

**INSTALLATION &
OWNER'S MANUAL**

MO-DAD 360

CLASS 1 SYSTEMS
500-600/750-800/900-1000/1200-1500 GALLON CAPACITY

**RESIDENTIAL
WASTEWATER TREATMENT SYSTEMS**



Your Mo-Dad Dealer:

MO-DAD

*America's Choice For Home
Sewage Treatment Systems*
Acquired Wastewater Technology
Post Office Box 96
Denham Springs, LA USA 70727-0096
(225) 665-2949

BIOLOGICAL PROCESS DESCRIPTION

The MO-DAD 360 Wastewater Treatment System is an economical alternative for use in treating domestic wastewater generated by normal household activities. The process is based on a single-tank, dual-chamber, extended aeration activated sludge system which is capable of producing an effluent which meets applicable state discharge standards. This system has been successfully tested by Gulf Coast Testing LLC in accordance with ANSI/NSF Standard 40-2012.

Raw wastewater flows first into an aeration zone and the treated water flows into the clarifier. The oxygen supplied by the aeration system, along with the organic matter in the wastewater create an ideal environment for the growth of aerobic microorganisms. The organisms convert the waste organic materials into gases and additional microorganism cell material. In addition to supplying oxygen, the aeration system keeps the contents of the aeration zone well mixed to provide optimum exposure of the microorganisms to the waste materials. The action of the beneficial microorganisms also results in a significant reduction in pathogenic bacteria.

After approximately 24 hours of detainment in the aeration zone, the mixture enters the clarifier where quiescent conditions enable separation of the microorganisms, which are returned to the aeration zone, and discharge of treated wastewater through the tee pipe assembly. Effluent may be discharged to a ditch or to a new or existing drain field, whichever is required by your local health official.

MO-DAD 360 wastewater treatment systems meet or exceed all effluent water quality requirements as set forth by USEPA and ANSI/NSF Standard 40-2012. The MO-DAD 360 was tested according to ANSI/NSF Standards.

General Specifications for Models 360 500

Designation: Acquired Wastewater Technology LLC, Wastewater Treatment System

Electrical Requirements: Models 360 25 watts, 115V/60HZ/ singlephase

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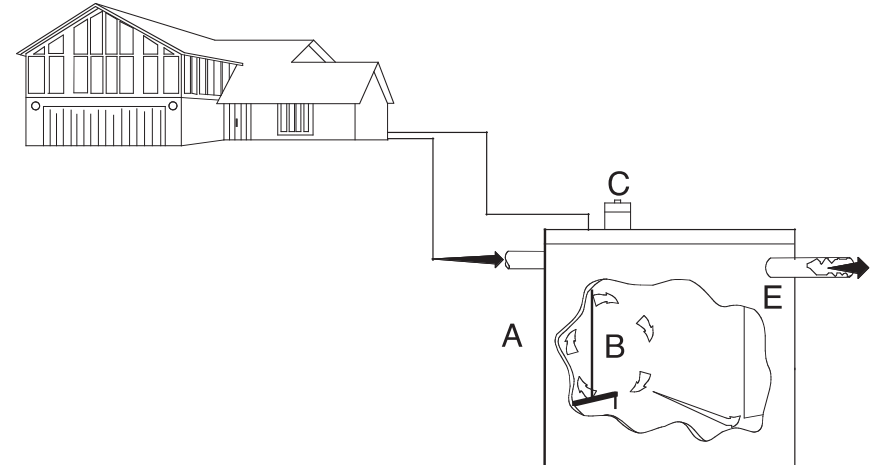
PLACE
STAMP
HERE

Acquired Wastewater Technology LLC
Post Office Box 96
Denham Springs, LA 70727-0096

MO-DAD 360 INDIVIDUAL HOME WASTEWATER TREATMENT SYSTEM

System Parts	Item	Drawing Reference
	Single Tank (with access cover)	A
	1/2" PVC Diffuser Assembly	B
	6" PVC Access Port (or larger)	C
	Grommets (3)	Not Shown
	4" PVC Tee Pipe Outlet Assembly	E
	Air Pump and Warning Device	Not Shown
Notes	PVC influent and effluent lines furnished by owner/installer Models available 500, 600, 750, 800, 900, 1000, 1220, 1500 Includes three 90 degree fittings and one warning device A data plate with model number, treatment capacity, serial number and manufacturer's address and phone number is installed inside the access port cap and on the air pump	

SYSTEM DRAWING



Plant 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.

