

Mineral Guard Mechanical Ioniser with Nature²® Technology†

†Nature² technology consists of the minerals silver and copper.

WARNING

FOR YOUR SAFETY – This product must be installed and serviced by a contractor who is licensed and qualified in pool equipment in accordance with the latest applicable version of AS3633, along with any other applicable local or council codes/standards. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation may void the warranty.



Improper installation and/or operation can create unwanted hazards which may cause serious injury, property damage, or death.

ATTENTION INSTALLER – This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

<p>WARRANTY REGISTRATION</p>	<p>Record your equipment details here for quick reference:</p> <p>Model No. : _____</p> <p>Serial No. : _____</p>
	<p>AUSTRALIA WARRANTY:</p> <p>For full warranty terms and conditions and to register your warranty, visit www.astralpool.com.au/warranty and complete your details.</p> <p>◀ Or scan the QR code to go directly to the registration page.</p>
	<p>NEW ZEALAND WARRANTY:</p> <p>For full warranty terms and conditions and to register your warranty, visit www.astralpool.co.nz/warranty and complete your details.</p> <p>◀ Or scan the QR code to go directly to the registration page.</p>

EQUIPMENT INFORMATION RECORD
<p>DATE OF INSTALLATION: _____</p>
<p>INSTALLER INFORMATION: _____</p>
<p>INITIAL PRESSURE GAUGE READING (WITH CLEAN FILTER): _____</p>
<p>PUMP MODEL: _____</p>
<p>HORSEPOWER: _____</p>

Table of Contents

Section 1. Important Safety Instructions..... 4

Section 2. General Description 5

2.1 Product Overview..... 5

2.2 Product Contents..... 5

Section 3. Installation Requirements 6

Section 4. Installing the Mineral Guard 6

Section 5. Cartridge Replacement 9

Section 6. Winterizing..... 10

Section 7. Disposal..... 10

Section 8. Troubleshooting 10

SAVE THESE INSTRUCTIONS

Section 1. Important Safety Instructions

READ AND FOLLOW ALL INSTRUCTIONS

When installing and using this equipment, basic safety precautions should always be followed, including the following:

WARNING

EQUIPMENT UNDER PRESSURE

- Always turn pump off prior to installing or changing the cartridge. Your pump/filter system is operated under pressure and the pressure must be released before you begin work. Please see your pump/filter owner's manual for further instructions.

PREVENT CHILD DROWNING

- Do not let anyone, especially small children, sit, step, lean or climb on any equipment installed as part of your pool's operational system.

LOW CHLORINE RECIPE

- You must strictly follow the chlorine recipe included in this manual to maintain proper water chemistry and avoid health hazards. Failure to follow these instructions can lead to sickness from bacteria and other noxious organisms.

CAUTION

PRECAUTIONARY STATEMENT - HAZARDS TO HUMANS AND DOMESTIC ANIMALS

In the unlikely event that a cartridge breaks, mineral media should not be ingested by humans or animals as it may cause gastric distress.

FIRST AID IF INGESTED: Call poison control center or doctor immediately for treatment advice (check the SDS for further details).

ATTENTION

INSTALLER - This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

Section 2. General Description

2.1 Product Overview

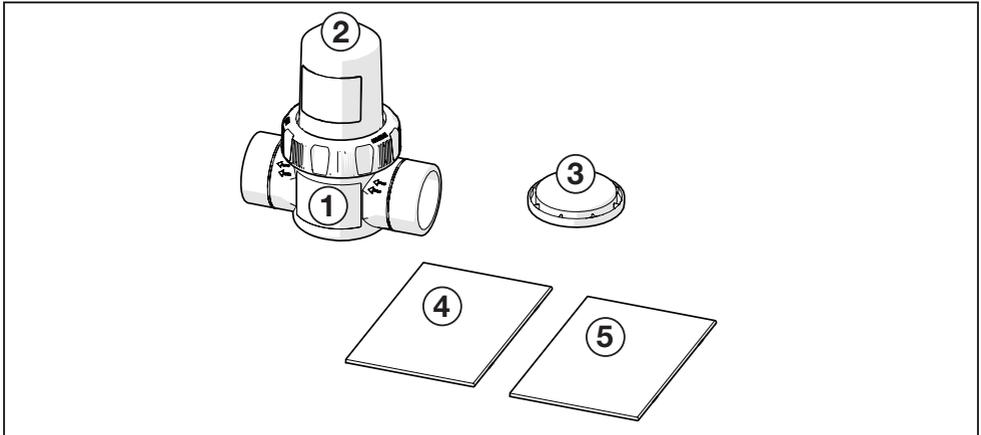
This manual provides instructions for installing and replacing the AstralPool Mineral Guard for residential swimming pools up to 100,000 L. AstralPool Mineral Guard must be used in conjunction with any chlorine sanitising product (such as a chlorinator, liquid or erosion feeder, or manually dosing) which will disperse the silver and copper ions from the Mineral Guard vessel into the pool.

