



**HIGH  
PERFORMANCE  
FILTRATION**

## **Anti-Scale Spot Free Rinse De-Ionising 9" x 35" Media Vessel System | Medium/Small Scale Home Window Cleaning & Car Detailing Water Filter (GT1-91-DI)**



**Please read through the entire instruction manual fully before commencing installation.**

### **IMPORTANT NOTE BEFORE COMMENCING INSTALLATION OF THIS SYSTEM**

**This system may be installed in a permanent location, however, it is not designed to sit under static pressure for extended periods of time (i.e. turn off the water flow/inlet pressure when not in use). DO NOT use any type of liquid thread sealant as this will cause the cap to split shortly after it cures – warranty will not cover this. Thread tape is the only form of sealing material permitted.**

**Alternatively, you can also use a suitable 1" BSP fitting with an O-ring for sealing.**

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# Technical Overview

## I. Important Notes

**For correct operation of this appliance, it is essential to observe the manufacturer's instructions.**

This system may be installed in a permanent location, however, it is not designed to sit under static pressure for extended periods of time (i.e. turn off the water flow/inlet pressure when not in use). Failure to follow these guidelines may void warranty and insurance.

## II. Before You Purchase/Open

These systems are designed for use with Mains Water (preferably carbon pre-filtered, as Chlorine and Chloramine can deplete the DI resin) at the recommended flow rates listed below. Please note that the lifespan of DI Resin filter media varies according to feedwater conditions, usage and your unique filtration requirements. For applications where raw water supplies are used (E.g. Bore, Dam, Creek) please contact the manufacturer for technical assistance to determine if this product is suitable for your application.

MODEL		12.5L	25L
Feed Water Conditions	Min	Max	
Working Pressure (Ideal Operating Pressure = $\leq 700$ kPa)	-	1000 kPa	
Recommended Flow	-	15L/Min	30L/Min
Max Vacuum	-	17kPa (5" Hg) Negative Pressure	
Nominal Volume	-	32 Litres	
Temperature	1°C	50°C	
Hardness	-	<50 mg/L	
TDS	-	<200 mg/L	
Iron	-	<0.02 mg/L	

## III. Before You Begin Installation

- The vessel should be handled by the body only. Handling this system via the head cap may cause cracks/fractures, which are not covered by warranty.
- The GT1-91-DIMedia Vessel kit comes standard with a Pressure Vessel (H-0935-FRP-2.5), a 1" BSP Port Head Cap (GT36-64N) and a 1" Lateral Drop Tube (Riser Pipe) (GT36-30) (the tube is pre-cut to the exact length required for installation with the bottom strainer pre-installed). These units are batch tested to ensure there are no leaks. Due to transit, fittings and other components may be loosened or damaged – **ensure the system and all components are inspected for damage prior to setting it up.**

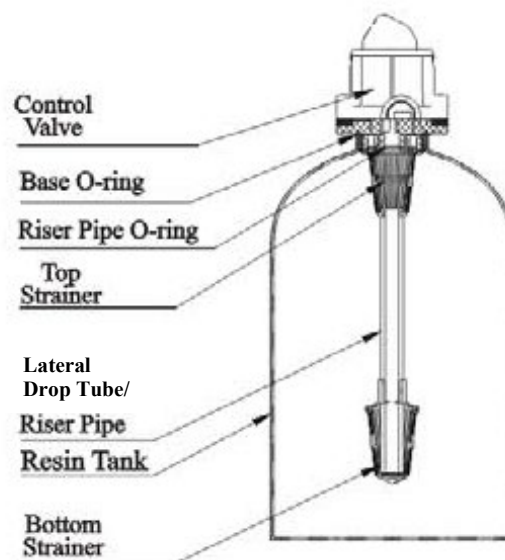


Figure 1-1

- It is common for DI Resin Media to be used after additional filtration systems for different applications (e.g. after carbon filtration, as Chlorine/Chloramine can deplete the DI resin). If using a pre-filter, ensure it is adequately flushed before connecting it to the DI Vessel.
- The GT1-91-DI Pressure Vessel is UV resistant, however where possible, it is best for the longevity of the system to store the unit under cover to shield it from direct sunlight and weather extremes such as rain, storms and frost.
- Please refer to the below diagram for installing the hose connection to the head cap. All parts shown below are included in the filter kit:



- **DO NOT use any type of liquid thread sealant as this will cause the cap to split shortly after it cures – warranty will not cover this. Thread tape is the only form of sealing material permitted, although this should not be required as all sealing components feature an o-ring.**

#### IV. Filling the Vessel with Media & Start-Up Commissioning

1. Lower the drop tube (riser pipe) into the vessel, dome end first, and centre it into the depression at the bottom of the vessel. Using the funnel (sold separately), fill the bottom of the vessel slowly with the supplied amount of filter media (i.e. DI Resin). NOTE: Be careful not to spill any resin media in the centre of the drop tube. Ensure the drop tube stays centred during the filling process.
2. Fit the top screen to the Head Cap and lock into place.
3. Install the base seal ring then fit the Head Cap to the Vessel, and ensure that the o-ring stays in place while tightening the Head Cap.
4. Connect the supplied Male Hex Joiners and Hose Connections to the head cap, if you have not already done so (per the above diagram).
5. Connect your hose to the Head Cap Inlet Hose Connection only, then turn the tap on slowly until all air and any loose resin media is purged from the filter.
6. Once the lines have been sufficiently purged of air, close the tap.
7. Connect the hose between the Head Cap Outlet and your pressure washer (if using) or hose nozzle. Your system should now be fully operational.

