



Awarded Supplier Information

Supplier Name: Rush Truck Centers of
Oklahoma, Inc, DBA
Perfection Equipment

Supplier ID #: 0000064923

Supplier Address: 5100 W Reno

City: Oklahoma City

State: OK

Zip Code: 73127 -

Contact Person Name: Tony Hooper

Phone #: 1-405-947-6603

Title: Sales

Fax #: 1-405-948-1859

Email: hoopert@rushenterprises.com

Website: www.perfectionequipment.com

Authorized Location: ☐ Locations list attached as

☐ Address:

City:

State:

Zip Code:

Contract ID #: 4369

Delivery: FOB Destination

Minimum Order: n/a

P/Card Accepted: ☒ Yes

Original Signature on File

☐ No

Other:



CONTRACT

State of Oklahoma

Dispatch via Print

Supplier 0000064923
 RUSH TRUCK CENTER OKLAHOMA CITY
 8700 W I-40
 OKLAHOMA CITY OK 73128
 USA

Contract ID			Page	
0000000000000000000000004369			1 of 1	
Contract Dates		Currency	Rate Type	Rate Date
03/29/2016 to 03/16/2019		USD	CRRNT	PO Date
Description:			Contract Maximum	
SW0500 Snow Removal			0.00	
Allow Open Item Reference				
TYPE: STATEWIDE				

Tax Exempt? Y Tax Exempt ID:736017987

Contract Lines:

Line #	Cat CD / Item ID / Item Desc	UOM	Minimum Order Qty	Amt	Maximum / Open Qty	Amt
1	47101512 / Brine Maker ABS-800 Salt Brine Manufacturing #52-00207 \$14,606.25.	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing		14,606.25000	EA		0004
2	47101512 / Brine Maker Parts & Accessories Parts	EA	1.00	0.00	0.00	0.00
	Contract Base Pricing		0.01000	EA		0004

COMMENTS:

SW0500 Snow Removal

Contract Period: 03/17/2018 - 03/16/2019
 Agreement Period: 03/17/2016 - 03/16/2020

Final = The price is final after adjustments
 Hard = Apply adjustments regardless of other adjustments
 Skip = Skip adjustments if any other adjustments have been applied

Authorized Signature

Original Signature on File

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

Brine Maker

02/2013

Brine Maker

GENERAL: This specification describes a Brine Making System is to be used in the making of Salt Brine used in snow and ice control operations.

For Comparison Only: Varitech Industries Model SB600

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION, FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

MINIMUM REQUIREMENTS

VENDOR'S PROPOSAL

Brine Maker

1.0 Scope:

This specification covers requirements for Salt Brine Production Systems (SBPS) intended for use as a generator of quality salt brine that is used as a prewetting, anti-icing, and/or a de-icing agent on pavement or roadways.

Comply X

2.0 Dimensions:

Model # SB600 - 62" W X 62" H X 119" Long

Comply X

Comply 56W X 58H X 144L

3.0 Storage/Holding Capacity (U.S. Gallons):

Main Tank Hopper Tank Total
Model SB600 600 800 1400
Rock Salt Holding Capacity
(Cubic Yards)

Comply NO

Model SB600.....3.68

4.0 Production Rate:

Model SB600.....3600
Gallons Per Hour (Based on
Customers Water Supply)

Comply X 6600GPH

5.0 Materials:

The salt brine production systems shall be comprised of rotationally molded, one-piece tanks. Rotationally molded polyethylene SBPS tanks shall be manufactured from a polyethylene compound that conforms to the following properties....Density- ASTM D-1505 .942 g/cm3

Comply X

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Melt Index- ASTM D-1238 2.0
g/10min.

Tensile Strength- ASTM D-638
2,700 PSI

Flexural Modulus- ASTM D-790
103,000 PSI

Low Temp Impact- ARM-Low
Impact (1/4") 175 ft. lbs.

