Liquid Systems

Innovative. Efficient. Effective.



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Stay Ahead of the Storm with Swenson Anti-Icers.

Swenson anti-ice and pre-wet equipment helps keep winter roads safe by preventing the formation of snow and ice, prior to a storm. Designed to pretreat areas that need to remain open during extreme winter weather, anti-icers are used to apply liquid that prevents snow and ice from bonding to the pavement. This is a benefit to contractors and municipalities, lowering the amount of material and manpower needed to clear the area later on, when the storm hits. The result is greater road safety at a much lower cost. Swenson offers a wide variety of anti-ice and pre-wet equipment for every area you need to keep clear – parking lots, city streets and bridges, country roads or multi-lane highways, sidewalks and driveways.







Choosing the right Swenson Anti-Icer for you.

Swenson manufactures anti-ice systems for every size truck and spreader. Matching them to the application is easier than ever.

Using the chart below, find the truck size and type of spreader you use to see which Swenson anti-ice unit will work best and what results to expect.

VEHICLE APPLICATION GUIDE		PV		MDV		SINGLE AXLE		TANDEM AXLE		THE COMBO	
		PRE-WET TANKS	ANTI-ICE	PRE-WET TANKS	ANTI-ICE	PRE-WET TANKS	ANTI-ICE	PRE-WET TANKS	ANTI-ICE	PRE-WET TANKS	ANTI-ICE
TRUCK CLASSIFICATION	Class 2 (6,001 to 10,000 GVW)	X	X								
	Class 3 (10,001 to 14,000 GVW)	X	X								
	Class 4 (14,001 to 16,000 GVW)	X	X	X	X						
	Class 5 (16,001 to 19,500 GVW)			X	X						
	Class 6 (19,501 to 26,000 GVW)			X	X	X	X				
	Class 7 (26,001 to 33,000 GVW)					X	X			X	X
	Class 8 (33,001 + GVW)					X	X	X	X	X	X
APPLICATION, CAPACITIES AND WEIGHTS	Maximum application rate	40 gals/lane mile @ 40 mph		40 gals/lane mile @ 40 mph		70 gals/lane mile @ 40 mph		70 gals/lane mile @ 40 mph		70 gals/lane mile @ 40 mph	
	Lane coverage	1		1 (Boom extension optional)		3		1		3	
	Typical applications	Parking lots, driveways, intersections, alleys		Parking lots, driveways, intersections, alleys, short sections of road		Parking lots, intersections, highways		Parking lots, intersections, highways		Parking lots, intersections, highways	
	Liquid capacities	295 gallons		550 gallons		1,000 gallons		1,650 gallons		1,100 gallons	
	Granular capacities	2.0 cu. yards		3.5 to 4.5 cu. yards		4.3 to 17.5 cu. yards		4.3 to 17.5 cu. yards		6.7 or 9.2 cu. yards	
	Weights, empty	605 lbs		780 lbs		1500 lbs		2600 lbs		6700 lbs	
	Weights, full	3,555 lbs		6,280 lbs		11,500 lbs		20,600 lbs		32,500 lbs	
SPRAY & NOZZLE CONFIGURATION	Pump rating	40 gpm @ 40 psi		60 gpm @ 40 psi		210 gpm @ 40 psi		210 gpm @ 40 psi		210 gpm @ 40 psi	
	Spray nozzle type	Variable orifice		Variable orifice		Stream nozzles		Stream nozzles		Stream nozzles	
	Number of nozzles	2		2		2		12		12	
	Adjustable Nozzle	Yes		Yes		Yes		Yes		Yes	
	Adjustable Spray Bar	Yes		Yes		Yes		Yes		Yes	
OPERATING SYSTEM	Drive	5.5 hp Honda engine (hydraulic optional)		5.5 hp Honda engine (hydraulic optional)		Hydraulic (requires central hydraulic system)		Hydraulic (requires central hydraulic system)		Hydraulic (requires central hydraulic system)	
	Control System	Manual adjustment		Manual adjustment		Requires 3rd party electronic control system		Requires 3rd party electronic control system		Requires 3rd party electronic control system	
OTHER FEATURES	Self-storing leg stand	Yes		Yes		Yes		Yes		Yes	
	Light bar	Yes		Yes		Yes		Yes		Yes	
	50 foot spray reel	Optional		Optional		Optional		Optional		Please contact factory for custom configurations	
	300 foot spray reel	Optional		Optional		Optional		Optional			
	Electric start	Optional		Optional		N/A		N/A			

