# 2CI-C

2CI Commercial CFS / IRS / IRX / SFS Water Treatment System User Guide
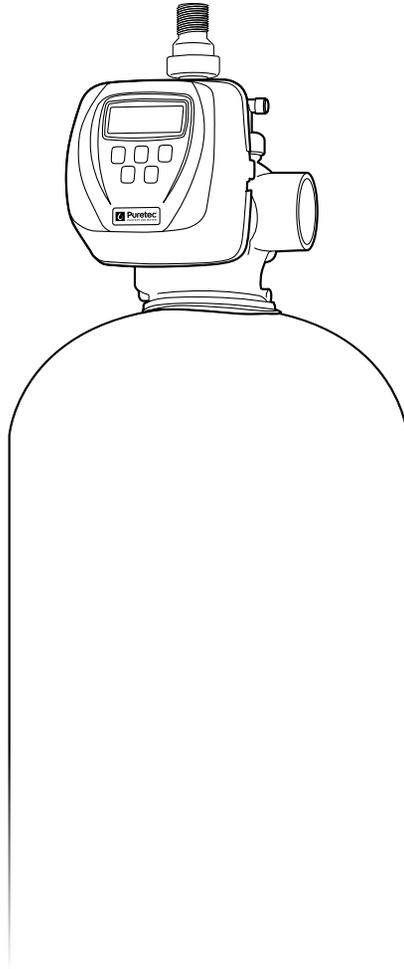
Puretec®
PERFECTING WATER

WATER TREATMENT

What's Inside

WaterMark
WMTS103
Licence No. WM 74593
Pro-Switch Pty Ltd

⚠ **CAUTION**

DO NOT OVERTIGHTEN.
DO NOT USE
LIQUID SEALANTS.

⚠ **WARNING**

THIS PRODUCT CONTAINS A BUTTON BATTERY
If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours.
Keep batteries out of reach of children.
If you suspect your child has swallowed or inserted a button battery, immediately call the 24-hour Poisons Information Centre 13 11 26 (in Australia).

Puretec Customer Service

Thank you for purchasing a Puretec Water Treatment System. Your system is a proven performer manufactured from only quality materials and components. It will give years of reliability and trouble free operation if maintained properly.

This user guide is designed for Puretec 2CI Water Treatment Systems. Be careful to ensure the information and illustration is applicable to your particular unit.

Caution: Do not use with water that is microbiologically unsafe or without adequate disinfection before or after the system.

The systems are designed for metropolitan supply water but can be used in other situations. For other types of water supply, please contact your local Puretec dealer.

Puretec 2CI Water Treatment Systems are designed to run economically for many years, dependent on the initial installation and periodic maintenance.

Flush system for 5 minutes or more, after any period of non-use, more than 2 weeks.

Installation Record

For future reference, fill in the following data:

Product Information	
Model Number:	
Serial / Batch Number:	
Purchased from:	
Date of Installation:	
Installer / Plumber Details:	
Regen Frequency:	_____ Days

Water Analysis Information	
Hardness:	_____ ppm / mg/L
Iron:	_____ ppm / mg/L
Manganese:	_____ ppm / mg/L
pH:	_____
TDS (Total Dissolved Salts):	_____ ppm / mg/L
Conductivity:	_____ EC / uS/cm
Chloride:	_____ ppm / mg/L
Sodium:	_____ ppm / mg/L
Tannin:	_____ NTU
Colour:	_____ HU

Before Installation

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.

Professional Installation Required

- Installation requires shutting water off to home, cutting home water supply pipe and using a welding torch to add piping and fittings. Specialised tools and skills are required, this must be completed by a qualified tradesperson.

Make Sure Your Water Has Been Thoroughly Tested

- An analysis of your water should be made prior to the selection of your water conditioning equipment. Your dealer will generally assist with this service for you, and may send a sample to an independent laboratory for analysis and recommendations. Enter your analysis information on page 3 for your permanent record.

Install Water Treatment Equipment Correctly

Select the location of your water filter system with care. Various conditions which contribute to proper location are as follows:

- Install as close as possible to a drain.

- Install in correct relationship to other water treatment equipment. Contact Puretec for assistance.

- Install the system in the supply line BEFORE the water heater. Temperatures above 40°C (104°F) will damage the system and void the warranty.

- DO NOT install the system in a location where freezing temperatures occur. Freezing may cause permanent damage and will also void the warranty.

- DO NOT install where water hammer conditions may occur without installing an arrestor.

- Protect from pressure vacuum with a suitable vacuum breaker.

- Allow sufficient space around the installation for easy servicing. Provide a non-switched 240V power source for the control valve.

- Protect from pressure vacuum with a suitable vacuum breaker.

- Where line pressure exceeds 500 kPa, an approved pressure limiting device must be installed to comply with Australian & New Zealand Plumbing Standards. (Ref. AS/NZS 3500.1:2021, Clause 3.3.4).

- For point of entry installations an approved backflow prevention device must be installed.

Things to Remember While Planning Your Installation:

- All installation procedures MUST conform to local plumbing codes.

- If lawn sprinklers, a swimming pool, or geothermal heating/cooling or water for other devices/activities are to be treated by the filter system, a larger model MUST be selected to accommodate the higher flow rate, treated water volume, plus the backwashing requirements of the filter system. Contact Puretec for assistance.

- It is essential that pumped water is available whenever the system calls for backwash/regeneration. For example, if the supply pump is managed by a level switch in a tank, relay outputs on the Puretec control valve will need to be utilised with a pump-start relay. Where possible, use a pressure-operated pump set (i.e. pump starts when line pressure reduces) to ensure optimum performance of the water treatment system.

 WARNINGS

- The control valve, fittings and/or bypass are designed to accommodate minor plumbing misalignment but are not designed to support the weight of a system or the plumbing.

- Do not use petroleum jelly, oils, other hydrocarbon lubricants or spray silicone anywhere. A silicone lubricant may be used on the black O-rings but it is not necessary.

- Do not use pipe dope or other sealants on threads. Thread seal tape is the preferred sealant but is not necessary on the nut connection or caps because of O-ring seals.

- All plumbing should be done in accordance with local plumbing codes. The pipe size for the drain line should be a minimum of 1".

- Avoid getting primer and solvent cement on filter system.

- Install grounding strap on metal pipes if required.

- Ensure the system is protected against high pressure and extreme temperatures.

- Inadequate or infrequent backwashing may result in permanent damage to the filter media.

Note: Solder joints must be done prior to connecting to the valve fittings. Leave at least 6" between the fitting and solder joints when soldering pipes. Failure to do this could cause heat damage to the fittings.

This should be carried out by a qualified tradesperson.

