

Part Description

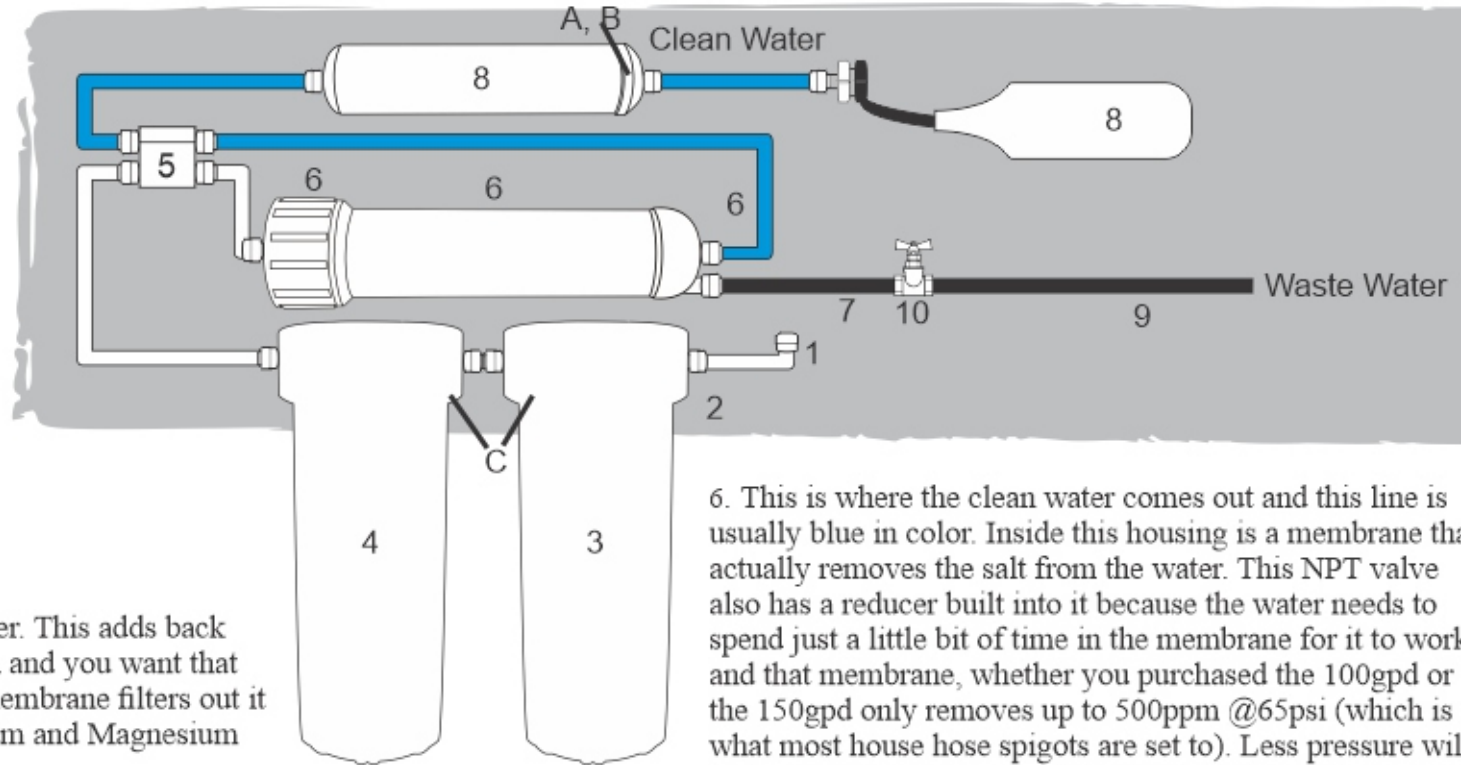


1. Optional hose adapter, this attaches to most every garden spigot
2. This is the inlet line- usually we use blue tubing for this.
Also, all tubing comes in 5' lengths
3. The sediment filter removes particles like rocks before it clogs everything past it.
4. The carbon filter (or dechlorinator) removes the chlorine and odor

5. Optional- this is part of the **float package**- a pressure valve allows the small amount of back pressure the float exerts on the valve to cause the larger side of the valve to shut off the supply to the membrane. This has the added bonus of shutting off your waste water too. That way there is zero water flow when the float triggers the pressure valve. And remember, there is an in and an out to the pressure and that the float connects to the shorter side and the water supply to the membrane housing to the taller side.