## Maintenance

### I. Spare Parts

There are generally no parts (excluding consumables) on the system that will require periodic replacement at regular intervals. Below is a list of items that may be applicable:

H-0935-FRP-2.5	HPF 9" x 35" FRP Tank (Grey) with 2.5" Opening
GT36-34K	Bottom Screen for 1" Tube
GT36-64N	1" BSP Port Head Cap
GT36-30	1" Drop Tube
GT19-35SC	1" x 1" BSP Male Hex Joiner
GT19-155	20 x 25mm Tap Adaptor
GT5-12S	INDION® Mixed Bed Resin (DI Resin) (9kg or 18kg)

### Replacement Filter Media

The lifespan of DI Resin filter media varies according to feedwater conditions, usage and your unique filtration requirements. You can test for the presence of TDS quickly and easily by placing a few drops of DI filtered water in a clean, residue-free glass, allowing the water to evaporate, and then checking for the presence of scale - if you notice white spots have formed, it's time to change your filter. Alternatively, you can test the TDS level of your system with a properly calibrated TDS Meter, such as the HM Digital Com-100 TDS/EC Pen (sold separately).

## Troubleshooting

Problem	Possible Cause(s)	Solution
Leaking from in/out Ports	1. Insufficient Thread Tape  2. Crack/Split  3. Incorrect Fitting	1. Remove existing tape and apply slightly more tape – do not apply excessive amounts to avoid damage to port. 2. Check the port for a hairline crack or split – if there is one, the cap will need to be replaced, it is not repairable. 3. The caps are 1" BSP and will require preferably a 1" BSPT male fitting.
No Water Flow	1. Valve Position (Only applicable if plumbed in with a bypass). 2. Insufficient pressure	1. Check that the bypass and service valves are in the correct position. Ensure the mains is also turned on. 2. Check the incoming water pressure and ensure it meets the requirements of the selected filters. NOTE: some filters require higher pressure to operate.
Cloudy Water	1. Dissolved Oxygen	1. Air is common whenever the system is opened. This will dissipate over time as the air flushes from the system/plumbing.



## General Warranty

Water Filter Systems<sup>1</sup> (Excluding consumables) Manufactured or Assembled<sup>2</sup> by High Performance Filtration (HPF) are covered under a 12-month Warranty Against Defects (Manufacturer's Warranty). This warrants the water filter system to be free from defects in material and workmanship for a period of 12 months from date of sale.

If applicable, HPF may cover the return freight in the form of a re-imbursement after the system has been inspected and confirmed it is a valid warranty claim.

HPF will not cover any labour charge incurred by the consumer for the replacement or repair of a product. The warranty is strictly parts only for the parts supplied by HPF. This warranty only applies to the original consumer of the product and is non-transferable. If you have purchased the system through a re-seller, please contact them to facilitate the warranty on your behalf. All replaced or exchanged parts become the property of HPF.

HPF does not cover the workmanship of the plumber who originally installed the system. Responsibility for damages that occur during installation fall with the plumber.

## Qualification for Warranty

As per Australian Plumbing Codes, all filter systems must be installed by a qualified plumber. The consumer is responsible for keeping record and proof of installation in the form of an invoice and/or receipt.

Filter systems must be maintained as per HPF recommendations<sup>3</sup> including the use of replacement filters, fittings and components supplied by HPF. Failure to maintain the filtration systems using HPF supplied/approved products may void warranty.

The warranty only applies if the product was used and/or installed in accordance with the user guide and/or installation instructions. This warranty is given in lieu of all other express or implied warranties and manufacturer shall in no circumstance be held liable for damages consequential or otherwise or delays caused or faulty manufacturing except as excluded by law.

Warranties need to be approved by HPF to ensure the product was not incorrectly used, installed or claimed. False and incorrect claims will be pursued at HPF's discretion including chargeable inspection and transit costs incurred.

HPF does not take responsibility for retaining customer records, it is the consumer's responsibility to retain all invoices or proof of purchase from the original sale and ongoing maintenance records as proof of upkeep.

## Warranty Exclusions

HPF Standard Warranty shall be void if the product sustains damage or failure resulting from any of the following:

- If your system(s) fails to be maintained in accordance with recommended servicing and as per the manufacturers operating instructions.
- Unauthorised or abnormal use or operation.
- Exposure to unsuitable environmental conditions\*.

HPF does not cover the work of the plumber who originally installed the system.

### Warranty – Australia

This warranty is given by High Performance Filtration (Jacknel Pty Ltd ATF The J & N Family Trust). ABN 64 855 305 562 Located at 7/38 Jade Drive, Molendinar QLD 4214. Ph 07 5597 6142 & email [info@hpfiltration.com.au](mailto:info@hpfiltration.com.au)

This warranty is provided in addition to other rights and remedies you have under law. Our products come with guarantees which cannot be excluded under the Consumer Guarantees Act.

#### Definitions

<sup>1</sup> Water Filter Systems are defined as systems designed for drinking water under our Water filter Systems, Reverse Osmosis Systems & Ultraviolet Sanitation Categories – Excluding Cartridges and Shower Filters.

<sup>2</sup> Other products not manufactured or assembled by HPF are covered under the applicable manufacturer's warranty.

<sup>3</sup> HPF specifies recommended or required filter maintenance – see product information for further details. If a maintenance schedule is not specified, filter maintenance is required at least once per 12 month period.

\* Unsuitable environmental conditions include but are not limited to; Excessive hot or cold, Weather extremes.