Exploded Diagram

Valve Cover

1½" Drain Line Flow Controller
(see individual model information pages)
with washer/s pre-installed

or

1" Drain Line Flow Controller
(see individual model information pages)
with washer/s pre-installed

Automatic Time Valve

Flow Meter
Optional (sold separately)

Transformer

Pressure Tank
UV Shield

Top Screen

(W)

(H)

Spanner

Riser Pipe
(pre-installed)

Pressure Tank

CFS100-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1"
Dimensions:	406 mm (W) x 1980 mm (H)

System Inclusions – Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2460-K)	WTP2460	Pressure Tank with Base (16x65)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.65m
	WTD3000	Top Mount 50mm, suits 14-16" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC15)	WTV7350	Washer for Drain Line Flow Connector, 56lpm (pre-installed)	1
	WTV7330	1" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	1
	WTM1000-10L	Water Filtration Carbon 10L	10
Assembly & ID Kit (WTI-CFS100)	PMD-DECAL3	Puretec Logo Label (126x420)	1
	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
1 x WTM7550-15L	10 x WTM1000-10L

CFS140-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1"
Dimensions:	533 mm (W) x 2040 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2600-K)	WTP2600	Pressure Tank with Base (21x62)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.65m
	WTD3010	Top Mount 50mm, suits 18-24" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC25)	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7330	1" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	2
	WTM1000-15L	Water Filtration Carbon 15L	11
Assembly & ID Kit (WTI-CFS140)	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
2 x WTM7550-15L	11 x WTM1000-15L

CFS180-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1½"
Dimensions:	610 mm (W) x 2230 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2640-K)	WTP2640	Pressure Tank with Base (24x72)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.65m
	WTD3010	Top Mount 50mm, suits 18-24" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC34)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	1
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7150	1.5" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	3
	WTM1000-15L	Water Filtration Carbon 15L	15
Assembly & ID Kit (WTI-CFS180)	PMD-DECAL3	Puretec Logo Label (126x420)	1
	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
3 x WTM7550-15L	15 x WTM1000-15L

CFS220-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1½"
Dimensions:	762 mm (W) x 2170 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2680-K)	WTP2680	Pressure Tank with Base (30x72)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.65m
	WTD3020	Top Mount 50mm, suits 30" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC52)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	3
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7150	1.5" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	4
	WTM1000-15L	Water Filtration Carbon 15L	22
Accessories & ID Kit (WTI-CFS220)	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
4 x WTM7550-15L	22 x WTM1000-15L

CFS320–2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1½"
Dimensions:	914 mm (W) x 2338 mm (H)

System Inclusions – Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2700-K)	WTP2700	Pressure Tank with Base (36x72)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.65m
	WTD3030	Top Mount 50mm, suits 36" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC79)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	6
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7150	1.5" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	5
	WTM1000-15L	Water Filtration Carbon 15L	34
Accessories & ID Kit (WTI-CFS320)	PMD-DECAL3	Puretec Logo Label (126x420)	1
	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
5 x WTM7550-15L	34 x WTM1000-15L

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IRS70-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1"
Dimensions:	406 mm (W) x 1980 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2460-K)	WTP2460	Pressure Tank with Base (16x65)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.65m
	WTD3000	Top Mount 50mm, suits 14-16" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC15)	WTV7350	Washer for Drain Line Flow Connector, 56lpm, 1" (pre-installed)	1
	WTV7330	1" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	1
	WTM3000-15L	Iron Removal Media 15L	7
Assembly & ID Kit (WTI-IRS70)	PMD-DECAL3	Puretec Logo Label (126x420)	1
	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
1 x WTM7550-15L	7 x WTM3000-15L

IRS100-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1"
Dimensions:	533 mm (W) x 2040 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2600-K)	WTP2600	Pressure Tank with Base (21x62)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe 50mm HDPE Black (pre-installed)	1.65m
	WTD3010	Top Mount 50mm, suits 18-24" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC25)	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7330	1" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	2
	WTM3000-15L	Iron Removal Media 15L	13
Assembly & ID Kit (WTI-IRS100)	PMD-DECAL3	Puretec Logo Label (126x420)	1
	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
2 x WTM7550-15L	13 x WTM3000-15L

IRS150-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1½"
Dimensions:	610 mm (W) x 2230 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2640-K)	WTP2640	Pressure Tank with Base (24x72)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	2m
	WTD3010	Top Mount 50mm, suits 18-24" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack 2CI	1
DLFC Kit (WTV-DLFC34)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	1
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7150	1½" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	3
	WTM3000-15L	Iron Removal Media 15L	18
Assembly & ID Kit (WTI-IRS150)	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
3 x WTM7550-15L	18 x WTM3000-15L

IRS250-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1½"
Dimensions:	762 mm (W) x 2170 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2680-K)	WTP2680	Pressure Tank with Base (30x72)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.6m
	WTD3020	Top Mount 50mm, suits 30" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC52)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	3
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7150	1½" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	4
	WTM3000-15L	Iron Removal Media 15L	26
Accessories & ID Kit (WTI-IRS250)	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
4 x WTM7550-15L	26 x WTM3000-15L

IRS350-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1½"
Dimensions:	914 mm (W) x 2338 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2700-K)	WTP2700	Pressure Tank with Base (36x72)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black	1.6m
	WTD3030	Top Mount 50mm, suits 36" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC79)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	6
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" ¾" (pre-installed)	1
	WTV7150	1.5" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	5
	WTM3000-15L	Iron Removal Media 15L	40
Accessories & ID Kit (WTI-IRS350)	PMD-DECAL3	Puretec Logo Label (126x420)	1
	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
5 x WTM7550-15L	40 x WTM3000-15L

IRX70–2CI Model Information

Specifications

Operating Pressure Min/Max:	138 – 862 kPa
Operating Temperature Min/Max:	0 – 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1"
Dimensions:	406 mm (W) x 1980 mm (H)

System Inclusions – Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2460-K)	WTP2460	Pressure Tank with Base (16x65)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.6m
	WTD3000	Top Mount 50mm, suits 14-16" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC15)	WTV7350	Washer for Drain Line Flow Connector, 56lpm, 1" (pre-installed)	1
	WTV7330	1" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	1
	WTM3200-15L	Katamax Pro Media 15L	7
Assembly & ID Kit (WTI-IRS70)	PMD-DECAL3	Puretec Logo Label (126x420)	1
	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
1 x WTM7550-15L	7 x WTM3200-15L

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IRX100-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1"
Dimensions:	533 mm (W) x 2040 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2600-K)	WTP2600	Pressure Tank with Base (21x62)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.6m
	WTD3010	Top Mount 50mm, suits 18-24" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC25)	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7330	1" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	2
	WTM3200-15L	Katamax Pro Media 15L	13
Assembly & ID Kit (WTI-IRX100)	PMD-DECAL3	Puretec Logo Label (126x420)	1
	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
2 x WTM7550-15L	13 x WTM3200-15L

