SYBR-AER

SBR WASTEWATER TECHNOLOGIES

PROCEDURES FOR ASSEMBLY AND INSTALLATION

(500-600 GPD SYBR-AER FT SERIES)

SBR WASTEWATER TECHNOLOGIES INC.
1501 COMMERCE CENTER DRIVE
FRANKLIN, OHIO
TEL: 937-790-4149
FAX: 937-790-4150
WWW.SBRWW.COM

Thank you for purchasing the Sybr-Aer advanced wastewater treatment system.
The following will provide step-by-step installation instructions.

The SYBR-AER FT series comes with all components factory installed for ease of installation. The Unit is also pre-wired and comes with 100' of direct burial 12 conductor wire (If your application requires a longer run of wire please let us know at time of order).

The SYBR-AER FT series comes with or without disinfection depending on your application. The following instructions address both versions.

The SYBR-AER FT Series contains:

- Vented fiberglass blower enclosure with electrical junction box, cord grips, gel coated cover and exterior tamper proof latches
- (2) 24" diameter risers with pre-installed air manifolds, (2) covers
- (1) float tree
- (1) blower with galvanized fittings, air filter, and mission couplings
- (1) discharge pump with quick disconnect fittings, floats and pedestal
- Engineered diffusers
- 1 1/2" air drops with quick disconnect fittings
- Outdoor alarm with logic control module, individual circuit breakers for service disconnect, and a battery back-up incase of power outage
- 100' twelve-conductor direct burial wire
- conduit with a sweep for control panel
- Fiberglass tank with lifting eyelits
- (F2-UV disinfection system if you are using disinfection)

SYBR-AER FT SERIES INSTRUCTIONS

The installation must comply with all state and local regulations.

SITE PREPARATION

LOCATION

The site plan should show the desired location of the waste treatment plant and the location of the effluent disposal system. CAUTION: Check to make sure the site plan accurately reflects the conditions actually existing at the site and that all required set-backs (i.e., to wells, property lines, etc.) are being met.

GRADE AND GROUND COUNTOUR

Position the waste treatment plant so that surface water and effluent will drain to a lower grade under all known conditions.

COVER EXPOSURE

The access covers must be exposed at all times to permit the system to function properly and to allow for routine maintenance. There should be a minimum of (2) two inches between the bottom of the lid and the finished grade.

BUILDING SEWER LINE

Carefully check all elevations to insure that the building sewer will have the proper fall (slope) to meet the inlet of the ***SYBR-AER*** and maintain the grade requirements to insure proper exposure of the cover. The elevation of the outlet should also be checked to insure proper elevation of the effluent disposal system.

EXCAVATION PREPARATION

Clear an area at least two (2) feet larger than the dimensions of the tank, which is to be installed.

Determine the required depth of the excavation based upon the elevation of the invert of the inlet sewer line or the elevation of the finished grade.

NOTE: Riser needs are built into the tank. There is 13 inches of adjustment built into the tank. Locate the proper elevation and drill a 5" inlet hole on the flat section of the tank and install the supplied 4" gasket seal

Excavate a hole approximately two (2) feet wider than the perimeter of the plant.

NOTE:
If the final elevations will not allow for the proper installation of the SYBR-AER, a lift station can be installed upstream.

Care should be taken to not dig too large (or too deep) of a hole. If the hole is dug too deep, fill in the bottom of the excavation with a minimum of 6" of sand, pea gravel or crushed stone to the required bottom depth. **This material should be well compacted to prevent settling of the tank when it is filled with water.**

OFF-LOADING AND UNPACKING

The SYBR-AER FT Series comes with four lifting eyelits to lift the tank.

