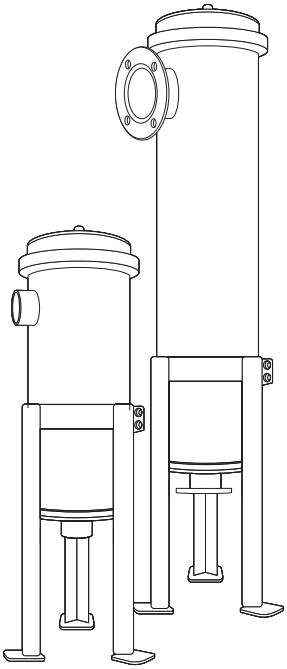
Puretec®
PERFECTING WATER

⚠ CAUTION

DO NOT OVERTIGHTEN.



User Guide

SSBH Series

Stainless Steel Water Filter Housing

SEP2021

For correct operation & installation, it is essential to observe these instructions.

What's Inside

Installation Record

Product Information	
Distributor:	
Installer:	
Phone:	
Date Installed:	

Puretec Customer Service

Thank you for purchasing a Puretec SSBH Series stainless steel water filter housing. Your system is a proven performer manufactured from quality materials and components and will give years of heavy-duty sediment filtration, if maintained and installed properly (refer installation requirements).

Introduction

The Puretec SSBH Series stainless steel filter housings offers a variety of solution for your large scale, heavy-duty filtration needs. Simple to install and maintain, these housings are ideal for schools, restaurants, farms, institutions and industrial use.

Unlike cartridge filters or strainers, all the contaminants are captured within the bag and do not pass into a process stream when a bag is replaced.

An economical bag filter can be used to improve the life of more expensive down stream filters and is often placed first in a filter train. Considerable savings can be made for a modest investment.

Differential Pressure

It is important to regularly check the pressure differential across the unit during operation. Operating above the recommended pressure will affect the flow rate and reduce the efficiency. When the differential pressure exceeds 110 kPa / 16 psi it is time to replace the bag filter (see Bag Filter Replacement).

If the pressure differential drops suddenly, cease operation and isolate the unit, purge the water from the unit and check the unit thoroughly for stress or fractures. Sudden pressure fluctuations can cause seal failure and/or filter rupture. If the filter bag ruptures the differential pressure will be zero.

A lack of differential pressure indicates that no filtration is taking place. When filtration is taking place the inlet pressure should be slightly higher than the outlet pressure. Differential pressure will gradually increase as the filters start to retain more debris.

Preparing Your System

Puretec systems are designed to run economically for many years but this is dependent on the initial installation and periodical maintenance.

Please read all instructions carefully as failures caused by incorrect installation or operation are not covered by warranty.

On removing your SSBH housing from its carton you should check all the components to ensure all are present and have not been damaged in transportation. See individual model specification pages for full list of inclusions. Remove all the packing materials prior to use. As a responsible manufacturer we care about the environment. We urge you to follow the correct disposal procedure for your product and packaging materials. You must dispose of this product and its packaging according to local laws and regulations.

