

SALT BRINE DE-ICING, ANTI-ICING & DUST CONTROL SYSTEMS

PRODUCT CATALOG



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ON TAP™ BRINE PRODUCTION, HANDLING & STORAGE SYSTEMS

ON TAP™ Systems are all encompassing production facilities designed to expand as demand for brine increases. Completely modular, clients are able to choose which parts of the system they would like designed, with the option to upgrade their systems in the future as needed.

PRODUCTION SYSTEMS

The first stage of our systems is production of 23% Salt Brine Solution. We offer our mobile all-in-one brine maker & applicator COMBO™ units or stand-alone BLEND™ brine makers.

Perfect for smaller operations and a great starting point for any contractor or municipality that is new to our salt brine anti-icing and de-icing solutions. Available in 350 & 700 USG capacities, our COMBO™ units are an economical starting point to providing all the benefits of liquid deicing to your customers.

For more demanding applications, our stand-alone BLEND™ brine makers provide the highest potential production rates, available in 300 & 750 USG capacities.

Both options are fully compatible with the rest of our brine production, storage & handling system. Commonly added to both systems are add-on brine storage tanks with high-output pumps for filling and emptying BLEND™ Brine makers are often paired with our galvanized steel containment vessels for spill control and environmental protection.

Our production systems are perfect for contractors or smaller municipalities requiring bulk production of salt brine, but don't necessarily require large storage, high-output plumbing, and spill control solutions.



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Salt Brine De-Icing & Dust Control Systems

STORAGE & HANDLING SYSTEMS

The use of large galvanized steel containment vessels in our brine handling units prevent any possible brine spills from getting out of control. We only provide well-designed corrosion-resistant, proven components in all of our custom builds with the option for UV protected components upon request. These components require little maintenance but are easily serviceable if needed. Colour coded operational diagrams guide provide directions for an operator to follow. These systems have been in continual development with municipalities since 1998.





PUMP SYSTEMS

BARR designs and assembles a variety of high quality, high flow, reliable, packaged Pump Systems to specifically handle Salt Brine Solutions such as Sodium Chloride, Magnesium Chloride and Calcium Chloride and most commonly in 2" (approx. 100 GPM) and 3" (approx. 200 GPM) sizes.

Common pump systems are configured to perform general transfer of brine solution between storage tanks; recirculation and mixing if necessary; and truck tank filling and emptying.

BARR draws from a long history of experience designing and manufacturing complete Brine Production and Handling Systems and working directly with Municipal operators and Road Maintenance Contractors to provide the most asked for features and functions to help create the most effective and easy to operate equipment available.

BLEND™ SALT BRINE MAKING SYSTEMS

SB750 - MUNICIPAL SERIES

Start taking control of your city's liquid de-icing program and save significantly on the cost of purchased and delivered brine solution and overall salt use.. Make your own salt brine solution for as little as four cents a litre (15 cents per US gallon)* with the BARR SBS750. No other system at a any price range can compare in value, simplicity and output - we guarantee it.

FEATURES

- 750 USG high capacity production brine maker + 1,550 USG batch tank to serve as a quality control vessel for batch production and additional standing storage.
- The SBS750 is a complete plug-and-play brine production and handling system that can easily be connected to storage tanks or used by itself. Comes pre-assembled, so with just a few of hose connections (and power for the pump), you can be in operation.
- Highest capacity production available - rated at a minimum of 6,000 gallons per hour of 23% salt brine solution.
- Ultra-simple operation, suitable for a wide variety of operators with some basic instruction.
- Manufactured with all durable, highly corrosion-resistant, long-life materials, ie: HDPE plastic and 316 stainless steel.
- Just add salt and turn on the water - no agitation, power or continuous monitoring or complex electronic controls are required during the brine making process.



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- Contains an integrated recirculation system if brine concentration were ever to drop off for any reason.
- Comes standard with a 2", 2 HP on-board stainless steel high flow (90 - 110 GPM Actual Flow) brine pump specifically designed to handle the weight of brine and the significant dirt content often found in typical road salt. Pump inlet strainer included to keep larger debris out of pump and spray applicator systems.
- Brine maker has an integrated float shut-off valve to stop the flow of water when both the brine maker and batch tank are completely full.
- Both the brine maker & the batch tanks are fitted with sampling taps for easy testing of brine concentration at any stage of the process.
- Salt level is visible through the brine maker to monitor operating levels.

