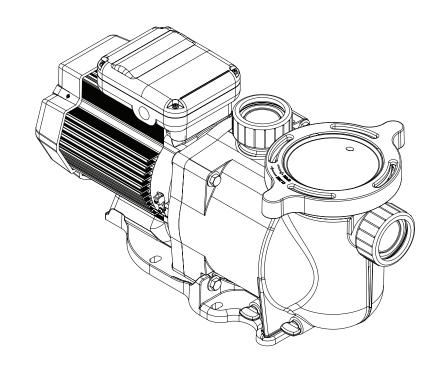


AQUATIC ECO-SYSTEMS®

TAURUS™ 110 ENERGY EFFICIENT AQUACULTURE PUMP



INSTALLATION AND USER'S GUIDE

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

SAVE THESE INSTRUCTIONS

CUSTOMER SERVICE / TECHNICAL SUPPORT

If you have questions about ordering Pentair Aquatic Eco-Systems replacement parts and products, please use the following contact information:

Customer Service

Monday to Thursday: 8 AM to 7 PM EST

Friday: 8 AM to 5 PM EST

US

Phone: (877) 347-4788 FAX: (407) 886-6787

International

Phone: (407) 886-3939 FAX: (407) 886-4884

Web site

Visit www.pentairaes.com

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IMPORTANT PUMP WARNING AND SAFETY INSTRUCTIONS



IMPORTANT NOTICE

This guide provides installation and operation instructions for this product. Consult Pentair with any questions regarding this equipment.

Attention Installer: This guide contains important information about the installation, operation and safe use of this product. This information should be given to the owner and/or operator of this equipment after installation or left on or near the pump. This pump is for use for aquaculture installations ONLY. Do not use with any type of swimming pool, hot tub, or spa.

Attention User: This manual contains important information that will help you in operating and maintaining this product. Please retain it for future reference. This pump is for use for aquaculture installations ONLY. Do not use with any type of swimming pool, hot tub, or spa. Warnings and safety instructions for Pentair Aquatic Eco-Systems pumps and other related products are available at:

http://www.pentairaes.com or call U.S. (877) 347-4788 • International (407) 886-3939 for additional free copies of these instructions.

READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS



This is the safety alert symbol. When you see this symbol on your system or in this manual, look for one of the following signal words and be alert to the potential for personal injury.



Warns about hazards that can cause death, serious personal injury, or major property damage if ignored.



Warns about hazards that may cause death, serious personal injury, or major property damage if ignored.



Warns about hazards that may or can cause minor personal injury or property damage if ignored.

NOTE

Indicates special instructions not related to hazards.

Carefully read and follow all safety instructions in this manual and on equipment. Keep safety labels in good condition; replace if missing or damaged.

When installing and using this electrical equipment, basic safety precautions should always be followed, include the following:

RISK OF ELECTRICAL SHOCK. Connect only to a branch circuit protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the circuit is protected by a GFCI.

This unit must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the pump without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this pump. Disconnect the pump and have the problem corrected by a qualified service representative before using.

General Warnings

- Never open the inside of the drive motor enclosure. There is a capacitor bank that holds a 230 VAC charge even when there is no power to the unit.
- The pump is not submersible.
- The pump is capable of high flow rates; use caution when installing and programming to limit pumps performance potential with old or questionable equipment.
- Code requirements for the electrical connection differ from country to country, state to state, as well as local municipalities. Install equipment in accordance with the current National Electrical Code and all applicable local codes and ordinances.
- Before servicing the pump; switch OFF power to the pump by disconnecting the main circuit to the pump.
- This appliance is not intended for use by persons (including children) of reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

A DANGER

FAILURE TO FOLLOW ALL INSTRUCTIONS AND WARNINGS CAN RESULT IN SERIOUS BODILY

INJURY OR DEATH. THIS PUMP SHOULD BE INSTALLED AND SERVICED ONLY BY A QUALIFIED SERVICE PROFESSIONAL. INSTALLERS, OPERATORS AND OWNERS MUST READ THESE WARNINGS AND ALL INSTRUCTIONS IN THE OWNER'S MANUAL BEFORE USING THIS PUMP. THESE WARNINGS AND THE OWNER'S MANUAL MUST BE LEFT WITH THE PRODUCT OWNER.

A DANGER

SUCTION ENTRAPMENT HAZARD: STAY OFF THE MAIN DRAIN AND AWAY FROM ALL SUCTION OUTLETS!