Fig. 1 – Exploded Diagram

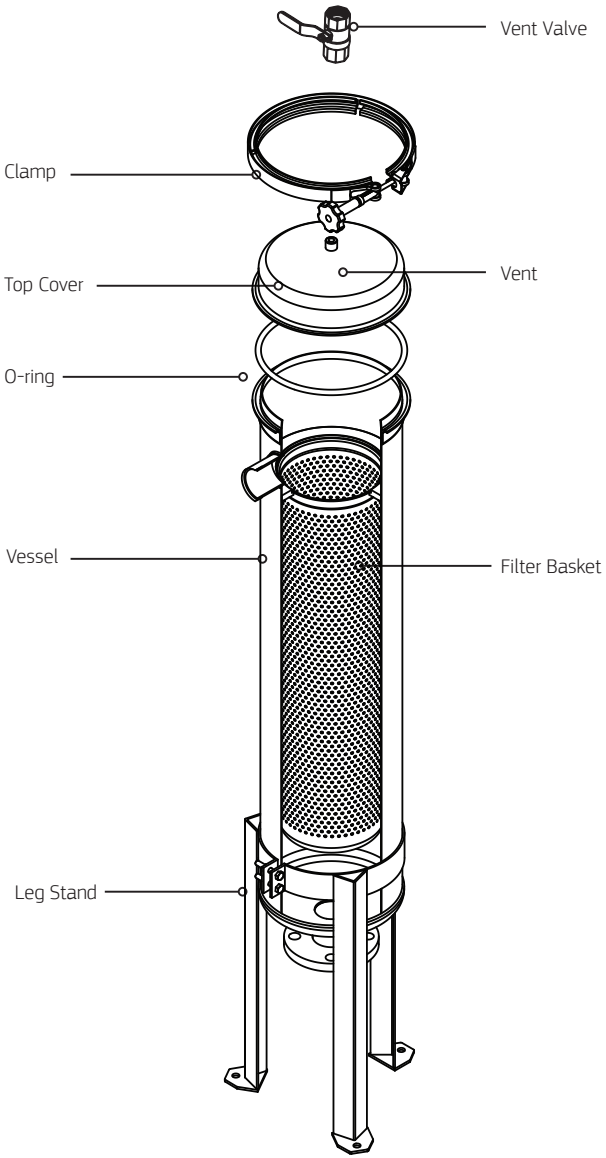
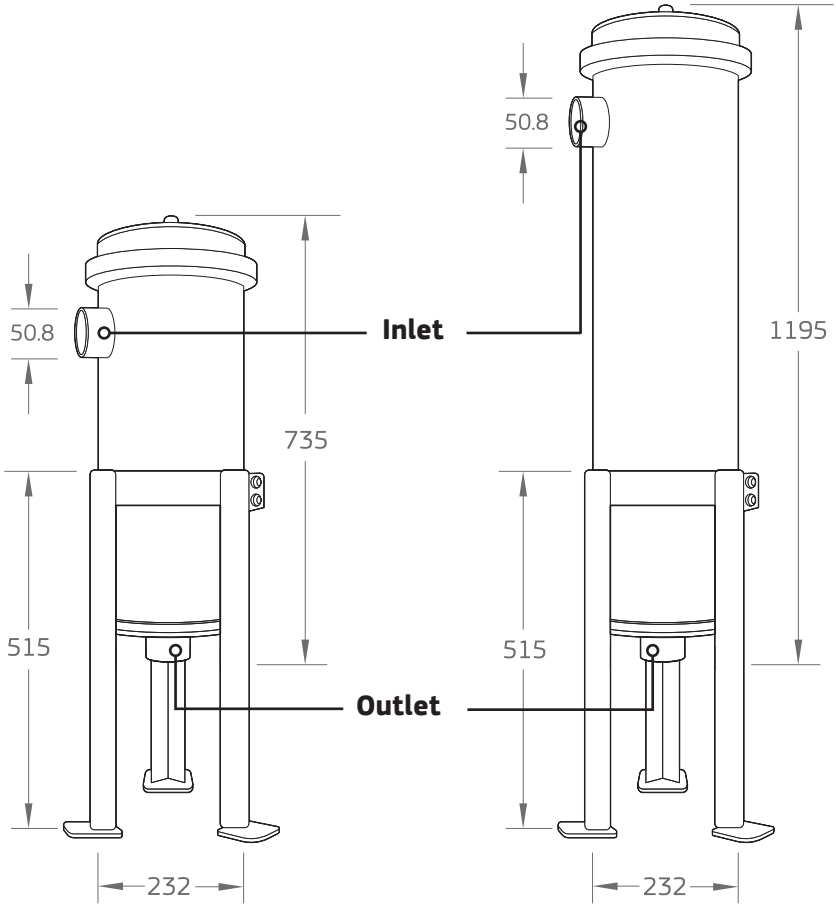


