

Price quote for:

Salt Brine Production System

Vendor Name: **Total Truck & Trailer, LLC**
 Contact Person: **Dwight D. Anderson**
 Street Address: **4200 S. Harvey Newcastle, OK 73065**
 PO Box: **P.O. Box 720660**
 City, State, Zip: **Norman, OK 73070**
 Phone #: **405-329-3765**
 Toll Free #: **866-752-7071**
 Fax #: **405-329-8588**
 Email Address: **dandersonttt@gmail.com**

Excel used: 2010

Make: Brine Xtreme
 Model: BX-SC-150

Spec #	Description	QTY	Price
1.0	Base Price		\$51,818.00
2.0	Hose Options		\$ 1,031.00
2.1	100ft Flexible Hose 2"		\$ 10.25
2.2	2" Stainless Steel Hose Clamps		\$ 13.50
2.3	2" Manifold Clamps		\$ 5.50
2.4	2" Male Barb-Straight ea.		\$ 30.00
2.5	1 1/2" Male Threaded 2" Hose Coupler ea.		
3.0	Installation & Set-up Cost		
3.1	Basic installation includes: Place control panel and secure to floor or pad provided by customer. Connect to customer supplied 2" water supply with back flow preventer (water supply must be within 10ft of control panel) Place salt tank into position. Install flex tubing from control panel to salt tank (salt tank to be within 15ft of control panel). Customer must have electrician make final connection. Install flex hose to storage tank connection (connection to be plumbed to within 10ft of control panel) Hook up to customer supplied air system (must be within 10ft of control panel) Test all functions. Training included		\$ 7600.00
3.2	Install single transducer in customer supplied storage tank (customer to supply wiring and conduit from control panel)		\$ 455.00
3.3	Installation of all other items not covered in item 3.1 price per hour plus materials		\$ 105.00
4.0	Additional Options.		
4.1	Stainless Steel Hopper non self cleaning with removable Grate, add to base		\$ 2,290.00
4.2	Stainless Steel Hopper self cleaning hopper add to base		\$ 12,210.00
4.3	Stand alone Salinity Control system w/PLC, HMI, water valve, density meter pump and motor tank level sensor mounted on frame 150GPM (Included in base unit)		\$ 31,016.00
4.4	Up grade Salinity Control system w/PLC, HMI, water valve, density meter pump and motor tank level sensor mounted on frame 200GPM		\$ 1,370.00
4.5	Upgrade Salinity Control system w/PLC, HMI, water valve, density meter pump and motor tank level sensor mounted on frame 300GPM		\$ 2,511.00

4.6	Salinity Control system with truck fill includes system processor, 10" HMI, and remote fill interface. Tank level monitor, tank agitation, water valve, density meter pump and motor, tank level sensor mounted on frame. Note system is variable flow to truck fill set for individual profile and brine production. (Add to above salinity control size) Single truck fill point 100 GPM 3 HP	\$ 6,890.00
4.7	Single Truck Fill 200 GPM 5 HP	\$ 8,261.00
4.8	Single Truck Fill 300 GPM 7.5 HP	\$ 9,402.00
4.9	Two truck fill points 200 GPM 5 HP	\$ 14,411.00
4.10	Two truck fill points 300 GPM 7.5 HP	\$ 15,551.00
4.11	Three truck fill points 200 GPM 5 HP	\$ 21,151.00
4.12	Three truck fill points 300 GPM 7.5 HP	\$ 22,292.00
4.13	Blending Modules 100GPM (3HP) each up to 5	\$ 13,897.00
4.14	SS Brine Maker Waste Valve Kit	\$ 870.00
4.15	SS Brine Maker Waste Valve Kit 90 degree	\$ 957.00
4.16	Wheel Kit (SS tank only)	\$ 815.00
4.17	Leg Extension 18" (SS tank only)	\$ 662.00
4.18	Air purge	\$ 403.00
4.19	Recycled Water Kit	\$ 1,050.00
4.20	Water Supply flow meter kit	\$ 1,524.00
4.21	Cel Modem for remote diagnostic (subscription for one year, subject to Cel service availability)	\$ 1,526.00

5.0 Delivery

Fill in starting point and cost per loaded mile.	Price
City/State/Zip Code	\$ 5.50

