

# eliteCLEAR

## INSTALLATION MANUAL



26"  
28"



## **WELCOME**

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This is the instruction manual for your Madimack EliteCLEAR Filter. It will help you understand its operation and maintenance, ensuring clean and clear pool water for your enjoyment.

Madimack's EliteCLEAR sand filter is designed to capture unwanted debris before it recirculates, ensuring your pool water stays debris-free. Its exceptional performance is backed by a corrosion-resistant tank with a UV protective coating, guaranteeing durability and longevity. For optimal results, pair the EliteCLEAR with EcoBLEND glass media— a premium mix of fine and coarse glass for continuous, superior filtration support.

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# WARNINGS



- Maximum working pressure: 50psi / 344Kpa
- Maximum operation temp: 50°C
- This filter operates under high pressure. Any air entering the system can become pressurised. Pressurised air can cause the valve or fittings to be blown off, which can result in severe injury, death, or property damage.
- Do not unscrew the flange clamp or any fittings while the filter is operating.
- Always turn the pump off before changing valve position.
- The fittings on the multiport valve are made in ABS. Only use compatible solvent cements and primers.

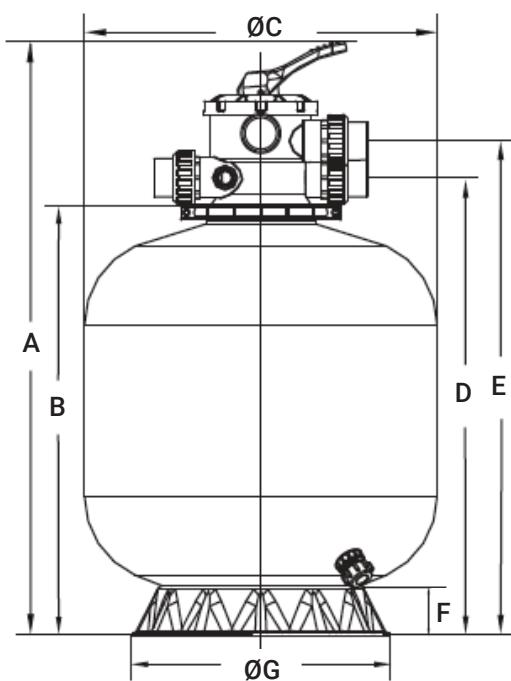
## SPECIFICATIONS

MODEL	Pipe Size (mm/ in)	Filter Area (m <sup>2</sup> / in <sup>2</sup> )	Design Flow (Lpm/ m <sup>3</sup> h)	Media (Kg/ lbs)	EcoCLEAR Media (Bags)	Max Working Pressure (kPa/ psi)
26"	40/ 1.5	0.32/ 3.44	267/ 16	160/ 353	10	344/ 50
28"	40/ 1.5	0.4/ 4.3	333/ 20	220/ 485	14	344/ 50

## DIMENSIONS

MODEL	A	B	ØC	D	E	F	ØG
26"	970	710	635	765	820	95	565
28"	1040	780	710	835	890	95	565

\*\* Measurements are in mm.



# INSTALLATION

## Tools required:

- Philips head screwdriver
- Suitable solvent cement and primer
- Madimack EcoBLEND media

## Positioning:

- The filter must be installed on a flat and solid surface. Settling ground may cause movement over time which can damage equipment and pipework.
- Ensure adequate drainage and convenient access to piping connections and multiport valve.
- Position the filter to allow adequate room for pipework, connected equipment and access to an appropriate discharge for the backwash pipe.
- Allow 400mm above the multiport valve for easy removal and tank maintenance. Although the filter is weather resistant positioning in a protected area will increase the lifespan of the materials used.

Note – Check with State & local guidelines on approved connections for swimming pool wastewater.