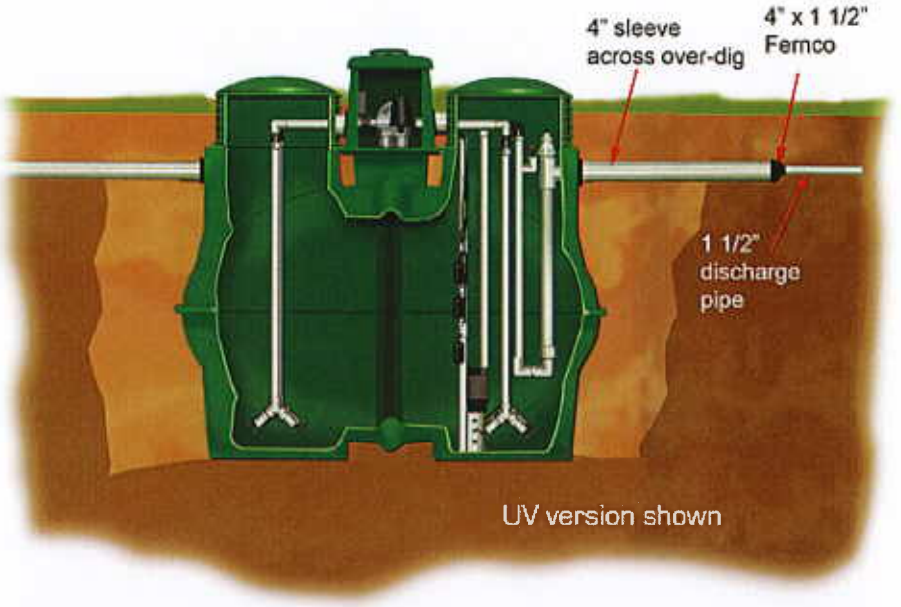
NOTE: Be sure to use all four lifting eyelits for safety when moving the tank and that your lifting harness is long enough not to pinch the blower housing.

Caution: Unit is top heavy move with care.

BACKFILLING

Once the tank is set and leveled start filling the tank with water and begin backfilling with friable material up to the inlet. Firmly insert the inlet pipe into the tank. (pipe lube reccomended)

CAUTION: To prevent any damage to the inlet or outlet pipes due to settling or backfilling, make sure that both inlet and outlet pipes are set on undisturbed or firmly-packed fill material prior to final backfilling procedures.



Once you have slid the discharge pipe through the protective sleeve (4" piece of pipe long enough to span across the overdig) and connected it to the pump line, install the supplied 4"x 1 1/2" Fernco on the end of the 4"pipe in the trench to prevent ground water from entering the pipe. The protective sleeve provides pertection during backfilling and eliminates the chance of sheering off the pipe if the tank settles.

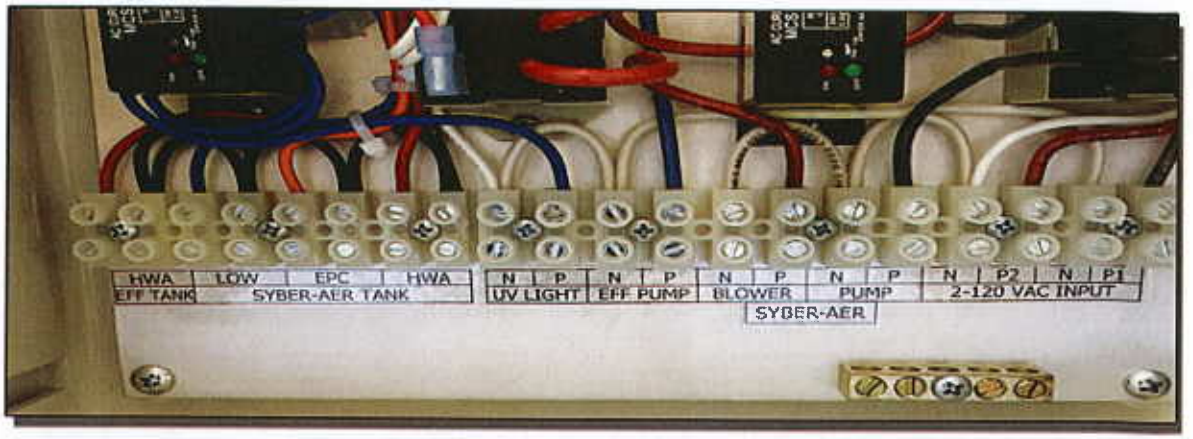
ELECTRICAL

NOTE: SBC4080UV Control Panel requires 2 dedicated circuits to power the panel (with UV)
SBC4060 Control Panel requires 1 dedicated circuit to power the panel (without UV)

All the components for the SYBR-AER are pre-installed and pre-wired so no need to make any electrical connections at the tank. Run the 100' of direct burial cable supplied to the location you want to mount the control panel..

