

# Assembly Instruction Manual

**For models:**  
M8407-HO, M8409-HO  
M8410-HO, M8412-HO  
M8414-HO, M8416-HO

## ScaleNet Salt-Free Water Conditioner Systems

### Parts included in the package:

Filtering media, pre-measured to fit tank specs  
(see below for specs)

- 1 Fiberglass tank with distributor tube already inserted (see below for specs)
- 1 Funnel
- 1 Distributor basket
- 2 Split rings
- 2 O-rings
- 2 Quick connect nuts
- 2 Male PVC Elbows
- 1 Clack 1191 in-out head
- 1 Clack V3007 bypass assembly

### Additional supplies needed:

Masking tape or Scotch tape



### WARNING

Do not use a wrench to tighten fittings and parts. Using a wrench to tighten will crack the plastic. Only hand-tightening is needed.

### Product Specifications and Operating Parameters

Part No.	Tank Size	Filtering Media	Pipe Size	Service Flow	Working Pressure	Operating Temperature	pH Range	Floor Space
M8407-HO	8x35	3.0L ScaleNet	1"	10 gpm	25-80 psi	40°F - 140°F	6 to 9	11x11x42
M8409-HO	9x48	4.0L ScaleNet	1"	16 gpm	25-80 psi	40°F - 140°F	6 to 9	12x12x42
M8410-HO	10x54	5.0L ScaleNet	1"	20 gpm	25-80 psi	40°F - 140°F	6 to 9	13x13x61
M8412-HO	12x52	7.5L ScaleNet	1"	30 gpm	25-80 psi	40°F - 140°F	6 to 9	15x15x59
M8414-HO	14x65	12.5L ScaleNet	2"	50 gpm	25-80 psi	40°F - 140°F	6 to 9	15x15x72
M8416-HO	16x65	19.0L ScaleNet	2"	75 gpm	25-80 psi	40°F - 140°F	6 to 9	17x17x72

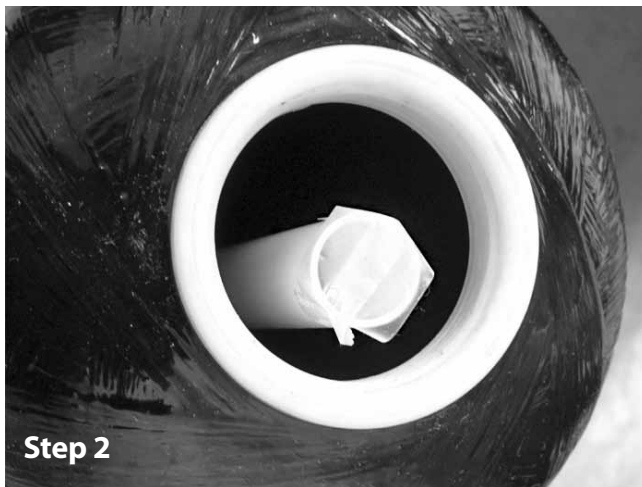
# Assembly Instructions

## Step 1

Carefully unpack all items from packaging, including fiberglass tank.

## Step 2

Place tape over distributor tube. This will prevent media from entering the distributor tube. Do not use duct tape as this may leave unwanted residue. Be sure the distributor tube is solidly attached to bottom vortech plate by lightly pulling up on the tube. If the connection is not solid, call for technical assistance.



## Step 3

Place funnel into fiberglass tank, fitting the tube into the middle of the funnel.



## Step 4

Pour media into funnel, making sure to distribute it around the tube. Media will fall to the bottom of the tank. Your media packet has been pre-measured for the correct amount needed based on the flow rate capacity of the tank. The ScaleNet media is measured out in liters because only a small amount is necessary to be effective for 3 to 5 years, based on hardness and chlorine levels.

## Step 5

Remove tape from the distributor tube.

## Step 6

Notice the indentations around the rim of the top distributor basket, align these with the openings inside the head. Turn the distributor basket clockwise to lock into the bottom of the head.



## Step 7

Fit the basket over the distributor tube and push down, so the tube is fitting into the basket. Once the in-out head has been pushed down on top of the tank, turn clockwise to tighten the in-out head.

