NOTE! To the installer: Please make sure you provide this manual to the owner of the equipment or to the responsible party who maintains the system.
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1. The Delta Treatment Systems Model E50N has been tested by NSF International and conforms to NSF/ANSI 40 & 245, class 1 effluent requirements. All other E series models are certified based on provisions in the standard for certification of a series of plants of the same model varying only in rated treatment capacity and materials of construction.

2. State and/or local regulations govern the installation and use of individual Aerobic Wastewater Treatment Systems and must be complied with.

   Consult your local Sanitarian/Regulator Agency prior to installation.

---

**HOMEOWNER RECORDS**

S/N: ____________________________, DATE: ________________

INSTALLED BY: __________________________________________

DISTRIBUTOR: __________________________________________

---

This booklet provides operations, installation and warranty information on the **TREATMENT PLANT ONLY**. Other components manuals, such as dosing equipment or drip irrigation, require additional operations and carry separate warranties. Be sure that you have all of the correct manuals for each of the component pieces in your system. Contact your installer or call 1-800-219-9183.
ECOPOD-N® TREATMENT SYSTEMS NOTICE

This home is served by an Individual Wastewater Treatment System. This system will serve you well only if it is properly maintained. Your system comprises

Your system is located

You should not build or fill over this area, or allow heavy traffic. Do not allow water to stand over this area, avoid using strong chemicals, cleaning fluids, etc., which will kill helpful bacteria in the system. You should also avoid flushing grease, food scraps, cigarette butts, sanitary napkins, and other inorganic waste down the drain.

You should have your system serviced (pumped out) every 3 to 5 years. Your service technician can advise you if you need more frequent or additional service.

To have your system serviced, or for additional information, contact _________________ at ____________________.

All of the details regarding system operation can be found in your homeowner’s manual, which you should have received at installation. If you did not receive a copy, call 1-800-219-9183 and we will send you one at no charge.

Keep a Record of Service Below:

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INTRODUCTION

THE DELTA AEROBIC WASTEWATER TREATMENT SYSTEM AND HOW IT WORKS

The ECOPOD-N Fixed Film Wastewater Treatment System that you have purchased produces high quality water suitable for various disposal methods. It is installed to enhance your on-site wastewater disposal system.

All wastewater treatment systems of this type work by using bacteria that nature has provided. By pumping air into the system, the bacteria grow and thrive in much larger amounts than would occur naturally. The bacteria speeds up the process of breaking down domestic wastewater, making it safe for release into the environment.

The result of this process is a clear, odorless discharge, which meets or exceeds state water quality standards.

By following the few simple steps in this manual, the ECOPOD-N Fixed Film Wastewater Treatment System will provide years of service and the knowledge that you are doing your part to protect public health, our groundwater, lakes, rivers, and streams.

The ECOPOD-N Fixed Film Wastewater Treatment System may be only one of several components required by your health department to provide a complete on-site system.

PROCESS DESCRIPTION

Water enters a pretreatment/settling tank similar to conventional septic tanks. In this tank, debris and settleable solids settle to the bottom and are decomposed by anaerobic bacteria.

The effluent enters the ECOPOD-N Fixed Film Wastewater Treatment System from the primary tank where it is introduced into an oxygen rich environment. In this oxygen rich environment, a colony of bacteria, called the biomass, develops and is capable of digesting (breaking down) biodegradable waste into carbon dioxide and water. This is a continuous process as long as the biomass is supplied with incoming wastewater and oxygen. The ECOPOD-N is a specially designed containment device that houses an engineered plastic media specifically designed to treat domestic wastewater. The ECOPOD-N is submerged in a tank of liquid, which operates as a dilution zone. An external air compressor is connected to the tanks to provide the necessary air to the system. There are no moving mechanical parts or filters in the ECOPOD-N.

In this system, conditions are favorable to attached growth bacteria. Therefore the most common disadvantages of other types of systems are eliminated. No rising sludge, floating sludge or washouts can occur.

In addition to CBOD and TSS reduction, ammonia nitrogen is one of the contaminants. Wastewater nitrification of the ammonia and denitrification of nitrates occur within the bacteria masses. A 50% removal rate of total nitrogen is common without any type of recirculation or cycling of the blower.

HOMEOWNER CARE AND OPERATION INSTRUCTIONS

The ECOPOD-N Fixed Film Wastewater Treatment System has been designed and built to provide long term, reliable and efficient service.

Once the unit has been installed (see installation instructions), the unit will operate with a minimum amount of attention.

Please reference the system’s Data Plates that are located on the tank, air pump, and the alarm panel in the event that a problem arises or service is required.

The following should be accomplished as checks for system failure:

Daily
• Observe the warning device, which comes on when the power to the air pump has been interrupted, when the air supply system has malfunctioned, or there is a high water level in the treatment plant. If the alarm is activated, check for a blown fuse or thrown circuit breaker. Check the air pump to be sure it is operating. Once accustomed to the soft humming sound of a properly operating air-pump, any unusual noise is an indication of malfunction. If an unusual noise is detected or total failure is observed, call an authorized Delta service provider.

Weekly
• Check the treatment plant for offensive odor. If such a condition should develop, call an authorized Delta service provider.

Every 3 Months
• The air filter on the air pump should be cleaned. Rinse with warm water if necessary. (See installation instructions.) Do not use oil or other solvents.

Every 6 Months
• Inspect and make any necessary adjustments to mechanical and electrical components.
• Inspect effluent quality’s color, turbidity and check for any odor.
• If required, take a sample from the reactor tank to check the sludge level described in the “Solids Removal” section.
• The homeowner must be notified in writing if any improper operation is observed and cannot be corrected at the time of service.

