

R.P. ADAMS PORO-SAVE BACKWASH RECOVERY SYSTEM

Reduce Backwash Losses by Upwards of 90%.

R.P. Adams Automatic Poro-Edge Self-cleaning Strainers are designed to provide clean dirt-free water to process, production and mechanical systems.

The strainers can operate unattended and backwash automatically when sufficient solids have been collected (as indicated by a rise in differential pressure).

A small portion of the process stream is used to automatically clean the Poro-Edge strainer, while maintaining uninterrupted flow to the downstream processes.

Backwashing is typically less than 1% of the flow, yet there is a cost associated for the water used; most recirculated water systems treat the water to control corrosion and biological growth. Another concern is the cost of make-up water and the treatment of the backwash as a waste stream.

R.P. Adams Poro-Save

R.P. Adams Poro-Save Backwash Recovery System recovers upwards of 90% of the backwash volume. Poro-Save is an option for new strainer systems and can be retrofitted to existing strainer systems.

The Poro-Save System incorporates a high efficiency separator on the backwash outlet of the strainer system. The separator receives the backwash stream and retains the solids in the collection chamber of the separator.



**R.P. Adams skid-mounted Poro-Save Backwash Recovery System
on 17,000 GPM Strainer.**

The backwash cycle is controlled via a PLC package designed to meet plant standards. The recovered backwash stream is returned to the cold well basin, upstream of the strainer. The collected solids are purged to drain at the termination of the strainer's backwash cycle.

Not all systems are created equal

The standard Poro-Save system works well on most recirculated water systems. However, when the nature of the solids are such that good separation can not be achieved, R.P. Adams can engineer a backwash recovery package specific to your needs.

R.P. Adams Poro-Edge Automatic Self-Cleaning Strainers - equipped with the Poro-Save Backwash Recovery Systems - can help you save your costly treated water.



R.P. ADAMS

R.P. ADAMS *Subsidiary of Service Filtration Corp.*

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R.P. ADAMS PORO-SAVE BACKWASH RECOVERY SYSTEM

Technical Specifications

The Poro-Save Backwash Recovery package will be sized specifically for the strainer and consists of:

- ▶ a high efficiency separator
- ▶ actuated backwash return valve
- ▶ actuated purge valve
- ▶ manual throttle valve
- ▶ high accuracy pressure gauges
- ▶ PLC-based controls package to monitor and control strainer and backwash recovery functions

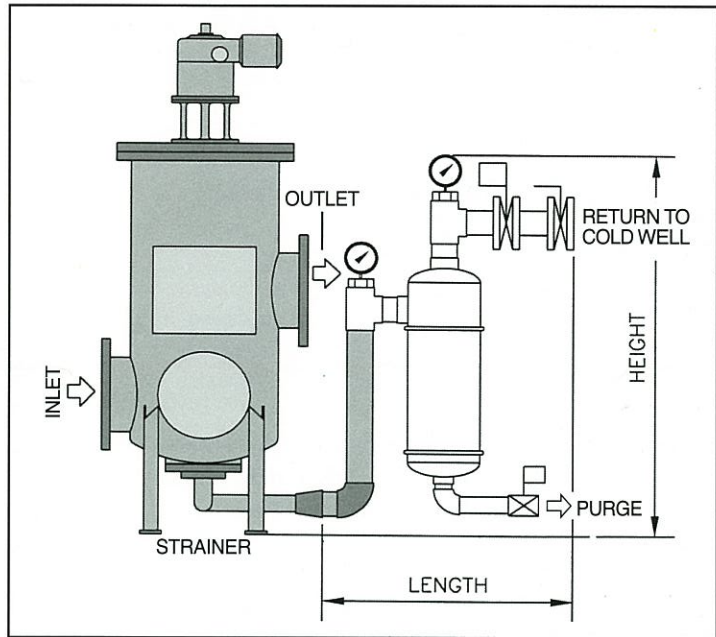
Poro-Save Features

Poro-Save's PLC-based controls permit keypad access to current operating status and easy adjustment of cycle timers. Optional features extend the role of the strainer system to monitor process and backwash flows, differential and operating pressures, and number of backwashes.

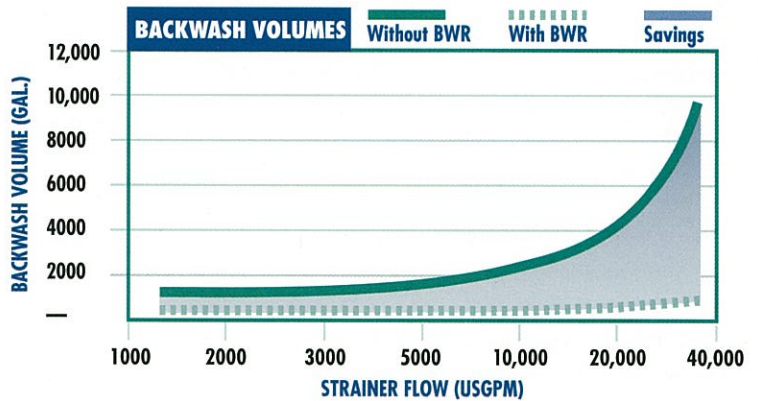
The Poro-Save backwash recovery package requires a minimum operating pressure of 40 PSIG and assumes that the returned stream empties to a nearby cold well. Please specify a backwash assist pump package for low operating pressure systems, or when the return piping is lengthy.

The standard Poro-Save backwash recovery package is supplied with components loose for field installation and interconnecting piping between the strainer, valving and separator by others.

Alternatively, R.P. Adams can provide a "plug and play" skid-mounted system including the strainer, backwash recovery package, valving, control panel, and interconnecting piping and wiring.



R.P. Adams Poro-Save Backwash Recovery Package / Typical Layout
(Shown with VWS Series Strainer)



PORO-SAVE BACKWASH RECOVERY PACKAGES

Model	Size Strainers Covered	Approximate Dimensions
BWR-1	VWS-4 & 6	46" H x 42" L
BWR-2	H/VWS-7-20	68" H x 42" L
BWR-3	H/VWS-34-40	84" H x 50" L
BWR-4	H/VWS-56-118	86" H x 52" L
BWR-5	H/VDWS-146 & 174	94" H x 54" L
BWR-6	H/VDWS-244 & 314	106" H x 72" L



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