AquaKlear

WASTEWATER TREATMENT SYSTEMS

INSTALLATION, OPERATION & MAINTENANCE & TROUBLE SHOOTING & REPAIR MANUAL CLASS I MODELS AKA

COMMERCIAL & RESIDENTIAL WASTEWATER TREATMENT SYSTEMS

AQUAKLEAR, INC.
876 N. BIERDEMAN ROAD
PEARL, MS 39208
(877) 936-7711
PRODUCT DESCRIPTION

The "AquaKlear" Wastewater Treatment system is an economical alternative for use in treating domestic wastewater generated by normal household activities. The system consists of a single tank extended aeration activated sludge system which is capable of producing a clear odorless effluent which meets applicable state discharge standards. This system has been successfully tested and listed by GCT, LLC in accordance with NSF/ANSI Standard 40.

Raw wastewater flows into the aeration zone of the extended aeration system. Here, the oxygen supplied by the aeration system, along with the organic matter in the waste stream, creates an ideal environment for the growth of aerobic microorganisms. These organisms convert the waste organic materials into gases and additional micro-organism cell material. In addition to supplying oxygen, the aeration system keeps the contents of the aeration zone well mixed to provide optimum exposure to the micro-organisms to the waste material. The action of the beneficial micro-organisms also result in a significant reduction in pathogenic bacteria.

After approximately 24 hours of detection in the aeration zone, the mixture enters the clarifier where quiescent conditions enable separation of the micro-organisms which are returned to the aeration zone and discharge of clear treated wastewater through the launder assembly. At the surface of the clarifier there is a skimmer which removes any floating solids and returns them to the aeration zone automatically, while not disturbing the quiescent conditions of the clarifier. Effluent may be discharged to an accepted discharge point that is in compliance with all state and local laws and regulations.

The "AquaKlear" Wastewater Treatment System exceeds all effluent water quality requirements for Class 1 designation (25 mg/L CBOD5 and 30 mg/L TSS) as set forth by NSF/ANSI Standard 40. The six month daily average for the Aqua Klear, Inc. system is 7 mg/L CBOD5 and 7 mg/L TSS.
### Model Numbers

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AKA500C</td>
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<tr>
<td>AKA500CC</td>
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<tr>
<td>AKA500FF</td>
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<tr>
<td>AKA500C3P</td>
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<tr>
<td>AKA5B2</td>
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<td>AKA5B3</td>
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<td>AKA600C</td>
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<td>AKA600CC</td>
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<td>AKA600FF</td>
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<td>AKA6B3</td>
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<td>AKA6PT</td>
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<td>AKA750C</td>
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<td>AKA750FF</td>
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<td>AKA800CA</td>
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<tr>
<td>AKA1500CA</td>
<td></td>
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<tr>
<td>AKA1500FF</td>
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</tbody>
</table>

**Note:** suffix C denotes Concrete  
suffix F denotes Fiberglass  
suffix FF denotes Fiberglass Flattop  
suffix P denotes Trash or Pump Tank  
suffix CC denotes Concrete with attached Chlorinator  
suffix FC denotes Fiberglass with attached Chlorinator  
suffix C3P denotes Concrete with 300 gal attached pretreatment  
suffix F3P denotes Fiberglass with 300 gal attached pretreatment  
suffix FP5 denotes Fiberglass with 500 gal pump tank
### SYSTEM PARTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DRAWING REFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Tank (with Access Cover)</td>
<td>A</td>
</tr>
<tr>
<td>Air Diffuser</td>
<td>B</td>
</tr>
<tr>
<td>4&quot; PVC Inspection Part</td>
<td>C</td>
</tr>
<tr>
<td>Grommets (3)</td>
<td>Not Shown</td>
</tr>
<tr>
<td>4&quot; PVC Effluent Outlet Assembly</td>
<td>D</td>
</tr>
<tr>
<td>Air Pump and Warning Device</td>
<td>Not Shown</td>
</tr>
<tr>
<td>Air Lift Pump and Skimmer Assembly</td>
<td>E</td>
</tr>
</tbody>
</table>

### NOTES

- PVC influent and effluent lines furnished by installer
- MODELS AKA500, AKA600, AKA750, AKA800 AKA1000, AKA1500 are furnished with one clean cut adaptor and one threaded plug, which require a special tool to remove.
- Includes control box with warning device.
- A data plate with model number, treatment capacity, serial number and manufacturers' address, and phone number is installed on the front cover of the control box and on the top of the Access Port Cap. (Less serial # on port)

