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# Solvent Saver Solvent Recycling System

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y using a multistage vacuum distillation process that automatically separates clean water and solvent at lower than boiling point temperatures, the Solvent Saver System can transform waste blanket wash back into solvent that's reusable

on the press, rather than disposed of off site.

A post-distillation blending option removes all traces of contamination from the waste solvent so that the distilled solvent can be combined with water and additives to serve in the place of fresh chemistry, with the distilled water discharged to the drain or reused on press.

Thus, by recycling both water miscible and non-miscible waste solvent or blanket wash, the system offers users savings in both reduced solvent purchases (up to 75% less) and significantly less waste disposal (up to 90% reduction in costs).

## Any solvent, many capacities

Since the system does not require the user to switch to a specific solvent, the technology has a broader audience than similar solutions. Several recycling capacity levels are available, from 10 gallons per day up to more than 500 gallons per day; multiple vacuum and temperature stages allow recycling of a wide variety of blanket washes.

Safety is assured with the explosion-proof design, numerous automatic shut-offs and monitoring sensors. Also, operator involvement, which encompasses placing a drum by the unit and pressing a few buttons, can be reduced via varying levels of automation, from start-up to automated sludge discharge to automatic shut-off. Labor for maintenance similarly can be minimized.

For printers, the system can help lower emissions and RCRA generator status and help in compliance with lower VOC regulations coming into effect.

## As pure as new

In six months of using the Maratek system, Cenveo Anderson Lithograph, Commerce, CA, has been able to reclaim more than 90% of its waste sheetfed blanket wash solvent for reuse in its sheetfed press operation. "The purity of the reclaimed solvent is excellent and there's no discernible difference in quality compared to the virgin product," says Frank C. Barnett, director of environmental, health and safety. Each day, he says, the system can process more than four 55-gallon drums of waste solvent.

Battlefield Graphics, Burlington, ON, has been using the Solvent Saver system since 2003, reducing both the amount of waste solvent sent off-site for treatment and its expenditures on new blanket wash.

Plant manager Bob Smith says the unit does an "excellent" job of separating the water and the contaminants from its waste blanket wash so that the recycled product meets the

company's requirements in producing top-quality printing.

"At Standard Printing Company, we've realized a 95% reduction in our press wash waste-handling volumes" using the Maratek system, says Vince Waechter, pressroom supervisor.

He adds, "With the increasing EPA and local regulations, the unit allows us to manage and reduce our hazardous waste and cut our overall solvent spending. This is a beneficial capital investment that would help the printing industry as a whole by reducing hazardous waste and associated costs."



For printers, various distillation stages in this automatic system permit the reuse of solvent, instead of its usual disposal off site.