Main Salt Brine Tank:

Rotationally molded one piece
(no welds, joints, or seams)
polyethylene plastic tank-
UV stabilized to provide
protection from sunlight- 5/8"
nominal thickness- Open floor
with interior rib to prevent any
type of tank bulging - Pitched
bottom to lower sump area
provides total drainage- 3"
schedule 80 PVC drain pipe
with threaded plug end

Hopper/Rock Salt Tank:

Rotationally molded one - piece
(no welds, joints, or seams)
polyethylene plastic tank-UV
stabilized to provide protection
from sunlight- 5/8" nominal
thickness-Open floor
(No interior floor ribs to hinder
cleaning)- Pitched bottom to
lower sump area provides total
drainage- 6" schedule 80 PVC
drain pipe with threaded plug
end- Full length 1 1/2" PVC
water in-feed manifold provides
even filling and salt saturation

Secondary Containment Tank:

Rotationally molded one piece
(no welds, joints, or seams)
polyethylene plastic tank- UV
stabilized to provide protection
from sunlight- 5/8" nominal
thickness- Self supporting,
molded in vertical support ribs

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and 3" high skid bottoms
provide easy forklift entry-
Requires no complex saddling
or support structures- 2-1" PVC
threaded plug drain fittings-
Minimum 110% containment
capacity

**6.0 Plumbing and Plumbing
Components:**

Epoxy coated cast iron effluent
ejector pump- UL Listed -
thermal overload protected, oil
filled motor- 1/2 HP- 110 GPM
at 0 head/ft. - 1 1/2" discharge -
manually controlled by a 25'
remote waterproof toggle
switch. Water service piping is
1 1/2" PVC throughout entire
system- Water service is
controlled by a 1 1/2" Glass
filled polypropylene, non-
electric hydraulic diaphragm
valve- automatically controls
the water infeed to the hopper
tank and maintains the level of
brine in the main tank.
- 1 1/2" PVC water infeed and
salinity dilution ball valves- One
piece sealed unit requires no
adjustments- EPDM O-ring
seals and Teflon seats.
- Plastic float valve controls
water to the diaphragm valve-
Non-hammering- Valve body is
celcon plastic with Buna-N
plunger.
- 2-3" Brine overflow pipes to fill
main brine tank- 1 1/2" PVC
salinity dilution piping
connected to the overflow pipes
provide fine-tuning of salinity
percentage adjustments.
2-6" Round stainless steel
overflow screens- #8 mesh

Comply x See Attached

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EQUIPMENT SPECIFICATION

Brine Maker

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1 1/2" glass filled polypropylene
quick disconnect cam lock
coupling from pump discharge.

7.0 Electrical Service:

Entire electrical service to
SBPS is protected from
hazardous shock through a 15
Amp, 110VAC Ground Fault
Interrupter Circuit Receptacle
with trip and reset- Enclosed in
a waterproof outdoor service
PVC plastic junction box and
weatherproof plastic outlet
cover. 25" 16/3 AWG outdoor,
waterproof 15 Amp, 110VAC
remote toggle switch to pump-
Watertight plastic strain relief
connectors on both ends of
remote cable.

Comply x

8.0 Installation:

Installation of SBPS is
accomplished by connection to
the 2" PVC threaded male end
of the water infeed piping to
customer supplied water
service- Electrical connection is
made by plugging in the power
service cord equipped on the
SBPS to the customer supplied,
electrically adequate power
supply- See instructions manual
for detailed start-up, operational
and maintenance information.

Comply x

8.0 Warranty:

The unit shall be warranted for
a period of 1 year from the date
of purchase. The only
exception to this would be the
tank warranty, which would
extend for a period of 2 years.

Comply x

\$ NO

OPTION 1:
Automation

Upgrade to an automated unit
in lieu of manual.

\$ N/A

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EQUIPMENT SPECIFICATION

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OPTION 2:

Variation to larger tank

Accessories or

List Price Less % Discount

\$ 14,606.25

NOTE:

END USER WILL SUPPLY FOUNDATION, ELECTRICITY, AND WATER SUPPLY
TO BE USED WITH BRINE MAKER

**INSPECTION AND DELIVERY OF EQUIPMENT MUST BE IN ACCORDANCE WITH
VENDOR'S INSTRUCTION SHEET.**

SPECIFICATIONS:

Each Bidder shall submit complete Manufacturer's Specifications in duplicate and shall submit all other
Data to show that his proposal meets these Specifications.

**THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR TECHNICALITIES
UNDER THESE SPECIFICATIONS.**

PAINT:

All exposed metal shall be Powder Coated or Stainless steel.

PARTS:

- A. Bidder shall furnish upon request, a list of established manufacturer's authorized locations within the State Of Oklahoma where parts can be ordered.
- B. Consideration in awarding Bids shall be given to Parts and Service availability.