Every pool has its own characteristics of water type and exposure to natural elements. The recipe included in this manual will help ensure good water quality for your pool that will make your swimming experience more enjoyable.

IMPORTANT NOTICE - HOMEOWNER BE AWARE

This product is not compatible with bromide-based products, biguanide products or copper based algaecide and should not be used in any manner inconsistent with the product manuals and labeling.

2.2 Product Contents



1	Mineral Guard Housing
2	Mineral Guard Cartridge
3	Winterizing and Pressurizing Cap
4	Owner's Manual
5	Installation Manual

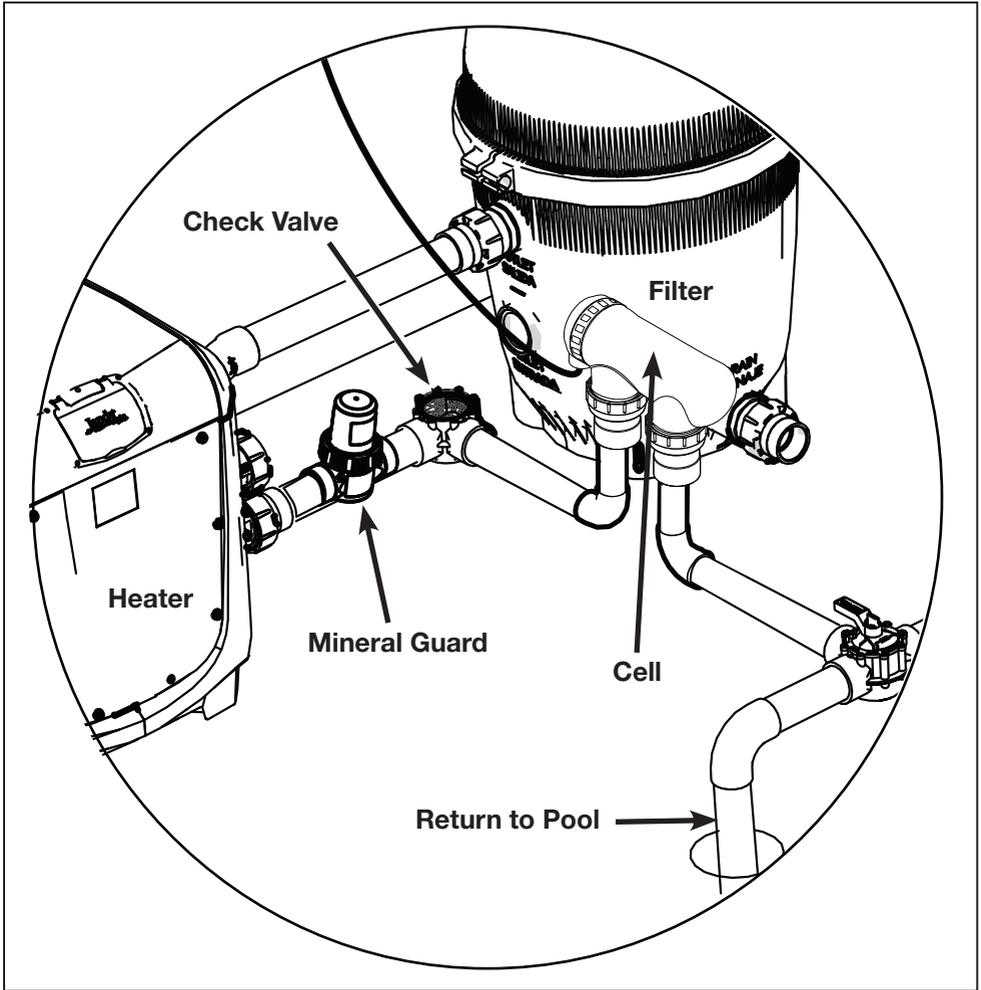
Section 3. Installation Requirements

Before installing, clean debris and algae out of the pool and pool equipment. Do not install until the pool water is clean and chemically balanced.