Use care and drill control panel box for 1" conduit. (Make sure you do not drill into the terminal strip in the bottom of the panel.) Mount the control panel with the supplied hardware and instll the conduit and sweep.

Feed the 12 wire through the conduit and into the panel.



The control panel is clearly labeled and utilizes terminal blocks so no need for wirenuts.

Wiring instructions are listed on backside of control panel access door.

SBC 4060 (NON UV)

SOLID RED TO BLOWER POWER
RED W/STRIPE TO BLOWER NUETRAL
SOLID BLACK TO PUMP POWER
BLACK W/STRIPE TO PUMP NUETRAL
SOLID YELLOW TO E.P.C. FLOAT POWER
YELLOW W/STRIPE TO E.P.C. FLOAT NUETRAL
SOLID ORANGE TO HIGH WATER FLOAT POWER
ORANGE W/STRIPE TO HIGH WATER NUETRAL
SOLID BROWN TO GROUND BAR
BROWN W/STRIPE TO GROUND BAR

* 2-BLUE WIRES NOT USED

SBC 4080UV (WITH UV)

SOLID BLUE TO UV POWER
BLUE W/STRIPE TO UV NEUTRAL
SOLID RED TO BLOWER POWER
RED W/STRIPE TO BLOWER NUETRAL
SOLID BLACK TO PUMP POWER
BLACK W/STRIPE TO PUMP NUETRAL
SOLID YELLOW TO E.P.C. FLOAT POWER
YELLOW W/STRIPE TO E.P.C. FLOAT NUETRAL
SOLID ORANGE TO HIGH WATER FLOAT POWER
ORANGE W/STRIPE TO HIGH WATER NUETRAL
SOLID BROWN TO GROUND BAR
BROWN W/STRIPE TO GROUND BAR

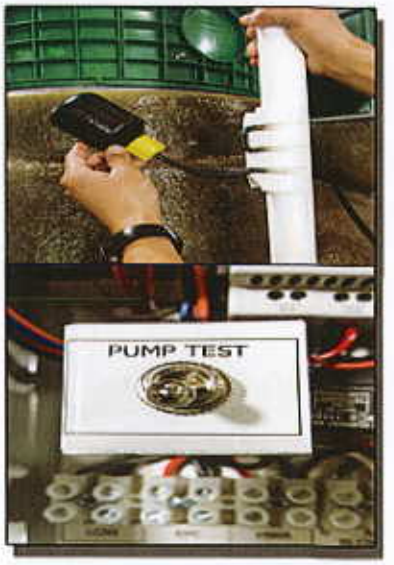
Once all connections are made power can be supplied to the panel. Turn on all the Breakers. Press and hold the test button to activate the alarm.

Remove the discharge side lid and unhook and raise the float tree up out of the tank and cut the shipping tape off of the floats. **(Floats are taped to float tree for shipping purposes and failure to remove tape will prevent system from operating properly)**

Top Float is the E.P.C. Float
Middle Float is the Highwater Float
Bottom Float is the Redundant ON/OFF Float

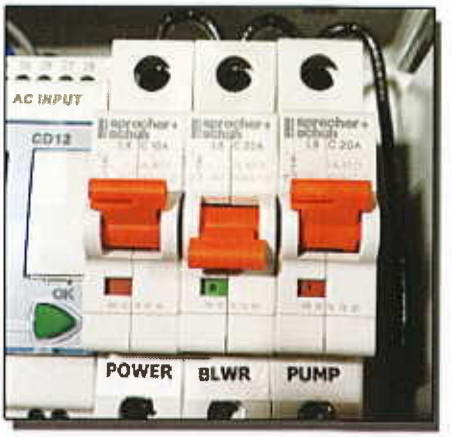
[Low alarm is an optional alarm it is designed for a float to be set low so that when the tank pumps out if it is still up it will go into a latching alarm to alert you it didn't pump out enough]

Raise the highwater float and make sure alarm sounds.
With the blower running raise the E.P.C. float and make sure the blower shuts off.Raise the Redundant ON/OFF float and flip the manual pump run switch in the panel and make sure the pump runs.