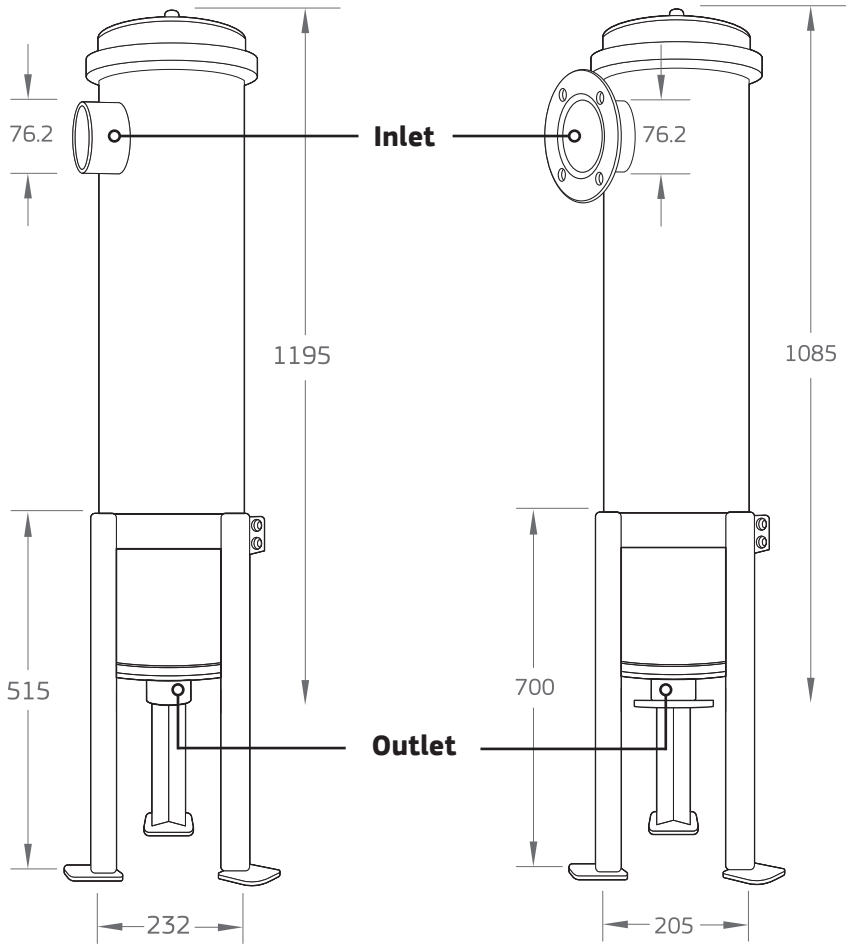
Fig. 2 – Dimensions
(SSBH-1-50-304, SSBH-1-50-316 & SSBH-2-50-316)



SSBH-1-50-304 & SSBH-1-50-316

SSBH-2-50-316

Fig. 3 - Dimensions
(SSBH-2-75-316 & SSBH-2-75F-316)



SSBH-2-75-316 **SSBH-2-75F-316**

SSBH-1-50-304

Maximum Operation Pressure:	1034 kPa
Operating Temperature Min/Max:	4 - 75°C (protect from freezing)
Connection Size:	2" BSPF
Inlet/Outlet Location:	Inlet: Side / Outlet: Bottom
Material:	4-304
O-ring:	E-EPDM
Weight:	21 kg
Volume:	27 L
Flow:	20 m3/hr (340* Lpm)

*Flow rate is dependent on bag filter used. Application should be designed according to bag filter capabilities.

BAG FILTER REPLACEMENTS *(not included)*

SSBR011	1 Micron	Size 1
SSBR051	5 Micron	Size 1

INCLUSIONS *(pre-assembled)*

Stainless Steel Filter Housing (Vessel)
Stainless Steel Filter Basket
Clamp
Top Cover
Leg Stand
User Guide

SBH-1-50-316

Maximum Operation Pressure:	1034 kPa
Operating Temperature Min/Max:	4 - 75°C (protect from freezing)
Connection Size:	2" BSPF
Inlet/Outlet Location:	Inlet: Side / Outlet: Bottom
Material:	6-316
O-ring:	E-EPDM
Weight:	21 kg
Volume:	27 L
Flow:	20 m3/hr (340* Lpm)

*Flow rate is dependent on bag filter used. Application should be designed according to bag filter capabilities.