IRX150-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1½"
Dimensions:	610 mm (W) x 2230 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2640-K)	WTP2640	Pressure Tank with Base (24x72)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.6m
	WTD3010	Top Mount 50mm, suits 18-24" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack 2CI	1
DLFC Kit (WTV-DLFC34)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	1
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7150	1½" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	3
	WTM3200-15L	Katamax Pro Media 15L	18
Assembly & ID Kit (WTI-IRX150)	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
3 x WTM7550-15L	18 x WTM3200-15L

IRX250-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1½"
Dimensions:	762 mm (W) x 2170 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2680-K)	WTP2680	Pressure Tank with Base (30x72)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.6m
	WTD3020	Top Mount 50mm, suits 30" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC52)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	3
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7150	1.5" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	4
	WTM3200-15L	Katamax Pro Media 15L	26
Accessories & ID Kit (WTI-IRX250)	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
4 x WTM7550-15L	26 x WTM3200-15L

IRX350-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1½"
Dimensions:	914 mm (W) x 2338 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2700-K)	WTP2700	Pressure Tank with Base (36x72)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.6m
	WTD3030	Top Mount 50mm, suits 36" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC79)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	6
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1' (pre-installed)	1
	WTV7150	1.5" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	5
	WTM3200-15L	Katamax Pro Media 15L	40
Accessories & ID Kit (WTI-IRX350)	PMD-DECAL3	Puretec Logo Label (126x420)	1
	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
5 x WTM7550-15L	40 x WTM3200-15L

SFS100-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1"
Dimensions:	406 mm (W) x 1980 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2460-K)	WTP2460	Pressure Tank with Base (16x65)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.6m
	WTD3000	Top Mount 50mm, suits 14-16" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC25)	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7330	1" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	2
	WTM7500-15L	Multi-media High Performance Fine 15L	6
Assembly & ID Kit (WTI-SFS100)	PMD-DECAL3	Puretec Logo Label (126x420)	1
	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
2 x WTM7550-15L	6 x WTM7500-15L

SFS150–2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1"
Dimensions:	533 mm (W) x 2040 mm (H)

System Inclusions – Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2600-K)	WTP2600	Pressure Tank with Base (21x62)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.6m
	WTD3010	Top Mount 50mm, suits 18-24" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack 2CI	1
DLFC Kit (WTV-DLFC52)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	3
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7150	1.5" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	4
	WTM7500-15L	Multi-media High Performance Fine 15L	10
Assembly & ID Kit (WTI-SFS150)	PMD-DECAL3	Puretec Logo Label (126x420)	1
	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
4 x WTM7550-15L	10 x WTM7500-15L

SFS250-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 – 862 kPa
Operating Temperature Min/Max:	0 – 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1½"
Dimensions:	610 mm (W) x 2230 mm (H)

System Inclusions – Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2640-K)	WTP2640	Pressure Tank with Base (24x72)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.8m
	WTD3010	Top Mount 50mm, suits 18-24" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack	1
DLFC Kit (WTV-DLFC52)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	3
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1" (pre-installed)	1
	WTV7150	1½" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	6
	WTM7500-15L	Multi-media High Performance Fine 15L	13
Assembly & ID Kit (WTI-SFS250)	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
6 x WTM7550-15L	13 x WTM7500-15L

SFS350-2CI Model Information

Specifications

Operating Pressure Min/Max:	138 - 862 kPa
Operating Temperature Min/Max:	0 - 40 °C (protect from freezing)
Electrical Connection:	240V / 50 Hz
Inlet/outlet Connection:	2"
Drain:	1½"
Dimensions:	762 mm (W) x 2170 mm (H)

System Inclusions - Kits & Components

Kit Type	Part no.	Description	Qty
Tank Kit (WTP2680-K)	WTP2680	Pressure Tank with Base (30x72)	1
	WTV3040	Pressure Tank UV Collar Shield	1
	WTD3320	Riser Pipe, 50mm HDPE Black (pre-installed)	1.6m
	WTD3020	Top Mount 50mm, suits 30" Tanks	1
Filter Kit (WTV7000-K)	WTV5135	Transformer & Lead, suits Auto Valve	1
	WTV7200	2CI Valve Cover	1
	WTV5180	Spanner, suits E1, E3, NTS Systems	1
	WTV7000	2CI Filter Valve, Backwash Only	1
	WTD3100	Top Screen Distributor Stack 2CI	1
DLFC Kit (WTV-DLFC79)	WTV5310	Washer for Drain Line Flow Connector, 34lpm, ¾" (pre-installed)	6
	WTV5395	Washer for Drain Line Flow Connector, 94lpm, 1' (pre-installed)	1
	WTV7150	1.5" Drain Line Flow Connector	1
Media Kit	WTM7550-15L	Multi-media High Performance Medium 15L	10
	WTM7500-15L	Multi-media High Performance Fine 15L	18
Accessories & ID Kit (WTI-SFS350)	LBL-METALLICBLANK	Metallic Silver Model Label (60x100)	1
	UG-2CI-C	Commercial 2CI WTS User Guide (CFS/IRS/IRX/SFS)	1
	WTV1600	Media Funnel	1

Vessel Media Filling Order

1st	2nd
10 x WTM7550-15L	18 x WTM7500-15L

Installation Procedure

Ideal Installation (piping and accessories not included).
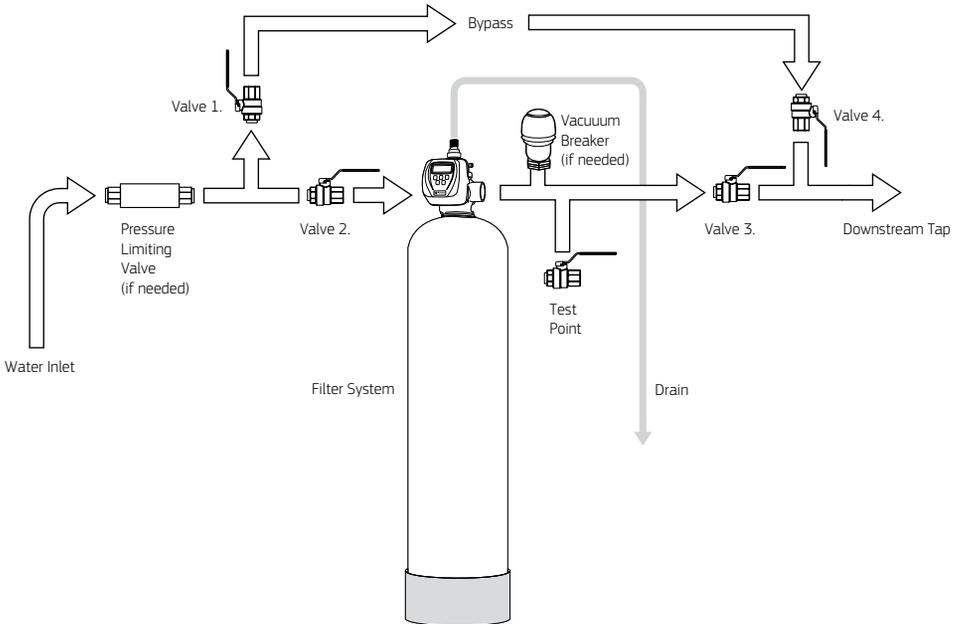
① Unpack the Equipment

Ensure all parts are present and have not been damaged in transport. You should have:

- Tank Kit
- Filter Kit
- DLFC Kit
- Media Kit
- Assembly & ID Kit

See individual model information page for detailed kit inclusions (pages 7-26).