THIS PUMP PRODUCES HIGH LEVELS OF SUCTION AND CREATES A STRONG VACUUM AT THE MAIN DRAIN AT THE BOTTOM OF THE BODY OF WATER. THIS SUCTION IS SO STRONG THAT IT CAN TRAP ADULTS OR CHILDREN UNDER WATER IF THEY COME IN CLOSE PROXIMITY TO A DRAIN OR A LOOSE OR BROKEN DRAIN COVER OR GRATE.

A DANGER



RISK OF ELECTRICAL SHOCK OR ELECTROCUTION: PUMPS REQUIRE HIGH VOLTAGE WHICH CAN SHOCK, BURN, OR CAUSE DEATH. BEFORE WORKING ON PUMP! Always disconnect power to the pump at the circuit breaker from the pump before servicing the pump. Failure to do so could result in death or serious injury to service person, system users or others due to electric shock.

IMPORTANT PUMP WARNING AND SAFETY INSTRUCTIONS

NOTE: ALL SUCTION PLUMBING MUST BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL AND LOCAL CODES, STANDARDS AND GUIDELINES.

AWARNING

A clearly labeled emergency shut-off switch for the pump must be in an easily accessible, obvious place.

Make sure users know where it is and how to use it in case of emergency.

For Installation of Electrical Controls at Equipment Pad (ON/OFF Switches, Timers and Automation Load Center)





Install all electrical controls at equipment pad, such as on/off switches, timers, and control systems, etc. to allow the operation (startup, shut-down, or servicing) of any pump or filter so the user does not place any portion of his/her body over or near the pump strainer lid, filter lid or valve closures. This installation should allow the user enough space to stand clear of the filter and pump during system

start-up, shut down or servicing of the system filter.

ACAUTION

This pump has been evaluated for use with water only.



Before operation, be sure to completely rinse the pump volute with water.

Cord Connected Models Only

AWARNING

RISK OF ELECTRICAL SHOCK. This pump is supplied with a grounding conductor and grounding

type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle.

AWARNING

Pumps improperly sized or installed or used in applications other than for which the pump was

intended can result in severe personal injury or death. These risks may include but not be limited to electric shock, fire, flooding, suction entrapment or severe injury or property damage caused by a structural failure of the pump or other system component.

AWARNING

The pump can produce high levels of suction within the suction side of the plumbing system. These

high levels of suction can pose a risk if a person comes within the close proximity of the suction openings. A person can be seriously injured by this high level of vacuum or may become trapped and drown. It is absolutely critical that the suction plumbing be installed in accordance with the latest national and local codes for aquaculture systems.

A DANGER

HAZARDOUS PRESSURE: STAND CLEAR OF PUMP AND FILTER DURING START UP



Circulation systems operate under high pressure. When any part of the circulating system (i.e. locking ring, pump, filter, valves, etc.) is serviced, air can enter the system and become pressurized. Pressurized air can cause the pump housing cover, filter lid and valves to violently separate which can

result in severe personal injury or death. Filter tank lid and strainer cover must be properly secured to prevent violent separation. Stand clear of all circulation system equipment when turning on or starting up pump.

Before servicing equipment, make note of the filter pressure. Be sure that all controls are set to ensure the system cannot inadvertently start during service. Turn off all power to the pump. **IMPORTANT: Place filter manual air relief valve in the open position and wait for all pressure in the system to be relieved.**

Before starting the system, fully open the manual air relief valve and place all system valves in the "open" position to allow water to flow freely from the tank and back to the tank. Stand clear of all equipment and start the pump. IMPORTANT: Do not close filter manual air relief valve until all pressure has been discharged from the valve and a steady stream of water appears. Observe filter pressure gauge and be sure it is not higher than the pre-service condition.

General Installation Information

- All work must be performed by a qualified service professional, and must conform to all national, state, and local codes.
- Install to provide drainage of compartment for electrical components.
- These instructions contain information for a variety of pump models and therefore some instructions may not apply to a specific model. All models are intended for use in aquaculture applications. The pump will function correctly only if it is properly sized to the specific application and properly installed.

SAVE THESE INSTRUCTIONS

Warning Page P/N 352560 Rev. B 12/15

PUMP OVERVIEW

Pump Overview

The perfect choice for all varities of aquaculture systems, the Taurus[™] 110 Energy Efficient Aquaculture Pump was specifically designed to be your best choice for a variety of systems.

