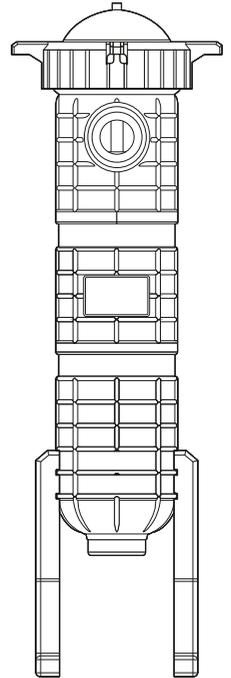




**Puretec**<sup>®</sup>  
PERFECTING WATER

**! CAUTION**

**DO NOT OVERTIGHTEN.  
DO NOT USE  
LIQUID SEALANTS.**



# User Guide

## CBH Series

Big Bertha Bag Filter Housing

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Product Information	
Distributor:	
Installer:	
Phone:	
Date Installed:	

## Puretec Customer Service

Thank you for purchasing a Puretec CBH Series water filter housing. Your system is a proven performer manufactured from quality materials and components and will give years of 'spring like' water, free of impurities, if maintained and installed properly (refer installation requirements pg.5).

## Introduction

The Puretec Big Bertha is a high flow bag filter housing for commercial and industrial applications. This convertible filter housing is an economical solution for most industrial filtration applications. The strong and lightweight filter vessel is resistant to a wide range of chemicals and converts easily from filter bag usage to cartridge filters.

**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.

## Taking Care of Your System

The CBH50 is made of 100% polypropylene and can be damaged if handled roughly. After transporting the CBH, check the unit for stress or cracks.

Care should be taken to protect the system from ignition sources as polypropylene is flammable.

## Operation Data

Maximum Operating Temperature @ Pressure

- 25°C @ 600kPa
- 45°C @ 550kPa
- 60°C @ 500kPa

\*Minimum Temperature: 2°C (Protect from freezing)

## 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 CBH50 system from its carton you should check all the components to ensure all are present and have not been damaged in transportation. You should have:

1. CBH50 filter housing
2. Leg stand set with corrosion resistant fasteners
3. High quality PP filter basket
4. Adjustable filter bag lock

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.



CBH50 UNIT



LEG STAND SET



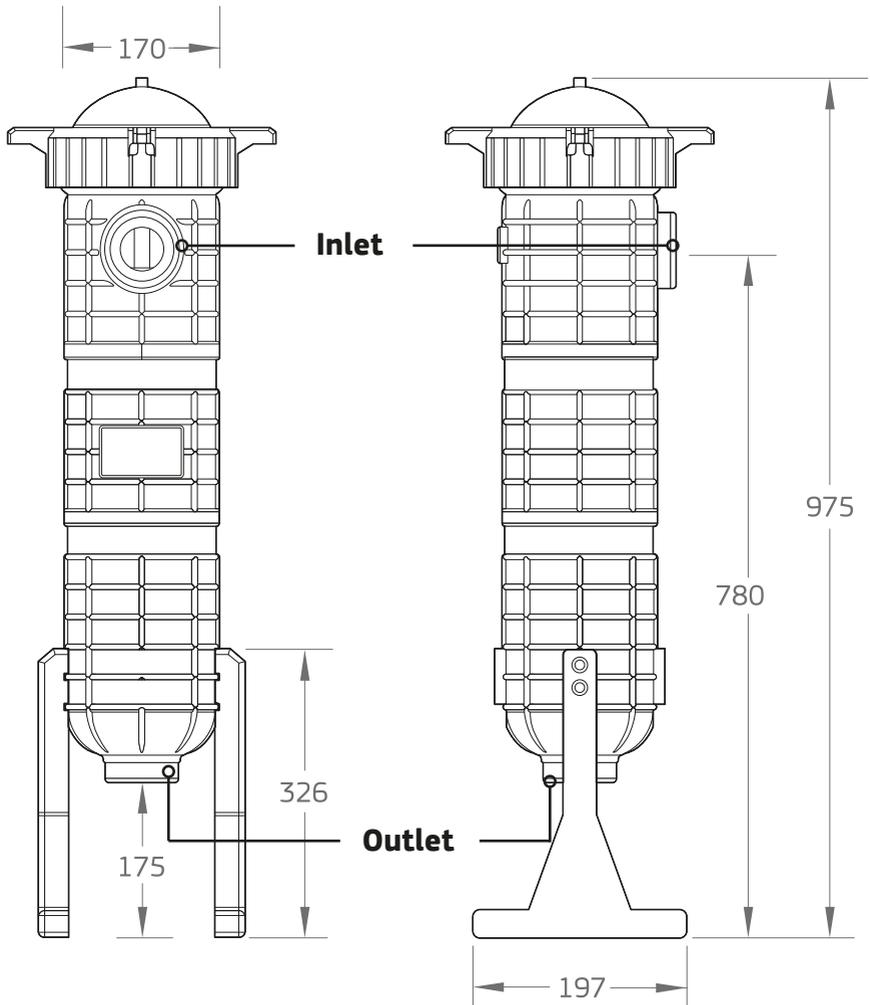
FILTER BASKET



BOLTS



USER GUIDE



## Installing Your System

**Important Note:** The system **MUST** be installed vertically, as shown in the diagram on page 5. **DO NOT** install the system horizontally as this could result in uneven pressure/damage the system and will void the warranty.