NOTE: The E.P.C. will shut the blower off and start a 1 hour settling cycle then run the pump. To clear this alarm once you activated the float shut the power breaker off to clear the alarm condition then turn back on

Turn the Blower Breaker off and make sure the alarm activates then turn breaker back on. If the system has enough water in it you can let it run or turn it off until you are finished with the installation.



Once everything has been tested and operational install lids and continue backfilling. Finish backfilling to a level approximately 2" below the access lid. Finish Grade should be contoured so that surface water drains away from the unit.

The following instructions are for units with Ultaviolet Light.

The quartz tube is shipped inside the UV housing. Loosen the large union and remove quartz tube to remove protective packaging.

Note: Failure to remove packaging from the quartz tube will prevent proper operation and will not allow the system to discharge properly.

The UV Bulb is transported in a tube taped to the float tree. Carefully cut the tube free from the float tree and open to remove bulb.

NOTE: Care should be taken to not touch the glass of the bulb if you are not wearing gloves. Oil from your skin can create hot spots on the bulb and shorten the life of the bulb.

Once the packaging has been removed re-install the quartz tube and tighten down the Large union

Plug the UV Whip (chord) onto the uv bulb and lower into the quartz tube

Tighten down the small union

The UV is designed to treat up to 14 gallons a minute. In the SYBR-AER FT Series we set the ball-valve to 10 gallons a minute to simplify adjusting the flow (adjusted flow should fill a 5 gallon bucket in 30 seconds).

Once the UV light is hooked up turn the UV breaker on. Flip the sample mode switch this shuts the blower off and turns the UV on you should see the current switch on the left in the panel light up red when the UV comes on as well as listed on the operating screen of the logic module. Shut the UV Light breaker off and the alarm should sound turn the breaker back on and clear the alarm .Once this is verified turn the sample mode switch off this puts it back into normal operation

NOTE: Blower will not operate if sample switch is left in the ON position.

The control panel is programmed to turn the UV light on when the Blower turns off and goes into settle mode at midnight. In normal operation the UV light is only on 4 hours a day. If the system goes into a highwater situation and the homeowner continues to use water and triggers the E.P.C. float the blower will turn off and turn the UV light on for a 1 hour settle mode and then pump the excess water out.

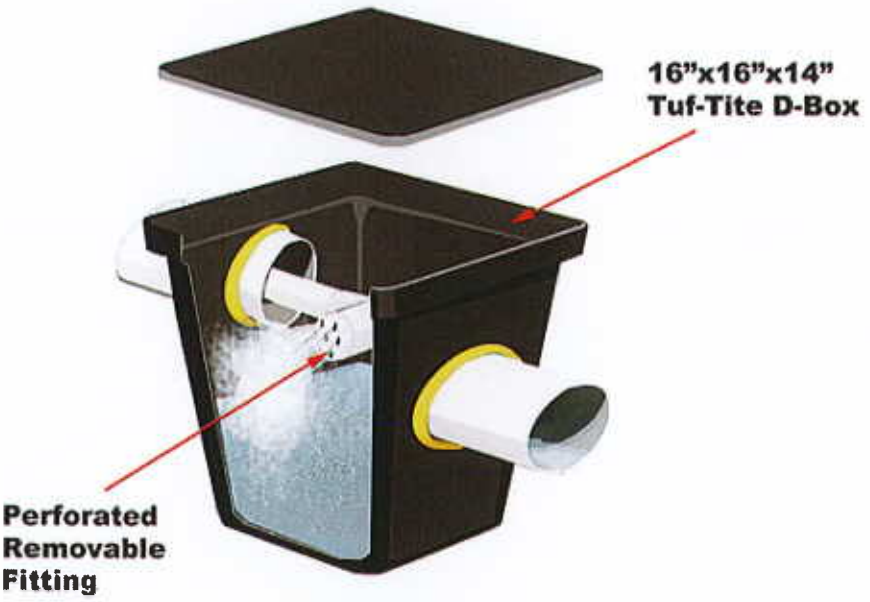
The control panel is failsafed in the event of a blower or UV light failure the pump is locked out and will not discharge until the alarm condition has been cleared.