## Assembly

1		Inspect and test the laterals inside the tank are properly connected.	7		Insert the multiport valve onto the tank neck, ensuring the centre pipe slips through the multiport valve's o-ring.
2		Ensure the centre pipe is sitting on the spigot inside the tank.	8		Place the two plastic clamp halves around the valve flange and tank flange. Tighten the valve flange clamps with a phillips head screwdriver, tapping around the clamp to help seat it properly.
3		With the filter in its final position, half fill the tank with water. This will help protect the laterals from damage when adding the media.	9		Screw the pressure gauge (with o-ring in place) into the side of the multiport valve. Do not overtighten or cross thread.
4		Position the plastic cover over the centre pipe opening. This prevents media entering the pipework.	10		Ensure each union set has two o-rings. One on the male thread and one between the adapter and pipe tail.
5		Pour in the correct amount of EcoBLEND (or other pool filter media) while ensuring the centre pipe remains vertical.	11		Screw the three unions into the ports labelled PUMP, RETURN and WASTE. NOTE - Hand tighten only.
6		Remove the plastic cap from the internal pipe & level the media surface inside the tank. TIP - Ensure the collar of the tank is completely clean and free of any media.			

# OPERATION

## First Time Startup

1. To prevent dust, dirt and debris entering the pool from the construction Madimack recommends to perform a backwash before running the filter. Refer to 'Performing a backwash' in the Technical Notes section.
2. Once the filter is in normal operation, note the pressure gauge reading. This is the 'clean pressure'. This reading will vary depending on the pool's pump and piping system.
3. Confirm there were no leaks during the backwash and normal operation.
4. The filter is now ready for operation.

## TECHNICAL NOTES

### When to backwash the EliteCLEAR filter

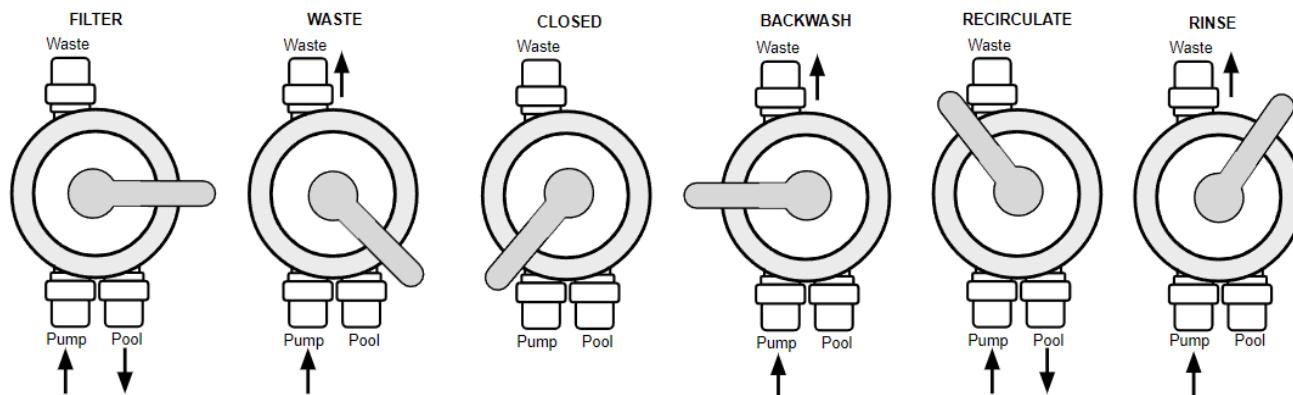
- As the filter collects dirt and impurities, the pressure will rise, and the flow will reduce. If the pressure gauge reads 50-70kPa (9.5psi) higher than the clean pressure, it is time to backwash the filter.
- Always backwash the filter and treat the pool after high contamination events.

### Performing a backwash

Note - When backwashing a filter with a variable speed pump it is important to use the high-speed setting.

5. Check the water level in the pool is adequate to perform a complete backwash.
6. Ensure the pump is stopped before turning the multiport valve handle.
7. Press down on the multiport handle and rotate to select 'BACKWASH'.
8. Start the filter pump for approximately 2 minutes. The water will flow through the connected 'waste' line.
9. Observe the sight glass on the side of the multiport valve. It should show cloudy/ dirty water that clears during the 2-3 minutes.
10. Once the water clears, stop the filter pump.
11. Press down on the multiport valve handle and turn it to 'RINSE'.
12. Start the filter pump for approximately 1 minute. This will rinse the multiport valve and the top section of the tank.
13. Stop the filter pump.
14. Press down on the multiport valve handle and turn it to 'FILTER'.
15. Start the pump to resume normal operation. The backwash process is now complete.
16. Check the system and filter for water leaks. Tighten any loose connections, bolts, or nuts as required.

