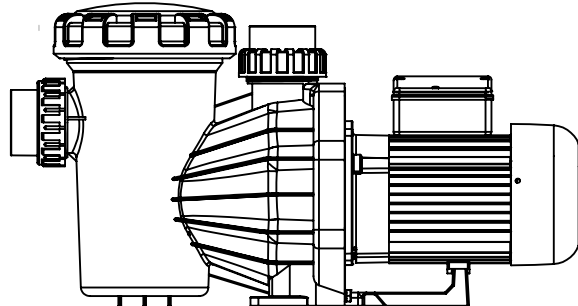


# EcoWave

## ECW Series Centrifugal Pump Installation & Operation Instructions



### INSTALLATION

Only qualified, licensed personnel should install pump and wiring.

#### **IMPORTANT ELECTRICAL**

Electrical Contractors Please Note: The pumps must be wired to the main power supply through an approved technicians & contactor.

#### **Pump Mount Must:**

- ❖ Mounted on solid firm base.
- ❖ Place pump close to the pool. Don't install the pump at more than 3M geometrical height from water level)
- ❖ Allow for gate valves in suction and discharge piping.
- ❖ Have adequate floor drainage to prevent flooding.
- ❖ Be protected from excess moisture.
- ❖ Have adequate access for servicing pump and piping.

#### **⚠ WARNINGS:**

- 1) This pump is not intend 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 pump by a person responsible for their safety. Children should be supervised to ensure that they do not play with the pump.
- 2) If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 3) The pump is to be connected through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.
- 4) Appliance only for outdoor used. (Pump shelter recommended)

#### **NOTICE:**

Pump suction and discharge connections have moulded in thread stops, **DO NOT** try to screw pipe in beyond these stops.

## OPERATION



- ▲ **NEVER** dry run the pump! Running pump dry may damage seals, causing leakage and flooding! Fill pump with water before starting motor.
- ▲ Before removing lid:
  - ❖ STOP THE PUMP .
  - ❖ CLOSE THE GATE VALVES in suction and discharge pipes.
  - ❖ RELEASE ALL PRESSURE from pump and piping system.
  - ❖ NEVER tighten or loosen screws while pump is operating. Do not block pump suction! To do so with body may cause severe or fatal injury. Small children using pool must ALWAYS have the adult Supervision!

### Priming Pump:

- ❖ Release all air from filter and piping system: see filter owner manual.
- ❖ In a flooded suction system (water source higher than pump), pump will prime itself when suction and discharge valves are opened.
- ❖ If pump is not in a flooded suction system, unscrew and remove the cover; fill water into the pump.
- ❖ Clean and inspect Ring; re-install the cover.
- ❖ Replace the cover; turn clockwise to tighten cover.

**NOTICE: Tighten the cover by hand only. Turn the pump on a run until prime is established. Priming time will depend on vertical length of suction lift and horizontal length of suction piping.**

## ROUTINE MAINTENANCE

The only routine maintenance needed is inspection/cleaning of the basket. Debris or trash that collects in basket, will close off water flow through the pump. Follow instructions below to clean prefilter:

- 1) Stop pump, close gate valve in suction and discharge, and release all pressure from system before proceeding.
- 2) Unscrew prefilter lid (turn counterclockwise).
- 3) Remove strainer basket and clean. Be sure all holes in basket are clear, flush basket with water and replace in prefilter with large opening at pipe connection port (between ribs provided). If basket is replaced backwards cover will not fit on the trap body.
- 4) Clean and inspect lid Ring; reinstall on the cover.
- 5) Clean the nut for lid. To help keep lid from sticking, tighten with hand only.
- 6) Prime pump (see priming instructions above)

## SERVICE & REPAIR PARTS

Contact the local dealer for servicing and ordering spare parts. Give the following information when ordering spare parts:

- 1) Product ID Number & Description.
- 2) Part ID Number & Description.

## TROUBLE SHOOTING

### **MOTOR DOES NOT START**

- 1) Switch or circuit breaker in off position
- 2) Fuses blown or thermal overload open
- 3) Locked motor shaft
- 4) Motor windings burned out
- 5) Defective starting switch inside single phase motor
- 6) Disconnected or defective wiring
- 7) Low voltage

### **PUMP DOES NOT REACH FULL SPEED**

- 1) Low voltage
- 2) Pump connected for wrong voltage

### **MOTOR OVERHEATS** (protector trips)

- 1) Low voltage
- 2) Motor windings connected for wrong voltage on dual voltage model
- 3) Inadequate ventilation

### **PUMP DELIVERS NO WATER**

- 1) Pump is not primed
- 2) Closed valve in suction or discharge line
- 3) Leakage or air into suction system
- 4) Impeller clogged

### **LEAKAGE OF WATER AT SHAFT**

- 1) Shaft seal requires replacement

### **LOW PUMP CAPACITY**

- 1) Valve in suction or discharge line partly closed
- 2) Suction or discharge line partly plugged
- 3) Suction or discharge line too small
- 4) Dirty basket in skimmer
- 5) Dirty sand filter
- 6) Impeller clogged