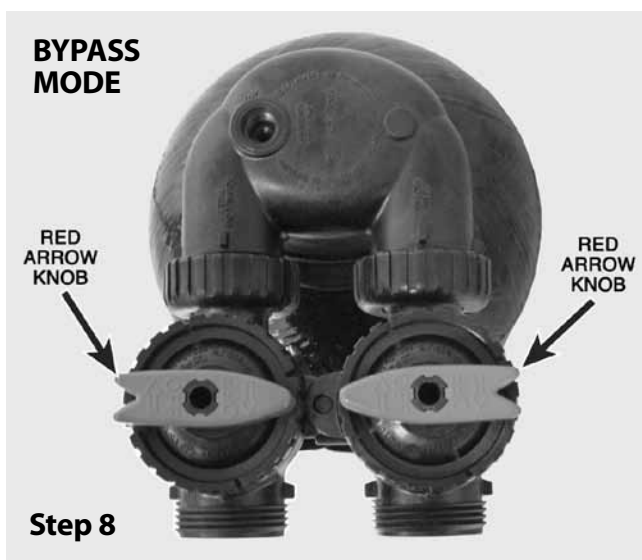
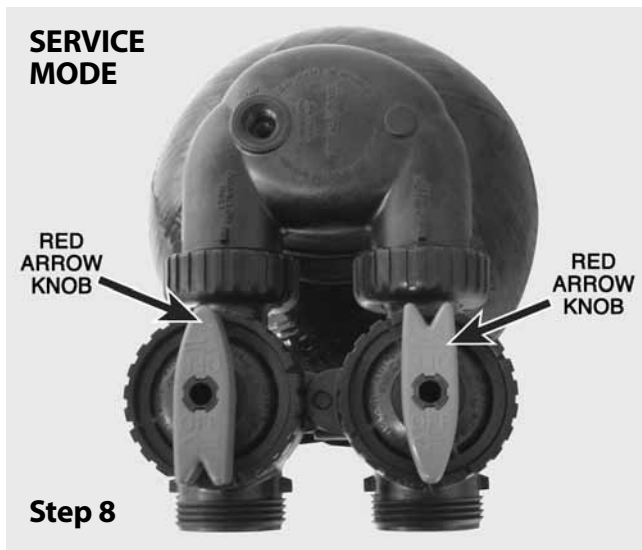


## Step 8

Attach bypass to the in-out head, fitting the male ends with the easy tighten nuts into the female ends of the in-out head. Hand tighten the nuts to seal the connection between the bypass and the in-out head.

**NOTE:** The bypass valve can be used universally for both downflow products (like water softeners) and upflow products (like this system). The red valve handle "arrows" indicate the opposite of actual water flow for this UPFLOW filter.

For UPFLOW configuration:



See diagram on last page for an illustration of water flow direction.

## Step 9

Assemble the two male elbows: slide the quick connect nut onto the end of the male elbow. Next, slide the split ring onto the elbow, push the ring down to the inner most groove. Last, slide O-ring onto elbow, placing in last groove. Repeat for remaining elbow.



## Step 10

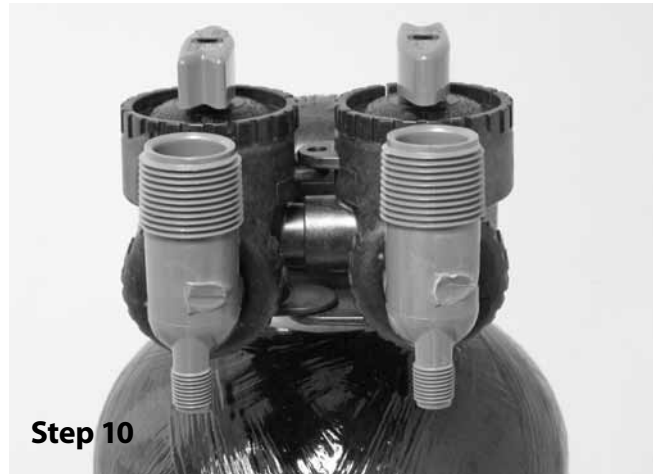
Fit the elbow end with the O-rings onto the bypass, tighten the easy connect nuts. Repeat with other elbow assembly.

The elbows are configured to be used in any direction. Household plumbing can be coming from below, the top or even the side. The elbows can also be oriented 180° to accommodate the existing plumbing configuration.

This is the standard fitting included with the package. To accommodate various plumbing types, alternate fitting configurations are available and assemble identically to the bypass. For additional information, they can be found at:

<http://www.freshwatersystems.com/c-868-clack-parts-accessories.aspx>

The fittings are all proprietary and are the only fittings that will work with the Clack bypass for plumbing connections.



NOTE: This is an UPFLOW filtration system and is fed through the UPFLOW INLET. Feeding the downflow inlet will cause the system to NOT perform to specifications.

Inlet is on the right, even though the left side is also marked inlet.

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