The warning device is located in the control box. The warning device is also directly wired to the float switch or a mechanical air dump device, which serves as a high water alarm. A high water condition is indicated by an audible and visual alarm.
### Specifications - Models AKA500, AKA600, AKA750, AKA800, AKA1000, AKA1500

<table>
<thead>
<tr>
<th>Designation</th>
<th>AquaKlear Wastwater Treatment System Model AKA500, AKA600, AKA750, AKA800, AKA1000, AKA1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment Capacity/Class</td>
<td>500, 600, 750, 800, 1000, 1500, GPD/Class 1</td>
</tr>
<tr>
<td>Volumetric Capacity</td>
<td>Model AKA500 520 Gal. Aeration Chamber, 188 Gal. Classification Chamber</td>
</tr>
<tr>
<td></td>
<td>Model AKA600 633 Gal. Aeration Chamber, 220 Gal. Clarification Chamber</td>
</tr>
<tr>
<td></td>
<td>Model AKA750 806 Gal. Aeration Chamber, 285 Gal. Clarification Chamber</td>
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<tr>
<td></td>
<td>Model AKA800 794 Gal. Aeration Chamber, 297 Gal. Clarification Chamber</td>
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<td></td>
<td>Model AKA1000 987 Gal. Aeration Chamber, 339 Gal. Clarification Chamber</td>
</tr>
<tr>
<td></td>
<td>Model AKA1500 1439 Gal. Aeration Chamber, 548 Gal. Clarification Chamber</td>
</tr>
<tr>
<td>BOD Loading</td>
<td>Model AKA500 - 1-1.5 lbs./day</td>
</tr>
<tr>
<td></td>
<td>Model AKA600 - 1.2-1.8 lbs./day</td>
</tr>
<tr>
<td></td>
<td>Model AKA750 - 1.5-2.2 lbs./day</td>
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<tr>
<td></td>
<td>Model AKA800 - 1.6-2.3 lbs./day</td>
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<tr>
<td></td>
<td>Model AKA1000 - 2-3 lbs./day</td>
</tr>
<tr>
<td></td>
<td>Model AKA1500 - 3-4.5 lbs./day</td>
</tr>
<tr>
<td>Electrical Requirements</td>
<td>Model AKA500 - 115V/60 HZ/1-phase</td>
</tr>
<tr>
<td></td>
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<td></td>
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COMPONENTS/MATERIALS OF CONSTRUCTION
MODELS - AKA500, AKA600 AKA750, AKA800, AKA100, AKA1500

Aeration/Clarifier Tank
Fiberglass and concrete tanks will comply with all local, state and federal standards related to their intended use.

Air Pump
Model AKA500 - Diaphragm, linear, or piston air pump, approximately 1.67 CFM @ 1.82 psi.
Model AKA600 - Diaphragm, linear, or piston air pump, approximately 2.4 CFM @ 1.95 psi.
Model AKA750 - Diaphragm, linear, or piston air pump, approximately 2.35 CFM @ 2.09 psi.
Model AKA800 - Diaphragm, linear, or piston air pump, approximately 2.35 CFM @ 2.09 psi.
Model AKA1000 - Diaphragm, linear, or piston air pump, approximately 2.95 CFM @ 2.04 psi.
Model AKA1500 - Diaphragm, linear, or piston air pump, approximately 5.6 CFM @ 2.45 psi.
INSTALLATION INSTRUCTIONS

Prior to installation, all state and local laws and regulations must be complied with. For long term, reliable and efficient operation, it is essential that the system be installed in accordance with these instructions. Refer to the system drawing for component arrangement.

Step 1 Prepare excavation for the single tank. Depth for the tank is controlled by the depth of the building sewer. Bottom excavation must be smooth and level (a 4" layer of sand may be used if desired).

Step 2 Install rubber grommets in tank inlet, outlet and access cover (3 total). Grommets should be installed with the fat flange on the exterior of the tank as shown on the drawing. A small amount of grease applied to the inside of the grommets will aid insertion of PVC pipes.

Step 3 Carefully place tank into excavation with lowest pipe opening on the effluent side. Slide 4" PVC building sewer (furnished by installer) approximately 2 inches through inlet grommet.