- 1 Prepare excavation for the single tank. Depth for the tank is controlled by the depth of the building sewer. Bottom of excavation must be smooth and level (a 4" layer of sand may be used if desired).
- 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.
- 3 Carefully place the unit into the ground (excavated area). The influent end of the unit will be connected to the building sewer and the effluent end of the unit will be connected to the discharge sewer.
- 4 Place air diffuser into tank so that it rests on bottom of the tank with diffuser sitting parallel with the baffle, 6 inches from the influent hole.
- 5 Cut a section of 6" PVC pipe (furnished by owner) to suitable length for access port. Slide 2 inches through grommet in access cover. Slide access cover into place with PVC air line (furnished by owner) through opening provided.
- 6 Install air pump in a clean, well ventilated area such as a tool room, garage, under trailer, on a concrete block, etc., within 60 feet of the tank.
- 7 Install PVC air line (furnished by owner) from air pump to diffuser assembly. 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, scrap iron, or steel pipe, etc.) for protection.
- 8 Backfill excavation up to top of tank being careful not to damage surface coating or dislodge piping. Special care is required around the effluent piping to ensure that the Tee Pipe Outlet Assembly remains in proper position, straight and level.
- 9 Fill tank to point of overflowing with water. Operate air pump and check air piping joints for leakage using 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.

WARRANTY REGISTRATION CERTIFICATION

Mail Certificate Within 30 Days

Complete certificate, detach and mail to the following address within thirty (30) days of purchase:

Acquired Wastewater Technology LLC
POST OFFICE BOX 96
DENHAM SPRINGS, LA 707270096
WARRANTY@MODAD.COM

Serial Number:	_____	Model Number:	_____
Date of Installation:	_____		
Purchaser's Name:	_____		
Address (NO P.O. BOX):	_____		
City:	_____	State:	_____ Zip: _____
Dealer's Name:	_____		
Address:	_____		
City:	_____	State:	_____ Zip: _____

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Treatment Plant Startup

Initially the Mo-Dad 360 System is filled with clean water, usually from the homeowner's water supply. As stated in the installation instructions, once all the proper connections have been completed and it is filled with water and the blower is turned on, the system is in operation.

For the treatment plant to be biologically stable, it will take from four to sixteen weeks after first using the unit to develop a population growth of microorganisms (bacteria). It is bacteria which make the system operate.

Maintenance Schedule

The Mo-Dad 360 System can be operated and maintained with a minimum amount of problems, if the following procedures are performed on a routine basis.

1. Check high water alarm or audible alarm. If there is a malfunction, you will hear the alarm sound and see a red light on. If on, call for service as indicated on service plate directly above the light.
2. Check around system for build up of ant nests around air pump. Recommended frequency of solid removal is depending on usage.

MO-DAD MODEL 360 GENERAL INFORMATION

Specifications:

Designation	Mo-Dad 360 500 gpd, single family residential wastewater treatment system
Treatment/Capacity Class	500 gallons per day (gpd)
BOD Loading	500 gpd 1 – 1.5 lbs./day
Electrical Requirements	110/115 volts – 50/60 HZ – Single Phase
Air Blower	Linear Blower

Components:

Tank	Manufactured out of 3000 p.s.i. concrete or alternate material may be 14 guage carbon steel asphalt coated and polyethylene.
Riser	Six (6) inch cap (or larger)
Air Pump	Linear Blower
Electrical Alarm and Sensor	High water / audible and visible alarm system

MO-DAD MODEL 360 OWNERS RESPONSIBILITY

It is the owner's responsibility to operate the Mo-Dad 360 System to the best of their ability. To ensure proper operation and minimize problems, please review and follow these guidelines.

1. Do not add strong detergents, disinfectants, or bleaches (other than very small amounts used in daily household cleaning and laundries) to the system.
2. Do not allow the discharge from any type of water softeners or similar equipment into the system.
3. Do not allow any disposable items such as: diapers, tampons, sanitary napkins, large quantities of paper products, tobacco products, or similar items in the system.
4. Do not allow coffee grounds, chemical waste, oils, or grease (such as cooking grease) into the system.
5. Do not allow ant nests to build up around air pump. This can damage electrical components in air pump and alarm panel.
6. To prevent extra maintenance problems please maintain grass and shrubs around system.

MO-DAD 360 SERVICE POLICY

Service Calls	The purchase price for the system includes an initial two year service policy, which includes all service calls as needed due to equipment failures or manufacturer's defect. These service calls will be made by the dealer or his authorized representative and shall cover:
Adjustment	Servicing of air pump, including replacement or cleaning of inlet filter if necessary.
Notification	Immediate notification of owner in writing of any improper operation observed which cannot be immediately remedied. Manufacturer 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.

