

## Klarify® Water Filtration Systems User Manual



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#### Need to know more or ready to install?

Give us a call.



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Aquano Water Filters,

87 Hautapu Road, Unit 4, Hautapu 3493, Cambridge.

## Klarify® Whole House Systems

## Tough on impurities, easy to install!

The Aquano Klarify Whole House System covers both Mains (M Series) and Rain/Bore (R Series) filtration systems - perfect for medium to large homes. Choose from 1, 2, or 3-stage setups, each one built to handle the specific challenges of mains or rainwater, tackling sediment, chlorine, bad taste, odour and more.

With rugged, weatherproof housings and pro-grade components throughout. Spanners and housing covers included where required, making Klarify easy to spec, fit and service.

**Your Aquano Klarify Whole House unit** arrives pre-assembled and ready to go! Inside the box, you'll also find:





(For Housings)

Covers 10" or 20"

SEE FULL UNIT SPECIFICATIONS AND INCLUDED CARTRIDGES ON THE NEXT PAGE >

### **Whole House Systems - Mains Filtration**



Product Code	AKM120	AKM220	AKM320
Product Name	Klarify M-120	Klarify M-220	Klarify M-320
Use*	Indoor/Outdoor*	Indoor/Outdoor*	Indoor/Outdoor*
Housing Size	20" Jumbo	20" Jumbo	20" Jumbo
Max. Flow Rate	120 LPM	120 LPM	120 LPM
Connections	1" BSP	1" BSP	1" BSP
Dimensions	190 x 600 x 210mm	430 x 600 x 210mm	630 x 600 x 210mm

Filter Cartridge	S		
Filter Cartridge 1	AS2005J	PS2005J	PS2005J
Filter Cartridge 2	N/A	CB2010J	PGC20J
Filter Cartridge 3	N/A	N/A	GAC2010J

 $<sup>{}^\</sup>star \text{Use}$  neoprene filter housing weather protection covers for outdoor use

## Whole House Systems - Rain/Bore Filtration







Product Code	AKR110	AKR210	AKR310
Product Name	Klarify R-110	Klarify R-210	Klarify R-310
Use*	Indoor/Outdoor*	Indoor/Outdoor*	Indoor/Outdoor*
Housing Size	10" Jumbo	10" Jumbo	10" Jumbo
Max. Flow Rate	120 LPM	120 LPM	120 LPM
Connections	1" BSP	1" BSP	1" BSP
Dimensions	190 x 350 x 210mm	430 x 350 x 210mm	630 x 350 x 210mm

Filter Cartridges			
Filter Cartridge 1	CIM10J	PC1020J	PC1010J
Filter Cartridge 2	N/A	PS1001J	PS1001J
Filter Cartridge 3	N/A	N/A	CIM10J







Product Code	AKR120	AKR220	AKR320
Product Name	Klarify R-120	Klarify R-220	Klarify R-320
Use*	Indoor/Outdoor*	Indoor/Outdoor*	Indoor/Outdoor*
Housing Size	20" Jumbo	20" Jumbo	20" Jumbo
Max. Flow Rate	120 LPM	120 LPM	120 LPM
Connections	1" BSP	1" BSP	1" BSP
Dimensions	190 x 600 x 210mm	430 x 600 x 210mm	630 x 600 x 210mm
Filter Cartridge	•		

Filter Cartridge	S		
Filter Cartridge 1	CIM20J	PC2020J	PC2020J
Filter Cartridge 2	N/A	PS2001J	PS2001J
Filter Cartridge 3	N/A	N/A	CIM20J

 $<sup>{}^\</sup>star \text{Use}$  neoprene filter housing weather protection covers for outdoor use

#### Safety

### **⚠** TO GET THE BEST OUT OF YOUR KLARIFY SYSTEM (AND KEEP THAT WARRANTY SAFE), STICK TO THESE SIMPLE BUT ESSENTIAL INSTALL TIPS:

- Ensure adequate ventilation.
- For outdoor usage: Use the provided neoprene weather protection covers, to protect from frost, direct sunlight and water.
- · Ensure the housing is protected from water hammer.
- Water Supply: Cold water line only (up to 52°C). Protect from freezing.
- Water Pressure: 200–875 kPa.
  - If line pressure exceeds 500 kPa, an approved pressure limiting valve is required (AS/NZS 3500.1:2021, Clause 3.3.4).
- · DO NOT OVER-TIGHTEN (MAY SPLIT THE HEAD UNIT)
- Pipe Support: Use unions for easy servicing and support heavy pipes to avoid stress on the unit.
- Point-of-entry installations: fit an approved dual check backflow prevention device in compliance with national plumbing codes.
- Do not use this system with water that is microbiologically unsafe or of unknown quality without proper disinfection.

