# LiquidSystems

## Designed to withstand the harshest winter conditions





**Liquid | Pre-Wet**



**Liquid | Anti-Ice**



**Liquid | Dust Control**

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# Liquid | Pre-wet Systems

Pre-wet - Application of a liquid chemical ie. Salt brine, calcium chloride, magnesium chloride, etc. to a granular material.

### Why Pre-wet?

1. Faster reaction time to start the brine process.
   - In order for the rock salt to break down, it must have moisture.
2. More material stays on road surface where spread.
   - Test results from many states show that on average, 30% of dry salt is lost off the road surface upon application.
3. Allows you to use less product.
   - Salt that has been pre-wetted has a loss rate of 4% on average.



## Components of a Pre-wet System



**Tanks** - Available in many different volumes and shapes. Poly tanks have integrally molded threads, baffles and slosh guards for the lid



**Pump** - Hydraulic or Electric Displacement is typically from 3-10 gallons per minute.



**Nozzles**



**Plumbing Fittings**



### Open Loop vs. Closed Loop

Closed Loop has a flow meter installed in the plumbing to measure flow. The flow meter emits electrical pulses that are received by a ground speed controller. The control monitors the amount of pulses relative to granular product dispensed.

Open Loop does not contain a flow meter. It may be driven off of the exhaust oil of the conveyor so that as the conveyor speeds up the pre-wet pump also increases. This keeps your ratio of granular to liquid equal.

*Photo shows tank configuration of 940 total gallons (540 on body and 400 behind cab)



**Tailgate Mounted Pre-wet System**
75-180 gallons
100 gallons shown in photo



**Behind the Cab Pre-wet System**
120-400 gallons
240 gallons shown in photo



**1500 Gallon Insert Tanks**



**V-Box with Pre-wet System**



**In-Bed Tank Pre-Wet System**
526 or 960 gallons



**Fender Mounted Pre-wet System**
75-270 gallons per side
150 gallons per side shown in photo
Tanks are custom sized to fit body

# Liquid | Anti-Icing

- 200-5000 Gallon Baffled Tanks
- 20-60 Gallon per Lane Mile; 1-3 Lanes
- USA Made Glass Filled Poly Fittings with Manifold Style Connections
- Right Hand, Left Hand and/or Center Lane Applicators
- Stainless Steel Spray Bars
- Stainless Steel Filter Screen
- Directable Side Nozzles
- Quick Attach Nozzles
- Application Rates up to 55 MPH
- Dump Body Slip-In, Chassis Mounted, Trailer Mounted, or Hook Loader Units Offered
- Hook Loader Mounted Units Offered
- Self-Storing/Unloading Skid System (Optional)
- Reduce Overall Winter Operation Costs
- Use Less Rock Salt
- Get the Pre-Treating Advantage on Fighting a Storm
- Environmentally Friendly
- SHRP (Strategic Highway Research Program) Tested Technology













**Flush & Dust Capable**



**Semi Trailer Anti-Ice**

# Liquid | Roadside Vegetation



**2700 Gallon Flusher System w/ Removable Rear Skid**

## Equipped with 1 to 4 Chemical Injection System

### Features:

- Tanks:
- Carrier Tanks 500-3000 Gallon
- Chemical Tanks 30-85 Gallon
- Color Coded Chemical Lines
- Stainless or Cast 190GPM Chemical Pump
- 500-700GPM Flusher Pump
- Load Sensing Hydraulic System
- Raven 4600/4400 Control Console
- Closed Loop Flow Meters
- GPS/Radar Ground Speed
- Data Collection with Mapping Capabilities



**1300 Gallon, 4 Product Injection System with Sign Board Option**



**1000 Gallon System w/ Removable Skid**



**2700 Gallon Unit**



**Pressure Regulator For Spray Head**





**Spray Head: Front, Mid or Rear Mounted.**
**Multi-Zone Spray Load with 30º Linear Actuation**
**Tilt to Follow Ground Contour.**



**Guard Rail Underbody Spray Booms**
**Manual or Power Height Adjustable**
**Optional Spot Light Shown**

## Street Flusher System





## 4 Locations to Serve You

**Monroe, WI**

**Marshfield, WI**

**De Pere, WI**

**Joliet, IL**







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**800-880-0109**

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## Advice, spare parts and service


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