### Multiport Valve positions



1. FILTER (normal filtration and vacuuming).
2. WASTE (bypasses the filter, used for vacuuming to waste or lowering water level).
3. CLOSED (all ports are closed, typically for maintenance)
4. BACKWASH (cleans the filter by reversing the flow and sending to waste).
5. RECIRCULATE (bypasses filter for circulating water straight to pool).
6. RINSE (used after a backwash to flush the top of tank through the waste line).

## MAINTENANCE

<b>Weekly</b>	<ul style="list-style-type: none"> <li>Check the pressure gauge is within limits</li> <li>Check the pool water level</li> <li>Clear the pump and skimmer baskets</li> <li>Visual inspection for leaks</li> </ul>
<b>Monthly</b>	<ul style="list-style-type: none"> <li>The recommended time between backwashing should be no longer than 4 weeks during the swimming season</li> <li>Check multiport valve handle moves freely</li> </ul>
<b>Yearly</b>	<ul style="list-style-type: none"> <li>Check condition of o-rings in the unions and multiport valve and relubricate or replace.</li> <li>Inspect the media in the filter for clumping, channelling and quality. Treat or replace if required. (Glass media such as EcoBLEND can last up to 10 years depending on use).</li> </ul>
<b>5-10 Years</b>	<ul style="list-style-type: none"> <li>Depending on usage the media may require a clean with a degreaser.</li> <li>Check for channelling in the media</li> <li>Replace media if the water quality is not maintained after cleaning the filter. If the pressure is 40kpa higher than when new for the clean reading it may indicate</li> </ul>

## Troubleshooting

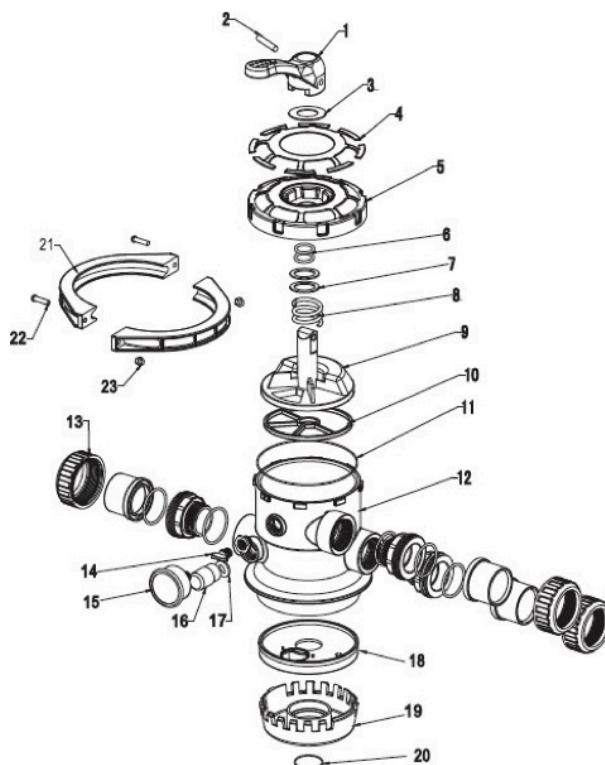
Problem	Possible Cause	Solution
The water is leaking through the sight glass while not in WASTE or BACKWASH setting	<ol style="list-style-type: none"> <li>The MPV has been turned, while water is flowing through the filter.</li> <li>Debris is caught in the MPV gasket.</li> </ol>	<ol style="list-style-type: none"> <li>The gasket in the multiport valve is damaged and requires replacing.</li> <li>Open the MPV and clean any debris.</li> </ol>
Pressure gauge is high and flow is low	<ol style="list-style-type: none"> <li>The filter is full and requires a backwash.</li> <li>There is something restricting the flow after the filter.</li> </ol>	<ol style="list-style-type: none"> <li>Perform a backwash.</li> <li>Check valves are open or blockages after the filter.</li> <li>Test the filter in 'Recirculate' to check if the filter is restricting the flow.</li> </ol>
Pressure gauge is high and flow is high	1. Pump is oversized for the filter	Check the pump flow is not exceeding the filters maximum flow rate.
Pressure gauge is low	<ol style="list-style-type: none"> <li>A variable speed pump is running on low speed.</li> <li>There is a blockage before the filter.</li> <li>Air is in the suction pipe.</li> </ol>	<ol style="list-style-type: none"> <li>A low pressure when pump is on low speed is normal.</li> <li>Check the skimmer and pump baskets.</li> <li>Check the pool water level.</li> <li>Check valves between skimmer and filter.</li> </ol>
Pressure gauge increases rapidly	<ol style="list-style-type: none"> <li>High contaminant levels in the water.</li> <li>A binding chemical has been used.</li> <li>Vacuuming debris off floor.</li> </ol>	<ol style="list-style-type: none"> <li>Possible elevated levels of algae or dust.</li> <li>Some chemicals are designed to assist the filter catch particles. This will rebalance after backwashes.</li> <li>Refer to your pool store for testing and advice.</li> </ol>
Leaking from multiport valve	<ol style="list-style-type: none"> <li>Missing or damaged o-ring</li> <li>Cracks or structural damage</li> </ol>	<ol style="list-style-type: none"> <li>Check o-rings are installed correctly and in good condition.</li> <li>Excessive pressure from the pipework can lead to damage and leaks</li> </ol>
Pressure gauge is high after backwashing	Clumping media, grease and oil trapped in the media.	The media may require a cleaning treatment, a visual inspection or replacement
Noisy filter or rattling sound	Possible flow rate exceeding the maximum limit.	Check the pump flow is not exceeding the filters limit.
Media is getting into the pool	<ol style="list-style-type: none"> <li>Overfilled media tank</li> <li>Damaged or loose lateral in media tank</li> </ol>	Empty the tank and inspect the laterals