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2 **Extra Items Required**

1" or 1½" Tubing for drain.
Refer to page 6 for the correct size for your model.

3 **Testing & Analysis**

Ensure water has been tested, Input values into Table on page 4 and the analysis has been inspected by Puretec.

Water Analysis Information		
Hardness	130	ppm / mg/L
Iron	0.3	ppm / mg/L
Manganese	0.1	ppm / mg/L
pH	7	
TDS (Total Dissolved Salts)	275	ppm / mg/L
Conductivity	404	EC / uS/cm
Chloride	121	ppm / mg/L
Sodium	96	ppm / mg/L

Puretec
PERFECTING WATER

Customer Service Helpline
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4 **Position the Water Treatment System on a Level Surface**

Environmental conditions

Operating temperature: 0 – 40 °C (protect from freezing)

Water conditions

Temperature: 0 – 50 °C

Pressure: 138 – 862* kPa

* Where line pressure exceeds 500 kPa, an approved pressure limiting device must be installed to comply with Australian & New Zealand Plumbing Standards. (Ref. AS/NZS 3500.1:2021, Clause 3.3.4).

5 **Media Installation**

The Media has been shipped separately to avoid damage in transit.

The length of the internal riser pipe is pre-set and does not need adjustment.

1. Position the system on a flat surface close to a drain or a properly trapped outlet, in a position when the system can service all lines requiring treated water. The system should be placed far enough away from any water heaters to avoid any hot water backflow into the system. A weatherproof power point and surge protector is recommended.

2. Plug or cover the top end of the riser pipe in the tank making sure no media can enter the tube.

3. Ensure that the riser pipe is sitting in the cradle at the base of the tank. Then using a wide mouth funnel, place the media in the tank as per installation order found on the individual model information pages

4. Remove the plug or cover from the riser pipe making sure you do not lift the riser pipe. Top up tank with water.

5. Rotate and push the top screen into the valve gently until it clicks in place. Slip the UV shield into place around the lip of the pressure tank.

6. Screw valve onto the tank (hand tight is usually sufficient), making sure the distributor tube is properly inserted into the valve.

7. Connect the DLFC to the valve.

6 **Connecting the Water Treatment System**

Connect the system to main plumbing. Do not solder brass adapters while they are inserted in the control module.

Inlet 2"   Outlet 2"

Drain
1" **or** 1½"
(see individual model
page information)

Control Panel
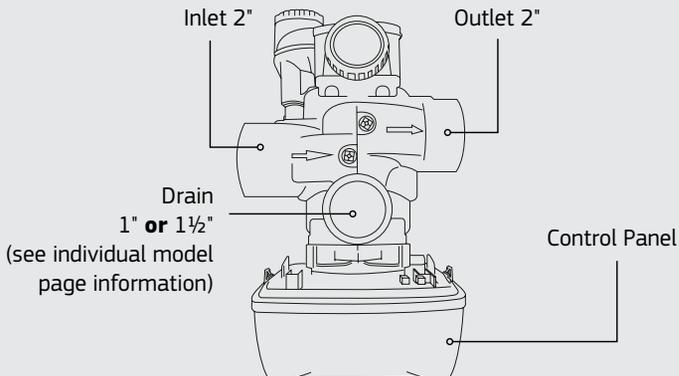
7 Connecting the Drain Line

Locate the drain line flow controller and attach to the tubing (tubing not supplied) from the valve to the drain. Ensure the drain line is not kinked. The line must not travel more than 2.4 m up and no more than 6 m long from the valve, otherwise an increase of the diameter of the drain line will be required. Connect drain to sewer or storm water, whichever is approved by local authority for discharge water. Ensure drain line has an adequate air gap.

1"DRAIN

1½" DRAIN
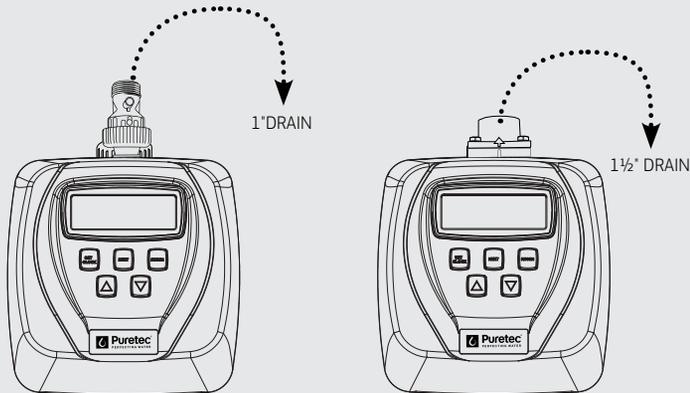
Drain size/connection dependent on model (see individual model information pages).

8 Programming

Plug into an uninterrupted electrical outlet

Note: All electrical connections must be connected accordingly to local codes.

Proceed to 'Programming' section.

9 Prepare the System for Use

After programming, isolate the system from the bypass and downstream taps (in the Ideal Installation diagram on page 26 this is valves 1,3 & 4). Turn on the water supply and perform a manual backwash.

Once finished check the water is clear via the test point. Repeat if needed until the water is clear. When the water is clear slowly open up the isolation valve downstream (valve 3). The system is now ready for use.

Programming
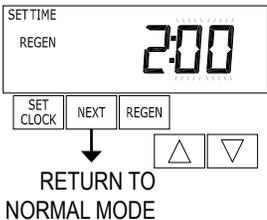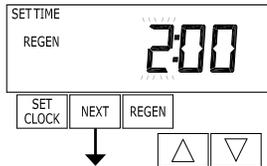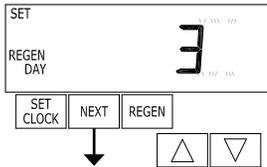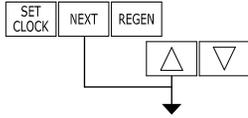
Installer Display Settings

Note: After programming proceed to step 9 in the Installation Guide.

