

Air Draw Retrofit Instructions

Assembly:

Retrofitting the Air Draw Kit to a filter valve!

Disconnect the power from the valve; remove the cover and then the drive bracket with the software attached. You then need to remove the drive cap assembly item 2 Fig 1 by un screwing anti clockwise and removing the assembly behind; then add the brine piston item 5 Fig 1, this will clip into position at the end of the amber piston.

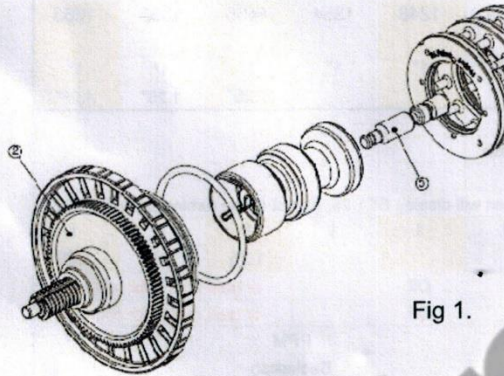


Fig 1.

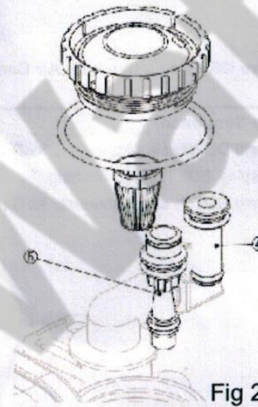


Fig 2

Once done this can be re assembled in reverse order!

You now need to move onto the injector housing and remove the plug item 4 from the DN position and replace with the supplied injector (See Fig 2).

Next you need to remove the brine plug Fig 4 and replace with the brine elbow assy Fig 5

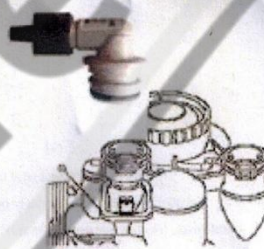


Fig 4



Fig 5

**AIR DRAW
CHECK
VALVE**

An inlet check valve (incorporated within the elbow) is required to hold the air in the tank not allowing it to escape out the inlet.

A screen (to keep out bugs etc.) the injector clean and check valve is required on the "brine" connection so as the controller passes by the brine refill port on the way to service we do not "shoot" water out the air screen assembly.

Installation Note: The drain must be secure, when unit first goes into backwash air is discharged down the drain. This can cause drain line to "jump around" if not secure!

There is also a check valve supplied to go into the valve inlet to prevent back flow, this must be fitted

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Re Programming:

The programming will need to be amended to work with the air draw system as follows:

Clack WSCI Valves Set up as Air Draw Filters.

Software version from 332.2						
Please apply the settings in the following sequence.						
Selections are made using the UP and DOWN buttons until the required setting is displayed.						
After each setting press NEXT to continue.						
Vessel Size	1054	1248	1354	1465	1665	1865
Softener valve OR Filter valve with Air Conversion.	1"	1"	1"	1" 1.25"	1" 1.25"	1" 1.25"
Step 1, Cycle Sequence,						
Press NEXT and DOWN simultaneously for 3 seconds and release.						
Screen will display SOFTENING flashing.						
Press NEXT and DOWN simultaneously for 3 seconds, the screen will display SET 25, Adjust to the turbine setting below.						
Set	1	1	1	1 1.25	1 1.25	1 1.25
Alternating	Off		or (see note 1 for options)			
Set DP	Off		or (see note 2 for options)			
Set Hardness	PPM					
SET Cycle 1	Backwash					
SET Cycle 2	Rinse					
SET Cycle 3	2nd Backwash					
SET Cycle 4	2nd Rinse					
SET Cycle 5	Brine Draw DN					
SET Cycle 6	Final Rinse					
SET Cycle 7	END					
Step 2, System Setup.						
Press NEXT and DOWN simultaneously for 3 seconds and release.						
Screen will display SOFTENING flashing. (Leave as Softening)						
Cycle 1 Backwash	5	5	5	5	5	5
Cycle 2 Rinse	3	3	3	3	3	3
Cycle 3 2nd Backwash	5	5	5	5	5	5
Cycle 4 2nd Rinse	3	3	3	3	3	3
Cycle 2 Brine Draw DN	15	15	15	15	15	15
Cycle 3 Final Rinse	3	3	3	3	3	3
Cycle 4 End	End					
Capacity	Leave as default (not used)					
Set Regen	Off (Regenerations will be based solely on the days override set)					
Set Time Regen	NORMAL (Regen occurs at the next Regen Set Time)					
Set Salt	Off					
Step 3, Display Settings.						
Press NEXT and UP simultaneously for 3 seconds and release.						
HARDNESS with -nA- will display on screen.						
HARDNESS 2 with -nA- will display on screen.						
Regen Day	2 Days					
Set Regen Time Hours	Default 2:					
Set Regen Time Min	Default :00					
Step 4. Set time of day,						
Press SET CLOCK						
Set hours using the up and down buttons.						
Set minutes using the up and down buttons.						
Notes.						
Air draw units should have a Lt Blue injector fitted and leave the brine line flow control in place.						

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General Operation:

The idea of the system is to oxidize the income water, this is accomplished by creating a head of air in a tank which the water passes through which oxidizes the contaminate. As the water flows into the tank (**through a top basket**) it will pass through a "boundary layer" of air and down through the system to the outlet.

Note: Upon returning to service, the inlet water will enter the tank and compress the air within it. The water entering the tank compresses the air and will stop flowing into the unit once the pressure equalizes. Once the pressure equalizes, usually the water level in the tank is around 14" from the top of the tank, creating a 14" dome of air.