Step 4 Slide 4" PVC effluent pipe (furnished by installer) into grommet on effluent side of the tank. Install 4" PVC launder assembly as shown on the drawing. Attach high water alarm float to the 1/2" PVC pipe going to the diffuser.

Step 5 Place air diffuser into tank so that it rests on bottom of the tank with diffuser sitting parallel with baffle, against the front (the influent wall) end of tank, run air line for air lift pump.

Step 6 Cut a section 4" PVC pipe (furnished by installer) to suitable length for access port. Slide 2 inches through grommet in top cover of tank.

Step 7 Install air pump in a clean, well ventilated area within 90 feet of the tank. Should 90 feet not be enough length, increase size to 3/4" PVC at air compressor and decrease size back 1/2" at air inlets to unit.
Step 8  Install ½” PVC air line (furnished by installer) from air pump to air diffuser assemble. Pipe should run in a trench at a recommended depth of 12 inches of cover. If vehicular traffic or other usual loading is anticipated, air line should be installed in a casing pipe (PVC, cast iron or steel pipe, etc.) for protection. Do not backfill until after step 10 is completed.

Step 9  Backfill excavation up to top of tank being careful not to dislodge piping. Special care is required around the effluent piping to insure that the effluent Outlet Assembly remains in proper position.

Step 10  Fill tank to point of overflowing with water. Operate air pump and check air piping joints for leakage using a soapy water solution. Repair if necessary and then carefully backfill trench and remainder of tank excavation(s). Be sure access cover is properly in place.

While the AquaKlear Wastewater Treatment Systems do not include fragile components, care should always be taken when off-loading and unpacking the components. Rough handling may cause damage to electrical parts and should be avoided. If there is damage or flaws in any component part, notify AquaKlear, Inc. immediately.

Every effort is made by AquaKlear staff to ensure that no defective components leave the AquaKlear factory, although certain incidents occur that are beyond our control. Should an air compressor or control box be found to be defective, they are to be disconnected and returned to AquaKlear for replacement. No field repairs are allowed. There are no moving parts within the AquaKlear tank but should a part need to be replaced the procedure is to cut the PVC line, remove the damaged part and install the new part in exactly the same position and manner as the original.
AquaKlear AK500F tank installation procedures

1. Excavation
   • Backfill cover (A) may range from 6” to 24” (6” tp 12” for FF models).
   • Sidewall and end wall allowance (B) should be 18” tp 24”.
   • Bedding (C) should be well compacted sand/or soil.
     6” minimum in soil terrain, 12” minimum in rock terrain.

2. Lift and Manhole Extension
   • For proper fit, install the lid and/or manhole extension before you put water in tank and backfill.
   • Please note the direction of flow — the inlet is higher than the outlet.

3. Backfilling Exterior and Filling With Water
   • Caution: Start filling the tank with water before you begin to back fill, fill with 20” – 30” of water, then start to backfill.
   • Backfill in 12” maximum layers with well compacted sand/or soil.
   • Tamp and compact back fill under inlet and outlet pipe.
   • Complete the filling of tank with water.

4. Backfilling the Top of Tank
   • Once the tank is filled with water, backfill to the surrounding level to a maximum of 36” (24” for FF models) from inlet flow line.

General Notes:
   • Do not install tank in water-satured clay or in high water table.
   • Do not install tank across the path of vehicles or heavy equipment.
   • The tanks are designed for below ground use only.
   • Immediately refill the tank with water after pumping.

Failure to comply with these installation procedures and general notes will void the warranty.
AquaKlear AKA600F tank installation procedures

1. Excavation
   - Backfill cover (A) may range from 6" to 24" (6" to 12" for FF models).
   - Sidewall and end wall allowance (B) should be 18" to 24".
   - Bedding (C) should be well compacted sand/or soil.
     6" minimum in soil terrain, 12" minimum in rock terrain.

2. Lift and Manhole Extension
   - For proper fit, install the lid and/or manhole extension before you put water in tank and backfill.
   - Please note the direction of flow — the inlet is higher than the outlet.

3. Backfilling Exterior and Filling With Water
   - Caution: Start filling the tank with water before you begin to back fill, fill with 20" - 30" of water, then start to backfill.
   - Backfill in 12" maximum layers with well compacted sand/or soil.
   - Tamp and compact back fill under inlet and outlet pipe.
   - Complete the filling of tank with water.