Loosen the housing cap and remove all parts from inside the unit (see pg.4 for list of components) Assemble the legs to the sides of the filter and use the bolts provided to fasten the legs securely.

**Note:** The legs cannot withstand any extreme torque and should not be put under any pressure from surrounding components, plumbing or other fixtures.

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.

Remove the basket from the filter housing. The basket may need a gentle anti-clockwise twist to loosen it from the base of the housing. Wash the housing interior with warm soapy water then flush with clean warm water. Blow dry with compressed air. This will remove any dust or debris accumulated from transport. The housing should be washed in this manner regularly to maintain optimum filter performance.

Connect the inlet/outlet to the unit using the supplied flanges if required. The pressure of the pipeline should be less than PN6.3 or SDR26. Pipework should be supported to relieve strain from the unit. Use of union fittings is recommended to enable easy disconnection and removal of the unit for servicing.

**Note: DO NOT** use liquid sealants on the unit as it may cause de-atomization of the polypropylene. Puretec recommends the use of thread tape on the inlet and outlet.

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.**

## Installing the Filter Bag

1. Close inlet valve or turn off the water supply.
2. Purge water from the system by opening a downstream tap or outlet. Isolate unit from the water system if required.
3. Remove housing cap and seal.
4. Remove the adjustable filter lock.
5. Remove filter basket (gentle anti-clockwise twist may be required).
6. Check there is no debris in the housing.
7. Remove packaging from new filter bag and gently fold the bottom end into a C-shape.
8. Slide the filter bag into the basket making sure the rim of the bag is correctly aligned with the rim of the basket.
9. Carefully place the basket assembly back into the housing, making sure to push the assembly firmly into the base of the housing to ensure a good seal.
10. Put the adjustable filter lock back into position.
11. Place the seal back onto the rim of the housing. Lubricate the seal with a silicone based lubricant. If the seal is perished or torn, replace the seal before proceeding to the next step. Replacement Puretec seal **CBH-OR**
12. Put the cap back on the housing, taking care not to shear the seal.
13. Tighten the cap (**DO NOT** overtighten the cap).  
  
**Note:** The seal is designed to expand and form a water-tight seal when under pressure from the inside. **DO NOT** over-tighten the cap as it may damage the seal and cause leakage of pressure failure.
14. Open outlet valve (if installed) or downstream tap.
15. Slowly open inlet valve.
16. Check unit for leaks (if leaks are detected, start the procedure from step 1).
17. Open inlet valve to full open position once pressure in system has become equal and stable.

**Installation of CBH-V Pressure Gauge (optional accessory)**

1. Remove gauge and valve from packaging.
2. Note the difference in threads on the valve.
3. Assemble the gauge to the valve.
4. Close inlet valve or turn off the water supply to the unit.
5. Purge water from the system by opening a downstream tap or outlet. Isolate unit from the water system if required.
6. Remove the plug from the cap of the filter housing.
7. Install the valve and gauge assembly into the filter housing cap.

**Note:** DO NOT use liquid sealants on the unit as it may cause de-atomization of the polypropylene. Puretec recommends the use of thread tape on the inlet and outlet.

8. Ensure the relief valve is off.
9. Set the max (red) and Min (green) pins into the desired position.
10. Open outlet valve (if installed) or downstream tap.
11. Slowly open inlet valve.
12. Check unit for leaks (if leaks are detected, start the procedure from step 4).
13. Open inlet valve to full open position once pressure in system has become equal and stable.

## System Maintenance for High Volume or High Sediment Applications

1. Close inlet valve or turn off the water supply.
2. Purge water from the system by opening a downstream tap or outlet. Isolate unit from the water system if required.
3. Remove housing cap and seal.
4. Remove the adjustable filter lock.
5. Remove filter bag and basket (gentle anti-clockwise twist may be required).
6. Check there is no debris in the housing.
7. Remove the filter bag from the basket.
8. Wash the debris and sediment from the filter bag and basket using warm water.
9. Gently fold the bottom end of the filter bag into a C shape.
10. Slide the filter bag into the basket making sure the rim of the bag is correctly aligned with the rim of the basket.
11. Carefully place the basket assembly back into the housing, making sure to push the assembly firmly into the base of the housing to ensure a good seal.
12. Put the adjustable filter lock back into position.
13. Place the seal back onto the rim of the housing. Lubricate the seal with a silicone based lubricant. If the seal is perished or torn, replace the seal before proceeding to the next step. Replacement Puretec seal **CBH-OR**.
14. Put the cap back on the housing, taking care not to shear the seal.
15. Tighten the cap (**DO NOT** overtighten the cap).

**Note:** The seal is designed to expand and form a water-tight seal when under pressure from the inside. **DO NOT** over-tighten the cap as it may damage the seal and cause leakage of pressure failure.
16. Open outlet valve (if installed) or downstream tap.
17. Slowly open inlet valve.
18. Check unit for leaks (if leaks are detected, start the procedure from step 1).
19. Open inlet valve to full open position once pressure in system has become equal and stable.

## 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 1.10kg/cm<sup>2</sup> it is time to replace the bag filter. (see pg.7)

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.

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. If a lack of differential pressure is detected, stop the system and check for seal leaks or housing ruptures.

## **Warranty**

Any claim under this warranty must be made within 3 years of the date of purchase of the product. This product is warranted to be free of defect of material and workmanship for 3 years from date of purchase. Warranty is 3 years parts and 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 Roa, 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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