\*MPV – Multiport valve

These instructions ensure proper operation and maintenance of your pool filter system.

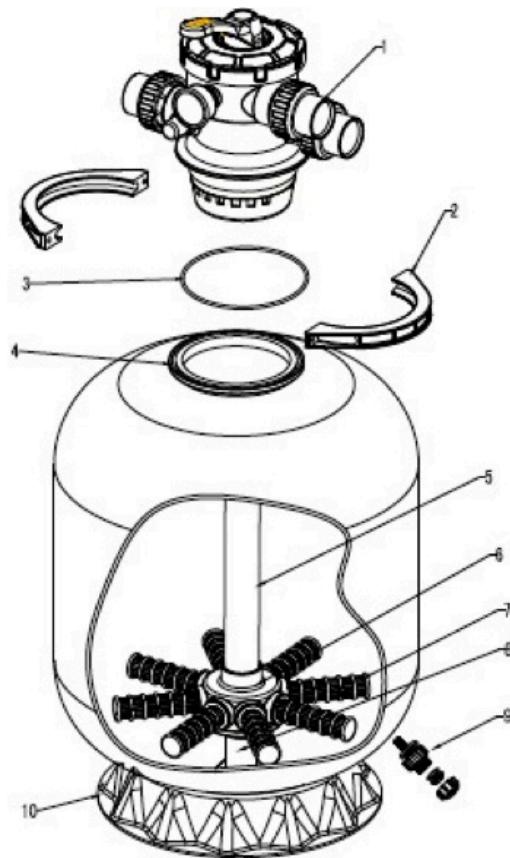
# SPARE PARTS

## Multiport Valve



ID	CODE	DESCRIPTION	QTY	ID	CODE	DESCRIPTION	QTY
1	01-0101	Handle	1	13	01-0113	Bulkhead assy	3
2	01-0104	Screw-handle	1	14	01-0119	Plug	1
3	01-0102	Washer-B	1	15	01-0118	Pressure gauge	1
4	01-0501	Function point-out panel	1	16	01-0120	Sight glass	1
5	01-0502	Lid assy		17	01-0121	Sight glass O-ring	1
6	01-0108	Washer-plastic		18	01-0122	Rotor	1
7	01-0106	Washer-S		19	01-0123	Diffuser	1
8	01-0107	Spring		20	01-0124	O-ring, filter	1
9	01-0204	Rotor		21	01-0505	Clip	1
10	01-0205	Gasket		22	01-0507	Screw-clip	2
11	01-0128	O-ring, lid		23	01-0112	Nut-clip	2
12	01-0503	Body-diffuser assy					

