madimack

eliteCLEAR

INSTALLATION MANUAL

26”

28”

WELCOME

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 course glass for continuous, superior filtration support.

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WARNINGS

- Maximum working pressure: 50psi / 345Kpa
- 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 of 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.

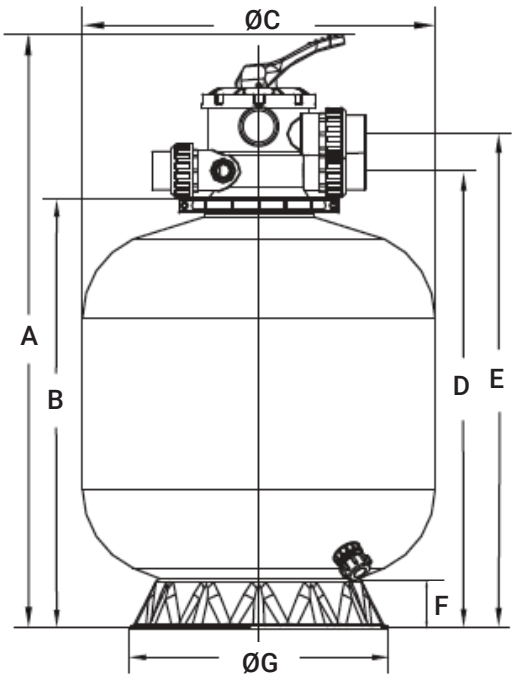
SPECIFICATIONS

Model Name	EliteClear 26" Filter w/ 1.5" MPV	EliteClear 28" Filter w/ 1.5" MPV	EliteClear 26" Filter w/ 2" MPV	EliteClear 28" Filter w/ 2" MPV
SKU	50006	50007	50012	50013
Pipe Size (mm/ in)	40 / 1.5	40 / 1.5	50 / 2.0	50 / 2.0
Filter Area (m²/ ft²)	0.32/ 3.44	0.4/ 4.3	0.32/ 3.44	0.4/ 4.3
Max Flow Rate (LPM/GPM)	267/70.5	333/ 88	267/ 70.5	333/ 88
Max Working Pressure (kPa/ psi)	345/ 50	345/ 50	345/ 50	345/ 50
Media Sand (Kg/ lbs)	160/ 353	220/ 485	160/353	220/485
EcoBlend Media (Bags) 80% of Sand	8	12	8	12

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.



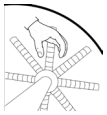
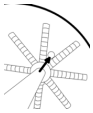
INSTALLATION

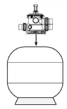
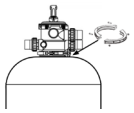
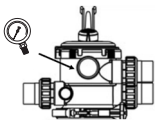
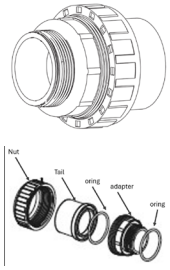
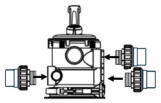
Tools required:
- Philips head screwdriver
- Suitable solvent cement and primer
- Madimack EcoBLEND media

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.
2		Ensure the centre pipe is sitting on the spigot inside the tank.
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.
4		Position the plastic cover over the centre pipe opening. This prevents media entering the pipework.
5		Pour in the correct amount of EcoBLEND (or other pool filter media) while ensuring the centre pipe remains vertical.
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.

7		Insert the multiport valve onto the tank neck, ensuring the centre pipe slips through the multiport valve's o-ring.
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.
9		Screw the pressure gauge (with o-ring in place) into the side of the multiport valve. Do not overtighten or cross thread.
10		Ensure each union set has two o-rings. One on the male thread and one between the adapter and pipe tail.
11		Screw the three unions into the ports labelled PUMP, RETURN and WASTE. NOTE - Hand tighten only.

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

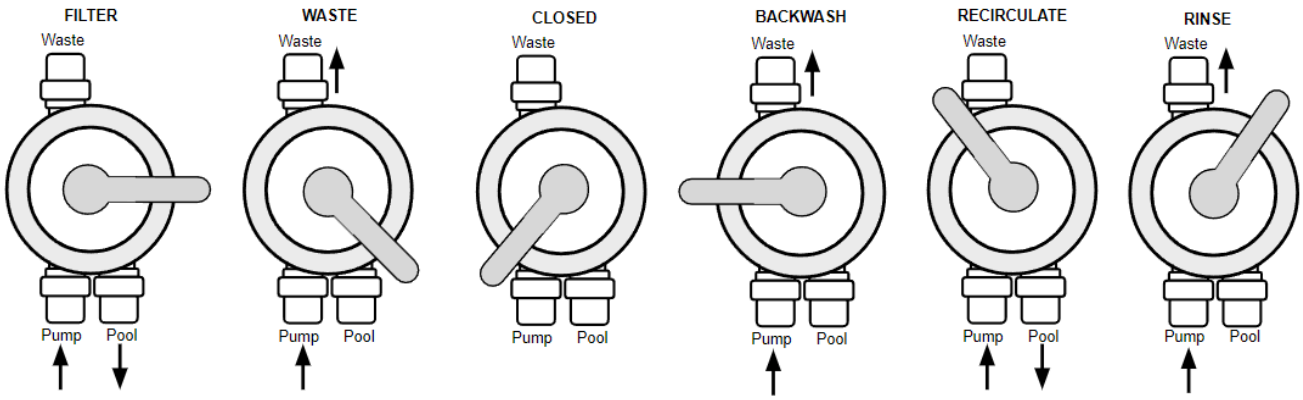
- As the filter collects dirt and impurities, the pressure will rise, and the flow will reduce. If the pressure gauge reads 50-70kPa (9.5psi) higher than the clean pressure, it is time to backwash the filter.
- Always backwash the filter and treat the pool after high contamination events.

