PENTAIR FLOTEC

OWNER'S MANUAL

ECODRAIN

SUMP PUMP SERIES

OWNER'S MANUAL



An earth leakage or residual current protection device must be fitted to all installations.

Should the installer or owner be unfamiliar with the correct installation or operation of this type of equipment, contact the distributor or manufacturer for the correct advice before proceeding with the installation or operation of this product.

CAUTION

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TECHNICAL INFORMATION



CONSTRUCTION MATERIALS

Pump casing:	Cast iron
Impeller:	Cast iron
Motor shaft:	Stainless Steel - 304
Mechanical seal:	SiC/Carbon + Carbon/ Ceramic
Oil seal:	NBR
Power cable:	H07RN-F
Float cable:	H07RN-F

TECHNICAL SPECIFICATIONS

Model EcoDrain	ECD180	ECD370	ECD550
Pump discharge connection	G1½"	G1½"	G2"
Supplied fitting	40mm	40mm	50mm
Power supply	230V - 1Ph - 50Hz	230V - 1Ph - 50Hz	230V - 1Ph - 50Hz
Voltage limits	207V - 253V (230V ± 10%)	207V - 253V (230V ± 10%)	207V - 253V (230V ± 10%)
Maximum flow rate	183 lpm	217 lpm	267 lpm
Maximum head	8m	11m	13.5m
Water temperature range	4°C-40°C	4°C-40°C	4°C-40°C
Power consumption P2	0.18 kW	0.37 kW	0.55 kW
Current	2A	3.5A	4.5A
Maximum submergence	5m	5m	5m
IP rating	IPX8	IPX8	IPX8
Free passage	15mm diameter	20mm diameter	20mm diameter

APPLICATION

EcoDrain is designed for clear or grey water containing some soft solids. Typical applications include dewatering pits, drainage, water features and low-lying areas prone to flooding. Do not use your EcoDrain for liquids other than clear or grey water. Using corrosive, abrasive or explosive fluids will damage the unit and may cause personal injury or death.

SAFETY WARNING

These instructions are a guide only. Users not familiar with pumping equipment should seek advice from people experienced in pump equipment and installation. The pump operator or owner must be provided with this owner's manual. This must be read before operation and followed during operation.



Freezing conditions will damage the unit because as water freezes, it expands. Ensure that EcoDrain is located so that it is not prone to freezing or ensure that the product is disconnected and dried of water during cold conditions.



EcoDrain is electrically connected. Ensure that it is isolated from electrical supply during installation and any subsequent service work.



EcoDrain is designed to be used with clear or grey water in residential applications. Do not use it with alternative fluids specifically abrasive, corrosive or explosive fluids. Do not install or operate your EcoDrain in an explosive environment or near combustible matter.



Do not run the EcoDrain dry or with the motor exposed (i.e. out of the water) for long periods. This will harm the pump's seal and overheat the motor. Do not lift, move or carry this pump by the electrical cable or float switch cable.



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.



Children should be supervised to ensure that they do not play with the appliance.
When used in a swimming pool, the following applies:

- the pump must not be used when people are in the water
- the pump must supplied through a residual current device (RCD) with a rated residual operating current not exceeding 30 mA.

INSTALLATION

⚠ IMPORTANT Read the following instructions in this owner's manual when installing and operating equipment.

Fittings and accessories

Ensure that you have all required fittings and accessories prior to installing your EcoDrain:

- thread seal tape (rigid discharge pipe installations)
- hose clamps (flexible discharge pipe installations)
- cable ties

A larger diameter hose or pipe will offer less resistance to flow. This enables better performance.

Preparation for installation

Inspect your EcoDrain for shipping damage. Report any damage to your Pentair dealer.

Securely connect a stainless steel wire cable or a rope to the handle of the pump ensuring that the wire/cable exceeds the safe working load of 20kg.