BLEND™ SALT BRINE MAKING SYSTEMS

SBS300 - CONTRACTOR SERIES

Manufactured by BARR Plastics, the easy to operate SBS300 Brine Maker has been designed especially for Facilities Maintenance Contractors looking for fast, easy and consistent production of 23% liquid salt solution for fighting snow and ice.

The SBS300 is fitted with a 7' wide loading hopper that accommodates Bobcats along with other skid steer machines and smaller front end loaders for easy and quick bulk salt loading into the brine maker.

FEATURES

- 300 USG high capacity production brine maker + 1,550 USG batch tank to serve as a quality control vessel for batch production and additional standing storage.
- The SBS300 is a complete plug-and-play brine production and handling system that can easily be connected to storage tanks or used by itself. Comes pre-assembled, so with just a few of hose connections (and power for the pump), you can be in operation.
- Highest capacity production available - rated at a minimum of 3,000 gallons per hour of 23% salt brine solution.
- Ultra-simple operation, suitable for a wide variety of operators with some basic instruction.
- Manufactured with all durable, highly corrosion-resistant, long-life materials, ie: HDPE plastic and 316 stainless steel.
- Just add salt and turn on the water - no agitation, power or continuous monitoring or complex electronic controls are required during the brine making process.



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- Contains an integrated recirculation system if brine concentration were ever to drop off for any reason.
- Comes standard with a 2", 2 HP on-board stainless steel high flow (90 - 110 GPM Actual Flow) brine pump specifically designed to handle the weight of brine and the significant dirt content often found in typical road salt. Pump inlet strainer included to keep larger debris out of pump and spray applicator systems.
- System includes a 1,550 gallon batch tank to serve as a quality control vessel for batch production and additional standing storage.
- Brine maker has an integrated float shut-off valve to stop the flow of water when both the brine maker and batch tank are completely full.
- Both the brine maker & the batch tanks are fitted with sampling taps for easy testing of brine concentration at any stage of the process.
- Salt level is visible through the brine maker to monitor operating levels.

SURGE™ SPRAY APPLICATOR SYSTEMS

FRAME MOUNT SKID SERIES

For full time roadway maintenance contractors, save time and money by mounting our skids directly to the chassis of your vehicle. Our custom units come with a wide variety of options to fully fit your application.

Capacities range from 2,000 USG up to 4,500 USG and larger with specific applications.

Primarily designed for application of roadway de-icing, anti-icing, and dust control solutions, they can also be used year-round for water hauling and transfer, wash down, firefighting, plant watering, etc.

FEATURES

- Made from all quality, corrosion-resistant, durable components.
- Pump options include commercial Honda gas powered pumps with polypropylene pump heads and hydraulic powered cast iron pumps with stainless steel pump heads.
- Optional flow meters are available to connect to computer cab controls to regulate application rates and control hydraulic pump systems.
- Spray bar systems for roadway de-icing / anti-icing are most commonly available in one or three lane coverage setups with the spray bars mounted directly to the rear legs of the hook lift skid.
- For dust control spraying systems, high volume single and double spray bar systems are available and mounted directly to the skid as well.
- A variety of spray tip patterns are available such as straight stream, fan spray, and hollow cone spray in a variety of flow rates



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SURGE™ SPRAY APPLICATOR SYSTEMS

SELF LOADING SERIES

Self-loading assemblies have retractable legs that they sit on when not loaded onto a truck.

To load, the truck is backed up to the unit with a slightly tilted deck which picks up the front end, when backed up further the front legs fold under the skid which slides onto the truck deck until it is on all the way. The skid is fitted with latch bars that once fully loaded, lock into the tailgate latches to hold the unit in place.

Common sizes available range from 750 gallons to 3400 gallons and are most often used with standard dump box trucks.

