SLIMLINE CARTRIDGE FILTER

Owners Manual

⚠ WARNING This equipment must be installed and serviced by a qualified technician. Improper installation can create electrical hazards which could result in property damage, serious injury or death. Improper installation will void the warranty.

Notice to Installer

This manual contains important information about the installation, operation and safe use of this product. Once the product has been installed **this manual must be given to the owner/ operator of this equipment.**

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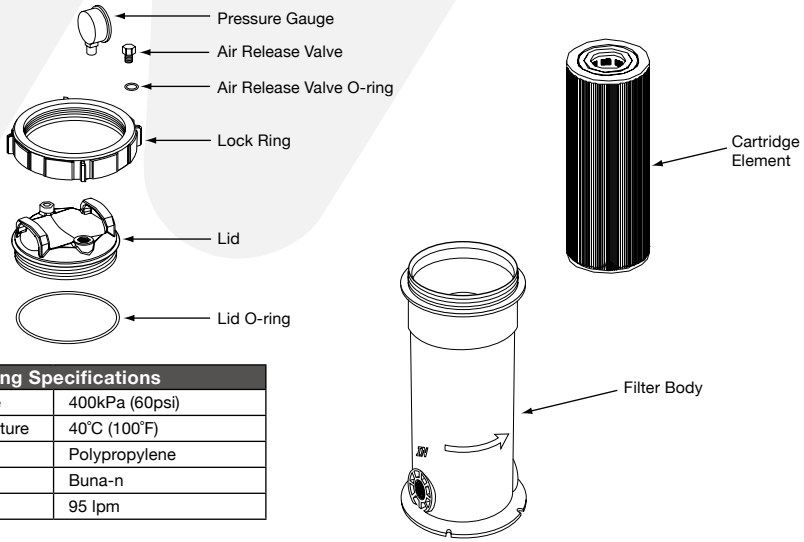
DESCRIPTION

The Slimline Cartridge Filter has been designed as a Space-Saving Cartridge Filter ideal for apartments. The Slimline Cartridge Filter is easily maintained with an easy to use lock ring lid for simple cartridge removal and replacement.



Housing Specifications	
Maximum Pressure	400kPa (60psi)
Maximum Temperature	40˚C (100˚F)
Material	Polypropylene
Seals	Buna-n
Flow rates	95 lpm

WATER FILTRATION

Water enters the housing through the bottom inlet port and flows through the pleated cartridge from the exterior to the interior. Particulars are retained on the outer surface of the pleated cartridge and clean liquid exits the housing at the base.

Note: A sediment filter removes dirt, debris and suspended solids, it does not sanitise the water.

POSITIONING

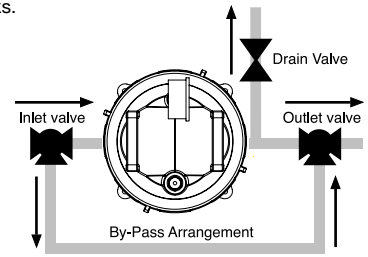
- The filter unit should sit on a level concrete surface or a precast concrete slab of suitable strength.
- The filter unit should be located near a drain, to minimise piping for waste.
- Position the filter away from direct sunlight.

INSTALLATION

- Be sure to comply with the local plumbing codes. The filter may be plumbed into a drinking water system and would, therefore be subject to whichever local regulations may apply.
- Be sure that all provisions for wastewater disposal meet local, state or national codes. Do not discharge water where it will cause flooding or damage.
- Take special care with the waste line. If there is not an adequate air gap between the waste pipe outlet and the drain into which it discharges, a siphon may develop that will draw some of the drain waste back into the water filter. This may result in undesirable “cross connection” between a safe and unsafe water supply.
- If the incoming water pressure is higher than the maximum working pressure, a Pressure Regulating Valve (PRV) must be incorporated upstream to the filter inlet. The PRV should be at least 20mm (3/4”) DIA.

PIPING

- To minimise pressure loss through the filter, all incoming connecting pipe work should be 40mm (11/2") DIA PVC Class E.
- For best efficiency, use the fewest possible fittings. This prevents a restriction in the water flow.
- A by-pass piping arrangement should be incorporated, which allows the entire filter unit to be easily isolated for servicing and maintenance, while ensuring continuous water supply.
- Filter connections are provided with an O-ring seal. To avoid damage to the 0-rings, use a silicone base lubricant on the O-rings.
- Keep piping tight and free of leaks.



FILTER ELEMENT CHANGES

Cleaning Slimline Filter Cartridge Element

1) Turn off and lock out the pump, (if installed).
   If a By-pass Valve is fitted, the pump is not required to be turned off.
2) Close the Inlet and Outlet Valve (not supplied with the unit).
   Open the By-pass Valve, if fitted.
3) Open the Air Relief Valve (on the lid) to release all air pressure from inside the tank and system.
4) Remove the lid manually by turning the lid lock ring counter clockwise.
5) Remove the filter cartridge and place it upright in an area suitable for washing.
6) Use a garden hose and nozzle to wash each pleat of the filter cartridge.
7) Thread the lid lock ring and reseal the filter tank. Hand tighten only.
   When reassembling the lid, check the O-ring for cracks or tears. Replace if necessary.
8) Start the pump (if installed) and slowly open the Inlet Valve, fill the housing until water flows from the Air Relief Valve. If a By-pass Valve is fitted, close the By-pass Valve and slowly open the Inlet Valve, fill the housing until water flows from the Air Relief Valve.
9) Close the Air Relief Valve and open the Outlet Valve. The filter is now back in operating mode.

CONDITIONS FOR CARTRIDGE REPLACEMENT

As filtration proceeds, the void areas in the medium become filled with debris filtered from the water. The pressure will start to rise and the flow of water will start diminishing. The filter will eventually become so clogged with debris that it will be necessary to either clean or dispose of the filter medium.

Cartridge replacement is determined by the following conditions:

- The pressure drop increases.
- The flow rate decreases until it is insufficient to meet the demand.
- The removal efficiency decreases to the point where the effluent quality deteriorates and is no longer acceptable.

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