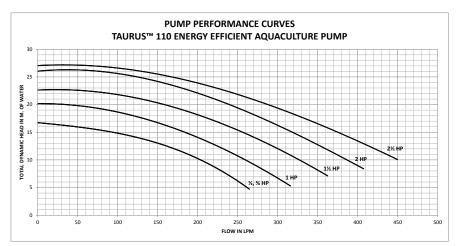
Thick walled body parts, a heavy duty 56 square flange motor, and highly engineered hydraulics make this rugged and tested design perfect for any application within the hydraulic limits of the pump.

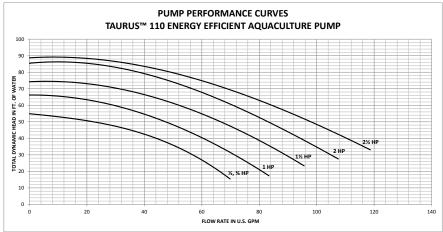
All pumps from Pentair Aquatic Eco-Systems incorporate innovative hydraulic engineering that has been refined for over 40 years. Compact, rugged, and easy to maintain, the Taurus 110 pump will deliver years of reliable service.

General Features

- · Extremely quiet operation
- Unionized fittings (1.5" and 2") for simple replacement
- Cam and Ramp[™] Lid for easy cleaning and maintenance
- Heavy-duty, high service factor 56 square flange motor for long life
- Integral volute and pot reduce hydraulic noise
- See-through lid permits easy inspection of strainer basket
- 115 VAC or 230 VAC models available
- 1/2 HP to 2 1/2 HP configurations to accommodate a wide range of applications
- Self-priming for quick, easy start-up
- UL/CUL Listed

Pump Performance Curves





ELECTRICAL WIRING INSTALLATION

AWARNING



RISK OF ELECTRICAL SHOCK OR ELECTROCUTION. This pump must be installed by a licensed or certified electrician or a qualified service professional in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard which could result in death or serious injury to users, installers, or others due to electrical shock, and may also cause damage to property.

Always disconnect power to the pump at the circuit breaker before servicing the pump. Failure to do so could result in death or serious injury to service people, aquaculture life or others due to electric shock and/or property damage. Read all servicing instructions before working on the pump.

Wiring

- 1. Be sure all electrical breakers and switches are turned off before wiring motor.
- 2. Be sure that the wiring voltage matches the motor voltage (230 VAC or 115 VAC). If they do not match, the motor can overheat.
- For wiring sizes and general guidelines for proper electrical installation, please follow the specifications defined in the current National Electric Code (NEC) and all current local codes as required. Be sure all electrical connections are clean and tight.
- 4. Cut wires to the appropriate length so they do not overlap or touch when connected to the terminal board.
- 5. Permanently ground the motor using the green ground terminal located on the inside of the motor canopy or access plate, see image. Use the correct wire size and type specified by the current National Electrical Code. Be sure the ground wire is connected to an electrical service ground.
- Bond the motor to the structure in accordance with the current National Electrical Code. UL requires use of a solid copper bonding conductor not smaller than 8 AWG.

Note: Connect the wire from the accessible wire connector on the motor to all metal parts structure and to all electrical equipment, metal conduit, and metal piping within 5 feet of inside walls of the structure. For Canada, a 6AWG or larger solid copper bonding conductor is required.

- 7. The pump should be permanently connected to either a circuit breaker, 2-pole timer or 2-pole relay. If AC power is supplied by a GFCI circuit breaker, use a dedicated circuit breaker that has no other electrical loads.
- 8. Connect the pump permanently to a circuit. Be sure no other lights or appliances are on the same circuit.

Note: When the pump is started and stopped by removing power with a relay or timer, a two-pole device should be used to apply and remove power to both POWER LINE TERMINALS.

MAINTENANCE



ACAUTION

DO NOT open the strainer pot if pump fails to prime or if pump has been operating without water in the strainer pot. Pumps operated in these circumstances may experience a build up of vapor pressure and may contain scalding hot water. Opening the pump may cause serious personal injury. In order to avoid the possibility of personal injury, make sure the suction and discharge valves are open and strainer pot temperature is cool to touch, then open with extreme caution.

To prevent damage to the pump and for proper operation of the system, clean pump strainer and system regularly.

Pump Strainer Basket

The pump strainer basket (or 'strainer pot', 'hair and lint pot'), is located in front of the volute. Inside the chamber is the basket which must be kept clean of leaves and debris at all times. View basket through the 'See Through Lid' to inspect for leaves and debris.