Note: Press "REGEN" at any time to return to previous step.

1. Press "NEXT" and ▲ simultaneously for 5 seconds.

2. **Day Override:** Preset to default (3 days). Set Day Override using ▲ or ▼.

   • Number of days between regeneration (1 to 28); or
   • oFF

When volume capacity set to "oFF" or to a number, sets the number of days between regenerations. If volume is set to AUTO a regeneration initiation will be called for on that day even if sufficient volume of water were not used to call for regeneration.

IMPORTANT: To avoid media solidification, never extend the backwash interval longer than 3 days, even during periods of extended non-use of the system.

Press "NEXT" to go to the next step.

3. **Next Regeneration Time (hour) Preset to default to 2:00am :** Set the hour of the day for regeneration using ▲ or ▼ buttons. The default time is 2:00. This display will show "REGEN on 0 m³" if "on 0" is selected in Set Regeneration Time Option in Advanced Programming.

   Press "NEXT" to go to the next step.

4. **Next Regeneration Time (minutes):** Set the minutes of the day for regeneration using ▲ or ▼.

   This display will not be shown if "on 0" is selected in Set Regeneration Time Option in Advanced Programming.

   Press "NEXT" to exit Installer Display Settings.

RETURN TO NORMAL MODE
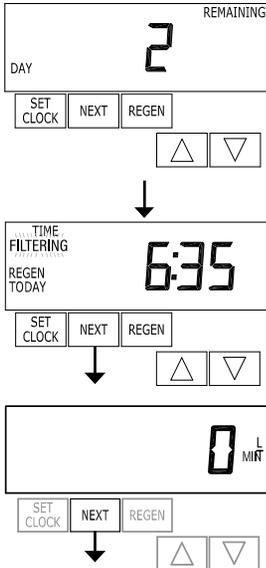
User Display Settings

General Operation: When the system is operating, one of the following displays may be shown. Pressing "NEXT" will alternate between the displays:

- **Current Time of Day**
- **Days or Volume Remaining:** Days remaining is the number of days left before the system goes through a regeneration cycle. Capacity remaining is the cubic meters that will be treated before the system goes through a regeneration cycle.
- **Current Treated Water Flow Rate:** The current treated water flow rate through the system.

If the system has called for a regeneration that will occur at the present time of regeneration, the words "REGEN TODAY" will appear on the display.

If a water meter is installed, the word "FILTERING" flashes on the display when water is being treated (i.e. water is flowing through the system).

Regeneration Mode

Typically a system is set to regenerate at a time of low water usage. An example of a time with low water usage is when a household is asleep. If there is a demand for water when the system is regenerating, untreated water will be used.

When the system begins to regenerate, the display will change to include information about the step of the regeneration process and the time remaining for that step to be completed. The system runs through the steps automatically and will reset itself to provide treated water when the regeneration has been completed.

Manual Regeneration

Sometimes there is a need to regenerate the system sooner than when the system calls for it, usually referred to as manual regeneration.

Immediate Regeneration: To initiate a manual regeneration immediately, press and hold the "REGEN" button for three seconds. The system will begin to regenerate immediately. The control valve may be forced through the various regeneration cycles by pressing the "REGEN" button, if required.
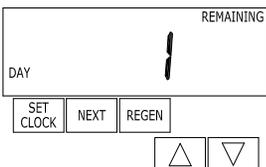
Delayed Regeneration: To initiate a manual regeneration at the preset delayed regeneration time, press and release "REGEN". The words "REGEN TODAY" will flash on the display to indicate that the system will regenerate at the preset delayed regeneration time.

If you pressed the "REGEN" button in error, pressing the button again will cancel the request.

If the regeneration time option is set to "on 0" there is no set delayed regeneration time so "REGEN TODAY" will not activate if "REGEN" button is pressed.
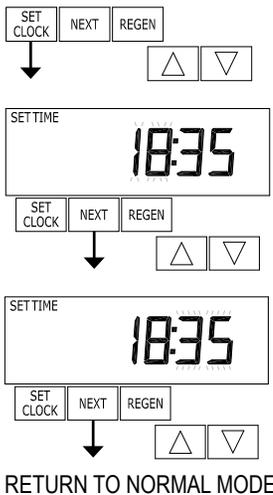
Set Time of Day

Time of day should only need to be set on installation or when daylight saving time begins or ends.

1. Press "SET CLOCK".

2. **Current Time (hour):** Set hour of the day by using ▲ or ▼. Press "NEXT" to go to next step.

3. **Current Time (minutes):** Set the minutes of the day using ▲ or ▼. Press "NEXT" to exit Set Clock.
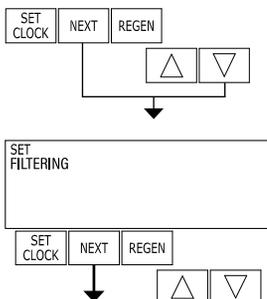
RETURN TO NORMAL MODE

Advanced Programming

1. Press "NEXT" and ▼ simultaneously for 5 seconds and release.

Note: Press "REGEN" at any time to return to the previous step.

2. Choose "FILTERING" using ▲ or ▼.

    Press "NEXT" to go to the next step.

3. **Select the Time for the First Cycle** using ▲ or ▼.
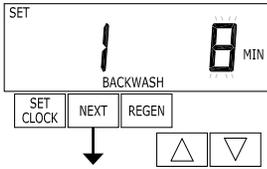
Press "NEXT" to go to the next step.

4. **Select the Time for the Second Cycle** using ▲ or ▼.

   Press "NEXT" to go to the next step.
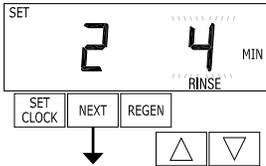
5. **Select the Time for the Third Cycle** using ▲ or ▼.

   Press "NEXT" to go to the next step
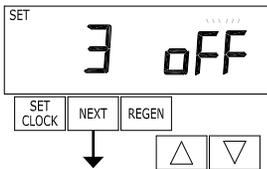
6. **Set Volume Capacity** using ▲ or ▼.

   - **oFF:** Regeneration will be based solely on the day override set (see Installer Display Settings step 4);
   - **AUTO:** Capacity will be automatically calculated.
   - **A Number:** Regeneration initiation will be based on the value specified (in M³). If optional flow meter is installed.

   Press "NEXT" to go to the next step.
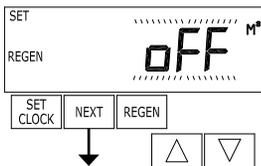
(Default is "oFF")

7. **Set Regeneration Time Options** using ▲ or ▼.