4. Backfilling the Top of Tank
   - Once the tank is filled with water, backfill to the surrounding level to a maximum of 36" (24" for FF models) from inlet flow line.

General Notes:
   - Do not install tank in water-saturated clay or in high water table.
   - Do not install tank across the path of vehicles or heavy equipment.
   - The tanks are designed for below ground use only.
   - Immediately refill the tank with water after pumping.

Failure to comply with these installation procedures and general notes will void the warranty.
AguaKlear AKA750F & 800F tank installation procedures

1. Excavation
   - Backfill cover (A) may range from 6" to 24" (6" tp 12" for FF models).
   - Sidewall and end wall allowance (B) should be 18" tp 24”.
   - Bedding (C) should be well compacted sand/or soil.
     6" minimum in soil terrain, 12" minimum in rock terrain.

2. Lift and Manhole Extension
   - For proper fit, install the lid and/or manhole extension before you put water in tank and backfill.
   - Please note the direction of flow — the inlet is higher than the outlet.

3. Backfilling Exterior and Filling With Water
   - Caution: Start filling the tank with water before you begin to back fill, fill with 20” – 30” of water, then start to backfill.
   - Backfill in 12” maximum layers with well compacted sand/or soil.
   - Tamp and compact back fill under inlet and outlet pipe.
   - Complete the filling of tank with water.

4. Backfilling the Top of Tank
   - Once the tank is filled with water, backfill to the surrounding level to a maximum of 40" (30" for FF models) from inlet flow line.

General Notes:
   - Do not install tank in water-satured clay or in high water table.
   - Do not install tank across the path of vehicles or heavy equipment.
   - The tanks are designed for below ground use only.
   - Immediately refill the tank with water after pumping.

Failure to comply with these installation procedures and general notes will void the warranty.
AguaKlear AKA750F & 800F tank installation procedures

1. Excavation
   - Backfill cover (A) may range from 6” to 24” (6” tp 12” for FF models).
   - Sidewall and end wall allowance (B) should be 18” tp 24”.
   - Bedding (C) should be well compacted sand/or soil.
     6” minimum in soil terrain, 12” minimum in rock terrain.

2. Lift and Manhole Extension
   - For proper fit, install the lid and/or manhole extension before you put water in tank and backfill.
   - Please note the direction of flow — the inlet is higher than the outlet.

3. Backfilling Exterior and Filling With Water
   - Caution: Start filling the tank with water before you begin to back fill, fill with 20” – 30” of water, then start to backfill.
   - Backfill in 12” maximum layers with well compacted sand/or soil.
   - Tamp and compact back fill under inlet and outlet pipe.
   - Complete the filling of tank with water.

4. Backfilling the Top of Tank
   - Once the tank is filled with water, backfill to the surrounding level to a maximum of 40” (30” for FF models) from inlet flow line.

General Notes:
   - Do not install tank in water-satured clay or in high water table.
   - Do not install tank across the path of vehicles or heavy equipment.
   - The tanks are designed for below ground use only.
   - Immediately refill the tank with water after pumping.

Failure to comply with these installation procedures and general notes will void the warranty.
AquaKlear AKA1 000F tank installation procedures

1. Excavation
   - Backfill cover (A) may range from 6" to 24" (6" to 12" for FF models).
   - Sidewall and end wall allowance (B) should be 18" to 24".
   - Bedding (C) should be well compacted sand/or soil.
     6" minimum in soil terrain, 12" minimum in rock terrain.

2. Lift and Manhole Extension
   - For proper fit, install the lid and/or manhole extension before you put water in tank and backfill.
   - Please note the direction of flow — the inlet is higher than the outlet.

3. Backfilling Exterior and Filling With Water
   - Caution: Start filling the tank with water before you begin to back fill, fill with 20" - 30" of water, then start to backfill.
   - Backfill in 12" maximum layers with well compacted sand/or soil.
   - Tamp and compact back fill under inlet and outlet pipe.
   - Complete the filling of tank with water.

4. Backfilling the Top of Tank
   - Once the tank is filled with water, backfill to the surrounding level to a maximum of 42" (30" for FF models) from inlet flow line.

General Notes:
   - Do not install tank in water-satured clay or in high water table.
   - Do not install tank across the path of vehicles or heavy equipment.
   - The tanks are designed for below ground use only.
   - Immediately refill the tank with water after pumping.

