



MOONSTONE

WASTEWATER SIMPLIFIED





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Moonstone's unique, continuous automated flow-through systems utilize our custom-blended bentonite based Reactive Separating Agents (RSAs) to simplify the treatment of your industrial wastewater. Our robust stainless steel designs are proven, effective, affordable, and extremely durable.

Our systems are ideal for removing suspended solids, emulsified oils, dissolved metals and many other types of contaminants from your wastewater, servicing the need for industrial wastewater treatment in a variety of processes.

Each environmentally beneficial system treats your wastewater stream at a fraction of the cost of larger, more complex industrial systems. The Moonstone process occurs quickly, and requires minimal operator involvement or supervision, making your system simple to use while saving your company time and money.

Our custom-blended bentonite based RSA cleaning compounds encapsulate and remove contaminants, resulting in a non-hazardous residue that passes Toxicity Characteristic Leaching Procedure tests (TCLP) and provides clean water for municipal drain discharge or re-use in your facility's process.

Moonstone systems have a compact footprint that enables even the smallest of facilities to treat their wastewater and there is often no need for extra holding tanks or additional chemical treatments.

Some of the many applications for our systems are:

Flexographic, silk screening, parts washing, machine shop coolants, rendering plants, corrugated box plants, printer ink removal, small and large plating shops, vibratory shops, paint removal, floor scrubber, pressure washing wastewater, and medical supply facilities.

Do you want peace of mind when it comes to quality, reliability, and performance? Of course you do! Your Moonstone system will deliver results with the best warranty in the industrial wastewater treatment industry! Contact us today to arrange for a free assessment of your industrial wastewater sample.



Water Works Series

MANUAL BATCH

Our Moonstone Water Works Series systems are the most straight forward, manual batch units available.

Engineered for use with our unique Reactant Separating Agent (RSA), this simple approach has a fast 3-to-5-minute reaction time to clean water.

The simplicity of this system allows our customers to run the unit and treat a batch of wastewater when needed. This system can also treat multiple, unique waste streams at one facility.



50-GAL

Moonstone's Water Works Systems use gravity in your favour. Simply add your wastewater, sprinkle the unique RSA blend into the tank at the top of the unit and turn the mixer on.

At this step, the mixer allows the RSA to encapsulate suspended solids, emulsified oils, and dissolved metals.

Once separation occurs, simply open a valve to allow the mixture to pass through the filter cloth.

The result is clean water and a non-hazardous residue.



100-GAL



IDEAL FOR SMALL VOLUME OR MULTIPLE UNIQUE WASTE STREAMS
OPTIONAL FILTER BED OR BAG FILTRATION FOR SOLIDS
304 OR OPTIONAL 316 STAINLESS STEEL CONSTRUCTION

EZ-FLOW Series

FULLY AUTOMATED - CONTINUOUS FLOW THROUGH SYSTEMS

Moonstone's EZ-Flow Series Units are the only fully automated, flow-through, turnkey systems available, with treatment capacities ranging from 2 - 100 USGPM. Each system is constructed from 304 or optional 316 stainless steel, depending upon your facility's wastewater and your manufacturing process.

Each Moonstone EZ-Flow system requires less energy, maintenance, and process time than a traditional industrial wastewater system, lowering your operating costs and saving you money. The EZ-Flow Series systems work fast and are simple to use, while still being a high-efficiency unit producing superior quality water and non-hazardous residue.

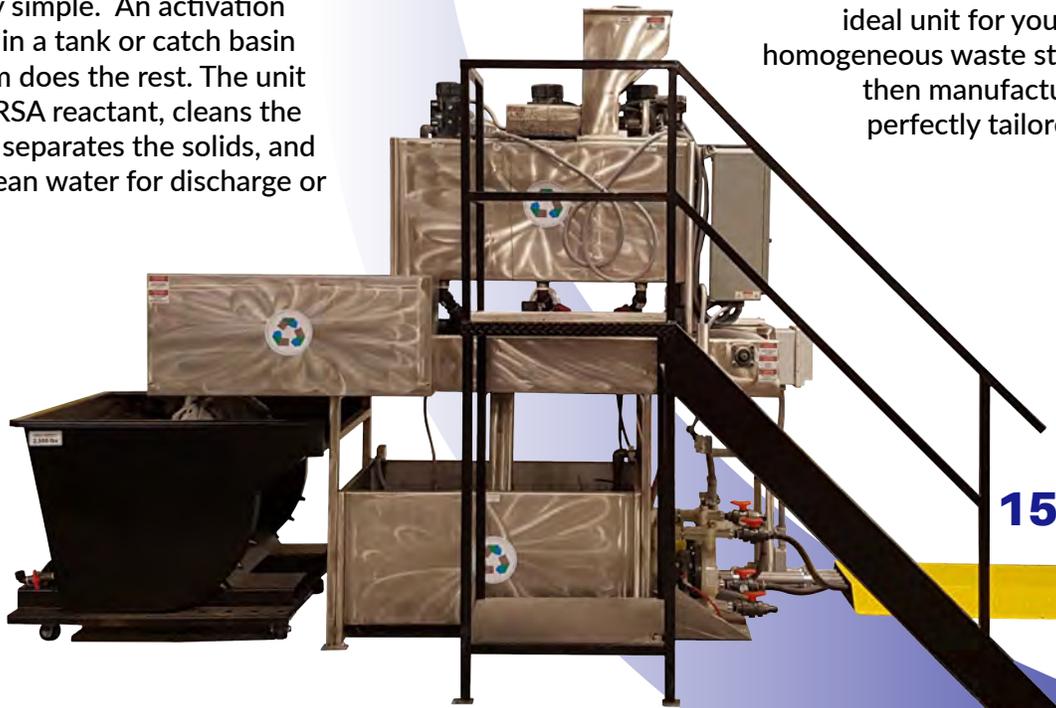
Every waste stream is unique and our team at Moonstone believes your options are unique as well. Base units can be altered to suit your unique facility.