5.1

NEW EQUIPMENT RENTAL PROGRAM
VENDOR OWNED RENTAL RETURN OR DEMO EQUIPMENT PROGRAM

DISCOUNT OFF LIST PRICE FOR RELATED PARTS AND ACCESSORIES - (See Special Terms and Conditions)

% Discount
0
1/1/2012

Price List Date and Number

Total

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2010

Make Brine Extreme
 Model BX-SC-FG-150

Spec #	Information Requested	Answer
	Price for Base Unit:	<u>51,818.00</u>
1.0	Salt Brine Production System	
	system, Operating Voltage	<u>Single Phase 220--3 Phase 208</u>
	Brine Tank Holding Capacity	<u>1200 Gallon</u>
	Brine Tank Material	<u>Fiberglass & Isophethic resin</u>
	Tank Wall Thickness	<u>2.5" Fiberglass Ribs .035 to .05 Resin Coating with .05" Ceramic Resin coating</u>
	Hopper Holding Capacity	<u>5 Cubic Yard</u>
	Hopper Material	<u>Fiberglass & Isophethic resin</u>
	Hopper Wall Thickness	<u>2.5" Fiberglass Ribs .035 to .05 Resin Coating with .05" Ceramic Resin coating</u>
	Containment System Holding Cap.	<u>115%</u>
	Containment System Wall Thickness	<u>2.5" Fiberglass Ribs .035 to .05 Resin Coating with .05" Ceramic Resin coating</u>
	Pump Capacity in GPM	<u>150GPM</u>
	Electric Motor H.P.	<u>2HP</u>
	Water In-feed Pipe Size	<u>2"</u>
	System Production Cap. In GPH	<u>6000GPH</u>
	Warranty	<u>1 Year</u>

Mixing System

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Version of Excel used: ###

Make Brine Extreme

Model Blending System

Spec #	Information Requested	Answer
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	Price for Base Unit:	\$ 31,442.00.
1.0	Mixing System	<u>One blend one Fill</u>
	Number of different chemicals that can be mixed at one time	<u>Up to 5</u>
	Required System Voltage and Amperage to be supplied by purchaser	<u>220volt 208 3 phase</u>
	Primary Pump GPM at 10 Feet of Head	<u>150</u>
	Suction/Intake Hose Diameter	<u>3"</u>
	Suction/Intake Hose Length	<u>15ft</u>
	Discharge/Fill Hose Diameter	<u>3"</u>
	Discharge/Fill Hose Length	<u>15ft</u>
	Primary Additive Pump GPM at 10 Feet of Head	<u>100</u>
	Suction/Intake Hose Diameter	<u>3"</u>
	Suction/Intake Hose Length	<u>15ft</u>
	Discharge/Fill Hose Diameter	<u>3"</u>
	Discharge/Fill Hose Length	<u>15ft</u>
	Secondary Additive Pump GPM at 10 Feet of Head	<u>Optional 100 to 450</u>
	Suction/Intake Hose Diameter	<u>3"</u>
	Suction/Intake Hose Length	<u>15ft</u>
	Discharge/Fill Hose Diameter	<u>15ft</u>
	Housing Dimensions	<u>10"</u>

Remote Pendant length
 Discharge/Fill Hose Length **15ft**
 Warranty **1yr**

Spec #	Description	QTY	Price
1.0	Price for Base Unit: Two Blend One Fill Point Two 150GPM		\$ 31,442.00 \$ -
2.0	Mixer Options		
2.1	Two Blend one fill point, 1-300GPM, 1-100GPM add		\$ 2,011.00 \$ -
2.2	Two Blend 2 Fill point, 1-300GPM, 1-100GPM add		\$ 14,830.00 \$ -
2.3	Two Blend 3 fill point 1-300GPM, 1-100GPM		\$ 23,283.00 \$ -
2.4	Each additional Blend each		\$ 14,314.00 \$ -
2.5	Control Package (Note: if used with Brine Xtreme brine production system control package not required)		\$ 10,115.00 \$ -
3.0	Hose Options.		
3.1	100ft Flexible Hose 2"		\$ 1,031.00 \$ -
3.2	2" Stainless Steel Hose Clamps		\$ 10.25 \$ -
3.3	2" Manifold Clamps		\$ 13.50 \$ -
3.4	2" Male Barb-Straight ea.		\$ 5.50 \$ -
3.5	1 1/2" Male Threaded 2" Hose Coupler ea.		\$ 30.00 \$ -
4.0	Additional Options.		
4.1	Micro Ingredient Pump		\$ 485.00 \$ -
4.2	Diverter Valve kit		\$ 3,799.00 \$ -
4.3	Customer Placed 6000 Gal. Tank/Fittings/Freight		\$ 6,900.00
5.0	Installation & Set-up Cost.		
5.1	Hourly Rate		\$ 105.00 \$ -
6.0	Delivery		
	per loaded mile.		\$5.50 \$ -
6.1	City/State/Zip Code		Price