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 (by-passes filter for circulating water straight to pool).
6. RINSE (used after a backwash to flush the top of tank through the waste line).

MAINTENANCE

Weekly	• Check the pressure gauge is within limits • Check the pool water level • Clear the pump and skimmer baskets • Visual inspection for leaks
Monthly	• The recommended time between backwashing should be no longer than 4 weeks during the swimming season • Check multiport valve handle moves freely
Yearly	• Check condition of orings in the unions and multiport valve and relubricate or replace. • 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).
5-10 Years	• Depending on usage the media may require a clean with a degreaser. • Check for channelling in the media • Replace media if the water quality is not maintained after cleaning the filter. If the pressure is 40kpa higher then when new for the clean reading it may indicate

Troubleshooting

Problem	Possible Cause	Solution
The water is leaking through the sight glass while not in WASTE or BACKWASH setting	1. The MPV has been turned, while water is flowing through the filter. 2. Debris is caught in the MPV gasket.	1. The gasket in the multiport valve is damaged and requires replacing. 2. Open the MPV and clean any debris.
Pressure gauge is high and flow is low	1. The filter is full and requires a backwash. 2. There is something restricting the flow after the filter.	1. Perform a backwash. 2. Check valves are open or blockages after the filter. 3. Test the filter in 'Recirculate' to check if the filter is restricting the flow.
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	1. A variable speed pump is running on low speed. 2. There is a blockage before the filter. 3. Air is in the suction pipe.	1. A low pressure when pump is on low speed is normal. 2. Check the skimmer and pump baskets. 3. Check the pool water level. 4. Check valves between skimmer and filter.
Pressure gauge increases rapidly	1. High contaminant levels in the water. 2. A binding chemical has been used. 3. Vacuuming debris off floor.	1. Possible elevated levels of algae or dust. 2. Some chemicals are designed to assist the filter catch particles. This will rebalance after backwashes. 3. Refer to your pool store for testing and advice.
Leaking from multiport valve	1. Missing or damaged o-ring 2. Cracks or structural damage	1. Check o-rings are installed correctly and in good condition. 2. Excessive pressure from the pipework can lead to damage and leaks
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	1. Overfilled media tank 2. Damaged or loose lateral in media tank	Empty the tank and inspect the laterals

*MPV – Multiport valve
These instructions ensure proper operation and maintenance of your pool filter system.

Limited Warranty

Standard Conditions: Madimack Pty Ltd (Australia) provide the following limited warranties. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

IMPORTANT - Full Terms and Durations:
For a complete list of warranty periods and product-specific terms, please visit the warranty section at www.madimack.com

Statutory Rights: This document sets forth the comprehensive terms and conditions governing the warranty provided by Madimack. These terms are in addition to, and not a modification of or subtraction from, the statutory warranties and other rights and remedies contained in applicable local legislation, including the Australian Consumer Law where applicable.

Limited Warranty Coverage: Please visit www.madimack.com for full duration and product-specific terms. Madimack will, at its discretion, repair or replace any product proven to be defective in materials or manufacture during the warranty period. This warranty applies to domestic installations only, is personal to the original purchaser, and is non-transferable.

Exclusions: To the extent permitted by law, Madimack excludes all statutory or implied conditions and warranties. Madimack shall not be liable for any incidental or consequential damages (such as water loss or damage to surrounding structures). The following exclusions apply:

- Incorrect installation or operation resulting from failure to follow provided instructions.
- Damage caused by misuse, neglect, or "acts of God."
- Repairs or servicing performed by unauthorized dealers.
- Faults caused by the use of non-specified accessories or chemicals.
- General wear and tear of consumable items (e.g., seals, O-rings).

Procedure for Warranty Claims:

1. Initial Contact: Owners must contact Madimack via the online portal at www.madimack.com or the support numbers listed below.
2. Remote Troubleshooting: A service agent will attempt to resolve the issue via phone or email.
3. Service Type Determination:
    a. Return-to-Base: For portable or shippable units, you are responsible for disconnecting and transporting the product to an authorized service center. You are responsible for all freight and insurance costs to and from the supplier.
    b. On-Site Service: For fixed equipment, Madimack may coordinate an on-site technician. You are responsible for providing clear and safe access to the unit.
    c. Labor & Removal: You are responsible for the costs of removing the defective product and reinstalling the repaired/replacement product.

Required Documentation: All claims must include:

1. Proof of original purchase (Invoice with owner name and address).
2. A "Goods Return Authorization" or Service Ticket number provided by Madimack.

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