The following should not be used or disposed of into the system:
• Greases, fats, oils, pesticides, herbicides, or any other toxins.
• Garbage disposal should be used sparingly. Dispose of food waste, grease, etc., in the solid waste bin. Food waste represents additional loading the Fixed Film Wastewater Treatment System would have to digest, increasing pump-out intervals.
• Paints, household chemicals, automobile fluids, etc. – do not discard mop water into the system.
• Nonbiodegradable items such as cigarette butts, disposable diapers, feminine hygiene products, condoms, hair, coffee grounds, rags, paper towels, bandages, latex, plastic or metallic objects, etc.
• Wash loads must be spread out over the week. Once a week multiple loads or half loads are not recommended.
• Citrus products, oranges, lemons, grapefruit, etc.
• Additives for septic systems – they do more harm than good.
• Hydraulic overload due to excessive water from other sources.
• Home brewery waste, strong medicines, antibiotics and
antibacterial soaps should be avoided.
- Strong disinfectants or bleaches. Laundry products such as Lysol, Pine-Sol, Tidy Bowl, or discharge from water softeners.
- **Recommended detergents are** liquid or powdered, low-sudsing, low phosphates and biodegradable washing soda ingredients such as Gain, Arm & Hammer, Fresh Start, and Dash Bright. Fabric softener dryer sheets are recommended.
- **Recommended cleaning products are** non-chlorine, biodegradable and nontoxic such as Ivory & Sunlight dish washing liquids, Cascade & Sunlight powdered dishwasher detergents, Comet & Biz powdered cleaners, baking soda.

**Systems Requiring Pumpouts Due to the Above Violations Are Not Covered by the Warranty.**

The ECOPOD-N Fixed Film Wastewater Treatment System is designed to handle domestic wastewater; nothing else should go into it. For anything other than domestic wastewater, contact Delta Treatment Systems.

**Safety Warnings**

The proper operation of this or any other home sewage system depends upon proper organic loading and the life of the microorganisms inside the system. Delta is not responsible for the in-field operation of a system, other than the mechanical and structural workings of the plant itself. Delta cannot control the amount of harsh chemicals or other harmful substances that may be discharged into the system by the occupants of a household; we can only provide a comprehensive owner’s manual that outlines substances that should be kept out of the system.

**Hydraulic Overloading (Flows in Excess of Design Flow) May Cause the Sewage Treatment System Not to Perform to the Fullest Capabilities.**

**Ants Have Been Shown to Be Destructive to the Air Pump. Regular Care Should Be Taken to Prevent Infestation of Ants Near the System. Damage or Destruction by Ants Is Not Covered Under Manufacturer’s Warranty.**

Your state or local health department may require other pieces of equipment to function separately or in conjunction with equipment manufactured by Delta Treatment Systems. Delta is not responsible for the mechanical or electrical safety of equipment it does not manufacture or supply with its wastewater treatment system. Particular care should be used in evaluating the electrical or mechanical safety of equipment manufactured by others. This may include but is not limited to electrical control panels or air pumps.

If electrical service has not been installed for checking air distribution system during installation, and if an extension cord is used to test the air pump, never leave the extension cord plugged in. Remove it after testing is completed.

Due to a possible fire hazard, do not plug into service equipment on power pole and do not use extension cords. All electrical work performed by the installer or others must be in accordance with the national electrical code and local codes.

**Solids Waste Removal**

The ECOPOD-N Fixed Film Wastewater Treatment System is designed to provide years of trouble-free operation.

Determination of the need for solid waste removal can be done through a simple test. A one quart sample should be pulled from the reactor tank and can be done so through the 4” sample port. Allow the sample to settle in a clear one quart jar for one hour. If the solids content exceeds 25 percent of the total volume after settling or more than 13 inches of sludge, then the treatment plant should be pumped out. Call your local authorized sewage disposal service to have the tank contents pumped out and disposed of properly.

The method of pumping out should be as follows:
- Remove all of the solid waste from both the reactor tank and primary tank.
- The air pump should be in the off position.

After the pumpout process is complete, fill the tank with fresh water to normal operating level.

Refer to the “Installation Procedure” to get the treatment plant back into operation.

Should indication of improper operation be observed at any time, contact your local authorized Delta dealer/distributor.

**Note: The Cost Associated With Pumping the Treatment System Is Not Covered Under Warranty and Is Not Included in the Service Policy.**

**Seasonal Use Guidelines of ECOPOD-N Fixed Film Wastewater Treatment System**

These guidelines are for conditions as outlined below and apply for systems that are not in use for periods of time indicated. Site conditions not covered by the following must be forwarded to Delta for recommended guidelines to meet the particular site conditions.

1. System not in use for more than one month and less than three months. Electrical power is left on and there are no frost conditions.
   - Leave air pump on and system running.
2. System not in use more than three months. Electrical power is turned off and there are not frost conditions.
   - Remove all solid and liquid waste from tank.
   - Refill with clean water.
   - Turn off air pump.
3. System not in use more than three months. Electrical power is on and there are no frost conditions.
   - Leave air pump on and system running; OR
   - Remove all solid and liquid waste from tank.
   - Refill with clean water.
   - Turn off air pump.
4. System not in use. Electrical power is turned off and there are frost conditions.
   - Remove all solid and liquid waste from tank.
   - Turn off air pump.
   - If high groundwater is present, fill with clean water.
   - If no groundwater is present, leave tank empty.

**⚠️ Under No Circumstances Should the Air Pump Be Turned Off for More Than a Few Days Without Removing Tank Contents.**
SAMPLING PROCEDURES
An ECOPOD-N Fixed Film Wastewater Treatment System properly operated and maintained should provide the following effluent quality of:

- Biochemical oxygen demand 5 day average (BOD$\textsubscript{5}$) of less than 30 mg/l (or ppm)
- Suspended solids of less than 30 mg/l (or ppm)
- Volatile suspended solids of less than 30 mg/l (or ppm)
- pH of 6.0 to 9.0
- Dissolved oxygen 1.5 to 3.0 mg/l (or ppm)

Taking Effluent Samples
Samples must be taken in the effluent discharge line or an effluent pump or after the disinfection device. We recommend allowing the effluent to flow through the discharge pipe for a minimum of 2 minutes before taking the sample. This will allow any solids to be flushed out that might have accumulated in the discharge pipe. Please find attached drawing of a sample port.