8. Optional- this is the post RO mineralizer. This adds back about 50ppm of Calcium and Magnesium and you want that because along with all the bad stuff the membrane filters out it also filters out the good stuff. Like Calcium and Magnesium

7. Optional- this is part of the **float package**- a float valve allows you to walk away from your res and still be sure it will always be full when you need it. Personally, I always use a float valve but I still worry about flooding. That's why you should always use a res meant to hold water. The last thing you need is for your cheap trash can res to split and dump it's water.



6. This is where the clean water comes out and this line is usually blue in color. Inside this housing is a membrane that actually removes the salt from the water. This NPT valve also has a reducer built into it because the water needs to spend just a little bit of time in the membrane for it to work and that membrane, whether you purchased the 100gpd or the 150gpd only removes up to 500ppm @65psi (which is what most house hose spigots are set to). Less pressure will decrease the effectiveness but we rarely hear about problems from pressure. One more thing- you should not expect zero PPM water, most quality RO machines only remove PPMs down to the 20~40ppm level.

9. Waste water, usually black tubing.

10. Waste Water Reducer Valve- set at the factory (read my store) we turn this down initially just to reduce the water flow during start up. Read the "Setting Up Your RO" section for more details.

11. Found only on the 200gpd & 300gpd machines this is a 2-into-1 adapter.

12. Filter wrench, for removing the filter

Maintenance

Most filters and membranes can last up to a year under light duty use as defined by producing 25% or less of their daily capacity. We suggest replacing the filters and membranes at the least, once yearly even at 75% capacity or when PPMs double from what they were at the end of the first week of use.

If you are using the RO at a 100% flow rate- we suggest replacing the filters and membrane every 6~9 months.

Replacing the filters just requires the use of the wrench, no need to remove any tubing. Replacing the membrane however does require removal of the tubing. To do that, support the fitting by pushing on the elbow portion while pushing in on the tubing. Then hold down the fitting collar with a finger while pulling the tubing out. This requires very little force. Then just unscrew the membrane housing, use pliers to pull out the old membrane and just push the new one in. Make sure both o-rings are in place and not pinched or loose then hold the cap face use and screw the housing down into it so the o-rings don't fall out or get pinched during reassembly. It will obvious after assembly if they did fall out or get pinched when the housing leaks later.

Setup

1. If you have any questions or problems- call us @702-434-7365 do not call your store. We warranty our systems and we are 100% accountable to you, the customer.
2. Hook up the water supply to the tubing with the hose connector attached
3. For now run both the clean and waste water somewhere it can drain and let the water flow for 5~10 minutes
4. Use the waste water reducer valve to reduce the waste water flow until it matches the clean water flow and now your system is 1:1. You can do this visually or you can let them fill up 2-glasses to compare.
5. Now connect your float (if you purchased that option) or run your blue, clean water tubing to where ever it goes
6. Run your waste water to where ever that goes and you are done.

The Grow Boss Ultimate RO

Congratulations on your purchase of a Ultimate RO from The Grow Boss. It does of course come with a filter wrench for maintenance and the option for purchasing additional lengths of if you have any questions you can call us at 702-434-7365 during business hours. Just remember to use that float valve to set the waste water to 1:1.

Options

Float Assembly Y

Post RO Mineralizer qty

Hose Adapter Y

Additional Membrane qty gpd

Additional Filter Set qty

Rebuild kit- Membrane + Filters + Tubing + O-Rings

20' Tubing Upgrade Y

MARIJUANA GARDEN CONSULT



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\$29 for 30-Min

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