

# OVERHEAD SPRAY SYSTEM

OSS SERIES



GVM's **Overhead Spray Systems** (OSS) are multifunction liquid deicer dispensing systems designed to pre-wet truck loads of solid de-icing materials. Pedestal Pre-Wet Systems allow users to pre-wet multiple truckloads with only one dispensing system. Pedestal systems are also capable of loading and unloading truck-mounted pre-wet tanks, returning the de-icing liquids to bulk storage tanks, and draining tanks for end-of-season maintenance.

## Included with System

- Adjustable height spray bar
- Centrifugal pump, rated flow up to 110 GPM
- Hot dip galvanized steel to meet ASTM specification A123 on base, main body and spray arm
- Electric ball valve to prevent tank siphoning
- Dusk-to-dawn light
- Tank Plumbing to Dispensing Package
- Post-mounted control box
- Hand Crank

## Options

- Available in two models: OSS-50-RC and OSS-101
- Fixed base or freestanding systems
- Storage tank sizes: 300-20,000 gal.
- Linear actuator for mechanical spray arm adjustment
- Remote control for ease of operation



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# OVERHEAD SPRAY SYSTEM

		OSS-50-RC	OSS-101
<b>Dimensions</b>	Height	10 ft 3 in.	21 ft 4 in.
	Buried Depth	–	2 ft
	Spray Arm Height	9 ft 3 in.	14 ft 5 in. - 17 ft 5 in.
	Spray Head (distance from pivot)	7 ft 6 in.	9 ft
	Pedestal Base	36 x 36 x 3.5 in. (L x W x H)	–
<b>Spray Arm</b>	Height Adjustment	Manually controlled hand winch, rated at 800 lb	
	Maximum Height over Truckloads	12 ft 6 in.	18 ft 8 in.
	Construction	1-½ in. galvanized steel pipe	
	Plumbing Material	Flexible PVC hose	
<b>Spray Head</b>	Construction	1-½ in. schedule 80 PVC	
	Nozzles	(4) brass nozzles, spaced at 15 in. interval, can be configured to meet specific needs	
	Spray Pattern	Rectangular, controlled by 1-½ in. poly ball valve connected to the inlet of the spray head	
<b>Pump and Motor Assembly</b>	Pump Style	Centrifugal, 2 in. inlet, 1-½ in. outlet	
	Maximum Flow Rate	110 GPM	
	Motor Type	2 hp, 3450 rpm, TEFC 208-230 V single phase	
	Motor Housing	304 stainless steel cover plate	
	Motor Wiring	Enclosed in LIQUITIGHT flexible conduit with LIQUITIGHT connectors at both ends	
<b>Electric Controls</b>	Housing	Fiberglass NEMA 4X weathertight enclosure with hinged lid, stainless steel hinged, and stainless steel lockable latch	
	External Controls	Power disconnect switch, multiple setting timer, and run/stop buttons for manual operations, located on housing cover	
	Internal Controls	Magnetic motor starter with thermal overload reset, terminal strip, relays, timers, transformer, remote control circuit board (optional), and power disconnect switch	
	Spray Cycle	0 - 120 seconds	2 - 60 seconds
	Recirculation Cycle	30 - 120 minutes	
	Electric Service	Customer supplied, 220 V, 30 amp, single phase required	
	Electric Ball Valve	Required when the storage tank height exceeds 10 ft to prevent siphoning through the system when the storage tank level exceeds the spray bar height. The valve automatically opens when the pump system is activated and closes when the pump shuts off.	
	Work Light	4500 Lumen LED light	
	<b>Plumbing</b>	Materials	All materials used have shown proven resistance to the corrosive effects of liquid de-icers
Load/Unload Hoses		(2) 1 in. x 25 ft rubber hose with 1 in. poly valves and quick couple connectors	
Valves		(2) poly 3-way valves provide directional flow to the overhead spray or load/unload hoses	
Hose Clamps		Stainless steel	
Serviceability		Manifold style fittings are used for many connections for quick and easy maintenance	
<b>Options</b>	Tank Plumbing Package	Tank to Dispensing System includes: 2 in. stainless steel tank shutoff valve, 2 in. x 15 ft flexible PVC hose with fittings, from tank to pump suction, 2 in. poly 3-way ball valve with truck fill quick couple for filling bulk storage tank from bulk delivery truck, stainless steel hose clamps, poly hose barb fittings, 1 in. x 10 ft hose with fittings, coupling, and valve for connection of unloading hose to storage tank.	
	Linear Actuator	Enables overhead arm to move up and down mechanically, controlled by a two-button transmitter, to accommodate various size trucks with one pump time cycle.	
	Automatic System	Enables the arm to move up and down mechanically, controlled by a three-button transmitter, to accommodate various size trucks with two pump time cycles.	
	Remote Control	Wireless remote activates the overhead spray system	
<b>Warranty</b>	1 year, Bumper-to-Bumper		