**SAMPLING SHOULD BE TAKEN BY A LOCAL CERTIFIED TESTING LABORATORY. THE FOLLOWING RECOMMENDED GUIDELINES MAY BE USED IF LOCAL PROCEDURES ARE NOT AVAILABLE.**

1. Biochemical Oxygen Demand (BOD)
   Samples for BOD analysis may degrade significantly during storage between collection and analysis, resulting in low BOD values. Minimize reduction of BOD by analyzing the sample promptly or by cooling it to near freezing temperature during storage. However, even at low temperature, keep the holding time to a minimum. Warm the chilled samples to 20°C before analysis; some storage time can be used to accomplish this conveniently.
   - **Grab Samples:** If analysis is begun within two hours of collection, cooling is unnecessary. If analysis is not started within two hours of sample collection, keep sample at or below 4°C from the time of collection. Begin analysis within six hours of collection; when this is not possible because the sampling site is distant from the laboratory, store at or below 4°C and report length and temperature of storage to the lab. In no case, start analysis more than 24 hours after grab sample collection. When samples are to be used for regulatory purposes, make every effort to deliver samples for analysis within six hours of collection.

2. Total Suspended Solids (TSS)
   Use resistant-glass or plastic bottles, provided that the material in suspension does not adhere to container walls. Begin analysis as soon as possible because of the impracticality of preserving the sample. Refrigerate sample at 4°C to minimize microbiological decomposition of solids.

3. Phosphorus
   If phosphorus forms are to be differentiated, filter samples immediately after collection. Preserve by freezing at or below −10°C. Add 40 mg/HgCl$\textsubscript{2}$/L to the samples, especially when they are to be stored for long periods. Do not add either acid or 2CHCl$\textsubscript{3}$ as a preservative when phosphorus forms are to be determined. If total phosphorus alone is to be determined, add 1 mL concentration HCL or freeze without any additions.
   Do not store samples containing low concentrations of phosphorus in plastic bottles unless kept in a frozen state because phosphates may be adsorbed onto the walls of plastic bottles.
   Rinse all glass containers with hot diluted HCL, then rinse several times in distilled water. Never use commercial detergents containing phosphate for cleaning glassware used in phosphate analysis.

4. Ammonia Nitrogen
   Most reliable results are obtained from fresh samples. Destroy residual chlorine immediately after sample collection to prevent its reaction with ammonia. If prompt analysis is impossible, preserve samples with 0.8 mL concentration H2SO4/L sample and store at 4°C. The pH of the acid-preserved samples should be between 1.5 and 2. Some wastewater may require more concentration H2SO4 to achieve this pH. If acid preservation is used, neutralize samples with NaOH or KOH immediately before making the determination.

INTRODUCTION
SAMPLE PROCEDURES:
(If Applicable)

1. PRIOR TO TAKING SAMPLE HAVE ECOPOD PLANT DISCHARGE EFFLUENT FOR UP TO 4 MINUTES BY FLUSHING TOILETS AND/OR USE GARDEN HOSE TO FLUSH OUT SAMPLE PORT.

2. INSERT SAMPLE COLLECTING BOTTLE TO COLLECT ONLY EFFLUENT THAT IS CASCADING OVER THE CASCADING EDGE.

3. HANDLE, STORE, AND TRANSPORT SAMPLES AS SPECIFIED BY POLICIES AND PROCEDURES PROVIDED BY THE TESTING LABORATORIES.
ONLY FOR USE BY CERTIFIED, LICENSED INSTALLERS

1. Care must be taken offloading and unpacking components. Care must be taken not to damage components with forklift or any other offloading device. Check for any damaged components that may have occurred in transportation and notify factory within 24 hours of delivery. Prepare an excavation, having a width approximately one foot larger than the tank and a depth that will allow approximately 3 inches of the inspection port to extend above normal ground level. Backfill with a 6 inch layer of sand or gravel if otherwise unable to provide a smooth, level, compact base. We recommend that the hole be roped off in some fashion to prevent injury to passersby.

2. Using lifting lugs provided, place the plant in the excavation so that the inlet and outlet line up with the sewer piping. The inlet line should slope down toward the plant and the outlet line should slope down away from the plant. The plant should be level within 1/2 inch, edge to edge.

3. Position inlet and outlet lines and make connections as necessary, depending upon construction materials. The inlet line should be inserted and glued into the inlet elbow and the discharge line should be inserted and glued into the outlet coupling.

4. Do not install the air pump(s) in a low lying area where water may accumulate. The air pump should be installed near the control panel and within 100 ft. of the tank. The air pump can be installed outdoors or in a clean, well ventilated area, such as a shed, garage, etc.

5. Mount the control panel in an area such that the alarm can be heard and be readily observed. A 3-wire grounded GFI circuit is required for safety. Install a disconnect switch near the panel to visually disconnect the control panel from the power source. All electrical work shall be done according to NEC and local code requirements. The control panel must be grounded. Connect the source ground wire to the ground location in the panel.

6. The control panel is rated for indoor and outdoor use and contains a fuse or circuit breaker for the air pump. An electrical malfunction in the air pump or wiring to the air pump will cause the fuse or circuit breaker to blow. The control panel also contains a pressure switch and visual and audible alarm. Loss of air pressure caused by air pump system malfunction or a high water level in the treatment plant will cause the alarm to sound and light to illuminate.

