivers anti-icing chemicals at the appropriate time and keeps roadways clear of frost or black ice. It also assists winter maintenance crews during snow removal operations because the anti-icing application prevents snow/ice from bonding to the pavement so that it can be more easily removed.

FreezeFree can be activated manually or automatically and offers a timely response when conditions warrant. The FreezeFree system is scalable in size and can cover multiple lanes of traffic using flush and side-mount spray nozzles. Multiple mounting options for components such as valve box assemblies and spray nozzles allows for system customization and easy installation.

### Benefits

- ▶ Improves safety of roads and bridges
- ▶ Provides a timely response for winter maintenance
- ▶ Cost effective
- ▶ Safer for the environment (uses a targeted amount of anti-icing chemical and less material overall per season)

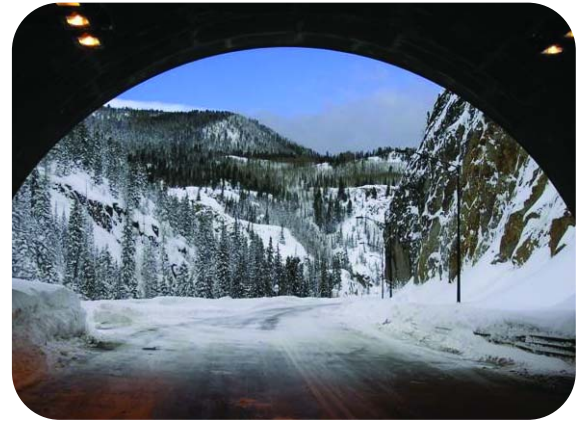
### Applications

- ▶ Bridges
- ▶ Tunnels
- ▶ Ramps or other elevated roadways
- ▶ Dangerous curves
- ▶ Remote roadway locations or winter weather trouble areas
- ▶ Parking structures



## Features

- ▶ Effectively protects the road or bridge from freezing
- ▶ Prevents the formation of an ice bond to the pavement
- ▶ Proven to reduce winter weather-related accidents
- ▶ Adapts to local design and environmental requirements
- ▶ Components are non-corrosive and long-lasting
- ▶ System can be viewed and controlled with your RWIS software
- ▶ Remote and self-diagnostic capabilities
- ▶ Backed by full engineering and service support
- ▶ System is scalable for length and lane coverage and system can be adapted to accommodate large or small installations

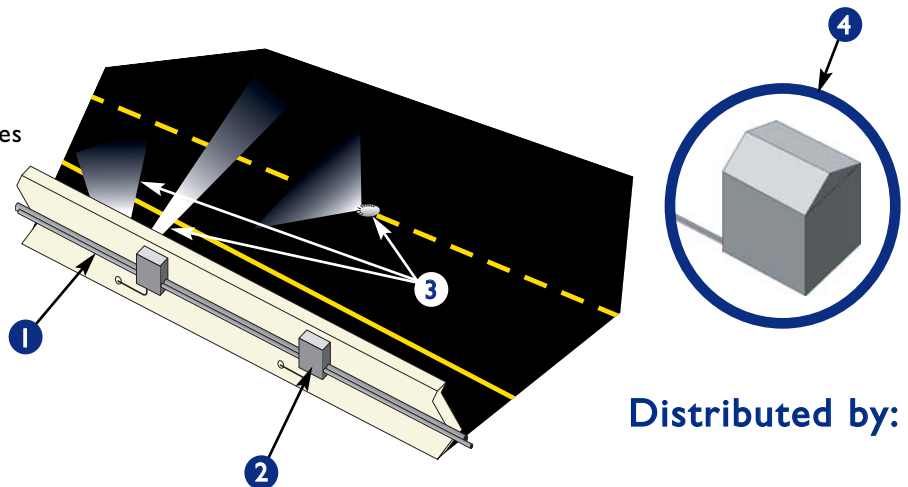


## Key Specifications

Control Mechanism	Microprocessor-based system controller
Operating Temperature	-40°F to +140°F (-40°C to +60°C)
System Power	220 and 110 VAC/60 Hz
Communications	RS-485 protocol
Activation Methods	Manual: Push button on/off at the site or remotely using a phone or PC Automatic: Active pavement sensors or through RWIS
Pavement Sensors	Fully integrates with in-pavement active and passive sensors or non-intrusive sensors
Spray Routines	16 condition-specific programmable routines
Chemical Compatibility	Effective with all standard anti-icing agents
Interfaces	Fully RWIS compatible

## System Components

- 1 Fluid and electrical conduits
- 2 Individually addressed valve control assemblies
- 3 Flush and side mounted nozzles
- 4 Pump house assembly



Distributed by:



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