



SERIES 'HM' DEIONIZER SYSTEM

OPERATION AND
SERVICE GUIDE
O-325
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HOW DOES THE SERFILCO DEIONIZER SYSTEM WORK?

SERFILCO Deionizer System is a simple, maintenance-free system. When your monitor light signals you that your water quality has dropped below your desired quality, you just exchange the resin packs and send them to us for regeneration.

HOW DOES THE REGENERATION WORK?

Our regeneration center maintains the resin used in the SERFILCO Deionizer System. When your resin pack is exhausted, just refill your unit with your "stand-by" resin pack, and ship the exhausted pack to us. We will regenerate the resin and return it within one week. It's as simple as that!

VENTED LID REMOVES EASILY TO SIMPLIFY THE EXCHANGE OF YOUR RESIN PACK.

WATER QUALITY LIGHT KIT INDICATES WHEN TO CHANGE RESIN PACK - AVAILABLE IN DIFFERENT RANGES.

PVC SHELL RESISTS CORROSION, IS EASY TO CLEAN, AND IS LIGHTWEIGHT AND DURABLE.

MANY TYPES OF RESIN PACKS ARE AVAILABLE TO MEET VARIOUS APPLICATIONS AND NEEDS. NO COSTLY MAINTENANCE IS INVOLVED. RESIN PACKS AND FILTERS CAN BE EXCHANGED READILY.

DRAIN ALLOWS FOR DRAINING UNIT DURING PACK EXCHANGE PROCEDURE.

INLET

YOUR SERFILCO DEIONIZER SYSTEM ABOUT YOUR RESIN PACK

The resin has a shelf life of approximately one year. It is shipped to you in a plastic bag to prevent the exchangers from drying out. Inside the plastic bag, the resin is stored in a nylon pack which NEVER has to be opened.

COMPLETE SATISFACTION IS GUARANTEED.

If you are unhappy with The SERFILCO Deionizer System, simply return it within 30 days for a full refund. You will only be billed for the regeneration of the resin packs you used in that time.

To fully appreciate what deionization is and how it works, we must first look at the contaminants found in our water supply and what purification processes may be needed, in addition to deionization, to provide the level of water purity for your specific application.

INSTALLATION IN 6 EASY STEPS

1. Locate all units on a firm foundation.
 2. A standard floor drain or sump located near the system is desirable. **CAUTION:** All hard plumbed drain lines must be vented in accordance with local plumbing codes and/or local regulations.
 3. It is important to install cut off valves on inlet and outlet sides of each unit to facilitate changing of resin packs.
 4. The SERFILCO Deionizer System is designed for a maximum pressure of 50 PSI. A regulator is recommended if your pressure exceeds 50 PSI.
 5. The maximum flow for each SERFILCO Deionizer System is 3 gallons per minute, If the flow increases above this load, there should be a flow control installed on the inlet side.
 6. Pre-filters and monitors are available as optional kits.
- NOTE:** One of the most important, but often neglected factors contributing to the successful operation of the system, is the care with which the piping is installed. Correctly sized fittings and careful cleaning are very important. Metal particles, solder flux, threading compounds, and other contaminating materials must be flushed thoroughly from the piping system prior to allowing water to enter the SERFILCO Deionizer System. If organics are present a carbon filter is required to prevent fouling of resin.

RESIN PACK EXCHANGE

1. Remove cover plate by unscrewing the four knobs on top of the unit.
2. Remove exhausted resin pack.
3. Do not attempt to jam new resin pack into the SERFILCO Deionizer System. Stretch the resin pack, making it long and thin so it will slide easily into the unit.
4. Slowly feed the long thin pack into the SERFILCO Deionizer System unit. Do NOT empty resin into chamber. Put entire bag in.
5. Replace the cover plate and open the air vent in the center of the lid. It is important to allow all the air to escape through the vent.

RESIN PACK REGENERATION

Regeneration coupons are used to simplify the exchange of your exhausted SERFILCO Deionizer System resin packs. Simply follow these four steps:

1. Place an order for your future supply of regeneration coupons. Our minimum order is three (3) coupons.
2. Each time a resin pack is exhausted, use the right half of the coupon as your pre-addressed shipping label. Clearly print your name and address on the left half of the coupon and enclose it along with the exhausted resin pack you are returning. For your convenience, these instructions are printed along the bottom of each coupon.

IMPORTANT: Write or type your name and return address here so we can mail back your fresh resin pack.

SERFILCO, LTD.
1288 McCook Avenue
Dayton, OH 45404-1099

Your name
Your Street
Your City, State 00000

Model No. _____

Fill out and enclose in box for your return shipment.

3. When your resin pack is received at the center, a new pack will be sent to you using the label you've enclosed with your shipment.
4. Allow the used resin pack to drip dry and then package it in the package that the fresh resin pack is received in. It is advisable to send your exhausted resin to us immediately after you change packs. This will allow time for shipment and will keep you in deionized water.

With this program, you're billed at the time you order your regeneration coupons. This eliminates any need for extra paper work and phone calls each time your system's resin pack needs to be exchanged.

SERFILCO, LTD.
1288 McCook Avenue
Dayton, OH 45404-1099

Use this mailing label for return shipment.

REMEMBER THESE 3 FACTS ABOUT YOUR SERFILCO DEIONIZER SYSTEM

Your Model PL.5 RHM-½ SERFILCO Deionizer System is your most economical and convenient choice for producing deionized water for almost any application. Here are three important things to keep in mind.

1. Your SERFILCO Deionizer System does not "treat" the water, it purifies it by removing dissolved ionized solids and gases by passing the water through ion exchange resins that magnetically draw the ions from the water and replaces them with hydrogen and hydroxyl ions which subsequently join to become water.
2. The ion exchange resins that perform the purifying function must eventually be regenerated. At that point, you simply unpack your "stand-by" resin pack, shut off the water flow, remove the top of your deionizer housing, pull out the old pack and drop in the fresh one. You ship the exhausted pack and a filled-out regeneration coupon to SERFILCO, LTD. and we send you a fresh one immediately.
3. If you are using the type #4101 resin pack, be sure to change the carbon filter whenever you exchange resin packs. The carbon filter removes the chlorine--- thereby extending the service capacity of the pack. The #9101 resin pack does not require carbon filtration.