Regardless of the length of time between filter cleaning, it is most important to visually inspect the basket at least once a week. A dirty basket will reduce the efficiency of the filter and heater and also put an abnormal stress on the pump motor which would result in a costly repair bill.

Cleaning the Pump Strainer Basket

- 1. Switch off the pump at the circuit breaker.
- 2. Relieve pressure in the system and allow the water to cool.
- 3. Gently tap the clamp in a counter-clockwise direction to remove the clamp and lid.
- 4. Remove debris and rinse out the basket. Replace the basket if it is cracked.
- 5. Put the basket back into the housing. Be sure to align the notch in the bottom of the basket with the rib in the bottom of the volute.
- 6. Fill the pump pot and volute up to the inlet port with water.
- 7. Clean the cover, O-ring, and sealing surface of the pump pot.

Note: It is important to keep the lid O-ring clean and well lubricated.

- 8. Reinstall the lid by placing the lid on the pot. Be sure the lid O-ring is properly placed. Seat the clamp and lid on the pump then turn clockwise until the handles are horizontal.
- 9. Switch the power "ON" at the house circuit breaker. Reset the time clock to the correct time.
- 10. Open the manual air relief valve on top of the filter.
- 11. Stand clear of the filter. Start the pump.
- Bleed air from the filter until a steady stream of water comes out. Close the manual air relief valve.

AWARNING



THIS SYSTEM OPERATES UNDER HIGH PRESSURE. When any part of the circulating system (e.g., Lock Ring, Pump, Filter, Valves, etc.) is serviced, air can enter the system and become pressurized. Pressurized air can cause the lid to separate which can result in serious injury, death, or property damage. To avoid this potential hazard, follow above instructions.

Winterizing

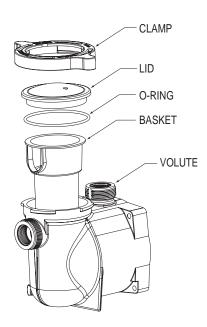
You are responsible for determining when freezing conditions may occur. If freezing conditions are expected, take the following steps to reduce the risk of freeze damage. *Freeze damage is not covered under warranty.*

To prevent freeze damage, follow the procedures below:

- Switch off electrical power for the pump at the circuit breaker.
- 2. Drain the water out of the pump housing by removing the two thumb-twist drain plugs from the housing. Store the plugs in the pump basket.
- Cover the motor to protect it from severe rain, snow and ice.

Note: Do not wrap motor with plastic or other air tight materials during winter storage. The motor may be covered during a storm, winter storage, etc., but never when operating or expecting operation.

In mild climate areas, when temporary freezing conditions may occur, run your filtering equipment all night to prevent freezing.



Strainer Pot Assembly

SERVICING

AWARNING

Always disconnect power to the pump at the circuit breaker and disconnect the communication cable before servicing the pump. Failure to do so could result in death or serious injury to service people, users or others due to electric shock. Read all servicing instructions before working on the pump.

AWARNING

DO NOT open the strainer pot if pump fails to prime or if pump has been operating without water in the strainer pot. Pumps operated in these circumstances may experience a build up of vapor pressure and may contain scalding hot water. Opening the pump may cause serious personal injury. In order to avoid the possibility of personal injury, make sure the suction and discharge valves are open and strainer pot temperature is cool to touch, then open with extreme caution.

ACAUTION

Be sure not to scratch or mar the polished shaft seal faces; seal will leak if faces are damaged. The polished and lapped faces of the seal could be damaged if not handled with care.

Care of Electric Motor

Protect from heat

- 1. Shade the motor from the sun.
- Any enclosure must be well ventilated to prevent overheating.
- 3. Provide ample cross ventilation.

Protect against dirt

- 1. Protect from any foreign matter or splashing water.
- Do not store (or spill) chemicals on or near the motor.
- 3. Protect from any foreign matter or splashing water.
- 4. Avoid sweeping or stirring up dust near the motor while it is operating.
- If a motor has been damaged by dirt it voids the motor warranty.
- 6. Clean the lid and clamp, O-ring, and sealing surface of the pump pot.

Protect against moisture

- 1. Protect from splashing or sprayed water.
- 2. Protect from extreme weather.
- 3. Protect from any foreign matter or splashing water.
- 4. If a motor has become wet let it dry before operating. Do not allow the pump to operate if it has been flooded.
- 5. If a motor has been damaged by water it voids the motor warranty.

Shaft Seal Replacement

The Shaft Seal consists primarily of two parts, a rotating member and a ceramic seal.

The pump requires little or no service other than reasonable care, however, a Shaft Seal may occasionally become damaged and must be replaced.