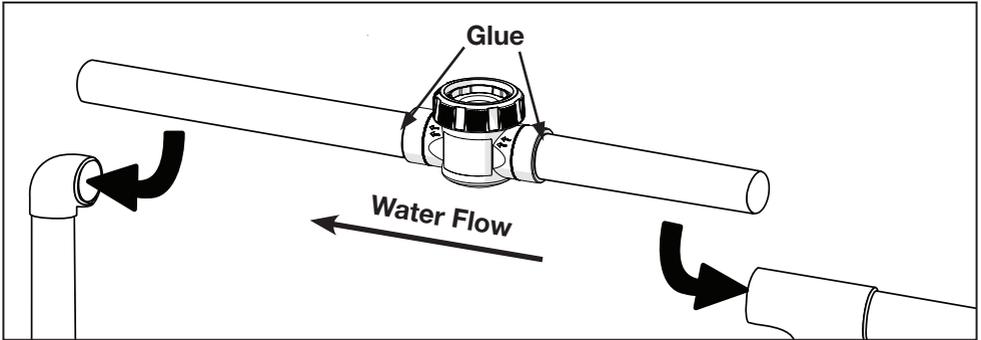
Section 4. Installing the Mineral Guard

The Mineral Guard installs on your pool's return line.

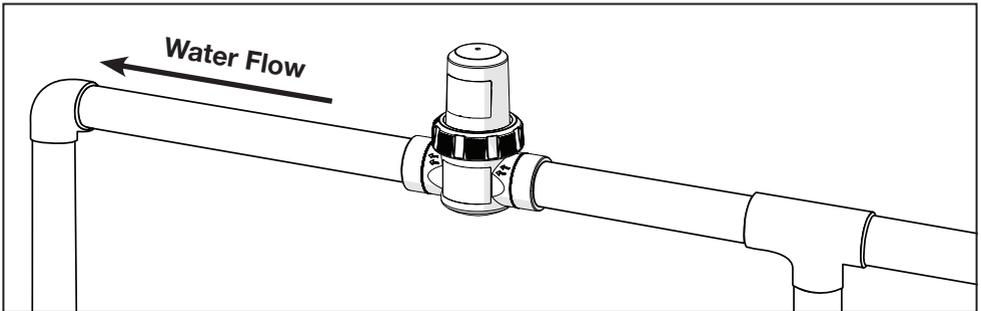
1. Determine the location to install, noting that it must be installed:
 - After the filter on the main return to the pool.
 - Before or after the heater (but downstream of solar heating systems).
 - Before a check valve to any chemical dispenser or the injection of any off-line chemical dispenser and before the chlorinator cell.
2. Locate an area on the return line that is at least 200 mm to install the main housing.
3. Turn OFF the pool pump. **Your pump/filter system is operated under pressure. The pressure must be released before you begin work. Please refer to the pump/filter owner's manual for further instructions.**
4. Close any valves. If your pool filtration equipment is below the water level of the pool, you will either need to close the return valve or use winterizing plugs at the skimmer and return fittings to prevent excessive water loss.
5. Remove the Mineral Guard cartridge from the housing and plumb the housing into the pipe, making sure that the flow indicator arrows on the housing match the flow direction of the water. Pipes must be clean and dry before gluing.



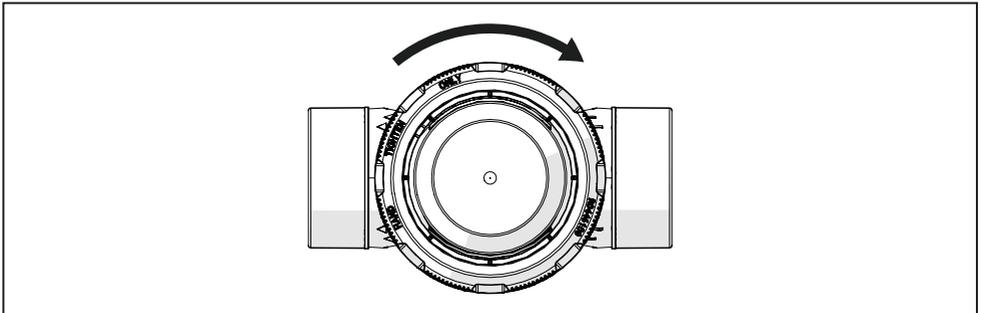
NOTE: If the flow direction of the water does not match the arrows on the housing, the unit will not function properly. Housing can be oriented horizontally or vertically. For ease of servicing and maintenance, it is recommended that the housing be installed horizontally with the cartridge facing up.



6. Install the Mineral Guard cartridge into the housing.



7. Tighten the locking ring.



8. Write the installation date and replacement date on the cartridge label (as the cartridge should be replaced every 6 months for proper use).
9. Open any valves that you closed, and turn on your pool pump to verify that there are no leaks.