7. Attach control panel to suitable mounting surface using all four mounting holes on back of box. Use proper screws of sufficient length to ensure a secure and permanent mounting.

8. Control panel is rated for outdoor service; however, do not place it where it can be immersed in rising water or where runoff water such as from a roof will fall on it. Do not mount it where it is subject to wetting from sprinklers, hoses, etc.

9. The control panel must never be connected to a circuit that is not properly grounded. Never connect the unit to a nongrounded circuit. If there is doubt, have a qualified electrician check for proper grounding. The control panel must be connected to a 20 amp maximum electric source equipped with a ground fault interrupter (GFI) circuit breaker. A standard circuit breaker can be replaced with a GFI circuit breaker which can be obtained from almost any store that sells electrical supplies.

10. After the control panel is properly mounted, connect conduit and install wiring as shown on drawings bound herein.

11a. Install float switch wire from the control panel to the treatment plant. Wire can be direct burial type UF 600 volt or can be installed in schedule 40 PVC conduit. Use type THWN, 600 volt if installed in conduit. Wire must be buried in accordance with NEC table 300-5. If in doubt, bury 24” deep. Keep sufficient distance or depth from air line to avoid confusion of pipes or damage to wiring during installation or repair of air piping. Connect to the float switch normally open contacts using underground rated compound filled wire nuts.

11b. If using the dual pressure switch panel, ignore 11a. To set the high level pressure switch that detects high water level in the unit, follow these instructions: Bring plant to operating water level with compressor turned on. Using properly sized screwdriver, turn high level alarm adjustment screw clockwise until alarm occurs. Then turn the screw counterclockwise until alarm stops.

12. Connect the pressure air tubing to the 1/8” barb-fitting in the air piping system. The air tubing should be protected by conduit as shown on drawing.

13. Install a minimum 2” schedule 40 PVC piping between air pump and treatment unit. A minimum of 12” ground cover is recommended.

14. Turn power on to control panel. Air pump should start.

15. Check air piping joints for leakage using a soapy water solution. Repair if necessary and then carefully backfill air line and inlet and discharge piping and cover plant to grade level.

16. Recheck water level in the tank.

17. Plant is ready to receive incoming sewage. No special start-up procedures are required. The process is naturally occurring and does not require any special additives.

18. Test alarm circuit by momentarily squeezing air tubing and allowing air pressure to decrease. This should take a few minutes. Alarm should occur. Release air tubing and alarm should stop. Lift float in tank to horizontal position. Alarm should occur. Release float. Alarm should stop. The audible alarm can be turned off by flipping the toggle switch on the panel front door to the left.

19. Close cover on control panel and lock if necessary.

20. In the event that a fuse blows, replace with time delay or slow blow, 125 volt minimum voltage rating and the same amp rating as the existing fuse.

21. The distribution of air to all droippers must be uniform. If the air flow is not evenly distributed, check the air pump or the main air line.

22. Spend time with your customer whenever possible. Review operation instructions. Be sure that the customer has a manual to keep. This saves valuable time avoiding return visits.

23. Retain these instructions for future reference.

24. WARNING: CONTROL PANEL CONTAINS HIGH VOLTAGE AND MUST BE INSTALLED AND SERVICED ONLY BY QUALIFIED PERSONNEL.
INSTALLATION INSTRUCTIONS

1. Excavate and set the tank as recommended by the tank manufacturer. Be sure to follow proper backfill and compaction procedures.

2. Install riser as recommended by the manufacture.

3. Plumb in the air distribution system. Prime and solvent weld all connections. Bring 2 inch PVC line out of the tank and through side wall riser. Extend PVC piping from the riser to the compressor location. Connect compressor to the piping using clamps and tubing.

4. Plumb inlet and outlet piping on the tank. Tank inlet piping should extend more than 12 inches into the thank and terminate above of the Ecopod reactor box.

5. The outlet tee assembly should be solvent welded to the outlet pipe. Outlet tee assembly should extend six to twelve inches into the outlet side of the tank.

6. Assemble sampling port and vent after the outlet of the tank.
   - SOLVENT WELD ALL CONECTIONS.

7. CONTROLS AND AIR PUMP Mount control panel and install fittings, tubing and piping to tank location. See wiring schematics on pages 14-17.
   
   **CAUTION: Do not plug anything but the air pump into the control panel.**

8. Install inlet, outlet and air connections.

9. Backfill around the tank and fill tank with water until it drains out of outlet.

10. Turn the air pump on and check all air connections and piping for air tightness.

   **WARNING: Possible Fire Hazard**
   Do Not plug into main service equipment on power pole. Do Not use extension cords.

11. Final grading and backfill should be mounded above grade slightly to allow for settling. Tamp the backfill beneath the inlet, outlet and air piping to provide good support.
TROUBLE SHOOTING GUIDE

Air Supply Malfunction

1. Check to be sure air distribution is working properly. This will be evident in the reactor as the liquid will be forcefully agitated. A septic (rotten egg) odor could mean that the system is not getting enough air. If the air system is not working, partially working or working very little (slight bubbles), check the following:
   a. Check to be sure the air pump is working.
   • Check timer if one is used.
   • Bypass timer temporarily and connect directly to source.
   • Check the electrical source.
   • If electrical source is okay, check service guide on pump unit for troubleshooting information.
   • Wash air filter on pump.
   • Consult manufacturer for servicing information.
   b. Check to be sure tank is not severely out of level. Air follows a path of least resistance. The pressure differences can be enough to restrict air flow.
   c. Check for broken or cracked air lines both outside and inside the tank.
   d. Ants will destroy an air pump. Check to see if there is an ant nest around the air pump.
   e. Air pump should be protected from rising water.
   f. Always check to see if inlet and outlet lines are correctly installed.