## INSTALLATION MUST BE CARRIED OUT BY A LICENSED PLUMBER AND COMPLY WITH LOCAL PLUMBING REGULATIONS!

#### **Positioning**

- Install in area where leaks/spills won't cause damage.
- Secure firmly use solid surfaces or wall brackets.
- Minimum 100mm clearance beneath for cartridge removal.
- Include an isolation valve upstream for easy maintenance.



#### Installation

- 1. Mount unit securely: Attach wall bracket and piping; maintain 50mm clearance under the housing.
- 2. Close main valve, open downstream tap, and press red button on the filter head/s to release pressure.
- Cut and prepare pipes: Use approved piping system and fittings.
- 4. Apply PTFE tape and or sealant that's approved for stainless/plastics: **ADON'T OVER-TIGHTEN**
- 5. Flush pipes: Run water briefly to remove debris.
- 6. Install cartridges: See below for cartridge installation.
- 7. Check flow and check for leaks: Turn on water, inspect all joints.
- **A** FOR OUTDOOR INSTALLATION USE THE PROVIDED NEOPRENE WEATHER PROTECTION COVERS

#### Filter Cartridge Replacement

(REPLACE CARTRIDGES EVERY 6-12 MONTHS)

- 1. Close main valve, open downstream tap, and press red button on the filter head/s to release pressure.
- 2. Unscrew housing: Use provided spanner if tight.
- 3. Remove and discard old cartridge.
- 4. Clean housing and inspect O-ring: Replace if damaged; lubricate with food-grade silicone.
- 5. Insert new cartridge: Ensure correct orientation and central alignment.
- 6. Tighten housing with supplied spanner **ADON'T OVER-TIGHTEN**
- Restore water supply: Open isolation valve and downstream tap to purge air.
- 8. Flush for 2-10 minutes.
- 9. Check for leaks.

Klarify Mains Fil	tration System - Filter Cartridges			
Product Code	Product Name	Fits Product/s		
PS10STD	Sediment Filter, 10" Standard	All AKM Models		
PS2005S	Sediment Filter, 20" Standard	AKM320, AKM310		
CB1005STD	Carbon Filter, 10" Standard	All AKM Models		
CB2005J	Carbon Filter, 20" Jumbo	AKM320, AKM310		
AS10STD	Anti-Scale Filter, 10" Standard	All AKM Models		
AS2005J	Anti-Scale Filter, 20" Jumbo	AKM320, AKM310		
Klarify Rain/Bor	Klarify Rain/Bore Water Filtration System - Filter Cartridges			
Product Code	Product Name	Fits Product/s		
PS1005J	Sediment Filter, 10" Jumbo	All AKR Models		
PS2005J	Sediment Filter, 20" Jumbo	AKR320, AKR310		
CIM10J	Carbon Rainwater Filter, 10" Jumbo	All AKR Models		
CIM20J	Carbon Rainwater Filter, 20" Jumbo	AKR320, AKR310		

## Klarify® UV Systems

# No fuss, no chemicals, just pure water!

Aquano Klarify UV Series delivers safe, chemical free water by using high-intensity UV-C light to destroy bacteria, viruses, and micro-organisms. Perfect for residential and light commercial use requiring uncompromising water safety.

Each system features a durable stainless steel chamber, long-life UV lamp, and compact design for easy installation and servicing, providing an essential layer of protection for mains or rainwater setups.

## Your Aquano Klarify UV Systems arrives pre-assembled and ready to go!

Inside the box, you'll also find:



## **UV Systems - Technical Specifications**



Product Code	UV210I	UV220I	UV310I	UV320I
Product Name	Aquano Klarify UV-2101	Aquano Klarify UV-220I	Aquano Klarify UV-3101	Aquano Klarify UV-320I
Use	Indoor installation only	Indoor installation only	Indoor installation only	Indoor installation only
Housing Size	10" Jumbo	20" Jumbo	10" Jumbo	20" Jumbo
UV System	UVS46W	UVS46W	UVS46W	UVS46W
UV Lamp	UVL46W	UVL46W	UVL46W	UVL46W
UV Dose Flow Rates	30mj/cm² @ 70 LPM			
Max. Flow Rate	120 LPM	120 LPM	120 LPM	120 LPM
Connections	1" BSP	1" BSP	1" BSP	1" BSP
Dimensions	680 x 700 x 210mm	680 x 770 x 210mm	880 x 700 x 210mm	880 x 770 x 210mm
Filter Cartridge	s			
Filter Cartridge 1	PC1020J	PC2020J	PC1010J	PC2010J
Filter Cartridge 2	PS1001J	PS2001J	PS1001J	PS2001J
Filter Cartridge 3	N/A	N/A	CIM10J	CIM20J