CAUTION: Do not look at UV Light when it is on can damage eyes.

POST AERATION (IF REQUIRED)

Re-aeration is achieved by spraying effluent against a surface when pumped effluent is drawn from the tank. The effluent pump discharges through a perforated fitting into a standard 16"x16"x14" Tuf-Tite polyethylene distribution box prior to discharge. The vigorous spraying provides sufficient agitation to raise the dissolved oxygen level to almost saturated concentrations

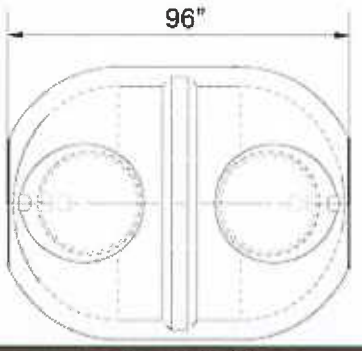
*** NOTE: Mark the ball-valve in the discharge line then adjust in order to slow the flow enough to take a freeflowing sample once sample is taken return the ball valve to it's original position**



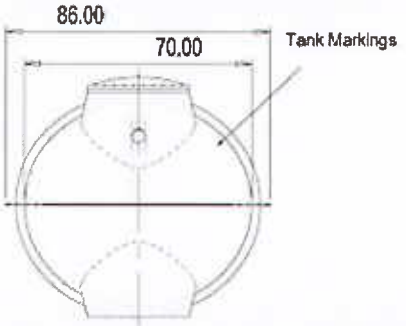
Once the installation is complete be sure to give the property owner the owners manual, explain the Do's and Dont's, and fill out and send in the installation report

TANK INFORMATION

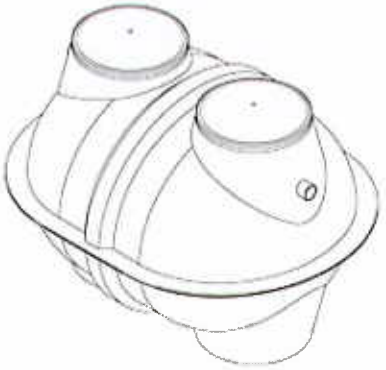
S-A 1250 FIBERGLASS TANK	
MATERIALS	Glass-Reinforced Polyester
TOTAL CAPACITY	1,499 GAL
LENGTH	96 INCHES
WIDTH	86 INCHES
HEIGHT	69 INCHES
MANWAYS	24"
INLET INVERT	57"-70"
OUTLET INVERT	67.5 INCHES
COMPARTMENTS	ONE
MAXIMUM BURIAL DEPTH	24 INCHES
MAXIMUM PIPE DIAMETER	4"
JOINT SEALANT	Consoal CS-102 or equal
WEIGHT	590 LBS
DISPLACED WEIGHT (assuming saturated conditions)	12506.7 LBS.
BUOYANCY FORCE	11916.7 LBS.

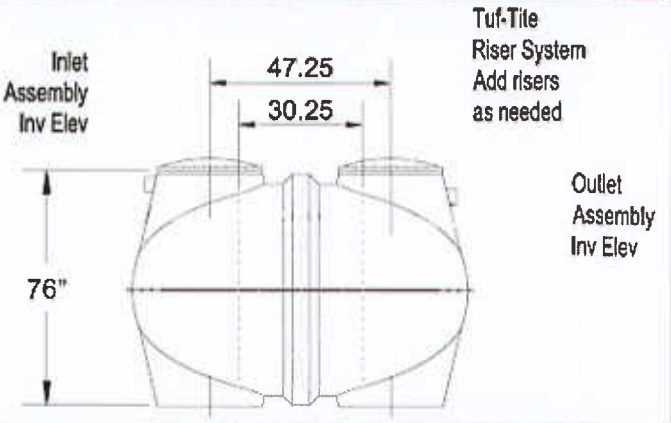


TOP VIEW



END VIEW





SIDE VIEW

S-A 1250 FIBERGLASS TANK

TITLE: 1250 SA

CONSOLIDATED
TREATMENT SYSTEMS
1501 Commerce Center Drive
Franklin, Ohio 45005
937-746-2727