Internal Assembly Malfunction

1. Primary treated wastewater from the primary tank should not enter directly into the dilution zone because of improperly installed or loose seals or gaskets where pipe goes through the tank wall. Check the size of holes to be sure that there is no clearance for matter to pass through the wall around the piping.
2. Check to be sure all internal piping and connections are tight.

Design Overload

1. The system could be hydraulically overloaded (there is too much water going through the system for the size of the system).
2. The system could be biologically overloaded (there is too much waste for the size of the system).

Improper Installation or Settling

1. You should follow the manufacturer’s installation procedures very carefully.
2. Where settling is common, approximately 2” of sand should be placed and tamped in the bottom of the hole.
3. Proper installation is the first step in preventing callbacks for service problems.
4. Whenever possible, it is important to spend time with the homeowner. Be sure they have an operations book. A few minutes invested in the beginning will avoid service calls later.

No Harsh Chemicals Should Be Put into the System

1. Water in the reactor tank should be relatively clear in both the reactor and dilution zones. Blue or gray/blue water indicates heavy use of detergents or other chemicals. If water appears sudsy there is too much detergent being used.
2. Water in the dilution zone should be clear. Water is discharged into the discharge tee at a minimum of 6–8 inches below water surface. You MAY NOT be able to see clear water by looking into the tank. Samples must be taken at the sample port.
3. Oils and grease should be kept to a minimum. Grease tends to form in white balls.

Troubleshooting Electrical System

1. Air pump does not run:
   a. Check main service for power.
   b. Check and/or replace fuse with same rating as in control panel.
2. Alarm does not occur when air pump is off:
   b. Malfunctioning light or buzzer – replace.
3. Alarm occurs continuously even when air pump is running:
   a. Air leak in main air system or air tubing to pressure switch – repair leak or replace air line.
   b. Malfunctioning pressure switch – replace.
   c. High water level in tank – inspect for cause.
   d. Short in float switch wire or float switches – repair or replace.

NOTE: ALL REPLACEMENT PARTS ARE AVAILABLE FROM YOUR LOCAL DISTRIBUTOR.

CAUTION: ELECTRICAL SHOCK OR HAZARD MAY OCCUR IF UNIT IS NOT SERVICED PROPERLY. THE MANUFACTURER RECOMMENDS THAT A LICENSED ELECTRICIAN BE CALLED WHEN ELECTRICAL PROBLEMS OCCUR.

COMPONENT REPLACEMENT PROCEDURE

1. Air Pump – Follow the same procedure as outlined in the “Installation Instructions.”
2. Float Switch – Remove Treatment Plant’s Riser or 24” cover. Locate float switch cable. Untie knot. Cut float switch cable. Slip float switch cable through rubber grommet into the plant. Replace with exact replacement float switch. Reinstall by reversing the procedure. Reconnect float switch wires using underground rated compound filled wire nuts. See Float Switch Mounting Details. (Applicable only with float switch option.)
3. Pressure Switch – Turn all power off to the control panel. Remove screws securing pressure switch as well as connectors and tubing. Reverse procedure to install new pressure switch.
4. Buzzer – Turn all power off to the control panel. Remove screw attaching buzzer to back plate as well as connectors. Reverse procedure to install new buzzer.
5. Lamp Holder – Turn all power off to control panel. Remove lock nut securing lamp holder to door as well as connectors. Remove lamp holder. Install new lamp holder with gaskets furnished. Continue with reverse procedure.
6. Lamp – Turn all power off to control panel. Remove red lamp cover from front of control panel. Remove and replace lamp, which is a push-in type. Replace lamp cover and cover gasket.
7. Fuse – Turn all power off to control panel. Pull top of fuse holder outward. Remove and replace fuse. Push fuse back into place.
8. Buzzer Switch – Turn all power off to control panel. Remove rubber boot on switch. Remove hex nut from switch on panel front as well as connectors on switch. Reverse procedure to install new switch.
TROUBLE SHOOTING GUIDE

GENERAL COMMENTS
1. Only factory approved equipment can be used for replacement on individual treatment systems.
2. If the decision is made to pump out a system, be sure to contact a licensed waste hauler.
3. If a chronic problem develops and all items have been checked, consult with the factory.
4. Taking pictures of systems when troubleshooting will help document activity in the field.
5. Keep good records.

NOTE: IF THE ENTIRE COVER NEEDS TO BE REMOVED ON ANY ONE OF THE VARIOUS MODEL TREATMENT PLANTS, THE EXISTING SILICONE OR STRIP SEAL MUST BE REMOVED AND REPLACED WITH A NEW ONE. THIS WILL PROVIDE A POSITIVE SEAL WHICH WILL NOT ALLOW ANY INFILTRATION INTO OR OUT OF THE TREATMENT PLANT.

SPECIFICATIONS

ECOPOD-N Unit Specifications

<table>
<thead>
<tr>
<th>Treatment Plant</th>
<th>Treatment Capacity (GPD)</th>
<th>Minimum Primary Tank Total Volume (Gal)</th>
<th>Reactor Tank Volume (Gal)</th>
<th>Reactor Tank Dilution Volume (Gal)</th>
<th>Media Size</th>
<th>Air Requirements</th>
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<td>500</td>
<td>500</td>
<td>710</td>
<td>590</td>
<td>2’x2’x4’</td>
<td>12 CFM</td>
</tr>
<tr>
<td>E60N</td>
<td>600</td>
<td>600</td>
<td>916</td>
<td>736</td>
<td>2’x2’x6’</td>
<td>14.4 CFM</td>
</tr>
<tr>
<td>E75N</td>
<td>750</td>
<td>750</td>
<td>1090</td>
<td>910</td>
<td>2’x2’x6’</td>
<td>18 CFM</td>
</tr>
<tr>
<td>E100N</td>
<td>1000</td>
<td>1000</td>
<td>1405</td>
<td>1165</td>
<td>2’x2’x8’</td>
<td>24 CFM</td>
</tr>
<tr>
<td>E150N</td>
<td>1500</td>
<td>1500</td>
<td>2100</td>
<td>1740</td>
<td>2’x2’x6’</td>
<td>36 CFM</td>
</tr>
</tbody>
</table>

MATERIALS OF CONSTRUCTION

Suffix FF
- Reactor Tank: Fiberglass
- Cover: Fiberglass
- Media Container: Polyethylene

Suffix CA
- Reactor Tank: Concrete
- Cover: Concrete
- Media Container: Polyethylene

Suffix IM
- Reactor Tank: Polypropylene
- Cover: Polypropylene
- Media Container: Polyethylene

These are standard production units. Other configurations are available upon request.