Note: The polished and lapped faces of the seal could be damaged if not handled with care.

Pump Disassembly

All moving parts are located in the rear sub-assembly of this pump.

Tools required:

- 1/4 inch socket with ratchet or flat blade screwdriver (motor cover, and diffuser screw)
- 1/4 inch hex key (motor shaft)
- 3/8 inch socket with ratchet or flat blade screw driver (Impeller screw)
- 9/16 inch open ended wrench (seal plate bolts and housing bolts)

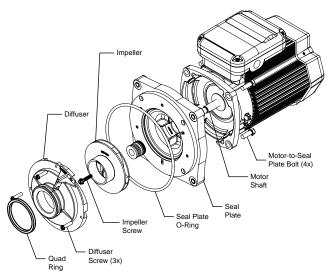
To remove and repair the motor subassembly, follow the steps below:

- 1. Turn off the pump circuit breaker at the main panel.
- 2. Drain the pump by removing the drain plugs. No tools required.
- 3. Remove the 4 bolts that hold the main pump body (strainer pot/volute) to the rear sub-assembly. Use a 9/16 inch open ended wrench.
- 4. GENTLY pull the two pump halves apart, removing the rear sub-assembly.
- 5. Remove the three hex head screws holding the diffuser in position. Use a 1/4in. socket with ratchet or flat blade screw driver.
- Hold the impeller securely in place and remove the impeller locking screw at the center of the impeller. The screw is a left handed thread and loosens in a clockwise direction. A 3/8 inch socket and ratchet or flat blade screwdriver will fit the impeller screw.
- 7. Use a 1/4 inch hex key to hold the motor shaft in through the rear of the motor. The motor shaft has a slot on the end which is accessible through the centre of the fan cover.

8. While holding the motor shaft, unscrew the impeller by hand form the motor shaft. Turn the impeller counter-clockwise when facing it to loosen.

Note: If the impeller is too tight leather gloves may be used to help loosen.

- Remove the spring portion of the mechanical seal. This may be pulled off the shaft by hand or a long screwdriver to pry the seal off. Be careful not to damage the rubber with the screwdriver.
- 10. Remove the four bolts from the seal plate using a 9/16 inch open ended wrench.
- 11. Place the seal plate face down on a flat surface and tap out the ceramic seal.
- Clean the seal plate, seal housing, and the motor shaft.



Motor Assembly



DO NOT run the pump dry. If the pump is run dry, the mechanical seal will be damaged and the pump will start leaking. If this occurs, the damaged seal must be replaced. ALWAYS maintain proper water level. If the water level falls below the suction port, the pump will draw air through the suction port, losing the prime and causing the pump to run dry, resulting in a damaged seal. Continued operation in this manner could cause a loss of pressure, resulting in damage to the pump case, impeller and seal and may cause property damage and personal injury.

Pump Reassembly

- 1. When installing the replacement seal into the seal plate, use soapy water to wet the rubber boot before pressing it into the seal plate.
- 2. Remount the seal plate to the motor.
- 3. Before installing the rotating portion of the seal on the motor shaft, wet the motor shaft with soapy water and slide the seal onto the motor shaft. Ensure that the carbon face contacts the ceramic face of the stationary seat. Press the seal into the seal plate with your thumbs and wipe off the ceramic with a clean cloth.
- Grease the motor shaft thread and screw impeller onto the motor shaft.
- 5. Screw in the impeller lock screw (counterclockwise to tighten).
- Remount the diffuser onto the seal plate. Make sure the plastic pins and holding screw inserts are aligned.
- Grease the diffuser quad ring and seal plate O-ring prior to reassembly.
- 8. Grease the bolt threads, assemble the motor subassembly to the strainer pot-pump body by using the two through bolts for proper alignment. Do not tighten the through bolts until all 4 bolts are in place and finger tightened.
- 9. Fill the pump with water.
- Reinstall the pump lid and plastic clamp; see the next section, 'Restart Instructions'.
- 11. Reprime the system.

Restart Instructions

If pump is installed below the water level of the system, close return and suction lines prior to opening hair and lint pot on pump. Make sure to re-open valves prior to operating.

Priming the Pump

The pump strainer pot must be filled with water before the pump is initially started.

