

# INSTALLATION AND USER MANUAL

## Stainless Steel Filter Housings

Models: ESS4, ESS8, ESS12, ESS20



### SPECIFICATIONS

Model	Inlet / Outlet	Max Pressure	Max Flow Rate*	Ideal Flow Rate**	Dimensions Ht x Dia	Cartridge Series	No. of Cart.	Shipping Wt.
ESS 4	2" MNPT	150 psi 10 bar (Kg/cm <sup>2</sup> )	28 GPM (106 LPM)	< 16 GPM	19" x 10"	PD10N --	4 (10" x 2.5")	20 lbs. 9.09 Kg
ESS 8			56 GPM (212 LPM)	< 32 GPM	29" x 10"	PD20N --	4 (20" x 2.5")	30 lbs. 13.6 Kg
ESS 12			84 GPM (318 LPM)	< 48 GPM	39" x 10"	PD30N --	4 (30" x 2.5")	40 lbs. 18.2 Kg
ESS 20			140 GPM (530 LPM)	< 80 GPM	49" x 10"	PD40N --	5 (40" x 2.5")	48 lbs. (21.8 Kg)

### Cartridges not included

\* - Max Flow rate shown is for empty housing only. Actual flow rate depends on filter cartridge used.

\*\* - For highest filtration efficiency

### INSTALLATION CAUTIONS

- The installer must have a sound working knowledge of standard plumbing practices and methods. Otherwise the installation should be done by a plumbing professional
- This unit should always be installed on the discharge side of a pump or pressure tank. **Never install on the suction side of a pump or between pump and pressure tank.**
- Shut-off valves should be installed before and after the filter to allow cartridge changes
- It is recommended to install union couplings and a bypass to facilitate filter installation and removal for service if necessary
- **Never attempt to loosen the cover clamp without relieving pressure from the housing. Failure to do so can result in serious injury**
- Do not install this unit where line pressure may exceed max rated pressure at any time. If such conditions exist or are anticipated, installing a pressure regulator on the feed side of the unit is recommend
- Do not install if fluid temperatures are less than 4°C or higher than 121°C.

### INSTALLATION PROCEDURE

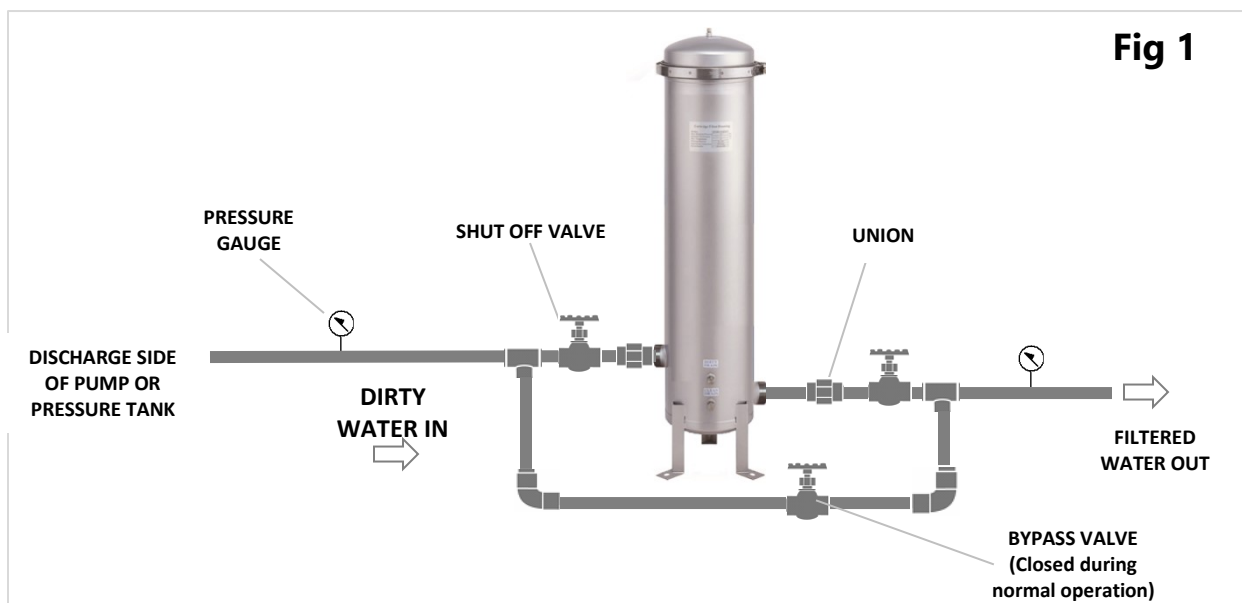


Fig 1

1. Before cutting into piping or making any connections, shut off water flow and relieve pressure from the system
2. Identify the inlet and outlet of the housing and plumb in the unit as per fig A. We recommend plumbing in a bypass, shut-off valves, unions and pressure gauges before and after the unit.



3. Unscrew the cover clamp undo the screw from the clamp

4. Remove the clamp and the top lid from the unit and set aside.

5. Unscrew the hold-down knob from the centre rod and set aside



6. Lift the hold-down plate and set aside

7. Slide a filter cartridge through one of the cartridge V-posts and attach a cartridge spring sealer on the top of the cartridge

8. Insert the rest of the cartridges and then replace the hold-down plate so that the top of the spring sealer comes out of the holes on the hold-down plate

9. Remove the top vent plug
10. Pressurize the system slowly to allow water to slowly fill the housing and for the trapped air to be vented. Once the water level reaches the top vent port, tighten the vent plug
11. Check for leaks and fix if necessary. The unit is ready for service.

## HOW TO REPLACE CARTRIDGES

Regular filter changes are necessary for the proper operation of you filter system. Replace cartridges when pressure drops by 10 psi or flow drops. Check the filter cartridge replacement frequency for details. To replace cartridges, follow steps 3 to 6 above. Remove old cartridges and dispose. Follow steps 7 to 11.

## LIMITED WARRANTY

Envirogard system housings are warranted, to the original Consumer purchaser/owner, for a period of one (1) year, from the date of purchase, against defects in materials or workmanship. The Company's obligation under this warranty shall consist of repair, replacement or credit, at its option, of any part found by Company inspection to be defective, provided that the product has not been misused, abused, altered or damaged as determined by the Company and provided that only approved Rainfresh Professional replacement cartridges and seals have been used in the housing. This warranty does NOT apply to the replacement cartridge which by nature will diminish in performance through normal use and requires regular replacement. This warranty does NOT cover, and is intended to exclude, any liability on the part of Company for any incidental damages, consequential damages, labour charges or any other costs incurred in connection with the purchase, installation, use, maintenance or repair of the water filter whether under this warranty or any other warranty implied by law. Some provinces/states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from province to province/state to state. This warranty applies only to equipment purchased and installed in domestic residential applications in Canada or the U.S.A. This warranty does NOT apply to commercial/industrial installations.

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