   Note: This step does NOT appear if step 6 is set to "oFF".

   - **NORMAL:** Regeneration will occur at the preset time
   - **On 0:** Regeneration will occur immediately when the volume capacity reaches 0 (zero); or
   - **NORMAL + on 0:** Regeneration will occur when:
     - The preset time when the volume capacity falls below the reserve or the specified number of days between regenerations is reached, whichever comes first; or
     - Immediately after 10 minutes of no water usage when the volume capacity reaches 0 (zero).

SET

rLY 1

| SET CLOCK | NEXT | REGEN |

△ ▽

SET TIME

on

(Default is "on")

| SET CLOCK | NEXT | REGEN |

△ ▽

SET TIME

0:01 MIN

| SET CLOCK | NEXT | REGEN |

△ ▽

SET TIME   REMAINING

0:01 MIN

| SET CLOCK | NEXT | REGEN |

△ ▽

Flashes between these screens
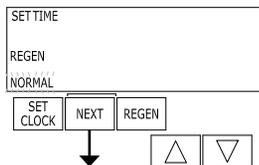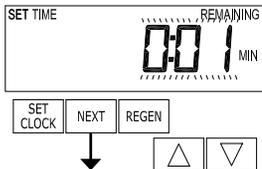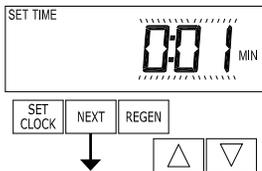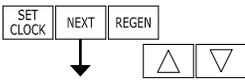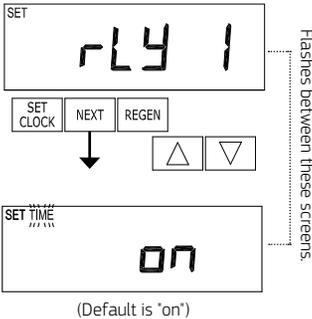
Press "NEXT" to go to the next step.

8. **Set Relay 1 Operation** using ▲ or ▼.

    Note: Relay points provide a 12V DC, 100 MA output.

    - **On:** Relay activates after a set time at the beginning of a regeneration cycle and then deactivates after a set period of time. The start of regeneration is defined as the first backwash.
    - **L Filtering On:** Relay activates after a set number of litres has been treated and then deactivates after a set period of time or after the meter stops registering flow, whichever comes first.
    - **L Filtering Regen On:** Relay activates after a set number of litres have been used while in service or during regeneration and then deactivates after a set period of time or after the meter stops registering flow, whichever comes first.
    - **Off:** If set to "oFF", steps 8 & 9 will not be shown.

    Press "NEXT" to go to the next step.

9. **Set Relay 1 Actuation Time or Litres** using ▲ or ▼.

    - **Relay Actuation Time:** After the start of a regeneration the amount of time that should pass prior to activating the relay. The start of regeneration is defined as the first backwash cycle. Ranges from 1 second to 200 minutes.

      Set to total of: Backwash + Rinse + 1 min.

    - **Relay Actuation Litres:** Relay activates after a set number of litres has passed through the meter when the valve is in service mode. Ranges from 1 to 200L.

    Press "NEXT" to go to the next step.

10. **Set Relay 1 Deactivate Time** using ▲ or ▼.

    - If "on" is selected in step 10, the relay will deactivate after the time set has expired. Ranges from 1 second to 200 minutes.
    - If "L on" or "L filtering regen on" is selected in step 10, the relay will deactivate after the time set has expired or after the meter stops registering flow, whichever comes first. Ranges from 1 second to 20 minutes.

    Press "NEXT" to go to the next step.
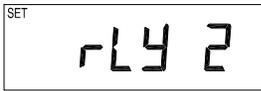
Flashes between these screens.

(Default is "oFF")
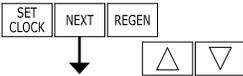
11. **Set Relay 2 Operation** using ▲ or ▼.

- **Time On:** Relay activates after a set time at the beginning of a regeneration cycle and then deactivates after a set period of time. The start of regeneration is defined as the first backwash cycle.
- **L Filtering On:** Relay activates after a set number of litres has been treated and then deactivates after a set period of time or after the meter stops registering flow, whichever comes first.
- **L Filtering Regen On:** Relay activates after a set number of litres have been used while in service or during regeneration and then deactivates after a set period of time or after the meter stops registering flow, whichever comes first.
- **Error:** Relay closes whenever the control enters the error mode and immediately deactivates when the error mode is exited.
- **Off:** If set to "oFF", steps 12 & 13 will not be shown.

Press "NEXT" to go to the next step.
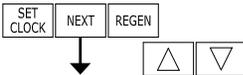
12. **Set Relay 2 Actuation Time or Litres** using ▲ or ▼.

- **Relay Actuation Time:** After the start of a regeneration the amount of time that should pass prior to activating the relay. The start of regeneration is defined as the first backwash cycle. Ranges from 1 second to 200 minutes.
- **Relay Actuation Litres:** Relay activates after a set number of litres has passed through the meter when the valve is in the service mode. Ranges from 1 to 200 litres.

Press "NEXT" to go to the next step.

RETURN TO NORMAL MODE
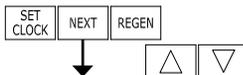
13. **Set Relay 2 Deactivate Time** using ▲ or ▼.

- If "on" is selected in step 14 the relay will deactivate after the time set has expired. Ranges from 1 second to 200 minutes.
- If "L on" or "L filtering regen on" is selected in step 14 the relay will deactivate after the time set has expired or after the meter stops registering flow, whichever comes first. Ranges from 1 second to 20 minutes.

Press "NEXT" to exit Advanced Programming.

DP Switch Programming (optional)
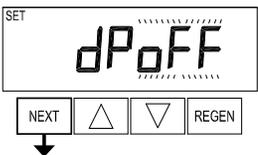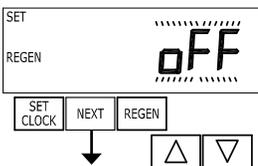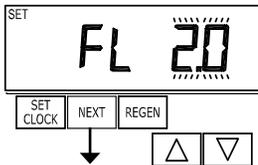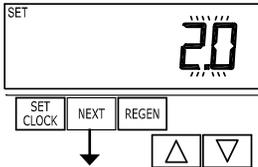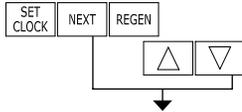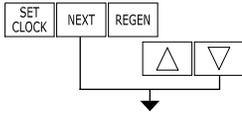
1. Pres NEXT and ▼ simultaneously for 5 seconds and release. Then press NEXT and ▼ simultaneously for 5 seconds and release.