<sup>\*</sup>Use neoprene filter housing weather protection covers for outdoor use

#### Safety

#### ▲ TO GET THE BEST OUT OF YOUR KLARIFY SYSTEM (AND KEEP THAT WARRANTY SAFE), STICK TO THESE SIMPLE BUT ESSENTIAL INSTALL TIPS:

- Indoor installation only: Models UV210I, UV220I, UV310I and UV320I.
- Outdoor Installation: Use the provided neoprene protection covers to protect from frost, direct sunlight and water.
- Corrosive Environments: Do not install in areas with high salt exposure or aggressive chemicals (e.g. near coastlines or chemical storage).
- Water Supply: Cold water line only (0–52°C). Protect from freezing.
- Power Supply: AC 240V | 50Hz.
- Water Pressure: 300–875 kPa.
  - If line pressure exceeds 500 kPa, an approved pressure limiting valve is required (AS/NZS 3500.1:2021, Clause 3.3.4).
- Backflow Prevention: A dual check valve must be installed at the point of entry.
- Pipe Connections: Standard 25mm thread; alternate fittings may be needed.
- Pipe Support: Use unions for easy servicing and support heavy pipes to avoid stress on the unit.
- Flow Rate: Do not exceed the system's rated flow rate.
- Electrical Load: Ensure sufficient power supply, especially if sharing a circuit with a pump or other
  appliances. Surge and brown-out protection is required. Consult a qualified electrician if unsure.

#### **Power Surge Protection**

Electrical surges or spikes can damage the UV ballast and alarm. The Klarify UV Unit includes a non-replaceable fuse for basic circuit protection, this fuse is not designed to handle lightning strikes or strong surges.

- A SURGE PROTECTOR IS INCLUDED WITH YOUR UNIT AND MUST BE USED. USING THE SURGE PROTECTOR OR ANOTHER SUITABLE OPTION IS REQUIRED TO MAINTAIN YOUR WARRANTY.
- ⚠ OUTDOOR INSTALLATION: INSTALL A HARD-WIRED, WEATHERPROOF SURGE PROTECTOR, FITTED BY A LICENSED ELECTRICIAN!

#### **Additional Tips:**

- Avoid using long extension leads—they can cause voltage drops and affect lamp performance.
- We also recommend installing an RCD (residual current device) or earth leakage circuit breaker on the power supply for added safety.
- Existing pipework may contain E.coli and bacteria Pour 500ml Aquano Tank Cleaner (Product code ATT5L)
  into the housing and flush all taps.
- UV lamps every 12 months, as their UV output degrades over time, reducing disinfection efficacy.
- Remove and clean quartz sleeve with white or methylated spirits; replace brittle O-rings.
- After filter changes, press red pressure relief buttons to clear airlocks.
- Check system pressure gauges to monitor filter condition.
- Wash pleated filters as needed, depending on water quality.
- Reset ballast after lamp changes by holding the silver button for 15 seconds until "365" shows.
- Never touch UV lamps with bare hands use gloves or a cloth to protect lamp life.

#### **Water Quality**

LARIFY UV UNITS MUST ONLY BE USED ON WATER THAT MEETS MINIMUM QUALITY STANDARDS. IF YOU'RE UNSURE, CONTACT YOUR AQUANO STOCKIST FOR ADVICE ON PRE-FILTRATION OR WATER TESTING.

Iron	Hydrogen Sulphide	Suspended Solids	Manganese	Hardness
< 0.3 mg/L	< 0.05 mg/L	< 10 mg/L	< 0.05 mg/L	< 110 mg/L

- If water quality parameters are exceeded, pre-filtration is required.
- The quartz sleeve and filters must be cleaned or replaced as needed to maintain performance.
- If bacteria was present in the system prior to installation, it is recommended to flush all pipelines with Tank Sanitiser (Product code ATT5L).
- Metal Outlet Only: The UV chamber must be connected to metal pipe/fittings for at least 1 metre after the outlet. Never connect plastic pipework directly to the chamber.
- This system is designed specifically for UV water treatment and should not be used for any other purpose without advice from Aquano.
- Water Heating: UV units naturally cause slight heating of water. If this is an issue, install a temperature management valve directly after the unit to release hot water as needed.
- This appliance must be installed by a qualified, licensed plumber.
- Regularly inspect the system for leaks, wear, or damage.
- In areas where water leakage could cause property damage, use a drain pan, leak detector, or turn off the water supply when the system is unattended.