NEW EQUIPMENT RENTAL PROGRAM NA
VENDOR OWNED RENTAL RETURN OR DEMO EQUIPMENT PROGRAM NA

Total Cost	
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Professional Salt Brine Making, Blending & Truck Loading Solutions

Henderson's BrineXtreme is in a class all its own. BrineXtreme is a professional line of brine making, blending and truck fill systems. These industrial grade modular systems offer our customers reliable, accurate and budget friendly options when starting or expanding their brine making operations.

Brine production begins with our stainless steel (self cleaning) salt brine maker, highly customizable salinity control, flexible blending system and finally the transfer of brine to storage tanks or trucks. Our blending system can be added at any time, is field expandable and works effortlessly with both additives (calcium chloride,

magnesium chloride, beet juice, etc...) and micro ingredients (dyes, anti-foam solutions, etc...) to produce custom salt brine mixtures.

BrineXtreme consistently delivers the optimum mixture of 23.3% salt concentration by weight as it reads the solution's density. This precise concentration allows the brine to perform in temperatures down to -6°F (-21°C).

Extreme weather calls for extreme solutions. The ability to deliver a preemptive strike against a potentially paralyzing winter storm is key in securing safe travel conditions. When you're ready for professional brine making and blending solutions, turn to...

The Dependable Ones™



*Self cleaning brine maker pictured above.
Photos may include optional equipment.*

SELF CLEANING BRINE MAKER

- Dimensions: 58"D x 126"W x 78"H
- Construction: 10 ga. 304 Stainless Steel hopper and frame
- Polypropylene auger for clean out of large solids, fully automated when paired with the salinity control
- Capacity: 5 cu. yd. with 8 cu. yd. option
- Production Rates: up to 9,600 GPH
- Mid-flow down design

SALINITY CONTROL

- Dimensions: 27"D x 115"W x 53"H
- Modular, stand alone or retrofit to existing equipment
- Salt density measurement accurately to 0.001 SG
- Production Rates: up to 160 GPM
- Total automation of salinity, salt tank, blending and brine tank levels
- NEMA 4x Cabinet

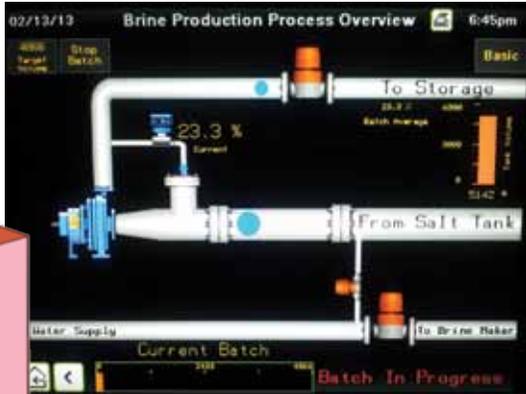
BLENDING SYSTEM

- Dimensions: 27"D x 147"W x 65"H
- 10.4" Color TFT touch screen
- Variable flow rates
- Blends brine with up to 4 additives
- Blends brine with up to 3 micro ingredients
- Fills up to 3 trucks simultaneously using an interactive LCD screen
- NEMA 4x Cabinet