BAG FILTER REPLACEMENTS *(not included)*

SSBR011	1 Micron	Size 1
SSBR051	5 Micron	Size 1

INCLUSIONS *(pre-assembled)*

Stainless Steel Filter Housing (Vessel)
Stainless Steel Filter Basket
Clamp
Top Cover
Leg Stand
User Guide

SSBH-2-50-316

Maximum Operation Pressure:	1034 kPa
Operating Temperature Min/Max:	4 - 75°C (protect from freezing)
Connection Size:	2" BSPF
Inlet/Outlet Location:	Inlet: Side / Outlet: Bottom
Material:	6-316
O-ring:	E-EPDM
Weight:	26 kg
Volume:	46 L
Flow:	45 m3/hr (757* Lpm)

*Flow rate is dependent on bag filter used. Application should be designed according to bag filter capabilities.

BAG FILTER REPLACEMENTS *(not included)*

SSBR012	1 Micron	Size 2
SSBR052	5 Micron	Size 2
SSBR252	25 Micron	Size 2

INCLUSIONS *(pre-assembled)*

Stainless Steel Filter Housing (Vessel)
Stainless Steel Filter Basket
Clamp
Top Cover
Leg Stand
User Guide

SSBH-2-75-316

Maximum Operation Pressure:	1034 kPa
Operating Temperature Min/Max:	4 - 75°C (protect from freezing)
Connection Size:	3" BSPF
Inlet/Outlet Location:	Inlet: Side / Outlet: Bottom
Material:	6-316
O-ring:	E-EPDM
Weight:	26 kg
Volume:	46 L
Flow:	45 m3/hr (757* Lpm)

*Flow rate is dependent on bag filter used. Application should be designed according to bag filter capabilities.

BAG FILTER REPLACEMENTS *(not included)*

SSBR012	1 Micron	Size 2
SSBR052	5 Micron	Size 2
SSBR252	25 Micron	Size 2

INCLUSIONS

Stainless Steel Filter Housing (Vessel)
Stainless Steel Filter Basket
Clamp
Top Cover
Leg Stand
User Guide

SSBH-2-75F-316

Maximum Operation Pressure:	1034 kPa
Operating Temperature Min/Max:	4 - 75°C (protect from freezing)
Inlet Connection Size:	3" Flange ISO 7005 (DIN) PN10/16
Inlet/Outlet Location:	Inlet: Side / Outlet: Bottom
Material:	6-316
O-ring:	E-EPDM
Weight:	26 kg
Volume:	46 L
Flow:	45 m3/hr (757* Lpm)

*Flow rate is dependent on bag filter used. Application should be designed according to bag filter capabilities.

BAG FILTER REPLACEMENTS *(not included)*

SSBR012	1 Micron	Size 2
SSBR052	5 Micron	Size 2
SSBR252	25 Micron	Size 2

INCLUSIONS

Stainless Steel Filter Housing (Vessel)
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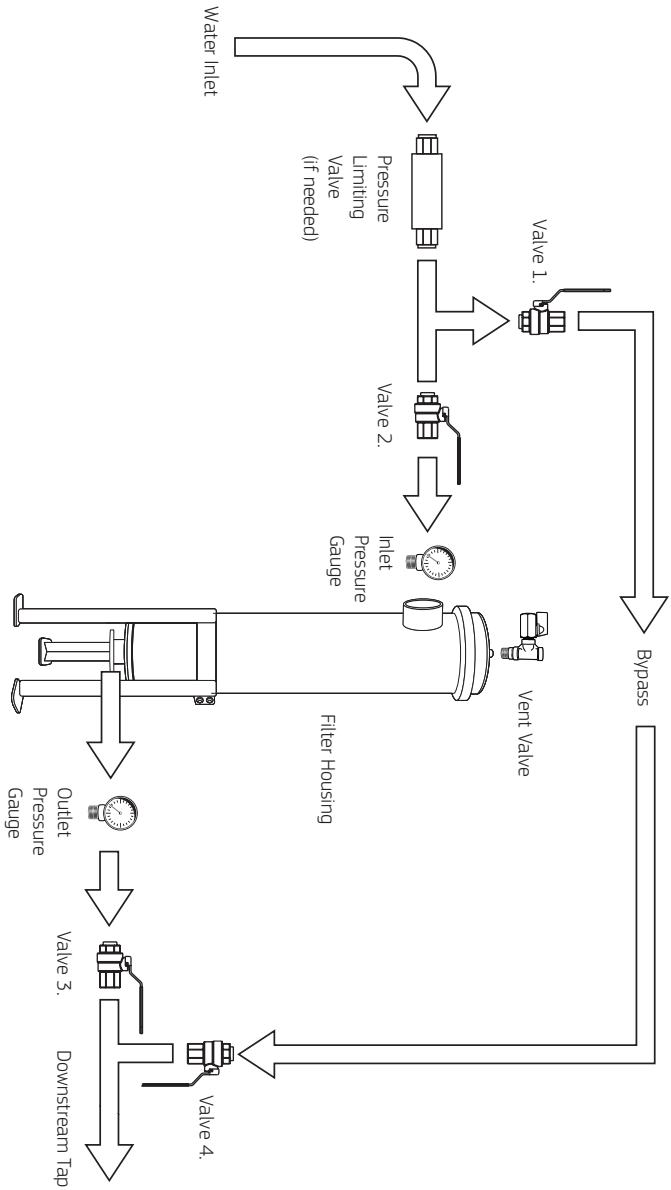
Fig. 4 - Ideal Installation