ECOPOD-N Electrical Requirements

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>Motor Full Load Amps</th>
<th>Measured Operating Watts</th>
<th>Electrical Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>E50N</td>
<td>Delta Model 06</td>
<td>3.5</td>
<td>185</td>
<td>115 volt – single phase</td>
</tr>
<tr>
<td>E60N</td>
<td>Delta Model 06</td>
<td>4.7</td>
<td>280</td>
<td>115 volt – single phase</td>
</tr>
<tr>
<td>E75N</td>
<td>Delta Model 06</td>
<td>4.7</td>
<td>280</td>
<td>115 volt – single phase</td>
</tr>
<tr>
<td>E100N</td>
<td>Delta Model K03</td>
<td>7.1</td>
<td>475</td>
<td>115 volt – single phase</td>
</tr>
<tr>
<td>E150N</td>
<td>Delta Model K03</td>
<td>7.1</td>
<td>475</td>
<td>115 volt – single phase</td>
</tr>
</tbody>
</table>
ECOPOD-N Dimensions

<table>
<thead>
<tr>
<th>Treatment Plant</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>E50N</td>
<td>47”</td>
<td>44”</td>
<td>54.7”</td>
<td>127”</td>
</tr>
<tr>
<td>E60N</td>
<td>47”</td>
<td>44”</td>
<td>54.7”</td>
<td>127”</td>
</tr>
<tr>
<td>E75N</td>
<td>47”</td>
<td>44”</td>
<td>54.7”</td>
<td>127”</td>
</tr>
<tr>
<td>E100N</td>
<td>47”</td>
<td>44”</td>
<td>55”</td>
<td>176”</td>
</tr>
<tr>
<td>E150N</td>
<td>47”</td>
<td>44”</td>
<td>55”</td>
<td>176”</td>
</tr>
</tbody>
</table>

[Diagram of ECOPOD-N Dimensions with annotations for A, B, C, and D dimensions.]
SETTING HIGH LEVEL PRESSURE SWITCH

- Bring plant to operating level with compressor turned on.
- Using properly sized screwdriver, turn high level alarm adjustment screw clockwise until alarm occurs, then turn the screw counterclockwise until alarm stops.
**CP2210/Econo/FQ/UL Control Panel**

- **Max Full Load Amps:** 8
- **Volts:** 120
- **Phase/Hertz:** 1/60
- **Type 4X Enclosure

**External Disconnect and Branch Circuit Connection**

**External Wiring**

**Schematic Diagram**

**Fuse Selection Chart**

<table>
<thead>
<tr>
<th>Motor Full Load Current</th>
<th>Typical Time Delay</th>
<th>Fuse Size Required</th>
<th>CRT Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-4 Amps</td>
<td>5 Amps</td>
<td>AE845-4180</td>
<td></td>
</tr>
<tr>
<td>4-8 Amps</td>
<td>10 Amps</td>
<td>AE845-4184</td>
<td></td>
</tr>
<tr>
<td>8-12 Amps</td>
<td>15 Amps</td>
<td>AE845-4187</td>
<td></td>
</tr>
<tr>
<td>12-16 Amps</td>
<td>20 Amps</td>
<td>AE845-4188</td>
<td></td>
</tr>
</tbody>
</table>

**Setting High Level Pressure Switch**

- Bring plant to operating water level with compressor turned on.
- Using properly sized screwdriver, turn high level alarm adjustment.
- Screw clockwise until alarm occurs, then turn the screw counterclockwise until alarm stops.

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**Revision Description**

- **Rev:** D
- **Date:** ACP2210 10/03/07
- **Sheet:** NTS ACP2210 10/03/07
- **Drawn By:** 11D WRIGHT

---

Delta Treatment Systems • 9125 Comar Drive, Walker, LA 70785 • 1-800-219-9183 • www.deltatreatment.com • info@deltatreatment.com
CP2220 ECO/FG/UL CONTROL PANEL
MAX FULL LOAD AMPS - 8
VOLTS - 120
PHASE/Hz - 1/60
TYPE 4X ENCLOSURE

SCHEMATIC DIAGRAM
CP2220 ECO/FG/UL

SHORT CIRCUIT RATING: 5KA

HIGH LEVEL ALARM ADJUSTMENT SCREW

SETTING HIGH LEVEL PRESSURE SWITCH
- BRING PLANT TO OPERATING WATER LEVEL WITH COMPRESSOR TURNED ON.
- USING PROPERLY SIZED SCREWDRIVER, TURN HIGH LEVEL ALARM ADJUSTMENT.
- SCREW CLOCKWISE UNTIL ALARM OCCURS, THEN TURN THE SCREW COUNTERCLOCKWISE UNTIL ALARM STOPS.

