

STANDARD FEATURES:

- Clean Trap Pressure Drop of Less Than 2 psi
- Single Unit Flows to 270 gpm
- Corrosion Resistant PVC & Stainless Steel Construction
- 316SS Wedge Wire Slot Openings of 0.010 inches
- Maximum Operating Pressure 100 psig
- Maximum Operating Temperature 100F
- Clear Acrylic Tube for Unobstructed Viewing
- Blowdown Ball Valve for Easy Cleaning & Media Removal
- Socket, Threaded & Flanged End Connections

ADVANTAGES:

- Simple Insurance Against Catastrophic Plant & Product Damage
- Protects Downstream Product From Contamination With Media
- Prevents Media From Entering Distribution Loop & Tanks
- Protects Downstream Pumps & Equipment From Damage
- Prevents Loss of Media During Backwash Cycle
- Materials Selected to Maintain Water Quality and Long Service



RT40-F Resin Trap

A resin trap is a simple, inexpensive protective sieving device to insure the ion exchange resin or other filtration media does not leave the water treatment equipment where it belongs, and travel downstream where it doesn't belong. Install a resin trap. Like insurance, do not wait until catastrophe strikes to see the value.

Why You Need a Resin Trap

Many water treatment processes use small granular, plastic, powdered, pelletized and/or crystalline media in a pressure vessel. Over the years, complex screens, slotted pipes, perforated plates, molded devices, etc. have been engineered to keep the media in the vessel. Through corrosion, chemical attack, thermal damage, rapid flow changes, system age and/or water hammer, these distribution systems will be damaged.

When the distribution systems are damaged, the ion exchange resin or other media will get into the water distribution system contaminating and/or destroying downstream RO membranes, expensive membrane filters, pumps, tanks, piping, processes and any product touched by this contaminated water.

What Is A Resin Trap?

A resin trap, designed and fabricated by Res-Kem, is a very simple sieving device using a stainless steel wedge-wire screen. The slots are small enough to retain upstream ion exchange resins or other filtration media. The number and size of the openings are designed to keep the pressure drop to a $\Delta P=2$ psi at the rated flow rate. A clear sleeve will visually indicate whether there is an upstream problem. A small ball valve allows for recycling of resin or media after the problem has been repaired.

Since the slots in the wedge wire are 0.010 inches, 254 microns, a resin trap protects, but does not replace, downstream cartridge filters, bag filters, membrane filters, etc. which generally have a much lower micron rating.

Where Should You Install a Resin Trap?

A resin trap should be installed in the product water line of most resin and media based water treatment equipment like:

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| Softeners | Dealkalizers | Condensate Polishers |
| Demineralizers | Carbon Filters | Sand Filters |
| Portable DI Tanks | Greensand Filters | Multi-Media Filters |

A resin trap should be considered in the backwash lines of most ion exchange and carbon systems because temperature related flow changes can cause these expensive materials to be sent down the drain.

Model Number	Drawing	Connection Size	Connection Type	Flow Rate (gpm)	Approximate Weight (lbs)	Approximate Length (inches)	Maximum Width (inches)
RT20-S	B	2"	Female Socket	110	14	17-1/2	12.5
RT20-T	B	2"	Female NPT Threaded	110	14	13-3/4	12.5
RT20-F	A	2"	Van Stone Flanged	110	18	20	12.5

RT30-S	B	3"	Female Socket	170	15	16-1/2	12.5
RT30-T	C	3"	Female NPT Threaded	170	14	11-1/2	12.5
RT30-F	A	3"	Van Stone Flanged	170	20	17-1/2	12.5

RT40-S	B	4"	Female Socket	270	28	15	12.5
RT40-F	A	4"	Van Stone Flanged	270	40	24	12.5