If you are using a rigid discharge pipe, thread the fitting / pipework into the outlet of the pump housing. If you are using a flexible discharge hose, use hose clamps to secure this to the fitting provided.

Lower the pump into the tank using the rope or wire cable. Lower the pump onto a hard, level surface elevated above the base of the pit. This is to keep the pump inlet above sediments in the bottom of the tank.

Ensure that the float switch can move freely within the tank – incorrect operation and pump failure may occur if the float switch becomes trapped.

The pump must only be connected to a socket that has been correctly installed in accordance with national wiring regulations and is protected with a residual current device (RCD) with a rated residual operating current not exceeding 30mA. The pump will operate when the float is above the cut in level, and stop operating when the float is below the cut out position.

If the pump must be removed from the tank, use the lifting rope or lifting wire cable to lift it. Do not use the power cable or the float switch to lift the pump.

OPERATION

Connect the pump to a suitable power outlet.

Operation check

1. Ensure that the pump is completely submerged.

2. This may require adding water to the tank from another source.

3. The float switch will rise, and the pump will start and empty the pit.
   As the pit empties, the float switch will fall and then stop the pump.

4. Check that there is adequate pressure and flow from
   the discharge point.

If there are any variations to these outcomes, please see the Troubleshooting Section on the pages 6-7.

SERVICE & MAINTENANCE

You should regularly inspect your Flotec EcoDrain for any damage or deterioration due to either fair wear and tear or misuse.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid an electrocution hazard.

It is recommended that you periodically check the pump's pressure and current draw. A decrease in pressure is a symptom of pump wear caused by grit or silt in the water. An increase in current draw is a symptom of abnormal mechanical friction in the pump or motor that is caused by solid material being lodged within the pump. In the event either of these symptoms occur, the pump must be serviced by the manufacturer, its service agent or similarly qualified person in order to avoid pump failure and/or a hazard.



Pumping water containing solids will reduce the life of the pump, and may affect warranty.



Pumping chemicals or agricultural products voids warranty.



Do not pump hydrocarbons with this pump.



If the pump is not going to be used for a long period of time, it should be a completely emptied, rinsed with clean fresh water, and stored in a dry place.



Always use original service parts as supplied and recommended by Pentair. Failure to do so may void warranty.

TROUBLESHOOTING

SYMPTOM	Cause	Remedy
Pump doesn't start.	Float switch isn't in the 'ON' position.	Wait until there is more water in the pit to start the pump.
	Not enough water in the pit to get the float above level.	
	Float is caught on something and can't rise above level.	Ensure that the float can move freely.
	No power supply.	Ensure that the pump is connected to a live outlet.
		Check fuses and circuit breakers.
	Pump is blocked.	Disconnect the pump from the power outlet. Check the pump housing and discharge for foreign matter.
No water from pump.	Blockages in the pump or discharge.	Disconnect the pump from the power outlet. Check the pump housing and discharge for foreign matter.
	Excessive lift.	Ensure that the height that you are trying to lift water is within the pump's capacity. A larger pump may be required.
	Not enough water in the pit to pump.	Wait until there is more water in the pit. Ensure that float switch is operating freely.

TROUBLESHOOTING

SYMPTOM	Cause	Remedy
Pump will not stop even though there is little water in the pit.	Float switch is trapped in the "UP" position.	Ensure that the float switch can operate freely.
	Float switch is fused "ON".	Replace the float switch.
Pump runs intermittently: Thermal protection inside the pump is tripping and resetting.	The pump is not completely submerged.	Ensure pump is covered with water.
	Water temperature is too high.	Ensure that water temperature limits are observed.
Pump runs intermittently.	When the pump shuts off, water in the discharge line is running back into the pit, lifting the float switch.	Fit a non-return valve at the pump discharge so that water cannot return to the pit.

WARRANTY

For Warranty period and Terms and Conditions, please refer to the Warranty Schedule supplied with the product. Alternatively, visit pentair.com.au/terms-of-use/

NOTES



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