

maratek

solvent saver

Vacuum Assistance
Water/Solvent Separator
Automatic Filling
Fractionation Tower
Allen Bradley PLC

SSB

Solvent Saver - Batch

8, 16, 32, 48, 64, 75, and 100 Gallon Models

16, 32, 55, 75, and 110 Batch Premium

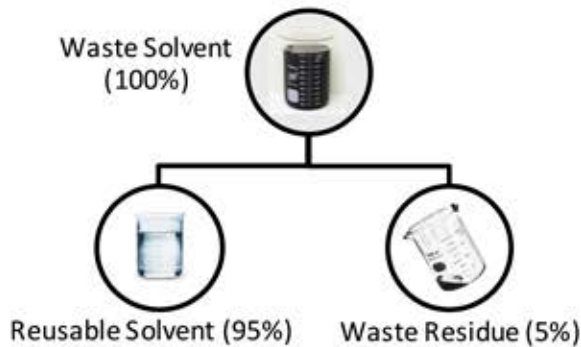


Batch



Batch Premium

Solver Saver - Batch

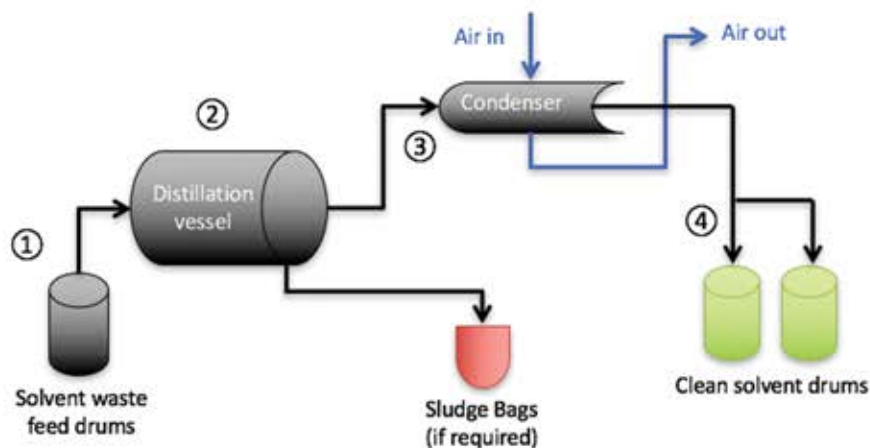


Most industries today generate waste solvents in their processes. These solvents can easily be recycled for re-use. Maratek has engineered the Solvent Saver Batch line of products to separate waste solvents into re-usable solvent and waste residue. Maratek's Solvent Saver models deliver reliable performance and are easy to operate and maintain. Just plug, play, and watch your savings soar!

Operating Principle

Maratek's solvent recycling SSB models separate solvents using the proven process of distillation, as shown through the numbered illustration below.

1. The waste solvent is fed into the distillation vessel.
2. The distillation vessel is fitted with a jacket of thermal oil that is heated by one or more electric heaters which brings the waste solvent to its boiling point.
3. Pure solvent vapors are then channeled to an air cooled condenser, where it cools into its liquid form.
4. The liquid is then directed to the clean solvent collection drums, where it can be re-used.



Solver Saver - Batch

What is the difference between Batch and Batch Premium?

Our Batch and Batch Premium units are meant for different levels of difficulty. For simple applications with minimal automations we usually suggest our Batch units. For more difficult to manage waste recycling or when some level of automation is desired we may suggest our Batch Premium units.

Both Batch and Batch Premium units include the following:

Feature	Description
Safety Features and Temperature Controls	Using a variety of sensors and automations all of our SSB units are able to run safely with minimal operator intervention.
Class I Div I Group D Explosion Proof	All systems are certified Class I Div I Group D explosion proof
Electric Heating with Thermal Oil	Using a thermal oil jacket electric heaters quickly and evenly heat the boiling vessel.
Batch Controls	The Batch units include a small mounted button control system which allows for temperature and batch length settings. The Batch Premium models include a remote box TouchScreen PLC which can be programmed for many automations depending on the optional accessories included.

Batch Units are



- **The Safest** – Class I Div I Group D Explosion Proof CSA Certified
- **The Strongest** – High Quality 304 Stainless Steel Construction, with Copper Condenser
- **Simple** to Operate but Require Some Manual Intervention
- **Smart** – Automated with Simple PLC
- **Includes** Service and Support When Needed, Remote Access not Available

Batch Premium Units are



- **The Safest** – Class I Div I Group D Explosion Proof METLAB Certified
- **The Strongest** – High Quality 304 Stainless Steel Construction, Including Condenser
- **The Simplest** to Operate, Little Intervention, Tilting Base for Easy Sludge Removal and Access
- **The Smartest** – Highly Automated with TouchScreen PLC and Remote Cellular Access
- **Includes** Free Lifetime Service and Support Including Remote Access

Solver Saver - Batch

Batch and Batch Premium Additional Options

Feature	Description
Vacuum Assistance	Creates a vacuum in the boiling chamber to lower the temperature needed to boil high boiling point solvents. Batch units use a Venturi Vacuum System and Batch Premium units use a Liquid Ring Vacuum System.
Nitrocellulose Safety Features	Includes additional temperature sensors and a water quenching system for managing nitrocellulose wastes. *Requires Vacuum Assistance. The 8 and 16 gallon Batch models do not include quenching.
Water/Solvent Separator	If the waste also contains water, this option will automatically separate the water from solvent after distillation.
Automatic Filling – Included with Batch Premium	Both units are able to be filled automatically but only the Batch Premium units are able to continually top up or automatically run back to back batches without operator intervention.
Stainless Steel Condenser – Included with Batch Premium	Replaces the copper condenser with a 304 Stainless Steel unit.
Ethernet or Cellular Access PLC – Batch Premium Only	The system PLC is accessible remotely through an ethernet or cellular data connection. Settings can be viewed and changed as if the touch screen was being used. With your permission Maratek can also access the unit for troubleshooting. Lifetime free remote support from Maratek is included with purchase.
Container Sensors – Batch Premium Only	Collection Container Sensors prevent overflow and spills.
Dual Dose Fill and Empty – Batch Premium Only	This option allows both the Automatic Filling system and Clean Solvent Collection system to use two containers. It will automatically switch which is used to reduce operator involvement.
Allen Bradley PLC – Batch Premium Only	This option replaces the standard PLC with an Allen Bradley system. Suggested for customers who are looking to integrate the unit into their existing Allen Bradley network. A six inch screen is standard, other sizes available.
Purge Box – Batch Premium Only	This option allows the PLC to be mounted on the system inside the explosion proof area instead of a remote box.
Oil Cooling – Batch Premium Only	After processing the waste the thermal oil is rapidly cooled to reduce the time required to cool the sludge.
Automatic Sludge Pump Out – Batch Premium Only	If gravity discharge is not sufficient or desired an automatic sludge pump can be used.
Fractionation Tower – Batch Premium Only	If the waste contains multiple solvents which are dissolved into each other, a fractionation tower will separate them at high purity.
25%+ Energy Savings Package – Batch Premium Only	Significantly reduces energy used for heating and cooling the solvent.
Hydraulic Tilting – Batch Premium Only	This option replaces the manual hand crank tilting mechanism with a push button hydraulic system