Once your system is installed, the process is very simple. An activation float is placed in a tank or catch basin and the system does the rest. The unit fills, adds the RSA reactant, cleans the waste stream, separates the solids, and collects the clean water for discharge or re-use.



10-GPM

Your unique system design starts with the analysis of your wastewater at our facility. From there we determine which custom blend of Reactive Separating Agent (RSA) will best clean your wastewater for municipal discharge or re-use in your facility's process. Next, we choose the ideal unit for your continuous or homogeneous waste stream, engineer, then manufacture your system perfectly tailored to treat your waste stream.



15-GPM



EZ-FLOW Series



- ⇒ 304 stainless steel fabrication or optional 316 for low pH applications
- ⇒ 28" to 80" filter cloth, 42" discharge height from floor level
- ⇒ Low cloth sensor
- ⇒ High level collection/filtrate tank sensor
- ⇒ 1" FIP inlet fitting with flow control valve and flow meter for auto shut off

- ⇒ Start/Stop float activates the system in auto mode, and includes a manual sensor switch
- ⇒ Dual mix chambers available with variable speed mixers and turbo props
- ⇒ Super Sac tote system available
- ⇒ Variable speed feed hopper to dispense your unique RSA blend
- ⇒ Low level feed hopper sensor



- ⇒ Self-indexing variable speed filter bed
- ⇒ High level, advance and common filter bed sensors available
- ⇒ Optional PLC and HMIs available upon request
- ⇒ 50-400 USG (225L) collection/filtrate tank
- ⇒ Submersible or AOD discharge pump in the collection/filtrate tank



CUSTOM EQUIPMENT DESIGNS WITH A COMPACT FOOTPRINT

Reactive Separating Agent



RSA

In the field of industrial wastewater treatment, many techniques are available to help remove, reduce or eliminate contaminants.

With the hazardous nature of effluents, preparing industrial wastewater for release into the environment or recycling it for reuse poses an array of complications.

Most of the techniques being used today are multi-step processes that require a large investment of time, as well as extensive handling, to remove suspended solids, oils, and metal ions from the wastewater stream. Even when these obstacles are removed, one significant problem remains for most methods available: residues from these multi-step treatments are still classified as hazardous waste.



The most accepted and best available treatment for these residues is to stabilize them in a matrix (grid) that does not allow for any leaching of hazardous materials into the surrounding environment. This adds additional manipulation, time, and cost to the process of already overburdened treatment facilities.

Moonstone has solved this issue with our custom blended bentonite RSA formulations and one step process. Laborious, multi step processes can be reduced to one simple and efficient operation, clarifying the contaminated industrial wastewater in a single step. This yields clean water for re-use or discharge, and a non-leachable, nonhazardous solid as the only by-product.



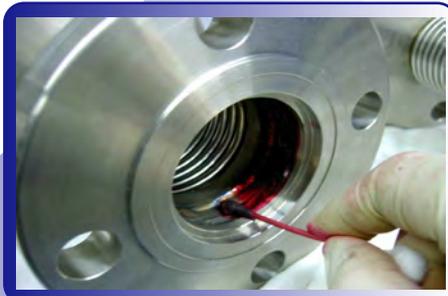
Facts: Moonstone systems and our line of custom-blended bentonite based RSA products accomplish your ultimate goal, in a single vessel, in minutes instead of hours. With our RSAs, all the contaminant materials in your industrial wastewater will settle to the bottom of the vessel as a floc that can easily be filtered. What is left meets the criteria of a non-hazardous waste.

The 1-2-3: We test your industrial wastewater, pair it with the perfect Moonstone RSA blend, and design your unique, simple process.





Applications



- ⇒ Flexographic / Silk screening
- ⇒ Printer ink removal
- ⇒ Corrugated box plants
- ⇒ Medical supply facilities
- ⇒ Small and large plating shops
- ⇒ Parts washing
- ⇒ Machine shop coolants
- ⇒ Rendering plants
- ⇒ Vibratory shops
- ⇒ Floor scrubber wastewater
- ⇒ Pressure washing wastewater



The fast and simple solution
that eliminates your industrial liquid waste
in a matter of minutes!



Address: 3250 Harvester Road, Unit 1
Burlington ON, L7N3W9, Canada
Phone: 1 800-952-3691
E-mail: Sales@MoonstoneWater.com
Web : www.MoonstoneWater.com