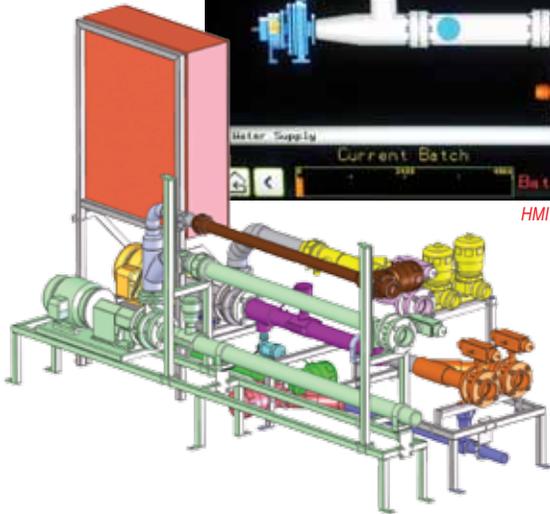
FEATURES & BENEFITS

Automated Brine Salinity Control

Use with the BrineXtreme brine maker or upgrade your existing system



HMI Display while making brine



Salinity Control w/single Blending Module shown

Features:

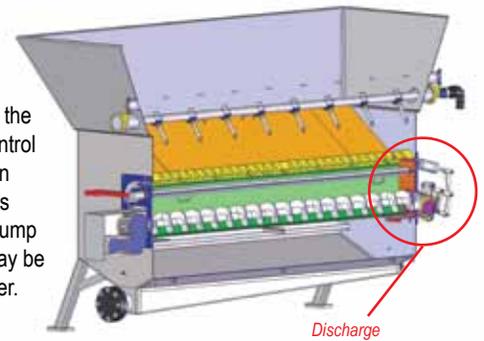
- Large color touch screen display with animated graphical views for easy operation and programming
- Modular design allows for simple field expansions or upgrades
- Automated tank agitation keeps products fresh
- Monitor storage tank volumes for inventory control
- Uses industrial pneumatic valves
- Water valve equipped with open and close ramping function which eliminates water hammer
- Uses solid state flow meters
- Simple maintenance with machine and performance diagnostics
- Redundant systems built-in for fail safe operation
- Remote access via LAN or Cellular
- Simple water flush clean out for fines
- Automated, continuous self cleaning for large solids
- Capable of up to 9,600 GPH continuous production
- Mid-flow down design

Benefits:

- Consistent production of eutectic salt brine (23.3% salt concentration by weight)
- Enjoy unmatched production rates
- Inexpensive to produce at roughly \$0.10 per gallon
- Proven to cut annual rock salt consumption by as much as 30%
- Virtually eliminate manual labor associated with brine production
- Achieve and maintain safe public travel conditions faster
- Brine used as an anti-ice treatment greatly reduces frozen precipitation's ability to bond with road surfaces
- Brine used as a deicing treatment is the fastest way to burn off frozen precipitation
- Pre-wet rock salt with brine to reduce scatter during application
- Inject brine directly into spreader hopper where it can be mixed with rock salt prior to application, creating a hot or active salt slurry

Self Cleaning Brine Maker

The BrineXtreme salt brine tank has the added feature of an integral polypropylene auger. When combined with the Automated Brine Salinity control the tank will clean itself when required. The auger removes debris from the 380 gallon sump to a discharge chute so it may be collected in a waste container.



Discharge

On-Demand Blending & Load-out Systems

Custom blends when you need them and reduced material costs

The BrineXtreme system offers many benefits for loading your trucks. Custom blending is done at the truck fill point, reducing your storage tank requirements. Also different blending rates can be set for individual users or for the whole fleet depending on weather conditions. The system uses variable frequency pump drives and fully proportional control valves to balance flows for maximum efficiency. The desired blend ratios are maintained throughout the filling process. The BrineXtreme system can fill up to 3 trucks at once, if configured with multiple fill locations, to improve productivity. Truck fill output flow can vary based on programmed rates set for individual pieces of equipment in your fleet.



HMI Display while blending and loading

Loading Features

- Blend brine with up to 4 additives
- Blend brine with up to 3 micro ingredients
- Variable fill rate for faster turn around
- 20 - 400 GPM (depending on pump configuration)
- Accurate filling - 0.5% repeatability



Truck Load-out Interface
Interactive and as easy to use as an ATM.

Data Logging

The BrineXtreme system logs data based on events and summarizes all of the pertinent information at each event. The data can then be viewed on the machine, downloaded via LAN or USB, sent via email or text message, or printed at the machine. This allows for flexible management and monitoring.

©Henderson Products, Inc. reserves the right in pursuit of continuous product improvement to change specifications used herein. As a custom manufacturer of truck bodies, truck equipment and brine producing systems, additional product options may be available that are not shown here.



