

FREEZEFREE[®] ANTI-ICING SYSTEM



OVERVIEW

The Energy Absorption Systems, Inc. FreezeFree System utilizes Fixed Anti-Icing Spray Technology (FAST) to deliver anti-icing agents that prevent snow, ice and frost from forming a bond to a road surface. The FreezeFree System consists of a pump house assembly containing a holding tank, an electrical pumping system and a computer-based controller. Conduits carry power, communications, and chemicals to a number of valve box assemblies that control delivery of the material to spray nozzles strategically placed throughout the system. Flexible design allows the FreezeFree to be activated in a number of ways:

- ▶ On-site via push button.
- ▶ Remotely through phone or PC link.
- ▶ Automatically using active and passive sensors or an integrated Road Weather Information System (RWIS).

Additionally, 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 allow for system customization and easy installation.

FEATURES AND BENEFITS

- ▶ Improves safety of roads and bridges.
- ▶ Protects the environment from chemical pollution.
- ▶ Saves labor and maintenance costs for highway authorities
- ▶ Backed by full engineering and service support.
- ▶ Adapts to local design and environmental needs.
- ▶ Easily installed.
- ▶ System performs self-diagnostics.

APPLICATIONS

- ▶ Bridges
- ▶ Roads
- ▶ Ramps
- ▶ Tunnels
- ▶ Dangerous Curves



ENERGY ABSORPTION
SYSTEMS, INC.



SAVING LIVES BY DESIGN

FULLY CUSTOMIZABLE

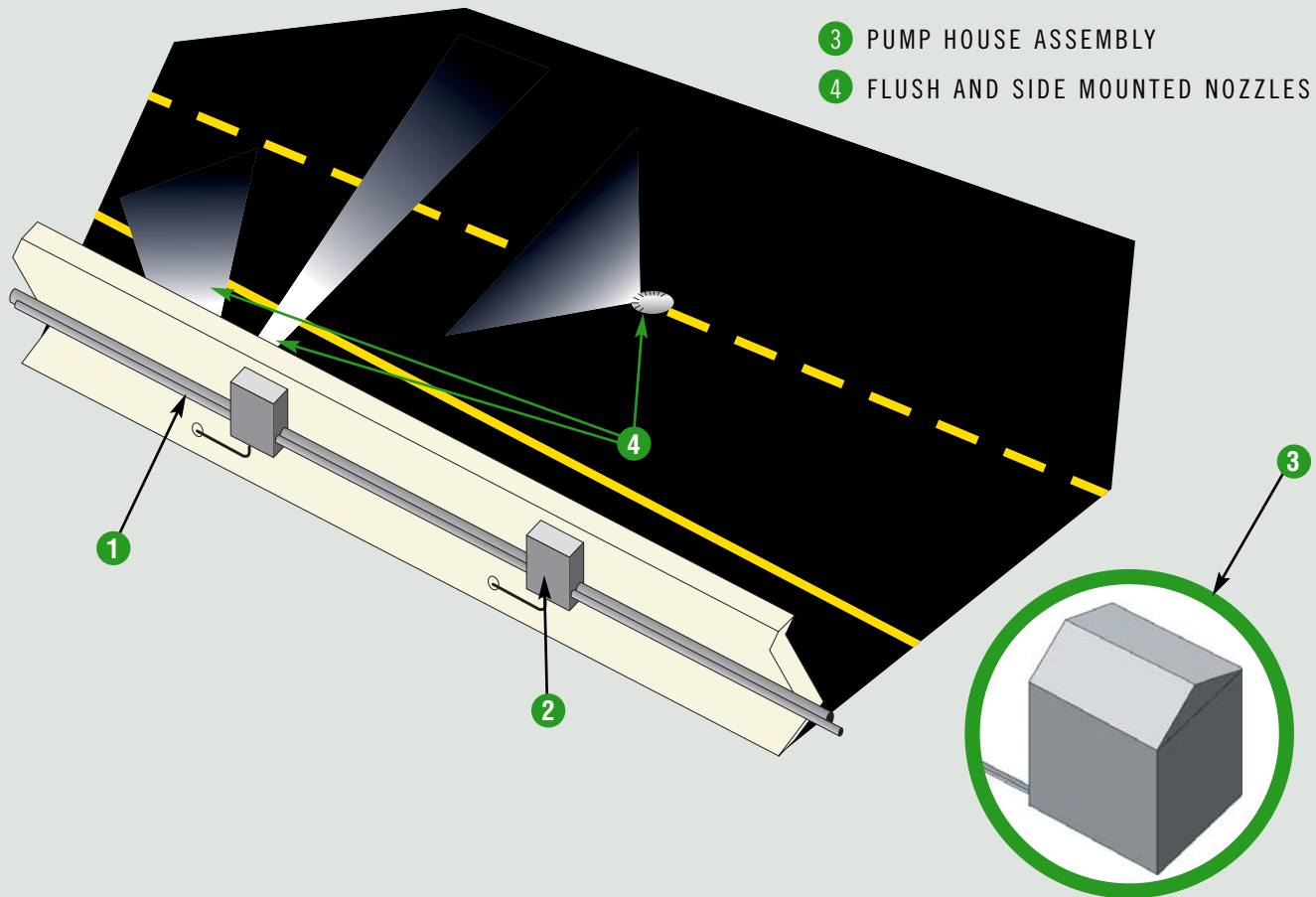
Choose from a wide variety of optional features:

- ▶ Multiple valve assembly and spray nozzle configurations available.
- ▶ Choose automatic activation via pavement sensors and/or RWIS. Choose manual activation locally or remotely through PC, phone or pushbutton
- ▶ System is scalable for length and lane coverage and system can be adapted to accommodate large or small installations.

SPECIFICATIONS

Control Mechanism	Microprocessor-Based System Controller
Operating Temperature	-40°C to 60°C (-40°F to 140°F)
System Power	220 and 110 VAC/60Hz
Communications	RS485 Protocol
Pavement Sensors	Fully-Integrated Active and Passive Sensors
Spray Routines	16 Condition-Specific Programmable Routines
Chemical Compatibility	Effective with all standard anti-icing agents
Interfaces	Fully RWIS compatible

- 1 FLUID AND ELECTRICAL CONDUITS
- 2 INDIVIDUALLY ADDRESSED VALVE CONTROL ASSEMBLIES
- 3 PUMP HOUSE ASSEMBLY
- 4 FLUSH AND SIDE MOUNTED NOZZLES



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General specifications for the FreezeFree System are subject to change without notice to reflect improvements and upgrades. Additional information is available in the Product Manual for this system. Contact Energy Absorption Systems for details.