SERVICE POLICY:

Manufacturer's Standard Service Policy shall be furnished, complete and unaltered, with each Unit delivered.

MANUALS AND PARTS BOOKS:

Successful Bidder shall furnish one (1) Operator's Instruction Manual for each Spreader. In addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each Division purchasing one or more spreaders.

**VENDOR SHALL FILL IN ALL SPACES UNDER VENDOR'S PROPOSAL; FAILURE TO
COMPLY COULD RESULT IN BID REJECTION.**

COMPLIANCE:

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

Brine Maker

02/2013

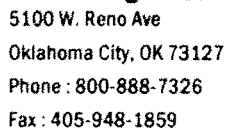
Bidder shall furnish a statement in writing on the Bid or by attached letter and in the Vendor's Statement below if his Equipment proposed strictly meets these Specifications. If not, he shall list each variation thereof.

VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: X NO:

DEALER: Rush Truck Centers of Oklahoma Inc., DBA: Perfection Equipment PHONE: 405-947-6603

SIGNATURE: *Beth LaFever* DATE: 2-18-2016

ADDRESS: 5100 W. Reno, Oklahoma City, OK 73127



P.O. #
DATE February 17, 2016
CUSTOMER ID

Attn: Russell Terry
Phone: 405-917-4430
Fax: 405-948-1859
E-mail: TerryR@rushenterprises.com

Sales tax not included

Authorized by

Data



5100 W. Reno Ave., Oklahoma City, OK 73127

SPECIFICATIONS FOR GVM SNOW EQUIPMENT ABS-800 BRINE MANUFACTURING SYSTEM

GENERAL DESCRIPTION:

The ABS-800 brine manufacturing system is designed for manufacturing of salt brine in a continuous manner. The salt brine solution is produced from a mixture of granular salt and standard tap water. The ABS-800 can produce 4000 gallons of brine per hour (depending on available tap water). The ABS-800 includes a poly camlock quick couple for inlet tap water, recirculation line from the pump and the suction line. The single speed pumping station is used for continuous recirculation while the tap water is being introduced into the mixing tank, pumping the brine solution into a brine storage tank and/or used as a fill station to fill truck mounted tanks. Included with the system are all hoses with quick couples needed to make the system fully functional. Production rate per hour is a function of incoming water flow.

TECHNICAL SPECIFICATIONS:

Tank: 800 gallon liquid capacity/ 2.55 cubic yards of salt capacity. The tank will be made of heavyweight one-piece rotationally molded polyethylene for water tightness with the following dimensions:

*Total length - 144 inches

*Total width- 43 inches

*Total height- 58 inches

The tank will have a stainless steel divider wall to separate the granular/tap water mixing side of tank from the mixed brine containment/pumping side of the tank. The tank will have an opening in the top to accommodate an 84 inch wide front-end loader bucket. The tank will be constructed of polyethylene resin that is resistant to ultraviolet rays and a wide range of chemical products.

TANK SUPPORT FRAME:

The frame will be constructed of fabricated structural steel, hot dipped galvanized to meet ASTM specification A-123, for corrosion protection. It will consist of 2 inch tube steel and 6 inch channel. It will include eyelets to accommodate a chain used for "rollover" cleaning, and forklift openings for easy movement when tank is empty.

PUMP AND MOTOR ASSEMBLY:

The brine pump will be enclosed in a molded polyethylene enclosure with a lockable lid, electric motor driven pump and hosing. The impeller shall be of closed design, non-overloading, and injection molded of polycarbonate material. The impeller shall have a brass threaded hub molded in for attachment to the motor shaft with integral dielectric shaft sleeve. The diffuser shall have a bronze wear ring and an O-ring seal into the suction port of the pump. Finger opening drain plug for removal of trapped fluids without tools. The pump station will have 2 inch suction and 2 inch discharge. There is a check valve on the suction side of the pump to check brine concentration.

PHYSICAL SPECIFICATIONS:

Pump Suction-2 inch female NPT

Pump Discharge- 2 inch female NPT

Nominal Horsepower- 2 HP

Voltage requirements- 115V

Flow Rates- 110 GPM

TEST EQUIPMENT:

- (1) Digital Refractometer to check brine concentration-Temperature compensated
- (1) Hydrometer to manually check salt concentration
- (1) 250 ML plastic cylinder to hold test sample
- (1) Brine concentration chart

TRAINING:

Minimum of (4) hours of on site training are included. Additional training/support will be available on site as may be required throughout the winter season.