If there is a leak, turn off the pump, close the valves, and remove the Mineral Guard. Check that the o-ring is not pinched and is seated properly. Replace the cartridge and hand tighten the nut.

10. Increase your output to maximum or add additional chlorine to get free chlorine levels to around three (3) ppm.

IMPORTANT

Initial superoxidation with chlorine is required to burn off contaminants and activate cartridge.

11. Maintain this slightly elevated level of free chlorine for around 2 weeks.
12. You can now allow your pool sanitation to run at minimum allowable levels (Australian Standards recommend 1 ppm minimum residual chlorine).

Section 5. Cartridge Replacement

The Mineral Guard cartridge needs to be replaced every six months. The installation and replacement date of the cartridge should be written on the cartridge label when installed.

1. Turn off the pool pump.
2. Release the pressure from your pool plumbing system. Refer to your pump/filter manual for pressure release instructions.
3. Close any valves. If your pool filtration equipment is below the water level of the pool, you will either need to close the return valve or use winterizing plugs at the skimmer and return fittings to prevent excessive water loss.
4. Loosen the locking ring.
5. Remove the old Mineral Guard cartridge.
6. Install the new Mineral Guard cartridge.
7. Write the installation date and replacement date on the cartridge label.
8. Tighten the locking ring.
9. Follow the instructions on running the circulating pump and maintaining free chlorine levels as outlined in the section *Installing the Mineral Guard*.

Section 6. Winterizing

IMPORTANT

Do not use a winter algaecide with copper in it. This will void the warranty.

If you wish to winterise or close down your pool for an extended period of time you can remove the Mineral Guard cartridge and use the winteriser cap to ensure continued filtration.

Remove the Mineral Guard cartridge and insert the winteriser cap. Lock into position with the locking ring.

Section 7. Disposal

After six months of use, discard the Mineral Guard cartridge in household trash. Do not save the cartridge for re-use. The cartridge contains mineral media that is sealed inside. In the unlikely event that a cartridge breaks, remove it and vacuum out any media introduced into the pool.

Section 8. Troubleshooting

What to Look For	Problem	Treatment
Cloudy Water	Frequently caused by improper startup	See section on Start Up.
Cloudy Water Slow filter turnover rates	Poor filtration	<ol style="list-style-type: none"> 1. Backwash and clean filter. 2. Run filter for 24 hours. 3. Increase run time per day.
Cloudy Water Hazy pool water; may have slightly green appearance	Algae growth	Superchlorinate water with chlorine according to manufacturer's instructions and brush pool walls.
Cloudy Water <ol style="list-style-type: none"> 1. High hardness 2. High TDS (total dissolved solids) 3. High pH 4. High total alkalinity 	Unbalanced water	Balance the pool water.

What to Look For	Problem	Treatment
Algae Pea green color; attaches to the pool walls; and sometimes colors the entire body of water	Green algae	<ol style="list-style-type: none"> 1. Check pH and adjust if necessary. 2. Superchlorinate water with chlorine according to manufacturer's instructions and brush pool walls. 3. Repeat steps 1 and 2 until algae is gone.
Algae Black spots on pool walls	Black algae	<ol style="list-style-type: none"> 1. Brush affected areas. 2. Superchlorinate water with chlorine according to manufacturer's instructions. 3. Add algacide. 4. Vacuum pool. 5. Repeat steps 1 through 4 until algae is gone.
Algae Yellow or brown film on steps or walls	Mustard algae	
NOTE: Regular algacide treatments are recommended for outdoor pools that experience persistent algae problems. Do not use algae treatments containing either copper or sodium bromide.		
Stains Blue/green	Copper or iron from pool equipment corrosion or water supply	<ol style="list-style-type: none"> 1. Adjust pH and total alkalinity to ideal ranges. 2. Vigorously brush stained areas. 3. Add sequestrant. 4. Run filter. 5. Twelve hours later, superchlorinate pool. 6. Test and balance water. 7. Test pool water for dissolved metals.
Stains Red/brown	Iron or manganese from equipment corrosion or water supply	
Stains Black	Manganese in water supply	
Stains Metal tarnishing	High native mineral content in water; unbalanced water	Clean with soft cloth and mild detergent. Test water for minerals; use a sequestrant; and maintain water balance.
Scale Crusty deposits on pool surfaces	High pH and high total alkalinity High TDS (total dissolved solids) or high hardness levels	Adjust pH and total alkalinity to ideal ranges. <ol style="list-style-type: none"> 1. Replace a volume of pool water with water low in hardness and dissolved solids. 2. Use sequestrant to prevent scale buildup if high hardness levels are a continuing problem.

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