MANUFACTURER RECOMMENDED SYSTEM ADDITIVES

REPLACEMENT POLICY

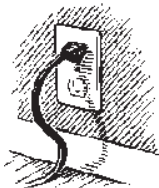
During Warranty	There shall be no charge to the owner for the repair or replacement of components covered by the warranty.
Post Warranty	A continuing service policy is available from the dealer to system owners whose initial service policy has expired.

HOMEOWNER'S COPY – Please retain for your records.

Serial Number: _____	Model Number: _____
Date of Installation: _____	
Purchaser's Name: _____	
Address (NO P.O. BOX): _____	
City: _____	State: _____ Zip: _____
Dealer's Name: _____ Phone: _____	
Address: _____	
City: _____	State: _____ Zip: _____

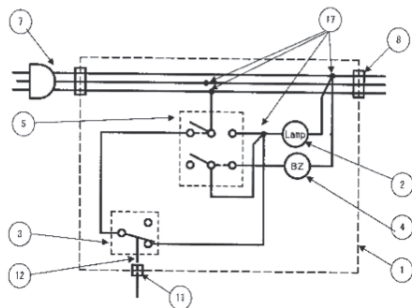
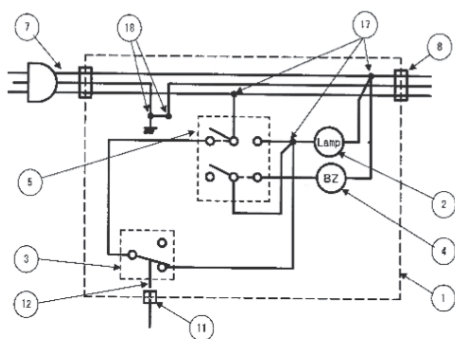
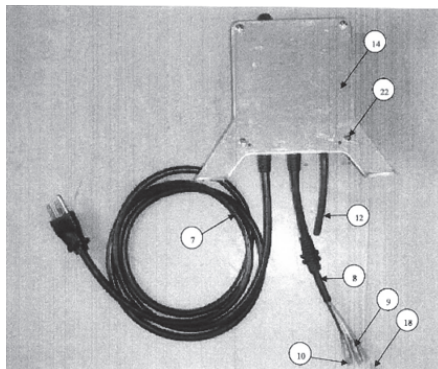
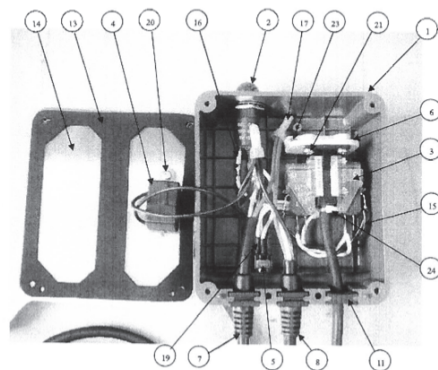
THE MODAD AERATOR (AIR PUMP)

The Mo-dad systems air pump connects to any 110v household socket. However it is advisable, if the socket is located outdoors, to have an outdoor socket which will help to keep the plug and socket out of the weather. The alarm is connected to the blower and are both powered from the same plug.



Alarm Electrical Diagram

#	Description	#	Description
1	Alarm casing	13	Packing
2	Indicator lamp	14	Alarm box bracket
3	Pressure switch	15	Lead wire
4	Buzzer	16	Quick connect connectors
5	Switch	17	Closed end type crimping terminal
6	Pressure switch support	18	Terminal connector
7	Power cord	19	Heat shrinkable tube
	Power plug	20	Screw (For buzzer)
8	Junction power cord	21	Screw (For pressure switch)
9	Bullet type connector	22	Screw (For alarm casing)
10	Sleeve	23	Screw (For pressure switch support)
11	Rubber bushing	24	Bundling straps
12	Rubber tube		



The following additives are **not** required but will allow your Mo-Dad System to operate at peak treatment efficiency.

1. BluGuard™ - can be added monthly to your Mo-Dad System. It will fortify and stimulate biological growth and help deodorize septic smells

Source for obtaining approved replacement parts or approved system additive:

Acquired Wastewater Technology LLC
P.O. Box 96
Denham Springs, LA USA 707270096
(225) 6652949

Instructions for Intermittent Use

If system is used less than four days a week, a manufacturer approved activation additive, such as BluGuard™ Solution, must be used to ensure proper waste treatment. Please contact manufacturer for product availability and pricing.