* FS1 - H.L. FLOAT SWITCH IN TREATMENT PLANT
- A SEPARATE DISCONNECT IS REQUIRED.
CP220 SCHEMATIC

*FUSE SIZE VARIES WITH COMPRESSOR SIZE PER NATIONAL ELECTRICAL CODE

FUSE SIZE VARIES WITH COMPRESSOR SIZE PER NATIONAL ELECTRICAL CODE

INFORMATION CONTAINED HEREIN IS CONFIDENTIAL, SOLELY FOR THE PURPOSE PROVIDED, AND IT IS NOT TO BE DISCLOSED TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF DELTA TREATMENT SYSTEMS.
FLOAT SWITCH MOUNTING TO USE WITH CP20 PANEL

NOTES:

1. GROMMET TO BE SELECTED FOR TIGHT FIT AROUND CABLE AND IN LID.
2. WIRE TO CONTROL PANEL TO BE 18 GAUGE AND RATED FOR DIRECT BURIAL SERVICE. WOODS WIRE-886 OR EQUAL.
3. WIRE NUTS TO BE RATED FOR UNDERGROUND SERVICE IDEAL-DB PLUS MODEL 60 OR EQUAL.
4. FLOAT SWITCH TO BE NORMALLY OPEN MDI-2900-B8S13B OR EQUAL.
5. SMALL ACCESS PORT SHOWN ON DRAWING; LARGE ACCESS PORTS MAY BE SUPPLIED.
6. MINIMUM AMOUNT OF CONDUIT SHOWN AE TYPE UF CABLE.

* HIGH LEVEL FLOAT NOT REQUIRED WHEN USING CP22 SERIES CONTROL PANELS
**To allow the perfect performing of the machine, it has to be equipped with the INLET FILTER and the SECURITY VALVE AT LEAST; other accessories available on request.**

1. Installed power.
2. Maximum differential pressure referred to installed motor.
3. Inlet flow at max differential pressure per installed motor.

The characteristics data given, refer to the handling of gas with inlet temperature of 15°C, normal density of 1.23 kg/m³, and absolute pressure of 1013 mbar in suction in case of performing as compressor, in discharge in case of performing as exhauster. Dimensions in mm. Noise level measured at 1 m distance with inlet ducts piped. Tolerance on given values ±10% - unbinding and can be changed without prior notice.

---

### LATERAL CHANNEL BLOWERS - EXHAUSTERS

**SCL 06 MOR**

#### COMPRESSOR

<table>
<thead>
<tr>
<th>P (1)</th>
<th>Δp (2)</th>
<th>Q (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW</td>
<td>mbar</td>
<td>psig</td>
</tr>
<tr>
<td>A</td>
<td>50 Hz - 2900 rpm</td>
<td>0.2</td>
</tr>
<tr>
<td>B</td>
<td>60 Hz - 3500 rpm</td>
<td>0.23</td>
</tr>
</tbody>
</table>

#### EXHAUSTER

<table>
<thead>
<tr>
<th>kW</th>
<th>H</th>
<th>m</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>50 Hz - 2900 rpm</td>
<td>0.2</td>
</tr>
<tr>
<td>B</td>
<td>60 Hz - 3500 rpm</td>
<td>0.23</td>
</tr>
</tbody>
</table>

---

**MAXIMUM NOISE LEVEL**

<table>
<thead>
<tr>
<th>50 Hz - 2900 rpm</th>
<th>60 Hz - 3500 rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lp</td>
<td>dB(A)</td>
</tr>
<tr>
<td>58</td>
<td></td>
</tr>
<tr>
<td>59</td>
<td></td>
</tr>
</tbody>
</table>
**TECHNICAL CHARACTERISTICS**
- Aluminum alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - cURus motor

**OPTIONS**
- Special voltages (IEC 38)
- Surface treatments

**ACCESSORIES**
- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors

---

### REGENERATIVE BLOWERS - PRESSURE
**SCL K03 / K04 / K05 / K06**
**MS SERIES - MOR RANGE**

**Dimensions in inches.**

Possible alternative positions, please refer to drw SI 1839

---

**Model** | **a** | **b** | **c** | **d** | **e** | **f** | **G** | **l** | **m** | **n** | **o** | **p1** | **q** | **r** | **s** | **t** | **u** | **z**
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---
K03-MS | 9.49 | 10.55 | 5.79 | 1.69 | 9.06 | 8.07 | 1"1/4 NPT | 3.39 | 0.39 | 3.27 | 5.59 | 8.07 | 0.71 | 2.95 | 0.16 | M6 | 5.51 | 0.47
K04-MS | 11.22 | 12.40 | 6.77 | 1.93 | 10.04 | 8.86 | 1"1/2 NPT | 4.02 | 0.47 | 3.74 | 6.73 | 8.74 | 0.71 | 2.76 | 0.16 | M6 | 6.89 | 0.71
K05-MS | 12.87 | 14.37 | 7.87 | 2.13 | 12.60 | 10.24 | 2" NPT | 4.72 | 0.59 | 4.53 | 10.43 | 12.60 | 0.71 | 3.86 | 0.16 | M8 | 7.87 | 0.75
K06-MS | 14.80 | 15.47 | 8.07 | 2.13 | 12.80 | 11.42 | 2" NPT | 4.92 | 0.59 | 5.51 | 10.71 | 13.15 | 0.71 | 3.35 | 0.16 | M8 | 9.45 | 0.75

---

**Model** | **Maximum flow Scfm** | **Installed power Hp** | **Maximum differential pressure \(\Delta p (\text{ln WG})\)** | **Noise level \(L_p\text{ dB (A)}\)** (1) | **Overall dimensions** | **Weight**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>60 Hz</strong></td>
<td><strong>3500 rpm</strong></td>
<td><strong>50 Hz</strong></td>
<td><strong>2900 rpm</strong></td>
<td><strong>60 Hz</strong></td>
<td><strong>3500 rpm</strong></td>
<td><strong>50 Hz</strong></td>
</tr>
</tbody>
</table>
K03-MS | 52 | 43 | 3/4 | 3/4 | 64 | 60 | 62.0 | 60.0 | 10.43 | 24.30
K04-MS | 98 | 81 | 1 1/2 | 1 1/2 | 58 | 80 | 64.8 | 62.8 | 11.65 | 36.40
K05-MS | 156 | 129 | 2 | 2 | 85 | 100 | 65.0 | 63.0 | 13.78 | 43.00
K06-MS | 216 | 179 | 3 | 3 | 120 | - | 65.2 | - | 13.78 | 49.60

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.
(2) No cURus motor

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- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.
Curves refer to air at 68°F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.
ECOPD-N SERIES DATA PLATES

THE ECOPOD N SERIES™
Model E
NSF/ANSI STDS 40 & 245
GPD CLASS 1
Serial No.