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MAI/LAI

Medium/Large Anti-Ice Systems



Specifications

Dimensions	6 ft. wide height adjustable spray bar (200+ gallons)
Capacity	**MAI** – 535 gals **LAI** – 1,000/1,300/1,600/1,800 gals
Weight	**MAI** – 780 lbs. **LAI** – 1,000 gals: 3,000 lbs. empty 1,300 gals: 3,200 lbs. empty 1,600 gals: 3,600 lbs. empty 1,800 gals: 3,800 lbs. empty
Construction	Thermoplastic tanks with carbon and stainless steel frame and leg stands
Drive	6.5 hp Honda gas engine with electric start or hydraulic drive
Spread Width	1–3 lane coverage
Application Rate	70 gallons per lane @ 40 mph
Safety Features	Integrated light bar
Warranty	1 year warranty
Options	50 ft. hose with reel, flow meter, ladder, catwalk, booms, spray guns

Highlights

- Designed to meet the needs of government agencies and large scale landscapers.
- Ideal for pretreating highways, intersections and parking lots before a snow or ice event.
- UV protected thermoplastic tanks are maintenance-free.
- Includes internal baffles and flow meter.
- Hydraulic liquid pump can be hooked to your hydraulic system.
- Adjustable spray bar will work on various truck bed heights.
- Available with fan spray or streamer nozzles for multiple application types.
- In-line check valves reduce excessive dripping from the nozzles.
- Rapid discharge port allows you to quickly empty tanks without going through the spray bars.
- Self-storing and loading leg stands
- All frame components are powder-coated for corrosion resistance.
- Accepts third party electric controls for use on any truck.

Materials

Salt Brine
Liquid Calcium Chloride
Liquid Magnesium Chloride



Large integrated spray boom provides 1-3 lane coverage with just one pass.



High volume pump connects directly to your existing hydraulic system making installation quick and easy.



Electronic ball valves close quickly and completely eliminating excessive nozzle dripping.

PAI

Anti-Ice System for Pickups



Space-saving tank design leaves room for additional bagged materials.

Specifications

Dimensions	6 ft. wide height adjustable spray bar (200+ gallons)
Weight	605 lbs. empty/3,555 lbs. full
Capacity	100, 200, 300, 400 gallons
Construction	Thermoplastic tanks with stainless steel engine plate and boom cover
Drive	6.5 hp Honda gas engine with electric start
Spread Width	Single lane
Application Rate	15 to 160 gallons per acre (GPA)
Safety Features	Lockable lid, curbside mounted hose reel
Warranty	1 year warranty
Options	150 ft. or 300 ft. hose with manual or electric reel

Highlights

- Space-saving tank design leaves room to carry additional bagged material.
- 100-400 gallon capacities available
- 6.5 hp electric gas engine
- Wireless remote operation eliminates running cable through the firewall, and provides simple operation of your sprayer from the comfort of your cab.
- Hitch mount, single lane boom
- Jet tank agitation keeps your liquid mixed at all times.
- 5 nozzle ports with 3-way adjustable nozzles give unlimited spray patterns and application rate.
- Stainless steel boom cover protects the spray bar and is maintenance free.
- Curbside mounted hose reel allows you to spray sidewalks without stepping into traffic.
- Hoses available in 150 and 300 ft. lengths with manual or electric reels.
- Adjustable spray gun with interchangeable nozzle tips provides spray flexibility.

Materials

Liquid Calcium Chloride
Liquid Magnesium Chloride



Five hand-adjustable nozzles spray stream, fan and flood patterns for complete lane coverage.



Curbside mounted hose reel makes spraying walks and steps easy and safe.



Wireless remote lets you control all of the functions from the comfort of your cab.

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The Combo

Liquid/Granular Spreader



Three electric valves for three lane application



Specifications

Dimensions	10 ft. – 84 in. cab to axle 14 ft. – 108 in. cab to axle
Weight	6,700 lbs. empty/32,500 lbs. full
Capacity	**Granular**: 6.7 or 9.2 cu. yds. **Liquid**: 400 (2x200) or 800 (2x400) gallons
Construction	10 ga. carbon stell with 7 ga. longitudinals 12 ga. stainless with 10 ga. longitundinals Thermoplastic tanks
Material Movement	Conveyor drive, dual auger available
Pump Ratings	Anti-Ice – 201 gpm, flow rate 1,500 psi @ 22 gpm Pre-Wet – 7 gpm @ 1,750 rpm
Spread Width	**Granular**: 4 ft. – 40 ft. **Liquid**: 1–3 lanes
Application Rate	70 g/lnmi @ 40 mph
Safety Features	Integrated light bar
Warranty	1 year warranty
Options	Stainless steel leg stand