OPERATIONS/PARTS MANUAL:

Two (2) copies of the operations and complete parts manual to be included.

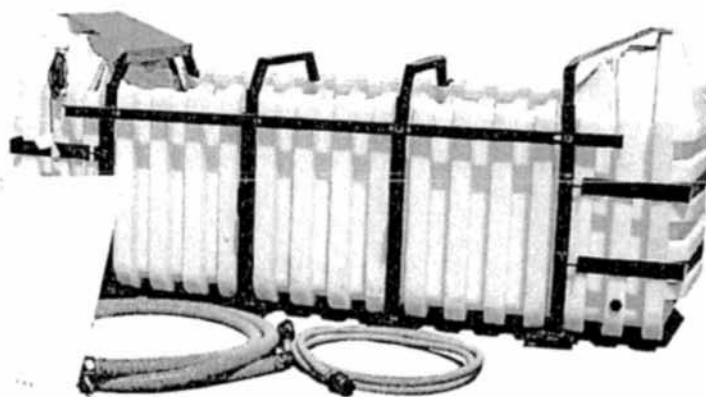
AUTOMATIC BRINE SYSTEM

ABS-800 SALT BRINE

The ABS-800 is designed to convert dry rock salt to liquid form for prewetting or anti-icing of roadways. The pump, controlled by a float switch or manually, transfers liquid from the wet end of the make tank to the storage tank, from the storage tank to truck mounted tanks, or recirculates liquid through the make tank. Brine concentration is established by batch process (x gal water per x pounds of dry material) or by final adjustment in storage tank.



Storage tank
not included
with ABS
system. Call for
pricing on tanks.



MANUFACTURING

SNOW
EQUIPMENT
SALES

WWW.SNOWEQUIPMENTSALES.COM

374 HEIDERSBURG RD.
BIGLERVILLE, PA 17307
PHONE: 800-458-5123
FAX: 717-677-4291

2373 NW ROUTE 121
DECATUR, IL 62526
PHONE: 800-233-4742
FAX: 800-846-8624

4341 SAND HILL RD
BELLEVUE, OH 44811
PHONE: 800-377-2522
FAX: 800-541-0755

TANK & SUPPORT FRAME

Tank: 800 gal. liquid capacity/2.55 yd. of salt capacity. The tank is made of heavyweight one-piece rotationally molded polyethylene for water tightness with the following dimensions: 144 in. x 43 in. x 58 in. (LxWxH). The tank has a stainless steel divider wall to separate the granular/top water mixing side of the tank from the mixed brine containment/ pumping side of the tank. An opening in the top will accommodate a 115 in. wide front-end loader bucket and it is constructed of polyethylene resin that is resistant to ultraviolet rays and a wide range of chemical products.

Tank Support Frame: The frame is constructed of fabricated structural steel, hot dip galvanized to ASTM specification A-123 for corrosion protection. It consists of 2 in. tube steel and 6 in. channel. It includes eyelets to accommodate a chain used for "rollover" cleaning, and forklift openings for easy movement when the tank is empty.

PHYSICAL SPECIFICATIONS

Length	144 in.
Width	56 in.
Height Overall	58 in.
Height Hopper	43 in.
Hopper opening	84 in. long x 50 in.
Salt capacity	2.5 cu. yards
Brine Capacity	125 gallons

PUMP & MOTOR SPECIFICATIONS

Suction	2 in.
Discharge	2 in.
HP	2
Voltage	115
Flow Rate	110 gpm

INCLUDED HOSES

2 each	2 in. x 20 ft. with quick couples
1 each	1 in. x 20 ft. with quick couples

TEST EQUIPMENT

1 each	Salometer for determining brine concentration
1 each	250 ml plastic cylinder to hold test sample
1 each	Brine concentration chart

Y-STRAINER & SAMPLE POINT

Y-strainer, with 12 mesh screen, prevents brine solution solids from entering the pumping station. This aids in producing cleaner brine that will lead to fewer mechanical problems. A sample port is included at pump discharge for testing the brine concentration.

TRAINING

A maximum of 4 hours of on-site training is included. Additional training and support is available on-site.

OPERATIONS/PARTS MANUAL

Two (2) copies of the operations and complete parts manual to be included.



WWW.SNOWEQUIPMENTSALE.COM