   **Note:** Press REGEN at anytime in the programming sequence to return to the previous step.

2. Preset to default. Press NEXT to go to step 3.

3. Preset to default. Press NEXT to go to step 4.

4. Preset to default. Press NEXT to go to step 5.

5. Allows selection of one of the follwing using ▲ or ▼:

   • An outside signal to initiate a regeneration; or
   • An outside signal to prevent or delay regeneration.

   Selection only matters if a connection is made to the two pin connector labelled DP SWITCH located on the printed circuit board.

- **oFF (default) :** Feature not used.
  Note: In a twin alternating system each control must have a seperate dP signal or dP switch. One dP signal or one dP switch cannot be used for both controls.

- **dPon0:** If the dP switch is closed for an accumulative time of 2 minutes, a regeneration will will be signalled to the unit.

- **dPdEL:** If the switch is closed for an accumalative time of 2 minutes a regeneration will occur at the scheduled delayed regeneration time. Once the dP switch is triggered the PC board will display REGEN TODAY and switch tanks immediately. At the delayed regeneration time, the triggered unit will then regenerate.

- **HoLd:** If the dP switch is closed a regeneration will be prevented from occurring while there is switch closure.

  Press NEXT to go to step 6.
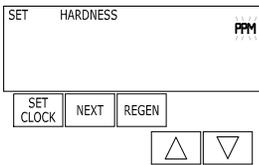
6. Preset to default. Press NEXT to go to step 7.
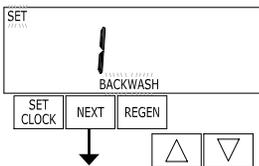
7. Preset to default. Press NEXT to go to step 8.
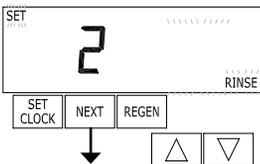
8. Preset to default. Press NEXT to go to step 9.
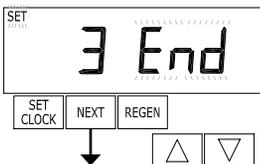
9. Preset to default. Press NEXT to return to normal mode.

Start-Up

Now programming is completed (if required) you are ready to start the system.

1. Open the nearest tap downstream of the filter system (after the filter system).
2. Allow water to flow through the system slowly, and allow all air to escape out of the closest tap. Wait until the water is flowing out of the tap and then increase the flow slowly up to full flow. Allow to run for 5 – 10 minutes.
3. Close the opened tap and check for leaks.
4. Conduct a full manual regeneration.
5. Your system is ready for use.

Regeneration

2CI Valve (Regeneration Time: 20 mins)

This valve is factory set to regenerate every third day. The required frequency of regeneration is dependant on the level of contaminates and the amount of water used. To change the regeneration setting refer to the 'Programming' section.

WARNING: Inadequate or infrequent backwashing may result in permanent damage to the filter media.

Media Replacement

See individual model information page for media details.

Call the Puretec Customer Service Helpline on **1300 140 140** (AU) and **0800 130 140** (NZ) for more details.

The nuts and caps are designed to be unscrewed or tightened by hand or with the special plastic spanner provided. If necessary pliers can be used to unscrew the nut or cap. Do not use a pipe wrench to tighten or loosen nuts or caps. Do not place screwdriver in slots on caps and/or tap with a hammer.

Replace the Backup Battery

The backup battery (CR2032 coin) keeps the time in case of a power outage. The battery should be replaced annually or after extended periods without power. Replacement batteries can also be ordered using code: BA-CR2032 through your local Puretec dealer.

1. Turn off the power to the unit and remove the valve cover.
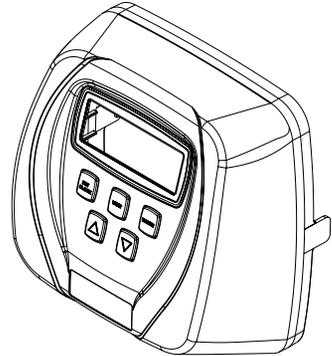
2. The coin battery (CR2032) is located in the top left hand corner of the PC Board.
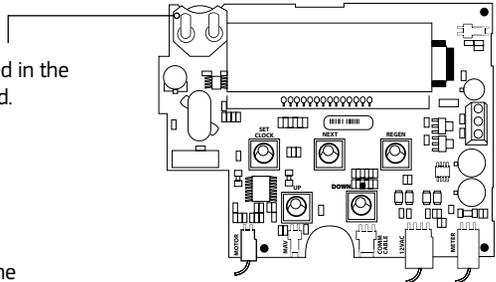
3. Using a non conductive item (like the plastic end of a pen), poke the battery from underneath the battery mount and slide the old battery out.

Correct battery orientation.

4. Insert the new battery into the battery mount, ensuring is fully seated and in the correct orientation (as shown).
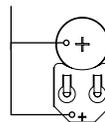
Battery is fully seated.

5. Replace the valve cover and switch the unit back on.

6. Reset the time if needed by following the time programming instructions in this user guide.

Troubleshooting

'Dry' Reset Procedure	Remove the faceplate, opening the tabs on either side of the valve. This will expose the Power Circuit board with a number of wires connected.
	On the bottom right hand corner is a 4 pin adaptor labelled '12VAC PWR', disconnect the adaptor and reconnect after 5 seconds. The valve will then whir twice, and should return to the normal screen.
	If the error message is still present, refer to the troubleshooting guide.

Problem	Ref.	Possible Cause	Solution
1. No display on PC Board.	a.	No power at electric outlet.	Repair outlet or use working outlet.
	b.	Control valve Power Adapter not plugged into outlet or power cord end not connected to PC board connection.	Plug Power Adapter into outlet or connect power cord end to PC Board connection.
	c.	Improper power supply.	Verify proper voltage is being delivered to PC Board.
	d.	Defective power adapter.	Replace power adapter.
	e.	Defective PC Board.	Replace PC board.
2. PC Board does not display correct time of day.	a.	Power Adapter plugged into electric outlet controlled by light switch.	Use uninterrupted outlet.
	b.	Tripped breaker switch and/or tripped GFI.	Reset breaker switch and/ or GFI switch.
	c.	Power outage.	Reset time of day. If PC board has battery back up present the battery may be depleted.
	d.	Defective PC board.	Replace PC board.
3. Display does not indicate that water is flowing. Refer to user instructions for how the display indicates water is flowing.	a.	Bypass valve in bypass position.	Turn bypass handles to place bypass in service position.
	b.	Meter is not connected to meter connection on PC board.	Connect meter to three pin connection labelled METER on PC board.
	c.	Restricted/stalled meter turbine.	Remove meter and check for rotation or foreign material.
	d.	Meter wire not installed securely into three pin connector.	Verify meter cable wires are installed securely into three pin connector labelled METER.
	e.	Defective meter.	Replace meter.
	f.	Defective PC board.	Replace PC board.