Before Installation

Important Notes:

- The system MUST be installed vertically, as shown in the diagram on page 12. DO NOT install the system horizontally as this could result in uneven pressure/damage the system and will void the warranty.
- If pressure exceeds max pressure, an approved pressure limiting device needs to be fitted. If water hammer is present, fit a hammer arrestor close to the source of the hammer. **Note:** Check local plumbing regulations as a specific kPa limit for the pressure limiting valve may be required.
- Always use a rubber mallet to tighten the housing clamp on the flanged models. The toggle on the clamp must only be tightened by hand. Hand tighten the clamp then take the rubber mallet and tap the clamp around the circumference. This seats the clamp correctly and will allow for the clamp to be hand-tightened further. There should be an approx 5 mm gap when tightened correctly. DO NOT tighten the clamp to the point where the edges of the clamp touch as this will break the clamp when in service.
- Check that the O-ring and filter media is compatible with water being filtered. DO NOT use the housing for the filtration of compressed air or other gasses.
- The legs cannot withstand any extreme torque and should not be put under any pressure from surrounding components, plumbing or other fixtures.
- A pressure relief valve should be installed upstream of the inlet to protect the unit from any pressure surge or pulsation.

Installation Note: A water filter system/tap, like any product, has a limited life and may eventually fail. Also sometimes failure happens early due to unforeseen circumstances. To avoid possible property damage, this product should be regularly examined for leakage and/or deterioration and replaced when necessary. A drain pan, plumbed to an appropriate drain or outfitted with a leak detector, should be used in those applications where any leakage could cause property damage, and/or the water supply should be turned off if no one is home/present.

INSTALLATION MUST BE COMPLETED BY A LICENCED PLUMBER. FAULTY OPERATION DUE TO UNQUALIFIED PERSONS WILL RESULT IN VOIDED WARRANTY COVERAGE.

Installation

1. Loosen the leg stand bolts and adjust the height to ensure there is suitable space for the outlet. Firmly tighten the leg stand bolts.

2. Position the unit in a suitable area with a sturdy base. Use bolts (not provided) to fasten the unit to the base via the provided holes in the feet of the legs. For the location of the inlet and outlet connections see Fig. 2 & 3 on page 5 & 6.

3. Install suitable isolation valves (not included) either side of the housing with a by-pass valve if the filter bags need to be changed whilst the system is operational (see Fig. 4).

4. Install a vent valve on the top cover of the vessel to vent the housing. Any automatic vent valve may need additional support.

5. For filter motoring, it is best done by observing the difference in pressure between the incoming and outgoing water pressure. To do this, install the appropriate pressure gauges or pressure differential instrument (not provided) best suited to your application (see Fig. 4).

6. Remove all packaging material from the inside of the housing.

7. If pressure exceeds max pressure, an approved pressure limiting device needs to be fitted. If water hammer is present, fit a hammer arrestor close to the source of the hammer. **Note:** Check local plumbing regulations as a specific kPa limit for the pressure limiting valve may be required.

   Check that the O-ring and filter media is compatible with water being filtered.

   Warning: DO NOT use the housing for the filtration of compressed air or other gasses.