ALARM MALFUNCTION ELECTRICAL PANEL
THE ECOPOD N SERIES™
Model E
NSF/ANSI STDS 40 & 245
GPD CLASS 1
Serial No.
DELTA TREATMENT SYSTEMS
INDIVIDUAL MECHANICAL WASTEWATER TREATMENT SYSTEM
SERVICE POLICY

INITIAL POLICY:
A two-year initial service policy shall be furnished to the user by the manufacturer or the distributor through the dealer. This policy may be included in the price of the system, provided the state in which the system is being installed has adapted NSF Policies as part of their state rules.

1. **An inspection/service call every six months**, which includes inspection, adjustment, and servicing of the mechanical and electrical component parts as necessary to ensure proper function.

2. **An effluent quality inspection every six months consisting of a visual check for color, turbidity, scum overflow, and an examination for odors.**

3. If any improper operation is observed that cannot be corrected at that time, the user shall be notified immediately in writing of the conditions and the estimated date of correction. **THIS POLICY DOES NOT INCLUDE PUMPING SLUDGE FROM UNIT IF DEEMED NECESSARY.**

CONTINUING SERVICE POLICY:
An annually renewable service policy affording the same coverage as the Initial Service Policy is available. Consult your dealer for pricing information. The annually renewable service policy should provide the same service checks as the initial NSF service policy and should be performed twice per year.

PARTS:
Replacement parts or components may be obtained from your local distributor or contact Delta Treatment Systems for information.

COMPLAINTS:
In order for Delta Treatment Systems to properly address complaints, we require that you put in writing the date and nature of the complaint as detailed as possible. This MUST include the serial number of your system.

Send to: Delta Treatment Systems
9125 Comar Drive
Walker, LA 70785
DELTA TREATMENT SYSTEMS, LLC (“DELTA”)  
DELTA TWO (2) YEAR Ecopod® SERIES MATERIALS AND WORKMANSHIP LIMITED WARRANTY

(a) This limited warranty is extended to the end user of a Delta Ecopod® Series Advanced Wastewater Treatment Product (the “Ecopod® Product”). An Ecopod® Product manufactured by Delta, when installed and operated in accordance with Delta’s installation instructions and local regulation by a licensed installer, is warranted to you: (i) against defective materials and workmanship for two (2) years after installation. Delta will, at its option, (i) repair the defective product or (ii) replace the defective materials. This Warranty does not cover any damage caused by flooding, abuse, unauthorized disassembly, improper wiring or overload protection. This Warrant does not cover any of the house wiring, plumbing, drainage or disposal systems.

(b) In order to exercise your warranty rights, you must notify Delta in writing at its corporate headquarters in Walker, Louisiana within fifteen (15) days of the alleged defect. Delta reserves the right to inspect the item to confirm that it is defective.

(c) YOUR EXCLUSIVE REMEDY WITH RESPECT TO ANY AND ALL LOSSES OR DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER SHALL BE SPECIFIED IN SUBPARAGRAPH (a) ABOVE. DELTA SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND, HOWEVER OCCASIONED, WHETHER BY NEGLIGENCE OR OTHERWISE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

(d) THIS LIMITED WARRANTY IS THE EXCLUSIVE WARRANTY GIVEN BY DELTA AND SUPERSEDES ANY PRIOR, CONTRARY, ADDITIONAL, OR SUBSEQUENT REPRESENTATIONS, WHETHER ORAL OR WRITTEN. DELTA DISCLAIMS AND EXCLUDES TO THE GREATEST EXTENT ALLOWED BY LAW ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FINESSE FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. NO PERSON INCLUDING ANY EMPLOYEE, AGENT, DEALER, OR REPRESENTATIVE IS AUTHORIZED TO MAKE ANY REPRESENTATION OR WARRANTY CONCERNING THIS PRODUCT, EXCEPT TO REFER YOU TO THIS LIMITED WARRANTY. EXCEPT AS EXPRESSLY SET FORTH HEREIN, THIS WARRANTY IS NOT A WARRANTY OF FUTURE PERFORMANCE, BUT ONLY A WARRANTY TO REPAIR OR REPLACE DEFECTIVE COMPONENTS.

(e) YOU MAY ASSIGN THIS LIMITED WARRANTY TO A SUBSEQUENT PURCHASER OF YOUR HOME.

(f) NO REPRESENTATIVE OF DELTA HAS THE AUTHORITY TO CHANGE THIS LIMITED WARRANTY IN ANY MANNER WHATSOEVER, OR TO EXTEND THIS LIMITED WARRANTY BEYOND THE STATED TWO (2) YEAR TERM.

(g) NO WARRANTY OF ANY KIND IS MADE WITH REGARD TO ANY PRODUCT, COMPONENTS, DEVICES, MEDIA OR TREATMENT UNITS WHICH ARE MANUFACTURED BY OTHERS AND ARE INSTALLED IN CONNECTION WITH THE ECOPOD® PRODUCT. USE OF THESE PRODUCTS ARE AT YOUR OWN RISK.