EQUIPMENT DATAPLATE

The air pump and high water audible and visible alarm system shall have the following data plate permanently affixed on them:

Mo-Dad 360 500

On-Site Wastewater Treatment Equipment

P.O. Box 96, Denham Springs, LA 70727-0096

225-665-2949

www.modad.com

Serial
Number

5MC0010000



Certified to NSF/ANSI Standard 40

Model 500, Class I, Size: 500 Gallons / Day

OPERATING INSTRUCTIONS

Once installed, the blower will run twentyfour (24) hours a day, so the systems will operate with a minimal amount of attention. It will take 4 to 16 weeks after startup to develop an optimum amount of microorganisms. To ensure proper operation and minimize maintenance requirements, the following material should not be permitted to enter the system:

Strong disinfectants or bleaches (other than small amounts normally used in laundry *be conservative*)

Oils, greases, and chemical wastes

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

Discharge from water softener

ROUTINE SYSTEM CHECKS TO BE PERFORMED BY SYSTEM OWNER

The following actions should be accomplished to ensure troublefree operation:

Check air pump 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 noise is detected or if alarm signals, check power source, then call dealer for service.

Check water discharge monthly. If discharge is black or murky, call dealer for service.

Check inlet filter on air pump every six months and change or wash, if necessary. Filter should be cleaned or changed more often if conditions warrant.

LIMITED WARRANTY

Acquired Wastewater Technologies LLC, (hereinafter referred to as Manufacturer) warrants each wastewater treatment system up to 1000S to be free of defects in materials and workmanship for a period of three (3) years and each 1000S and 1500S for a period of 1 (one) year from the date of purchase. When properly registered with the manufacturer, Manufacturer's sole obligation under this warranty shall be to repair or exchange any component part, F.O.B. factory, that in manufacturer's judgment shows evidence of defects, provided said component part has been paid for and is returned through an authorized dealer, transportation prepaid. The warranty must specify the nature of the defect to the Manufacturer.

This warranty does not cover systems that have been flooded by an external means, disassembled by unauthorized persons, improperly installed, subjected to external damage, damage due to improper electrical wiring, or systems treating other than normal household wastewater.

This warranty applies only to the treatment system, and does not include any of the house wiring, plumbing, drainage, or disposal system. Manufacturer is not responsible for any delay or damages caused by defective components or material, or for loss incurred because of interruption of service, or for any other special or consequential damages or incidental expenses arising from the manufacture, sale, or use of this system.

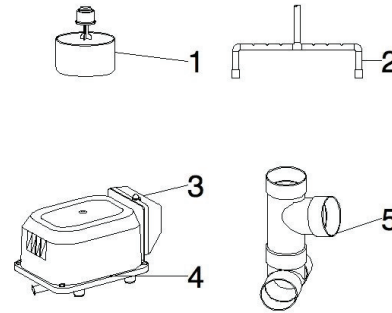
Manufacturer reserves the right to revise, change or modify the construction and design of the treatment system or any component system or any component part or parts thereof without incurring any obligation to make such changes or modifications to previously sold equipment. Manufacturer also reserves the right, in making replacements of component parts under this warranty, to furnish a component part which, in its judgment, is equivalent to the part replaced.

Under no circumstances will manufacturer be responsible to warrantee for any other direct or consequential damages, including but not limited to lost profits, lost income, labor charges, delays in production, which damages are caused by a defect in materials and/or workmanship in its parts.

This warranty is expressly in lieu of any other expressed or implied warranty, excluding any warranty of merchantability or fitness, and of any other obligation on the part of Manufacturer.

Warranty applies only to the treatment system itself and does not include any of the purchaser's plumbing, drainage, and or disposal systems or household wiring and/or any plumbing or device added after the outlet.

MO-DAD 360 KIT PARTS



1. The float that is placed in the tank connected to the diffuser air line.
2. The diffuser bar dissolves the oxygen into the wastewater by breaking the air up into little bubbles.
3. Visual and audio alarm that indicates any mechanical failure or weakening of blower. This also sounds if there is high water.
4. The aerator blows air into the system.
5. The double Tee prevents solids from exiting the system.

MO-DAD 360 COMPONENTS

1. Aeration Compartment
2. Clarifier Chamber
3. Aeration Diffuser
4. Flow Diversion Tee