FEATURES

- Made from all quality, corrosion-resistant, durable components.
- Pump options include commercial Honda gas powered pumps with polypropylene pump heads and hydraulic powered cast iron pumps with stainless steel pump heads.
- Optional flow meters are available to connect to computer cab controls to regulate application rates and control hydraulic pump systems.
- Spray bar systems for roadway de-icing / anti-icing are most commonly available in one or three lane coverage setups with the spray bars mounted directly to the rear legs of the hook lift skid.
- For dust control spraying systems, high volume single and double spray bar systems are available and mounted directly to the skid as well.
- A variety of spray tip patterns are available such as straight stream,



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SURGE™ SPRAY APPLICATOR SYSTEMS

HOOK LIFT SERIES

Hook Lift assemblies have retractable legs that they sit on when not loaded onto a truck.

To load, the truck is backed up to the unit and hooked onto the hoist. The hoist pulls the skid into place onto the frame rails and locks into place.

Common sizes available range from 535 gallons to 3135 gallons.

FEATURES

- Made from all quality, corrosion-resistant, durable components.
- Pump options include commercial Honda gas powered pumps with polypro pump heads and hydraulic powered cast iron pumps with stainless steel pump heads.
- Optional flow meters are available to connect to computer cab controls in order to regulate application rates and control hydraulic pump systems.
- Spray bar systems for roadway de-icing / anti-icing are most commonly available in one or three lane coverage setups with the spray bars mounted directly to the rear legs of the hook lift skid.
- For dust control spraying systems, high volume single and double spray bar systems are available and mounted directly to the skid as well.
- A variety of spray tip patterns are available such as straight stream, fan spray, and hollow cone spray in a variety of flow rates.



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SURGE™ SPRAY APPLICATOR SYSTEMS

FLAT SKID SERIES

Take your brine solution to the streets with our flat skid tankers. Tanks range from 100 to 5,025 gallons to be placed on flat-deck trucks or trailers. Designed with forklift pockets, the custom units can be loaded with a forklift from the side or rear.

Primarily designed for application of roadway de-icing, anti-icing and dust control solutions, they are also configured with auxiliary 2" pump suction and discharge ports with their own shut-off valves so that they can be used year-round for water hauling and transfer, wash down, fire-fighting, plant watering, etc.

FEATURES

- Pump options include commercial Honda gas powered with polypro pump head, hydraulic powered cast iron and stainless pump heads and 12V diaphragm pumps for smaller lower flow anti-icing units (ie: 50 - 525 gal.)
- Optional flow meters and GPS speed control and flow controls to match application rates with truck speed. Connect to computer cab controls to regulate application rates and control pump systems.
- Spray bars are separate from the tank assembly (but are included in package) and are mounted to their own steel frame, commonly attached to the truck or trailer via a connection just like a hitch receiver. Single and three-lane spray bar assemblies available.
- 12 volt electric actuated, on/off ball valves are provided to operate the spray bars - one per bar.
- A variety of spray tip patterns are available such as straight stream, fan spray, and hollow cone spray in a variety of flow rates.



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SURGE™ SPRAY APPLICATOR SYSTEMS

ATV SKID SERIES

- Available in 68, 100, and 150 USG models.
- 6 GPM - 70 PSI On Demand Pump
- Schedule 80 PVC 4' wide spray bar w/ 4 quick-change adjustable fan spray tips - 6' wide spray
- 50' commercial low temp. hose, reel, and high flow, high quality spray gun
- Adjustable height and flip up/down spray bar assembly
- Black primed and painted rough duty steel skid with tie down lugs
- 10' Extension cord w/ on/off switch to reach cab w/ standard power-point (cigarette lighter) plug
- Easy to setup and operate system designed for 15-20 Km/h (9-13 mph) travel speed
- Compatible with any ATV with 850+ lb. carrying capacity and cigarette lighter type plug



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COMBO™ BRINE MAKER & APPLICATOR UNITS

BMBA700 - LOW-PROFILE SERIES

The StormStop COMBO™ lineup has a brand-new option available for 2022. Previously only available in 300 USG options, our COMBO™ unit is now available in a 700 USG model.

