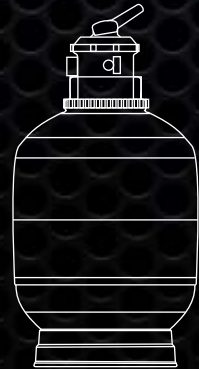




**NORIA**  
performance on demand



# EVO:S Sand Filters

INSTALLATION & OPERATION

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# OVERVIEW

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Noria EVO:S sand filters offer superior performance. Strategically designed and engineered, the EVO:S sand filter perfectly matches the higher output of Noria POD pumps providing a supreme choice for pool equipment. The spun fibreglass tank provides larger capacity and higher flow rate to enable the pool to filter more effectively with reduced time saving on running costs. These benefits make the EVO:S perfectly compatible with in-floor cleaning systems. The unique tough spun fibreglass body provides unrivalled strength and durability to ensure maximum life and trouble free operation. Clever engineering means the 6 position multi-port valve perfectly aligns and fits without special tools, and the filter has self-sealing barrel unions. These unions make inspection or changing of the filter media user-friendly. Backwashing of the EVO:S takes mere minutes due to the intelligently designed laterals which ensure water flow is swift and the filter media cleaned quickly and effectively.

The Noria EVO:S series filter use media such as filter sand or Focus Zeolite to remove debris from the pool water. This is achieved by the pool pump drawing water from the skimmer box, through the multiport valve (filter valve), and via the sand/Zeolite bed trapping the debris in the bed. The water then travels through the lateral system at the base of the filter tank, up the centre pipe, through the multiport valve, returning back to the pool via the returns. After a period of time debris will accumulate in the sand/zeolite bed creating a resistance to water flow. A reduction in water flow at the pool returns and an increase in pressure at the pressure gauge will be evident. This means the filter requires cleaning. (see backwashing)

# INSTALLATION

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1. The filter should be installed on a solid base such as a concrete slab or similar. Position the filter so that the valve is accessible for operation and service.
2. Fit the clear plastic sand diffuser into the neck of the filter and over the stem pipe. This will ensure the sand is spread evenly and will also prevent sand getting into the stem pipe.
3. Fill the tank half full with water. The water provides a cushioning effect when the sand is added.
4. Fill the filter tank with the correct amount of filter media. (filter sand/ Focus zeolite)
5. Remove the plastic sand diffuser and discard.
6. Fit the Multiport valve to the tank neck, ensuring the stem pipe fits into the base of the valve.
7. Fit the two plastic C shaped clamps around the valve flange and tank neck. Tighten the clamp nuts enough to enable the valve to still rotate for final positioning.
8. Fit the pressure gauge to the Multiport valve.  
**IMPORTANT: HAND TIGHTEN ONLY.**
9. Plumb the pool pump to the filter valve marked PUMP. Tighten the valve flange clamps, tapping around the clamp as you tighten. This will pull the valve down evenly to ensure there are no water leaks.
10. Plumb the return line from the filter marked RETURN and the waste line marked WASTE.
11. Check to ensure all fittings are tight and glued.

# START-UP PROCEDURE

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## **Priming the pool pump/Starting the filter**

1. Undo the pump lid and fill the hair and lint pot two thirds full with water. Refit the lid and **HAND TIGHTEN ONLY**.
2. Depress the Multiport valve handle and rotate in any direction to the **BACKWASH** position. Always depress handle before moving as this will stop any damage to valve seal.
3. Switch on the pump at the power supply. The pump may take a few minutes to draw water and prime completely. If there is no water flow after 3 minutes, switch off and redo step (1).
4. Once the pump has primed, check the sight glass on the Multiport valve situated near the **WASTE** port. Once the sight glass is clear (1 to 2 minutes) switch pump **OFF** at the power supply, depress the valve handle and rotate to the **RINSE** position. Switch the pump back **ON** for 30 seconds or until the sight glass is clear. Switch the pump **OFF**, depress the valve handle and rotate to the **FILTER** position. Switch the pump back **ON**.
5. Please note: Record the pressure reading on the pressure gauge following the initial start up. This indicates the normal operating pressure for when the filter is clean. As the filter removes debris and impurities from the water and traps them in the sand bed, an increase in filter pressure will be evident. A reduction in water flow at the pool returns and an increase in the pressure gauge of 40 to 50 kpa above the initial start up pressure indicates the filter requires **BACKWASHING**.

# BACKWASHING

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1. Switch pump OFF. Rotate the Multiport valve handle until it reaches the BACKWASH position. Switch ON the pump and operate in BACKWASH for 3 minutes or until the sight glass is clear.
2. Switch pump OFF at the power supply, depress the valve handle and rotate to the RINSE position. Switch the pump back ON for about 1 minute.
3. Switch pump OFF, depress the valve handle and rotate to the FILTER position. Switch the pump back ON for normal system operation.

# VACUUM CLEANING

When using a manual vacuum system utilise the following instructions. Connect the vacuum head to the telepole and push the hose connector onto the vacuum head. Fill the vacuum hose by feeding it into the water with the vacuum head on the bottom of the pool. Connect the other end of the hose to the vacuum plate in the skimmer box. Ensure the Multiport valve handle is in the FILTER position. Switch on the pump and vacuum the pool. When completed, switch OFF the pump, disconnect the hose from the vacuum plate and remove the plate, The vacuum hose may now be stored for future use. BACKWASH the filter as per the instructions..