Failure to comply with these installation procedures and general notes will void the warranty.
AquaKlear AKA1500F tank installation procedures

1. Excavation
   - Backfill cover (A) may range from 6" to 24" (6"tp 12" for FF models).
   - Sidewall and end wall allowance (B) should be 18" tp 24".
   - Bedding (C) should be well compacted sand/or soil.
     6" minimum in soil terrain, 12" minimum in rock terrain.

2. Lift and Manhole Extension
   - For proper fit, install the lid and/or manhole extension before you put water in tank and backfill.
   - Please note the direction of flow — the inlet is higher than the outlet.

3. Backfilling Exterior and Filling With Water
   - Caution: Start filling the tank with water before you begin to back fill, fill with 20” – 30” of water, then start to backfill.
   - Backfill in 12" maximum layers with well compacted sand/or soil.
   - Tamp and compact back fill under inlet and outlet pipe.
   - Complete the filling of tank with water.

4. Backfilling the Top of Tank
   - Once the tank is filled with water, backfill to the surrounding level to a maximum of 46" (30" for FF models) from inlet flow line.

General Notes:
   - Do not install tank in water-satured clay or in high water table.
   - Do not install tank across the path of vehicles or heavy equipment.
   - The tanks are designed for below ground use only.
   - Immediately refill the tank with water after pumping.

Failure to comply with these installation procedures and general notes will void the warranty.
OPERATING INSTRUCTIONS

Once installed, the blower will run continuously and the system will operate with a minimal amount of attention. It will take from 6 to 12 weeks after startup to develop an optimum population of micro-organisms. To insure proper operation and minimize maintenance requirements, the following materials should not be permitted to enter the system.

**Items to Avoid**

- Strong disinfectant or bleaches (other than small amounts normally used in laundry and house cleaning - be conservation).
- Oil, greases and chemical wastes
- Disposable diapers, tampons, sanitary napkins, cigarette butts and similar items.
- Discharge from water softener.

The AquaKlear Wastewater Treatment System has been designed and tested to treat common and ordinarily expected wastewater and sewage from commercial and residential sources.

**ROUTINE SYSTEM CHECKS**

**Checking Pump**

Check air pump daily to be sure it is operating. Once accustomed to the soft humming sound of a properly operating unit, any unusual noise is an indication of a malfunction. If any unusual noise is detected, or if alarm signals, check power source, then call dealer for service.

**Checking Access Port**

Check access port weekly for sour or "rotten egg" odor. If odor develops, call dealer for service. Always reference the system data plate when calling for service.
<table>
<thead>
<tr>
<th><strong>Checking Inlet Filter</strong></th>
<th>Check inlet filter on air pump every three months and change or wash, if necessary. Filter should be cleaned or changed more often if conditions warrant.</th>
</tr>
</thead>
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<tr>
<td><strong>Checking Effluent</strong></td>
<td>Check effluent pipe weekly. Effluent should be clear and odor free. Effluent samples should be collected after treated wastewater has been discharged from the end of the pipe for several minutes. Care should be taken to insure that there is no algae growing in the pipe end which may be collected in the effluent sample.</td>
</tr>
<tr>
<td><strong>Residual Removal</strong></td>
<td>While the accumulation of residuals is largely dependent upon the characteristics of the wastewater treated, it is recommended that residuals be removed every 5 years, by a state certified removal service. The service should remove the lower (bottom) 1/2 of the liquor in both chambers and then refill with clear water.</td>
</tr>
<tr>
<td><strong>Intermittent Operation</strong></td>
<td>The air pump should always be operating during intermittent use of the treatment system.</td>
</tr>
<tr>
<td><strong>Electrical Wiring</strong></td>
<td>An electrical wiring diagram is included in this manual.</td>
</tr>
<tr>
<td><strong>Effluent Collection</strong></td>
<td>When collecting an effluent sample the sample should be taken at the closest point to the clarifier as possible. The water should have been flowing for two minutes before collecting the sample.</td>
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SERVICE POLICY

Service Calls
The purchase price for the system includes an initial two year service policy which includes all routine service calls as needed due to equipment failures or manufacturers' defect. These service calls will be made by the installing dealer or his authorized representative and shall cover the following:

Adjustment
Adjust and servicing of air pump, including replacement or cleaning of inlet filter if necessary.

Examination
Examination of the aeration zone to detect mixing regime and presence of sour or rotten egg odor.