If this your first time seeing these units, our StormStop COMBO™ units are all-in-one brine makers & applicator units. We designed & constructed our COMBO™ lineup with both contractors & municipalities at the front of mind. The result was a highly efficient, easy-to-use & economical unit for winter road maintenance.

The Refresh

For 2022, we looked at our low-profile COMBO™ unit and decided it's time for some improvements. Previously, all the skids our units were mounted on were made from steel. While this made the units extremely durable, when dealing with brine solution, corrosion/rusting was inevitable.

We looked for different solutions, but many of the options available simply did not have the same durability of a steel skid. That was until we experimented with what now is known as BARR Structural Plastic Panels

These panels changed the game for us, opening a wide variety of custom fabrication options. BSP Panels are not only corrosion / rust resistant, but they are also incredibly durable and can handle the day-to-day wear and tear of commercial settings. We use the same panels in a wide range of products such as bio-filters, de-thawing containment for food produce, stands that can support 1,300 kilograms and more.

Today, all three versions of our COMBO™ unit are completely made from our BSP Panels, maintaining a similar level of durability and cost, while increasing the **longevity of the unit substantially.**



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FEATURES

- Manufactured with all durable, corrosion-resistant materials.
- Produces 23% salt brine solution in approx. 25 minutes, once filled with the appropriate amounts of road salt and water, all controls accessible from the ground.
- One tank of brine solution can cover up to approx. 15 lane kms at a commonly used application rate of 70L per lane km (Approx. 12 Acres) (30USG/Lane Mile).
- Powered by a quality commercial 6 HP GX200 Honda gas engine with a 2", high flow, 45 PSI brine pump.
- Auxiliary 2" pump suction and discharge ports to use on-board pump for liquid transfer.
- Optional high quality 50' Hose Reel and Spray Nozzle Assembly.
- 2" strainer installed on the pump inlet to help keep any debris out of pump and spray bar.
- Electric on/off valve to open and close the spray bar.
- Spray bar is fitted with quick change, adjustable spray tips capable of covering up to a 14-foot-wide laneway. Tips have 360-degree adjustability at up to a 25 degree angle to place brine right where you want it.
- Spray tip plugs are also included to further adjust your spraying coverage and volume applied.
- Sampling tap located on side facing the operator for testing brine concentration before spraying. (Hydrometers sold separately)
- Low centre of gravity and tank baffles provides greater stability, driver safety and lessens wear and tear.
- Ease of operation makes the BMBA350-LP suitable for a variety of operators with some basic instruction.
- Spray bar frame fits easily into a standard truck hitch receiver.
- This unit fully loaded weighs just under 7,500 LBS. Minimum requirement truck to safely carry this unit is a Ford F-450 Chassis Cab or equivalent.

COMBO™ BRINE MAKER & APPLICATOR UNITS

BMBA350 - LOW-PROFILE SERIES

The StormStop COMBO™ lineup has a brand-new option available for 2022. Previously only available in 300 USG options, our COMBO™ unit is now being upgraded to a 350 USG model.

If this your first time seeing these units, our StormStop COMBO™ units are an all-in-one low profile brine makers & applicator. We designed & constructed our COMBO™ lineup with both contractors & municipalities at the front of mind. The result was a highly efficient, easy-to-use & economical unit for winter road maintenance.

The Refresh

For 2022, we looked at our low-profile COMBO™ unit and decided it's time for some improvements. Previously, all the skids our units were mounted on were made from steel. While this made the units extremely durable, when dealing with brine solution, corrosion/rusting was inevitable.

We looked for different solutions, but many of the options available simply did not have the same durability of a steel skid. That was until we experimented with what now is known as BARR Structural Plastic Panels (BSP Panels).

These panels changed the game for us, opening a wide variety of custom fabrication options. BSP Panels are not only corrosion / rust resistant, but they are also incredibly durable and can handle the day-to-day wear and tear of commercial settings. We use the same panels in a wide range of products such as bio-filters, de-thawing containment for food produce, stands that can support 1,300 kilograms and more.

Today, all three versions of our COMBO™ unit are completely made from our BSP Panels, maintaining a similar level of durability and cost, while increasing the **longevity of the unit substantially**.