Highlights

- Effective de-icing of a granular hopper spreader with the advantages of an anti-ice sprayer, all in one unit
- Designed for tandem axle trucks 33,000 lbs.+ GVW
- Available in 10 and 14 ft. lengths
- Independent three lane coverage
- LSSH pre-wet system
- Boom design for streamer nozzles
- Standard spreader hydraulic requirements
- Includes flow meter (control system required)
- 207 gpm hydraulic driven pump
- Factory ready to accept servo control systems
- LED ICC light bar
- Integrated self-storing leg stand system
- Accepts more tanks for expanded liquid capacity

Materials

- **Granular**
  - Rock Salt
  - Calcium Chloride
  - Magnesium Chloride
  - Treated Rock Salt
  - Clear Path Ice Melt
- **Liquid**
  - Salt Brine
  - Calcium Chloride
  - Magnesium Chloride



Flow meter provides precise control of output.



Ladder grants access to visually inspect the spreader.



Choosing a Pre-Wet System.

The biggest advantage of pre-wetting is savings in salt usage.

Pre-wetting, or spraying granular salt with a liquid chemical before spreading, makes the salt more effective in two ways: 1) wet salt sticks to the roadway, and 2) salt needs moisture to start the de-icing process. When temperatures are below freezing, wet salt melts ice and snow faster than dry salt.

Pre-Wet Application Guide

The typical application would be pre-wetting granular material (salt) to increase yield and minimize material loss.

	SPREADER TYPE	PV Pre-Wet Tanks	MDV Pre-Wet Tanks	V-Box Pre-Wet Tanks	Tailgate Pre-Wet Tanks	APB Pre-Wet Tanks
TRUCK CLASSIFICATION	Class 2 (6,001 to 10,000 GVW)	X				
	Class 3 (10,001 to 14,000 GVW)	X				
	Class 4 (14,001 to 16,000 GVW)	X				
	Class 5 (16,001 to 19,500 GVW)		X			
	Class 6 (19,501 to 26,000 GVW)		X		X	
	Class 7 (26,001 to 33,000 GVW)			X	X	X
	Class 8 (33,001 + GVW)			X	X	X
LIQUID CAPACITY AND WEIGHT	Liquid capacity	Two 15 gallon tanks	Two 30 gallon tanks	One 135 gallon tank	One 135 gallon tank	Customizable
	Weight, empty	118 lbs	157 lbs	600 lbs	600 lbs	varies
SPRAY & NOZZLE CONFIGURATION	Required Pump	Electric pump included	Electric pump included	LSSE (electric) or LSSH (hydraulic)	LSSE (electric) or LSSH (hydraulic)	LSSE (electric) or LSSH (hydraulic)
	Pump Rating	3 gpm at 50 psi	3 gpm at 50 psi	Electric: 3 gpm at 50 psi Hydraulic: 7 gpm at 50 psi	Electric: 3 gpm at 50 psi Hydraulic: 7 gpm at 50 psi	Electric: 3 gpm at 50 psi Hydraulic: 7 gpm at 50 psi
	Number of nozzles	2	2	LSSE (electric) - 2 LSSH (hydraulic) - 4	LSSE (electric) - 2 LSSH (hydraulic) - 4	LSSE (electric) - 2 LSSH (hydraulic) - 4
	Nozzle type	Variable orifice	Variable orifice	Electric - variable orifice Hydraulic - variable orifice	Electric - variable orifice Hydraulic - variable orifice	Electric - variable orifice Hydraulic - variable orifice
	Adjustable spray bar	Yes	Yes	Yes	Yes	Yes
OPERATING SYSTEM	Drive	12v electric	12v electric	12v electric or hydraulic	12v electric or hydraulic	12v electric or hydraulic
	Control system	Variable speed in-cab controls	Variable speed in-cab controls	Variable speed in-cab controls	Variable speed in-cab controls	Variable speed in-cab controls



Aebi Schmidt North America

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TELEMET
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Telemet · Office in Chile

Los Canteros 8723, La Reina, Santiago 7880414, Chile

Phone +56 22 356 2735

info@telemet.com

telemet.com