1085 S. Third St., Manchester, IA 52057
Toll Free: (800) 359-4970
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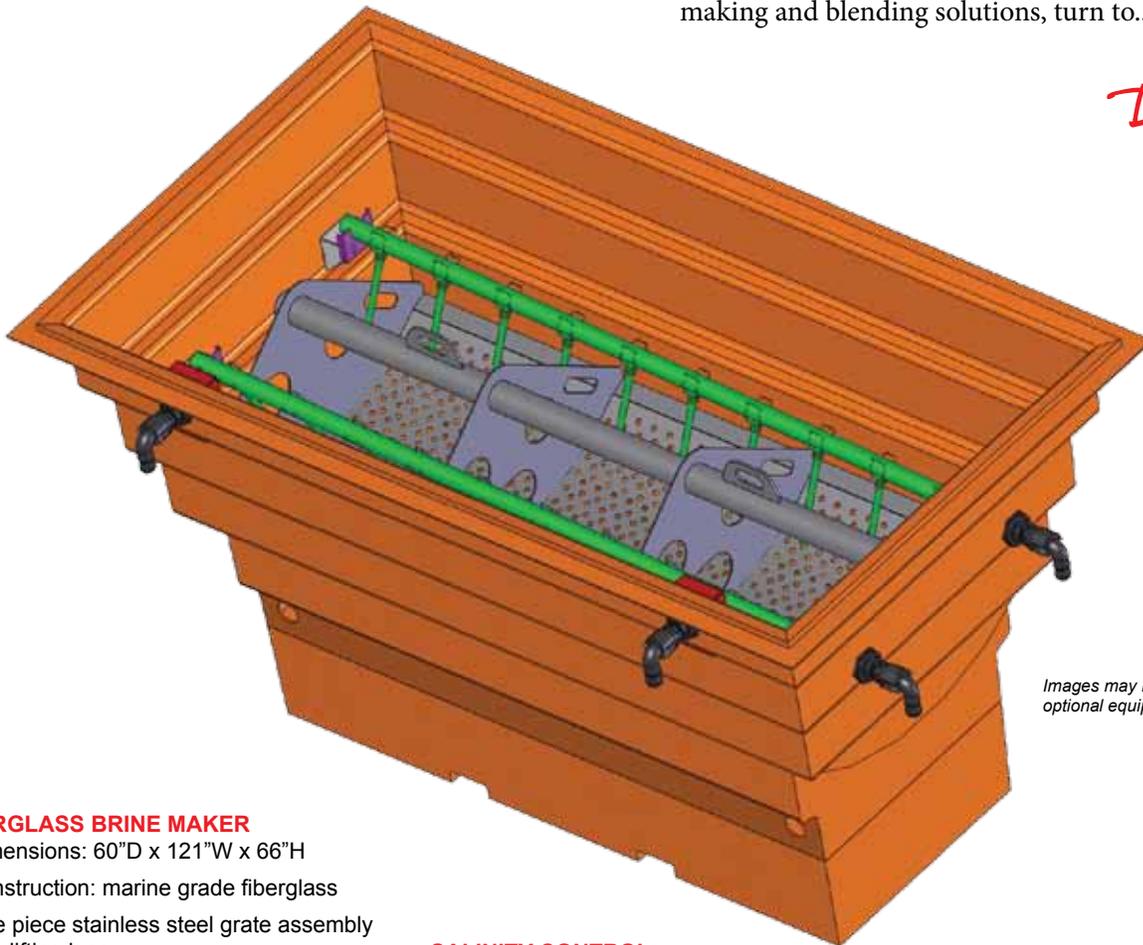
Brine production begins with our marine grade fiberglass salt brine maker, highly customizable salinity control, flexible blending system and finally the transfer of brine to storage tanks or trucks. Our blending system can be added at any time, is field expandable and works effortlessly with both additives (calcium chloride,

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Extreme weather calls for extreme solutions. The ability to deliver a preemptive strike against a potentially paralyzing winter storm is key in securing safe travel conditions. When you're ready for professional brine making and blending solutions, turn to...

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Images may include optional equipment.

