



## CA & ECA Series MEDIA Filters

# INSTALLATION AND OPERATING INSTRUCTIONS

ECA SERIES FILTER

CA SERIES FILTER



## CA SERIES MEDIA FILTERS

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Model No.	Tank Diameter	Filter Area	Port Size	6 Hr. Turnover	8 Hr. Turnover	Sand Req'd.	VIRON ACTIVE COURSE
CA280	665 mm	0.30 Sq M	40 mm	100,800 trs	134,400 ltrs	120 kg	45 kg
CA340	742 mm	0.38 Sq M	50 mm	115,200 ltrs	153,600 trs	150 kg	60 kg
CA400	816 mm	0.46 sq M	50 mm	144,000 ltrs	192,000 ltrs	200 kg	75 kg

Dimensions With Valve Installed			
Model	Height	Width	Shipping Weight
CA280	106 cm	66.5cm	20 kg
CA 340	107.6 cm	74.2 cm	22 kg
CA400	123.3cm	81.6 cm	28 kg

## ECA SERIES MEDIA FILTERS

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Model No.	Tank Diameter	Filter Area	Port Size	6 Hr. Turnover	8 Hr. Turnover	VIRON ACTIVE COURSE	VIRON ACTIVE FINE	Sand Req'd
ECA550	586 mm	0.23 Sq M	40 mm	65,000 ltrs	85,000 ltrs	30 kg	45kg	80 kg
ECA650	665 mm	0.30 Sq M	40 mm	92,000 ltrs	120,000 ltrs	45kg	75kg	120 kg

Dimensions With Valve Installed			
Model	Height	Width	Shipping Weight
ECA 550	98 cm	58.6 cm	13 kg
ECA 650	105 cm	66.5cm	17 kg

INFORMATION AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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## GENERAL NOTES

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1. When unpacking the filter, be sure the unit is complete and no visible shipping damage has occurred.
2. Allow sufficient clearance around filter system for access and maintenance.
3. Provide adequate ventilation for pumping equipment, installed in conjunction with filter.
4. Provide solid mounting for filter and pump. If installed outdoors, install the system on a slab or solid concrete base to avoid risk of settlement. Filter systems once located with sand and water can exceed a weight of 250 kg. If installed indoors, ensure doorway allows sufficient clearance should filter tank require replacing.
5. Installation of filters and pumps should be located as close to the pool as possible to avoid excessive piping friction loss.
6. If system is installed below pool level it is important to install isolating valves to prevent risk of flooding from back up water, from the pool or spa.
7. The proper sand selection is critical to good filter performance. Ensure that the media is an approved form of Quartz Silica sand, glass or Zeolite.
8. The installation of filters requires no special tools.
9. Confirm that plumbing lines from pool are correctly identified. This will ensure proper connection to markings on filter valve (i.e. "Pump", "Waste", and "Return").

## LOADING FILTER SAND

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Once the filter system has been positioned, the installation of filter sand may be undertaken as follows:

1. Check filter size in order to determine necessary amount of sand required.
2. Double check that the internal system consisting of a lateral hub and stand pipe are intact inside the tank.
3. Fill tank half full with water.
4. Place the disposable loading disc into the upper tank opening and the plastic cover over stand pipe to stabilise the filter and stand pipe. It is important that the stand pipe remains centered through the sand loading procedure to ensure alignment with valve assembly opening.
5. Proceed to load correct volume of dry sand slowly (if sand is saturated loading can be difficult).
6. Once sand is loaded discard loading disc and check to determine if stand pipe is properly centered in tank opening.
7. Fill with sand, glass or other approved sand to the shoulder level of the filter.

## INSTALLATION OF SELECTOR VALVE

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1. Following the sand loading, clean any sand particles or debris from upper surface of tank opening.
2. Install six (6) position selector valve after placing **O-Ring** in cavity on tank body. Place valve into tank opening while ensuring that the **O-Ring** has remained in position.
3. Install selector valve into top tank opening and rotate valve to best suit plumbing lines.
  - a. **CA Series:** once valve positioned, tighten the **lock ring firmly** by hand.
  - b. **ECA Series:** once valve positioned, fit **clamp band** assembly around neck of filter and valve and tighten sufficiently for good engagement.
  - c. **Note: It is not necessary to over tighten.**
4. Double check that incoming pool lines are connected to appropriate valve openings as marked on valve port (i.e. pump, return (pool) and waste).
5. The threaded openings on valve are 40mm or 50mm thread which all accommodate Astral Pool barrel unions supplied with the filter. O-rings are supplied to fit between the multiport valve and barrel union. It is only necessary to tighten by hand. **THE USE OF TEFLON TAPE IS NOT REQUIRED.**
6. Remove plug from side wall of valve and install threaded pressure gauge (if not already fitted) using Teflon tape wrap. **Do not over tighten.** Minimal hand tightening is adequate to provide a good seal.