Problem	Ref.	Possible Cause	Solution
4. Control valve regenerates at wrong time of day.	a.	Power outage.	Reset time of day. If PC Board has battery back up present the battery may be depleted.
	b.	Time of day not set correctly.	Reset to correct time of day.
	c.	Time of regeneration set incorrectly.	Reset regeneration time.
	d.	Control valve set at "on 0" (immediate regeneration).	Check programming setting and reset to NORMAL (for a delayed regen time).
	e.	Control valve set at "NORMAL + on 0" (delayed and/ or immediate).	Check programming setting and reset to NORMAL (for a delayed regen time).
5. Control valve does not regenerate automatically when the REGEN button is depressed and held.	a.	Broken drive gear or drive cap assembly.	Replace drive gear or drive cap assembly.
	b.	Broken piston rod.	Replace piston rod.
	c.	Defective PC board.	Replace PC board.
6. Control valve does not regenerate automatically but **does** when the REGEN button is depressed and held.	a.	Bypass valve in bypass position.	Turn bypass handles to place bypass in service position.
	b.	Meter is not connected to meter connection on PC board.	Connect meter to three pin connection labelled METER on PC board.
	c.	Restricted/stalled meter turbine.	Remove meter and check for rotation or foreign material.
	d.	Incorrect programming.	Check for programming error.
	e.	Meter wire not installed securely into three pin connector.	Verify meter cable wires are installed securely into three pin connector labelled METER.
	f.	Defective meter.	Replace meter.
	g.	Defective PC board.	Replace PC board.
7. Hard or untreated water is being delivered.	a.	Bypass valve is open or faulty.	Fully close bypass valve or replace.
	b.	Media is exhausted due to high water usage.	Check program settings or diagnostics for abnormal water usage.
	c.	Meter not registering.	Remove meter and check for rotation or foreign material.
	d.	Water quality fluctuation.	Test water and adjust program values accordingly.
	e.	Damaged seal/stack assembly.	Replace seal/stack assembly.
	f.	Control valve body type and piston type mix matched.	Verify proper control valve body type and piston type match
	g.	Fouled media bed.	Replace media bed.

Problem	Ref.	Possible Cause	Solution
8. Time of day flashes on and off.	a.	Power outage.	Time of day should be reset & the CR2032 button battery replaced. Note: All other settings will not require reprogramming. In the unlikely event of a power loss during a backwash, when the power is restored, a dry-reset should be performed, followed by a manual regeneration (refer to above) if convenient.
9. Water running to drain.	a.	Power outage during regeneration.	Upon power being restored control will finish the remaining regeneration time. Reset time of day.
	b.	Damaged seal/stack assembly.	Replace seal/stack assembly.
	c.	Piston assembly failure.	Replace piston assembly.
	d.	Drive cap assembly not tight.	Re-tighten the drive cap assembly.
10. E1, Err – 1001, Err – 101 Control unable to sense motor movement.	a.	Motor not inserted full to engage pinion, motor wires broken or disconnected.	Disconnect power, make sure motor is fully engaged, check for broken wires, make sure two pin connector on motor is connected to the two pin connection on the PC Board labelled MOTOR. Conduct a dry reset.
	b.	PC board not properly snapped into drive bracket.	Properly snap PC Board into drive bracket and conduct a dry reset.
	c.	Missing reduction gears.	Replace missing gears.
11. E2, Err – 1002, Err – 102 Control valve motor ran too short and was unable to find the next cycle position and stalled.	a.	Foreign material is lodged in control valve.	Open up control valve and pull out piston assembly and seal/ stack assembly for inspection. Conduct a dry reset.
	b.	Mechanical binding.	Check piston and seal/ stack assembly, check reduction gears, check drive bracket and main drive gear interface.
	c.	Main drive gear too tight.	Loosen main drive gear. Conduct a dry reset.
	d.	Improper voltage being delivered to PC board.	Verify that proper voltage is being supplied. Conduct a dry reset.

Problem	Ref.	Possible Cause	Solution
12. E3, Err – 1003, Err – 103 Control valve motor ran too long and was unable to find the next cycle position.	a.	Motor failure during a regeneration.	Check motor connections then conduct a dry reset.
	b.	Foreign matter built up on piston and stack assemblies creating friction and drag enough to time out motor.	Replace piston and stack assemblies. Conduct a dry reset.
	c.	Drive bracket not snapped in properly and out enough that reduction gears and drive gear do not interface.	Snap drive bracket in properly then conduct a dry reset.
13. Err – 1004, Err – 104 Control valve motor ran too long and timed out trying to reach home position.	a.	Drive bracket not snapped in properly and out enough that reduction gears and drive gear do not interface.	Snap drive bracket in properly then conduct a dry reset.
14. Err - 1006, Err - 106, Err 116 MAV/SEPS/NHBP/AUX MAV valve motor ran too long and unable to find the proper park position. MAV = Motorized Alternating Valve SEPS = Separate Souce NHBP = No Hard Water Bypass AUX MAV = Auxiliary MAV	a.	Control valve programmed for ALT A or b, nHbP, SEPS, or AUX MAV with out having a MAV or NHBP valve attached to operate that function.	Conduct a dry reset.
	b.	MAV/ NHBP motor wire not connected to PC board.	Connect MAV/ NHBP motor to PC Board two pin connection labeled DRIVE. Conduct a dry reset.
	c.	MAV/ NHBP motor not fully engaged with reduction gears.	Properly insert motor into casing, do not force into casing. Conduct a dry reset.
	d.	Foreign matter built up on piston and stack assemblies creating friction and drag enough to time out motor.	Replace piston and stack assemblies. Conduct a dry reset.
15. Err – 1007, Err – 107, Err - 117 MAV/ SEPS/ NHBP/ AUX MAV valve motor ran too short (stalled) while looking for proper park position.	a.	Foreign material is lodged in MAV/ NHBP valve.	Open up MAV/ NHBP valve and check piston and seal/ stack assembly for foreign material. Conduct a dry reset.
	b.	Mechanical binding.	Check piston and seal/ stack assembly, check reduction gears, drive gear interface, and check MAV/ NHBP black drive pinion on motor for being jammed into motor body. Conduct a dry reset.

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. 1 year warranty is 1 year parts and labour. Excludes consumables.

Puretec is renowned for its quality and after-sales support so if you have any issues please call 1300 140 140 (AU) or 0800 130 140 (NZ). To make a warranty claim, contact us directly or the place of original purchase. All costs relating to a warranty claim must be approved by Puretec prior to any work being carried out.

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.

Warranty/Australia

This warranty is given by Puretec Pty Ltd, ABN 44 164 806 688, 37-43 Brodie Road Lonsdale SA 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 NZ LP, Reg. No 50081773, 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.