FIBERGLASS BRINE MAKER

- Dimensions: 60"D x 121"W x 66"H
- Construction: marine grade fiberglass
- One piece stainless steel grate assembly with lifting lugs
- Capacity: 5 cu. yd.
- Production Rates: up to 6,000 GPH
- Dual 2" overflow ports standard
- Reversible water and return inlets
- Integrated fork pockets
- Two dimensional slope floor
- 2" horizontal ribs with 15° slope
- Mid-flow down design

SALINITY CONTROL

- Dimensions: 27"D x 115"W x 53"H
- Modular, stand alone or retrofit to existing equipment
- Salt density measurement accurately to 0.001 SG
- Production Rates: up to 100 GPM
- Total automation of salinity, salt tank, blending and brine tank levels
- NEMA 4x Cabinet

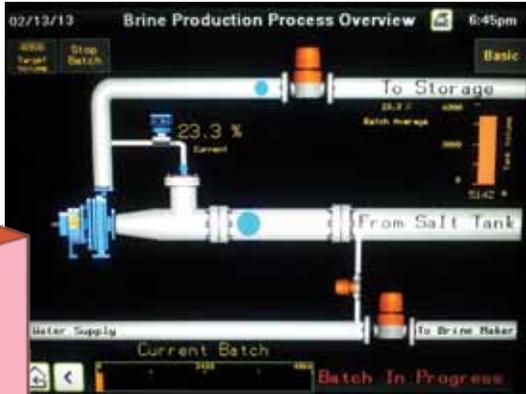
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- Dimensions: 27"D x 147"W x 65"H
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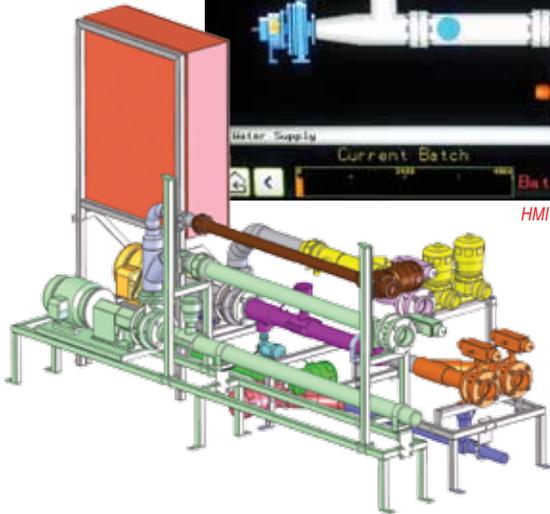
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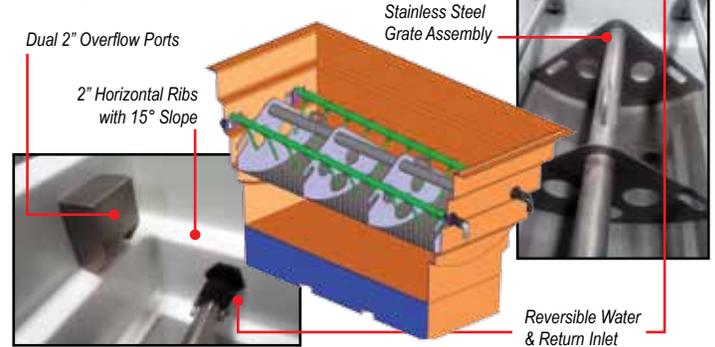
Features:

- Large color touch screen display with animated graphical views for easy operation and programming
- Modular design allows for simple field expansions or upgrades
- Automated tank agitation keeps products fresh
- Monitor storage tank volumes for inventory control
- Uses industrial pneumatic valves
- Water valve equipped with open and close ramping function which eliminates water hammer
- Uses solid state flow meters
- Simple maintenance with machine and performance diagnostics
- Redundant systems built-in for fail safe operation
- Remote access via LAN or Cellular
- Simple water flush clean out for fines
- Removable stainless steel grate for clean out of large solids
- Capable of up to 6,000 GPH continuous production
- Mid-flow down design

Benefits:

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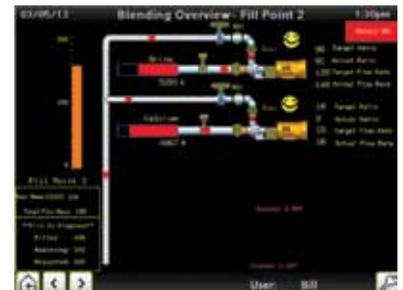
Fiberglass Brine Maker



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HMI Display while blending and loading

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