### **HIGH PUMP PRESSURE**

- 1) Discharge valve or inlet fittings closed too much
- 2) Return lines too small
- 3) Filters need backwashing

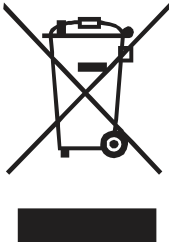
### **NOISY PUMP AND MOTOR**

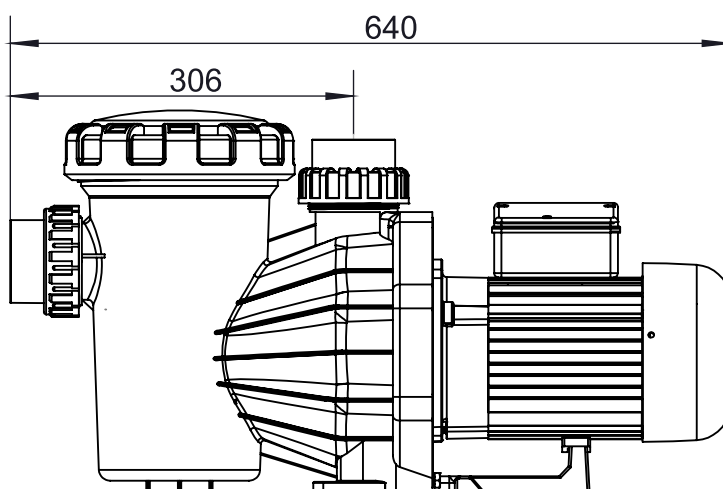
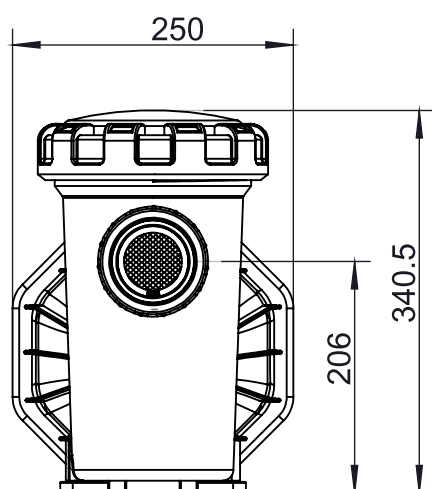
- 1) Dirty basket in skimmer or prefilter
- 2) Worn motor bearings
- 3) Dirt around the impeller and impeller cover
- 4) Valve in suction line partly closed
- 5) Suction line partly plugged
- 6) Vacuum hose plugged or too small
- 7) Pump not supported properly

### **AIR BUBBLES AT INLET FITTINGS**

- 1) Leakage of air into suction line at connections or valve stem
- 2) Lid O-ring needs replacing
- 3) Low water level in pool

NOTE: If the recommendations in the trouble shooting portion of this manual do not solve your particular problem(s), please contact your local dealer for servicing.

Correct disposal of this product	
	<p>This symbol on the product, or in its packaging, indicates that this product may not be treated as household waste. Instead, it should be taken to the appropriate waste collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by the inappropriate waste handling of this product. For more detailed information about the recycling of this product, please contact your local council, your household waste disposal service, or the shop where you purchased the product.</p>



Code	Model	Power	Connection size	Input Power [HP] kW	Weight	Capacitance
9024801	ECW075	220-240V 50Hz	1½"/50 mm 2"/63mm	0.75HP 0.75kW	13.5Kg	14uF
9024802	ECW100	220-240V 50Hz	1½"/50 mm 2"/63mm	1.0HP 1.1kW	14.4Kg	25uF
9024803	ECW150	220-240V 50Hz	1½"/50 mm 2"/63mm	1.5HP 1.5kW	15.9Kg	25uF
9024804	ECW200	220-240V 50Hz	1½"/50 mm 2"/63mm	2.0HP 1.8kW	16.8Kg	30uF
9024805	ECW300	220-240V 50Hz	1½"/50 mm 2"/63mm	3.0HP 2.2kW	18.7Kg	35uF
9024810	ECW050	380-400V 50Hz	1½"/50 mm 2"/63mm	0.5HP 0.55kW	13.5Kg	/
9024811	ECW075	380-400V 50Hz	1½"/50 mm 2"/63mm	0.75HP 0.75kW	13.5Kg	/
9024806	ECW100	380-400V 50Hz	1½"/50 mm 2"/63mm	1.0HP 1.1kW	14.4Kg	/
9024807	ECW150	380-400V 50Hz	1½"/50 mm 2"/63mm	1.5HP 1.5kW	15.9Kg	/
9024808	ECW200	380-400V 50Hz	1½"/50 mm 2"/63mm	2.0HP 1.8kW	16.8Kg	/
9024809	ECW300	380-400V 50Hz	1½"/50 mm 2"/63mm	3.0HP 2.2kW	18.7Kg	/