8. Insert the filter bag (not included - sold separately) into the housing. Puretec filter bags are supplied inside-out to keep the media clean. Inspection of the bag will show a fibrous side and a singed side. Bags must be turned label side out before use. Remove the label before use.

9. Sit the bag on the support basket. Ensure the bag sits flat.

10. Place the top cover onto the vessel and secure with the clamp. Ensure that the clamp completely seals the top lip and O-ring is clean and not damaged. HAND TIGHTEN the clamp key leaving approx 5 mm between the sides of the clamp. DO NOT OVER-TIGHTEN as a damaged O-ring will not seal. Use a rubber mallet if needed.
11. Close any drain ports and open the vent valve.
12. Slowly open the inlet valve and allow the air in the housing to expel through the vent valve.
13. When water starts to pass out of the vent valve, close the vent valve and check for leaks. Open the outlet valve.
14. The system is now ready for use.

Bag Filter Replacement

WARNING: Do not attempt to open a filter while the inlet or outlet valves are open or while housing is under pressure.

1. Close the inlet valve.

   Note: Always close the inlet valve first.
2. Close the outlet valve.
3. Open up the vent valve to allow all pressure from the housing to be released before attempting to open the vessel. Care should be taken to keep face and hands protected and clear of the filter while venting the filter vessel.

   Caution: Never remove or loosen closure bolts before venting. Failing to open the vent valve to release the pressurised could cause personal injury or damage to equipment.
4. Loosen the key and remove head bolt on the clamp.
5. Remove the top cover to access the filter bag.
6. Remove the filter bag by grasping the ring through the material and pull firmly upward. Some bags have a handle which can also be pulled upwards.
7. Lift and remove the bag filter from the housing.

8. Periodically remove and clean the filter basket and check the basket O-ring for damage and replace if necessary.

9. Clean and inspect the vessel interior.

10. Place the filter basket back into the vessel, making sure it is seated evenly .

    Note: Puretec bag filters are supplied inside-out to keep the media clean. Inspection of the bag will show a fibrous side and a singed side. Bags must be turned label side out before use. Remove the label before use.

11. Install the new bag filter by inserting the bag into the vessel and pushing the bag down into the filter basket, below the inlet port. Any handle should be above the bag.

    Puretec housings are designed to take both plastic and steel ring bags.

12. Place the top cover onto the vessel and secure with the clamp. Ensure that the clamp completely seals the top lip HAND TIGHTEN the clamp key leaving approx 5 mm between the sides of the clamp. DO NOT OVER-TIGHTEN as a damaged O-ring will not seal. Use a rubber mallet if needed.

13. Close any drain ports and open the vent valve.

14. Slowly open the inlet valve and allow the air in the housing to expel through the vent valve.

15. When water starts to pass out of the vent valve, close the vent valve and check for leaks. Open the outlet valve.

16. The system is now ready for use.

Warranty

Any claim under this warranty must be made within 1 year of the date of purchase of the product. This product is warranted to be free of defect of material and workmanship for 1 year from date of purchase. Warranty is 1 year parts and labour, excludes consumables. To make a claim under the warranty, take the product and proof of purchase to place where you purchased the product, and they will lodge a Warranty Request with Puretec.

Puretec will pay your reasonable, direct expenses of claiming under this warranty. You may submit details and proof of your expense claim to place of purchase for consideration.

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.

Applicable to all above, is that the warranties need to be approved by Puretec to ensure product was not incorrectly used, installed or claimed. False and incorrect claims will be pursued at Puretec's discretion, including chargeable inspection and labour costs incurred.

All installation and service work should be completed by qualified tradespeople. Faulty operation due to unqualified persons will result in voided warranty coverage.

Warranty/Australia

This warranty is given by Puretec Pty Ltd, ABN 44 164 806 688, 37-43 Brodie Road, Lonsdale SA Australia 5160, telephone no. 1300 140 140 and email at sales@puretec.com.au.

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty/New Zealand

This warranty is given by Puretec Ltd, Reg. No 4464398, PO Box 875 Cambridge 3450 NZ, telephone no. 0800 130 140 and email at sales@puretec.co.nz.

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Consumer Guarantees Act. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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W puretec.com.au

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