#### **Positioning**

TO PROTECT YOUR KLARIFY UV UNIT, CHOOSE A FROST-FREE SPOT WITH GOOD VENTILATION AND DRAINAGE, AWAY FROM POTENTIAL WATER DAMAGE.

- Choose a secure, suitable location for mounting.
- Ensure there is at least 700mm of clearance above the unit to allow for safe removal of the lamp and sleeve during servicing.
- Ensure a minimum of 120mm below the unit for cartridge replacement and maintenance.
- **4.** Installing an isolation valve before the unit is recommended to simplify servicing.



#### Installation

#### BEFORE YOU GET STARTED, MAKE SURE THE QUARTZ TUBE ISN'T DAMAGED!

#### **Mounting the Unit**

IMPORTANT: THE OUTLET SHOULD ALWAYS BE ON THE UV SIDE OF THE UNIT.

UV-C MODELS: Have 4 rear keyholes. Use the template to mark, drill, plug, and fix the unit in place.



#### Plumbing the System

- 1. Close main valve, open downstream tap, and press red button on the filter head/s to release pressure.
- 2. Connect inlet (25mm female) and outlet (25mm male).

#### Start-Up Flush

- 1. Turn on water and open a downstream tap.
- 2. Flush for 2-3 minutes to release air and debris.
- 3. Check for leaks immediately and after 1 hour.
- Power on the unit ensure green LED is lit.

#### Filter Cartridge Replacement (REPLACE CARTRIDGES EVERY 6-12 MONTHS)

- 1. Close main valve, open downstream tap, and press red button on the filter head/s to release pressure.
- 2. Unscrew housing: use provided spanner if tight.
- 3. Remove and discard old cartridge.
- 4. Clean housing and inspect O-ring: Replace if damaged; lubricate with food-grade silicone.
- 5. Insert new cartridge: Ensure correct orientation and central alignment.
- 6. Tighten housing with supplied housing spanner **ADON'T OVER-TIGHTEN**
- 7. Restore water supply: Open isolation valve and downstream tap to purge air.
- 8. Flush for 2-10 minutes.
- 9. Check for leaks.

SEE PAGE 14 FOR CARTRIDGE REPLACEMENT CODES >

#### Installation

#### **UV Lamp Installation**

- 1. Open the lid (UV-C models only).
- 2. Insert the spring into the quartz sleeve.
- 3. Carefully insert the UV lamp through the top nut until it's firmly plugged into the socket.
- 4. Fit the safety cap, attach the earth wire, and plug in the power connector.
- 5. Close and lock the lid (UV-C models only).

#### **UV Lamp Replacement** (REPLACE THE LAMP EVERY 12 MONTHS)

#### ALWAYS POWER OFF AND SHUT OFF WATER SUPPLY. LET UNIT COOL BEFORE SERVICING!

- 1. Unplug the power and remove the earth wire.
- 2. Disconnect the lamp connector, then slide out the old lamp.
- 3. Insert the new lamp as per the initial install above.
- 4. Reconnect everything and reset the lamp life timer (hold the silver button for 15 sec until it beeps).
- 5. Turn water back on and check for leaks.

#### **Quartz Sleeve Replacement**

#### ALWAYS POWER OFF AND SHUT OFF WATER SUPPLY. LET UNIT COOL BEFORE SERVICING!

- Insert the spring into the quartz sleeve.
- 2. Carefully insert the UV lamp through the top nut.
- 3. Do not release the lamp until it's firmly plugged into the socket.
- 4. Fit the safety cap, attach the earth wire, and plug in the power connector.
- 5. Close and lock the lid (UV-C models only).

#### **Lumazone Steriliser System**

- ▲ WARNING: DO NOT LOOK DIRECTLY INTO ULTRAVIOLET RAYS EMITTED FROM THE UV LAMP AS THEY WILL CAUSE SERIOUS BURNS TO UNPROTECTED EYES.
- A CAUTION: GROUND THE BALLAST CASING TO AVOID POSSIBLE HIGH VOLTAGE SHOCK HAZARD.
- 1. Prior to performing any work on the UV steriliser system, always disconnect the power supply.
- 2. Treated water may feel warm at first, this is normal. Let it run briefly to flush heat from the UV lamp.