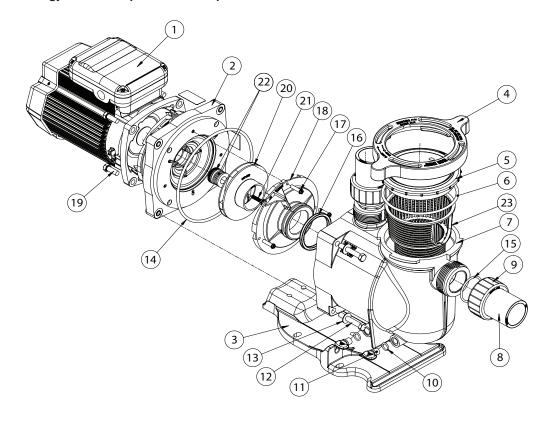
Follow these steps to prime the pump:

- 1. Remove the pump lid plastic clamp. Remove the pump lid.
- 2. Fill the pump strainer pot with water.
- 3. Reassemble the pump cover and plastic clamp onto the strainer pot. The pump is now ready to prime.
- 4. Open the air release valve on the filter, and stand clear of the filter.
- 5. Turn on the switch or time clock.
- When water comes out of the air release valve, close the valve. The system should now be free of air and recirculating water to and from the system.
- 7. For 2-speed pumps:
- Pump should run on high-speed for priming.
- The pump should not run longer than 8 minutes before priming is achieved.

TROUBLESHOOTING

Problem	Possible Cause	Corrective Action		
Pump failure	Pump will not prime - Air leak, too much air.	Check suction piping and valve glands on any suction gate valves. Secure lid on pump strainer pot and be sure lid gasket is in place. Check water level to be sure system is not drawing air.		
	Pump will not prime - Not enough water.	Be sure the suction lines, pump, strainer, and pump volute are full of water. Be sure valve on suction line is working and open (some systems do not have valves). Check water level to make sure water is available through suction feed line.		
	Pump stainer gasket is clogged.	Clean pump strainer pot.		
	Pump strainer gasket is defective.	Replace gasket.		
Reduced capacity and/ or head	Air pockets or leaks in suction line.	Check suction piping and valve glands on any suction gate valves. Secure lid on pump strainer pot and be sure lid gasket is in place. Check water level to be sure suction line is not drawing air.		
	Clogged impeller.	Turn off electrical power to the pump. Disassemble (see page 4, 'Pump Disassembly')		
		Clean debris from impeller. If debris cannot be removed, complete the following steps: 1. Remove left hand thread anti-spin bolt and o-ring. 2. Remove, clean, and reinstall impeller. Reassemble (see page 5, 'Pump Reassembly')		
	Pump strainer clogged.	Clean suction trap.		

TAURUS™110 Energy Efficient Aquaculture Pump



Item No.	Part No.	Description	Item No.	Part No.	Description
1	354822S	MOTOR ½, ¾ & 1HP — (Black)	18	355617	DIFFUSER - ½ HP
1	354824S	MOTOR 1½ HP — (Black)	18	355617	DIFFUSER - ¾ HP
1	354816S	MOTOR 2 HP — (Black)	18	355617	DIFFUSER - 1 HP
2	355612SS	SEAL PLATE	18	355618	DIFFUSER - 1½ HP
3	351094	BASE	18	355618	DIFFUSER - 2 HP
4	351090	CLAMP, RAMP & CAM	18	350170	DIFFUSER - 2½ HP
5	350091	LID	19	U30-74SS	HEX HEAD SCREW 3/8 - 16, 4 req.
6	357255	O-RING, LID #2-357	20	355043	IMPELLER ½ HP
7	351089	VOLUTE	20	355043	IMPELLER ¾ HP
8	350093	ADAPTER, 2 req.	20	355067	IMPELLER 1 HP
9	270141	NUT, 2 req.	20	355074	IMPELLER 1½ HP
10	192115	O-RING DRAIN PLUG, 2 req.	20	355086	IMPELLER 2 HP
11	357161	DRAIN PLUG, 2 req.	20	355093	IMPELLER 2½ HP
12	355621	SCREW ¾-16 X 2¼ HEX HD, 4 req.	21	355389	SCREW, IMPELLER LOCKING
13	72184	WASHER 3/8 in. S/S, 4 req.	22	353253S	SEAL SET
14	355619	O-RING SEAL BRACKET	23	355667	BASKET, LARGE
15	350099	O-RING ADAPTER #2-226, 2 req.	24	351157	UNION KIT (2 UNIONS, 2 ADAPTERS,
16	355030	SEAL DIFFUSER			2 O-RINGS PER KIT)
17	355334	SCREW #8-32 HEX WASHER HD, 3 req.			



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