## Media Tank



ID	CODE	DESCRIPTION	QTY	ID	CODE	DESCRIPTION	QTY
1	01-05	Multiport valve 1.5"	1	4	01-09 034	Tank 21"	1
2	01-05 05	Clip-L	1		01-09 035	Tank 25"	1
	01-05 06	Clip-R	1		01-09 036	Tank 28"	1
	01-05 07	Screw-clip	2		02-09 041	Centre pipe	1
	01-05 12	Nut-clip	2		02-01 07	Lateral Assembly	1
3	02-09 01	Gasket of Flange	1	7	02-01 08	Lateral	8
4	01-09 031	Tank 14"	1	8	02-01 12	Support pipe	1
	01-09 032	Tank 16"	1	9	02-01 11	Drain	1
	01-09 033	Tank 18"	1	10	02-01 13	Filter Support Stand	1

# WARRANTY

## STANDARD CONDITIONS - Australia and New Zealand

Madimack Pty Ltd distributes pool products and provides the following warranties:

### STATUTORY RIGHTS

The benefits to the consumer under this warranty are in addition to other rights and remedies of the consumer under the laws in relation to the goods and services to which the warranty relates.

Our goods come with guarantees that cannot be excluded under Australian Consumer Law. You may be entitled to a replacement or refund for a major failure and compensation for any other loss or damage. You are also entitled to have the goods repaired if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

### LIMITED WARRANTY

Madimack warrants that its products are free from defects in materials and manufacture for a period of 4 years from the date of purchase, unless otherwise specified.

Please visit [www.madimack.com.au](http://www.madimack.com.au) for all warranty terms and conditions

Madimack will, at its discretion, repair or replace any product proven to be defective during the warranty period for either materials or manufacture. Alternatively, Madimack will pay the cost of repair or replacement within 90 days of receiving the defective product, subject to unforeseen delays. This warranty is applicable for domestic installations only, is personal to the original purchaser, and does not transfer to any subsequent purchasers.

### EXCLUSIONS

To the extent permitted by law, Madimack excludes all statutory or implied conditions and warranties, as well as any other liability that may arise under statute or at law, including without limitation liability for breach of contract, negligence, or any other cause of action.

The following exclusions apply:

- Incorrect installation or operation of the unit resulting from failure to follow the provided instructions.
- Damage caused due to misuse or any means other than a manufacturer defect.
- Repairs or servicing performed by unauthorised dealers or service stations.
- Damage caused by an unauthorised service station repairs.
- Faults in the machine's operation caused by the use of non-specified accessories.
- General wear and tear of consumable items.

### LIMITATION OF LIABILITY

To the extent permitted by law, Madimack's liability under any condition or warranty that cannot be legally excluded in relation to the supply of goods and services is limited to one of the following options:

Repairing the goods.

Replacing the goods with equivalent products or services.

Paying the cost of replacing the goods or providing equivalent products or services again.

Paying the costs of repairing the goods.

### PROCEDURE FOR WARRANTY CLAIMS

#### Making a claim

The following steps should be taken when making a warranty claim with Madimack Pty Ltd.

- 1) Owners experiencing issues with their system are to contact Madimack Pty Ltd service departments online portal to and provide the requested information. [www.madimack.com.au](http://www.madimack.com.au)
- 2) A service agent will review the provided information and will contact you on the provided phone number to try and solve the issue.
- 3) If the issue cannot be dealt with over the phone, owners will be supplied with details of service agent in their area
- 4) Owners will need to contact and deal with service agents directly in relation to the booking in and payments of works related to the service or repair of their Madimack Pool Heat Pump
- 5) Owners can claim reimbursement for costs of works covered under the product warranty when completed by an approved Madimack Service Agent. When making a claim, owners will need to provide the following documents.
  - Proof that you are the original system owner - original invoice showing owner name and property address.
  - Copy of invoice from an approved Madimack approved service agent.
  - For a major defect a copy of the report for major defects from approved Madimack Service agent.

In the event of a warranty claim, the faulty product should be returned to the place of purchase or, to an authorised service and warranty agent repair centre.

You are responsible for arranging the removal of the defective product and the installation of the repaired or replacement product. This includes all transportation costs and any applicable insurance fees associated with transporting the products to the supplier and the replaced or repaired product from the supplier.

#### All returns require Madimack's written approval and must be accompanied by either:

A service support ticket authorized by Customer Service Manager or Authorised Agent, or  
A "Return Goods Authorisation"



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