Notification
Immediate notification of owner in writing of any improper operation observed which cannot be immediately remedied. Notice shall advise owner of problem and if covered by warranty, the estimated date for correction of the problem.

Inspection
The unit is to be inspected every six (6) months during the initial 2 year service policy period. Servicing should include a check of the filter in the air compressor for proper air flow, and inspection of all electrical connections. Check for effluent quality including a visual check for color, turbidity and scum overflow, and check for odors.

If a problem arises or service is required, please reference one of the two system data plates.

REPLACEMENT POLICY

During Warranty
There shall be no charge to the owner for the routine service calls, nor or repair or replacement of components covered by warranty, during the initial 2 year period.

Post Warranty
A continuing service policy is available from dealer to system owners whose initial service policy has expired.
TROUBLE SHOOTING INSTRUCTIONS

Once installed, the blower will run continuously and the system will operate with a minimal amount of attention. It will take from 6 to 12 weeks after startup to develop an optimum population of micro-organisms. To insure proper operation and minimize maintenance requirements, the following materials should not be permitted to enter the system.

**Items to Avoid**

- Strong disinfectant or bleaches (other than small amounts normally used in laundry and house cleaning - be conservative).

- Oil, greases and chemical wastes.

- Disposable diapers, tampons, sanitary napkins, cigarette butts and similar items.

- Discharge from water softener.

The Aquaklear Wastewater Treatment System has been designed and tested to treat common and ordinarily expected wastewater and sewage from commercial and residential sources.

**ROUTINE SYSTEM CHECKS**

**Checking pump**

Check air pump daily to be sure it is operating. Once accustomed to the soft humming sound of a properly operating unit, any unusual noise is an indication of a malfunction. If any unusual noise is detected, or if alarm signals, check power source, then call dealer for service.

**Checking Access Port**

Check access port weekly for sour or “rotten egg” odor and for color of liquid in aeration chamber. Liquid color should be light to dark brown. If odor develops, or liquid color is gray or black, call dealer for service. Always reference the system data plate when calling for service.
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DIRECTIONS FOR START UP/SHUT DOWN FOR AQUAKLEAR SYSTEMS

Due to the many different situations which give cause for shut down and start up of AquaKlear wastewater treatment systems, the following addresses a worst case situation for both.

Shut Down Period For Extended Period:
(water supply to building shut off)

The air compressor should be disconnected and removed, air line capped and compressor stored in a safe place (for protection from theft). Unit should be left in this condition (all tanks full) until start up.

Start up Procedures After Extended Shut Down:

Replace and reconnect air compressor, pump empty the aeration zone, clarifying zone, and refill with potable water. Turn air compressor on, check for proper air flow, and allow homeowner to begin using system.

For Intermittent Use:

Unit should be in full operational mode at all times.
System failures that may occur will fall into one of two general categories; unacceptable effluent quality or mechanical malfunction. Unacceptable effluent quality or mechanical malfunction may be indicated by discolored or odorous effluent discharge; discolored or odorous aeration chamber liquid; or solids in the effluent discharge. Causes are generally due to reduced or no air delivered to the aeration chamber, toxic material in the raw wastewater stream, or unusual wastewater flow (very high or very low). If any of these conditions are indicated, the following procedure should be followed.

1. Check the air compressor to insure that it is delivering air to the system. If necessary, perform regular maintenance. If the compressor is not delivering air it should be replaced as soon as possible.

2. Assess from the home-owner if toxic or other inappropriate material have been placed in the system. If toxic material has been introduced to the system, it may be necessary to pump out the contents of the tank and restart the system.

3. Visually inspect the aeration chamber. If there is not a readily apparent “roll” of the aeration chamber liquid in the direction of the effluent line, the aerator bar may be clogged or out of position. Expose the access hatch nearest the influent end of the tank; adjust or remove the aerator bar; clean and unclog and place in the proper position.

4. If solids appear in the system discharge, expose the two access hatches nearest the effluent end of the tank. Clean and unclog in place, the air lift pump and skimmer apparatus at the surface of the clarifier chamber. Clean in place, the effluent outlet assembly.
AQUAKLEAR, INC.
876 N. Bierdeman Rd. Pearl, MS 39208
Model No. AKA500C
Capacity: 500 g.p.d.
Serial Number: xxxx
Performance Rated: Class I