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FEATURES

- Manufactured with all durable, corrosion-resistant materials.
- Produces 23% salt brine solution in approx. 15 minutes, once filled with the appropriate amounts of road salt and water, all controls accessible from the ground.
- One tank of brine solution can cover up to approx. 15 lane kms at a commonly used application rate of 70L per lane km (Approx. 12 Acres) (30USG/ Lane Mile).
- Powered by a quality commercial 6 HP GX200 Honda gas engine with a 2", high flow, 45 PSI brine pump.
- Auxiliary 2" pump suction and discharge ports to use on-board pump for liquid transfer.
- Optional high quality 50' Hose Reel and Spray Nozzle Assembly.
- 2" strainer installed on the pump inlet to help keep any debris out of pump and spray bar.
- Electric on/off valve to open and close the spray bar.
- Spray bar is fitted with quick change, adjustable spray tips capable of covering up to a 14-foot-wide laneway. Tips have 360-degree adjustability at up to a 25 degree angle to place brine right where you want it.
- Spray tip plugs are also included to further adjust your spraying coverage and volume applied.
- Sampling tap located on side facing the operator for testing brine concentration before spraying. (Hydrometers sold separately)
- Low centre of gravity and tank baffles provides greater stability, driver safety and lessens wear and tear.
- Ease of operation makes the BMBA350-LP suitable for a variety of operators with some basic instruction.
- Spray bar frame fits easily into a standard truck hitch receiver.
- This unit has a low net weight so does not take up much of the trucks carrying capacity. It can be used, fully loaded on a heavy 1 tonne long-box pickup truck when the unit is positioned at the front of the box or deck.

COMBO™ BRINE MAKER & APPLICATOR UNITS

BMBA275 - MANUAL LOADING SERIES

The BMBA275 Brine Maker & Applicator Unit is a new innovative, proprietary design from BARR that combines everything you need to take full control of producing and applying salt brine solutions for anti-icing & de-icing along with dust control. This one machine is all you need to get started.

This equipment can also be used as general water handing unit to haul and transfer water for fire-fighting, wash-down, plant watering, dust suppression and other construction site water service applications.

An economical, easy-to-use and highly efficient anti-icing unit, ideal for smaller scale service areas or service areas spread across a larger service region. This is a smart investment that will pay for itself quickly.

FEATURES

- The BMBA275 produces 23% salt brine solution in approx. 15 minutes, once filled with the appropriate amounts of road salt and water
- This is a quick response unit that gets you to the streets fast. Just add the salt and water and mix on the way to the job.
- Ease of operation makes the BMBA275 suitable for a variety of operators with some basic instruction.
- Manufactured with all durable, corrosion-resistant materials.
- Powered by a quality commercial 6 HP GX200 Honda gas engine with 2", high flow, 45 PSI polypro brine pump.



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- Equipped with an electric on/off valve to open and close the spray bar.
- Spray bar frame fits easily into a standard truck hitch receiver
- Spray bar is fitted with quick change, adjustable spray tips capable of covering up to a 14 foot wide laneway.
- Unit is equipped with auxiliary 2" pump suction and discharge ports to use on-board pump for liquid transfer.
- One tank of brine solution can cover up to approx. 14 lane kms at a commonly used application rate of 70L per lane km (30USG / Lane Mile).
- Top surface is fitted with an all plastic deck with sides and a 16" opening, ideal for adding bagged salt or bulk salt from a bucket.
- Optional high quality hose reel, hose and high flow hand spray nozzle.
- 2" strainer installed on the pump inlet to help keep any debris out of pump and spray tips.
- Unit has a corrosion resistant base for easy loading/unloading with a forklift.
- The BMBA275 unit has a very low net weight so does not take up much of the trucks carrying capacity. It can be used, fully loaded on a 3/4 tonne pickup truck when the unit is positioned at the front of the box or deck.
- The tank has translucent walls all around for easy viewing of liquid and salt levels.
- There is a sampling tap located on side facing the operator for testing brine concentration before spraying. (Hydrometers sold separately)



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