## VALVE OPERATION

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The operation and the positions of valve settings are as follows:

Valve Settings	Direction of flow through Valve
Filter (also during vacuuming)	From pump down through valve, through sand bed, up through stand pipe to valve and back through pool return.
Back Wash	From pump, through valve, down through stand pipe, up through sand bed, and through valve to waste.
Rinse	Flow from pump, through valve, down through sand bed, up through stand pipe, through valve to waste. (Position also used for initial start-up and leveling sand bed after Back-wash)
Waste	From pump, through valve to waste. Also position for lowering water level or assist in draining pool.
Closed	From pump to valve without further circulation. Prevents any flow to filter and pool.
Recirculate	From pump through valve to pool. This position bi-passes the filter and is used for circulation of pool water only.

**NOTE: Always "STOP" pump when changing selector valve position.**

## INITIAL START - UP

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1. Make sure the correct amount of sand is in the filter tank.
2. Prime pump.
3. Set valve handle in BACK WASH position.
4. Start pump and operate in BACK WASH cycle for three (3) minutes. This will purge the filter of excess fines in the sand.
5. Turn pump OFF and set valve handle to RINSE. Start pump and run for one (1) minute.
6. Stop pump and set valve handle to FILTER. Restart pump. System is now operating on a normal FILTER cycle.
7. Adjust the valves in the skimmer and main drain lines (if provided) to achieve balanced flow rates.
8. When a pool is filled initially, the filter may have to be BACK WASHED once a day until the water becomes sparkling clear. From that point on, BACK WASH when pressure gauge indicates 30 to 40 kPa higher than at starting pressure.

## OPERATIONAL & INSTALLATION TIPS

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1. Always turn pump "OFF" before changing valve positions.
2. Never run pump dry as it depends on water for lubrication.
3. Always maintain minimum water level to ½ way up the skimmer mouth.
4. Clean pump strainer regularly.
5. Maintain a proper chemical balance in the pool.
6. Maximum operating pressure is 250kPa on CA Series and 200 kPa on ECA Series.
7. Ensure pressure gauge on valve is positioned so that rain water cannot collect on glass face.
8. Back wash filter regularly for 3-5 minutes or until sight glass runs clean each time to ensure sand is completely cleaned.
9. Always rinse for 1 minute after each backwash and before returning valve position to filter.

## Maintenance of your filter

**Maintenance Schedule:** Your new product incorporates moving parts and withstands high velocity water with chemicals in it. Some of these parts will wear in the normal course of use and require regular checks and maintenance. Performing these checks and maintenance will identify parts that have worn and require repair/replacement before further serious damage is sustained. A small amount of regular care and attention to your pool equipment will help ensure long life and trouble free performance.

Timing	Maintenance Check	Service action (if required)
Fortnightly	Check pressure gauge. If pressure increase is greater than 20kPa cleaning may be required	Perform backwash according to instructions
Three Monthly	Check inlet/outlet o'rings for leaks	Isolate Pump, turn power off, clean and grease O rings or replace if necessary
Annually	Compare operating pressure of backwashed filter to initial pressure (when new) If using Zeolite or M3, regenerate filter sand. This is important in commercial applications as it aids in the removal of ammonias.	If pressure is more than 30 – 40 kPa different from new filter, a sand change may be required Add salt to filter sand per supplier. Allow to sit for 24 hours then backwash, rinse and return to filter.

**Important note:** Regular maintenance is important to ensure long life and trouble free performance of your pool equipment. If unable to perform the maintenance yourself, contact your local AstralPool office who will arrange a trained service technician to perform the maintenance for you.

Record your Equipment details here for quick reference:

Model No.: \_\_\_\_\_

Serial No.: \_\_\_\_\_

Initial Pressure (kPa): \_\_\_\_\_

AstralPool Australia Pty Ltd (ABN 97 007 284 504) ("AstralPool") provides the following warranty in relation to its CA and ECA Series Sand Filters. ("Product").

*Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any 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.*

The benefits of this warranty are in addition to any rights and remedies imposed by Australian State and Federal legislation that cannot be excluded. Nothing in this warranty is to be interpreted as excluding, restricting or modifying any State or Federal legislation applicable to the supply of goods and services which cannot be excluded, restricted or modified.

## **WARRANTY**

AstralPool warrants that, subject to the exclusions and limitations below, the Product will be free from defects in materials and workmanship during the warranty period. The warranty periods are set out below and commence 30 days after the date of purchase (to allow for installation). The warranty period may vary for different parts of the Product.

<b>Parts</b>	<b>Warranty Period</b>
<i>6 way multiport valve and internal components including 'o'rings, gaskets and gauges</i>	<i>12 months</i>
<i>Labour service</i>	<i>12 months</i>
<i>CA Series Tank</i>	<i>10 years</i>
<i>ECA Series Tank</i>	<i>10 year pro-rata;</i> <ul style="list-style-type: none"><li>• <i>0-2 years 100% covered</i></li><li>• <i>3-4 years 80% covered (20% payable)</i></li><li>• <i>5-6 years 60% covered (40% payable)</i></li><li>• <i>7-8 years 40 % covered (60% payable)</i></li><li>• <i>9-10 years 20% covered (80% payable)</i></li></ul>

If a defect appears in the Product before the end of the warranty period and AstralPool finds the Product to be defective in materials or workmanship, AstralPool will, in its sole discretion, either:

- (a) Replace or repair the Product or the defective part of the Product free of charge; or
- (b) Cause the Product or the defective part of the Product to be replaced or repaired by an Authorised AstralPool Service Agent free of charge.

AstralPool reserves the right to replace defective parts of the Product with parts and components of similar quality, grade and composition where an identical part or component is not available.

Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

## **WARRANTY CLAIMS**

1. If a fault covered by warranty occurs, the customer must first contact AstralPool at the contact address listed below, or an Authorised AstralPool Service Agent.
2. Any warranty claim must be accompanied by:
  - (a) proof of purchase;
  - (b) full details of the alleged defect; and
  - (c) appropriate documentation (such as historical and maintenance records).
3. The customer must make the Product available to AstralPool or its Authorised AstralPool Service Agent for inspection and testing. AstralPool or its Authorised AstralPool Service Agent will attend the premises where the Product is installed for inspection and testing. If the Product is installed:
  - (a) outside a capital city metropolitan area; and
  - (b) is not within a 20 km radius of an Authorised AstralPool Service Agent;then the customer may have to pay a travel fee.

4. If such inspection and testing finds no defect in the Product, the customer must pay AstralPool's usual costs of service work and testing. If such inspection and testing finds a defect that is not covered by this warranty, the customer must pay AstralPool's usual costs of service work plus any parts and labour required to repair the Product, unless recoverable from AstralPool on the failure of any statutory guarantee under the ACL.

### **Exclusions**

The warranty will not apply where:

- (a) The customer is in breach of the Terms and Conditions of Sale;
- (b) The Product was used for a purpose other than one it was intended for;
- (c) The Product was repaired, modified or altered by any person other than AstralPool;
- (d) The Product has not been installed, maintained and/or operated in complete compliance with the installation and operating instructions and any instructions by AstralPool;
- (e) The Product has been subject to accident, negligence, alteration, abuse or misuse.

The warranty does not extend to:

- a) Normal wear and tear;
- b) Weather and other environmental conditions including but not limited to storm, flood, and/or heat wave damage; or
- c) Service and maintenance items.

Examples of exclusions include but are not limited to:

- Sand used within the filter vessel
- Costs incurred when installations prohibit the easy repair and/or removal of the filter

### **Commercial Installations**

On commercial installations, such as health clubs, motels/hotels and hydrotherapy facilities, the warranty is limited to parts and in field labour (within capital city metropolitan areas or 20 km radius of Authorised AstralPool Service Agents) for a period of 12 months from the date of purchase plus 30 days to allow for installation.

### **LIMITATIONS**

AstralPool makes no express warranties or representations other than set out in this warranty.

The repair or replacement of the Product or part of the Product is the absolute limit of AstralPool's liability under this express warranty.



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