# MULTI-PORT VALVE OPERATION

From pump down through valve, through sand bed, up through stand pipe to valve and back through pool return.



## **FILTER**

For standard operation and used for vacuuming

From pump, through valve, down through stand pipe, up through sand bed, and through valve to waste.



## **BACKWASH**

For cleaning the sand bed of all debris

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)



## **RINSE**

Used after Backwash to settle and level the sand bed.

From pump, through valve to waste. Also position for lowering water level or assist in draining pool.



## **WASTE**

To lower excess water from pool.

From pump through valve to pool. This position bypasses the filter and is used for circulation of pool water only.



## **RE-CIRCULATE**

Re-circulates water to and from the pool. (bypassing the filter bed) sometimes used for spa jets to increase water flow.

From pump to valve without further circulation. Prevents any flow to filter and pool.



## **CLOSED**

Closes of all ports on the valve. Note: DO NOT switch on the pump when the valve handle is in the CLOSED position.

# SPECIFICATIONS

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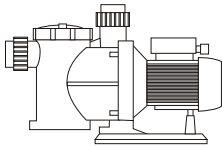
	<b>EVO:S600</b>	<b>EVO:S700</b>
<b>Diameter</b> .....	600mm	700mm
.....	24"	28"
<b>Height</b> .....	970mm	1090mm
<b>Connections</b> .....	40mm	50mm
.....	1.5"	2"
<b>Flow(litres/minute)</b> .....	240	320
<b>Pool ('000 litres)</b> .....	up to125	up to155
<b>Sand Capacity</b> .....	150kg	180kg
<b>Zeolite Capacity</b> .....	105kg	140kg
<b>Maximum Working Pressure</b> .....	250 kpa	250 kpa
<b>Net Weight</b> .....	21kg	31kg



# OTHER NORIA PRODUCTS

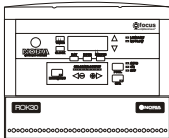
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The Noria pool and spa pumps, chlorinator and filters have been developed by Focus Products to bring a new level of performance and style to the pool and spa equipment market. The stylish Noria range has been intelligently designed to easily meet the most demanding requirements. With quality materials and workmanship all Noria equipment works in harmony ensuring pools and spas are easy to maintain and ready for use at any time. All Noria equipment comes with extensive warranties backed by the service and support of Focus Products – an Australian owned company delivering the complete partnership solution to pool and spa industry.



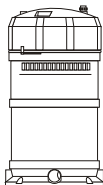
## POD pool and spa pumps

Ruggedly enduring, aesthetically pleasing and designed to survive the elements the Noria POD pool and spa pumps provide performance on demand.



## ROK self cleaning salt chlorinator

Built and tested to perform in Australia's harsh climate the Noria ROK30 self cleaning salt chlorinator offers superior levels of control, style and convenience.



## EVO:C cartridge filters

The Australian designed and made Noria EVO:C cartridge filter is the superior choice for pool and spa filtration.

# WARRANTY

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## **Residential Pools**

The EVO:S Filter tank is covered by a limited 10 year warranty against defects in materials and faulty workmanship from the date of purchase.

## **Limitations**

Labour Warranty is covered for a period of 12 months from the date of purchase. The valve, unions, gauge and internals are covered for a period of 12 months from the date of purchase.

Exclusions include but are not limited to: sanitiser levels in excess of 15ppm, water pressure in excess of 250 kpa, inadequate access for service, the use of the filter for anything other than swimming pool and spa filtration, a water temperature above 40 deg celsius, incorrect filter media being utilised, misuse or abuse whether by accident or intention. Focus Products assumes no liability for consequential damages of any kind. No person is authorised to make any representation on behalf of Focus Products other than what is written here.

## **Commercial Installations**

The EVO:S Filter tank is covered by a limited 3 year warranty against defects in materials and faulty workmanship from the date of purchase.

The valve, unions, gauge and internals are covered for a period of 12 months from the date of purchase.

# EVO:S WARRANTY REGISTRATION CARD

Please fill out the details below and post to:

**Focus Products Pty Ltd**  
PO Box 131 Carole Park  
QLD4300

**Name** \_\_\_\_\_

**Address** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Suburb** \_\_\_\_\_

**Postcode** \_\_\_\_\_

**Purchased From** \_\_\_\_\_

**Date Purchased** \_\_\_\_/\_\_\_\_/\_\_\_\_

**Installation Date** \_\_\_\_/\_\_\_\_/\_\_\_\_

**Model**  S600  S700

**Serial Number** \_\_\_\_\_

**Signature** \_\_\_\_\_

OFFICE USE ONLY

RECEIVED \_\_\_\_/\_\_\_\_/\_\_\_\_

RECEIVED BY \_\_\_\_\_

WARRANTY# \_\_\_\_\_

A PERFORMANCE PRODUCT BY



CHEMICALS • EQUIPMENT • PVC • SUPPORT

## 1300 1 FOCUS

**P** 1300 1 36287

**F** 1300 2 36287

**A** 35 Moreton Street  
HEATHWOOD Q 4110  
PO Box 131  
CAROLE PARK Q 4300

[noria@focusproducts.com.au](mailto:noria@focusproducts.com.au)