#### **Lumazone - Operation**

- Press the mode button to cycle the display between lamp life remaining and total running days.
- 2. Press and hold the silver button for 15 seconds to reset lamp life timer or until 'reset' appears on the screen.
- To silence the 'lamp life end' alarm for 7 days, press and hold on the silver button until 'delay' appears on the screen.

Lumazone Specifications
AC 240V   50Hz
Lamp Power: 35W~95W
Lamp Current: 0.8A~0.9A
Ambient Temperature: 4~40°C
Lamp Rated Life: 365 days

SEE PAGE 14 FOR UV LAMP AND QUARTZ SLEEVE REPLACEMENT CODES >

## Replacements/Spare Parts

Product Code	Product Name	Fits Product/s
PS10STD	Sediment Filter, 10" Standard	All AKM Models
PS2005S	Sediment Filter, 20" Standard	AKM320, AKM310
CB1005STD	Carbon Filter, 10" Standard	All AKM Models
CB2005J	Carbon Filter, 20" Jumbo	AKM320, AKM310
AS10STD	Anti-Scale Filter, 10" Standard	All AKM Models
AS2005J	Anti-Scale Filter, 20" Jumbo	AKM320, AKM310
Clarify Rain/Bor	e Water Filtration System - Filter Cartridges	
Product Code	Product Name	Fits Product/s
PS1005J	Sediment Filter, 10" Jumbo	All AKR Models
PS2005J	Sediment Filter, 20" Jumbo	AKR320, AKR310
CIM10J	Carbon Rainwater Filter, 10" Jumbo	All AKR Models
CIM20J	Carbon Rainwater Filter, 20" Jumbo	AKR320, AKR310
Clarify® UV Sys	tems - Filter Cartridges	
Product Code	Product Name	Fits Product/s
PS1005J	Sediment Filter, 10" Jumbo	All UV Models (with 10" Jumbo housing)
PS2005J	Sediment Filter, 20" Jumbo	All UV Models (with 20" Jumbo housing)
CIMIOJ	Carbon Rainwater Filter, 10" Jumbo	All UV Models (with 10" Jumbo housing)
CIM20J	Carbon Rainwater Filter, 20" Jumbo	All UV Models (with 20" Jumbo housing)
CB1005J	Carbon Mains Water Filter, 10" Jumbo	All UV Models (with 10" Jumbo housing)
CB2005J	Carbon Mains Water Filter, 20" Jumbo	All UV Models (with 20" Jumbo housing)
(larify® UV Sys	tems - Spare Parts	
roduct Code	Product Name	Fits Product/s
JVL46W	UV Lamp	All UV-C/R Models
QT540	Quartz Tube	All UV-C/R Models
DR46L	O-ring	All UV-C/R Models
SPR316L	Sleeve Spring	All UV-C/R Models
BAL46W	UV Ballast	All UV-C/R Models
(larify® UV Sys	tems - Service Kits	
Product Code	Product Name	Fits Product/s
SKUV320CI	Service Kit (includes UV lamp, quartz tube, O-ring, sleeve spring)	UV320C / UV320I
SKUV310CI	Service Kit (includes UV lamp, quartz tube, O-ring, sleeve spring)	UV310C / UV310I
SKUV220CI	Service Kit (includes UV lamp, quartz tube, O-ring, sleeve spring)	UV220C / UV220I
SKUV210CI	Service Kit (includes UV lamp, quartz tube, O-ring, sleeve spring)	UV210C / UV210I

# Here for a good time & a long time

At Aquano, we are committed to the longevity of our products. That's why we stock a full suite of replacement parts for service items like our Filter Cartridges. So when a part reaches the end of its life, you only replace that part - not the whole unit!

#### Aquano's 100% customer satisfaction guarantee:

We stand behind the quality and durability of our products. That's why our warranty and service is designed to give you peace of mind and confidence when choosing Aquano.

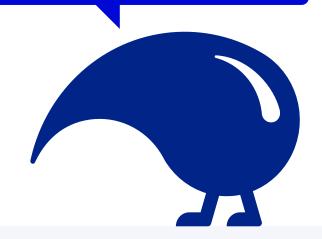
That means you are covered for up to 8 years of stress-free warranty, and in the unlikely event something goes wrong, our NZ-based team will respond to claims within 2 working hours. How's that for peace of mind!













## **Installation Record** Distributor Installer Phone Date Installed

#### Need to know more or ready to install?

Give us a call.



**©** 0800 225 700





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#### Aquano Water Filters,

87 Hautapu Road, Unit 4, Hautapu 3493, Cambridge.

### Designed in Cambridge



### Warranty registration

Scan here for more details