1250SA Volume Table

(Liquid Depth in inches)

1250 Gallon Septic Tank

(in)	(gal)	(in)	(gal)	(in)	(gal)	(in)	(gal)	(in)	(gal)	(in)	(gal)	(in)	(gal)
0.000	0.0	10.000	116.0	20.000	336.7	30.000	615.7	40.000	912.9	50.000	1187.8	60.000	1400.5
0.125	0.7	10.125	118.3	20.125	339.9	30.125	619.3	40.125	916.6	50.125	1190.9	60.125	1402.6
0.250	1.3	10.250	120.6	20.250	343.1	30.250	623.0	40.250	920.2	50.250	1194.0	60.250	1404.6
0.375	2.0	10.375	122.8	20.375	346.3	30.375	626.7	40.375	923.9	50.375	1197.2	60.375	1406.7
0.500	2.6	10.500	125.1	20.500	349.5	30.500	630.4	40.500	927.5	50.500	1200.3	60.500	1408.8
0.625	3.3	10.625	127.4	20.625	352.8	30.625	634.0	40.625	931.2	50.625	1203.3	60.625	1410.8
0.750	4.1	10.750	129.7	20.750	356.0	30.750	637.6	40.750	934.8	50.750	1206.4	60.750	1412.8
0.875	4.8	10.875	132.1	20.875	359.3	30.875	641.2	40.875	938.5	50.875	1209.5	60.875	1414.8
1.000	5.5	11.000	134.4	21.000	362.6	31.000	644.8	41.000	942.1	51.000	1212.5	61.000	1416.8
1.125	6.3	11.125	136.8	21.125	365.9	31.125	648.6	41.125	945.7	51.125	1215.6	61.125	1418.7
1.250	7.0	11.250	139.1	21.250	369.1	31.250	652.3	41.250	949.3	51.250	1218.6	61.250	1420.7
1.375	7.8	11.375	141.5	21.375	372.4	31.375	656.0	41.375	953.0	51.375	1221.6	61.375	1422.6
1.500	8.6	11.500	143.9	21.500	375.7	31.500	659.7	41.500	956.6	51.500	1224.6	61.500	1424.6
1.625	9.4	11.625	146.3	21.625	379.0	31.625	663.5	41.625	960.2	51.625	1227.6	61.625	1426.4
1.750	10.3	11.750	148.8	21.750	382.4	31.750	667.2	41.750	963.8	51.750	1230.6	61.750	1428.3
1.875	11.1	11.875	151.2	21.875	385.7	31.875	670.9	41.875	967.4	51.875	1233.6	61.875	1430.2
2.000	11.9	12.000	153.6	22.000	389.0	32.000	674.7	42.000	971.0	52.000	1236.6	62.000	1432.0
2.125	12.8	12.125	156.1	22.125	392.4	32.125	678.4	42.125	974.6	52.125	1239.5	62.125	1433.8
2.250	13.7	12.250	158.6	22.250	395.7	32.250	682.1	42.250	978.2	52.250	1242.4	62.250	1435.6
2.375	14.6	12.375	161.1	22.375	399.1	32.375	685.9	42.375	981.8	52.375	1245.4	62.375	1437.4
2.500	15.5	12.500	163.6	22.500	402.4	32.500	689.6	42.500	985.4	52.500	1248.3	62.500	1439.2
2.625	16.4	12.625	166.2	22.625	405.8	32.625	693.4	42.625	988.9	52.625	1251.2	62.625	1440.9
2.750	17.4	12.750	168.7	22.750	409.2	32.750	697.1	42.750	992.5	52.750	1254.1	62.750	1442.7
2.875	18.3	12.875	171.3	22.875	412.6	32.875	700.9	42.875	996.1	52.875	1257.0	62.875	1444.4
3.000	19.3	13.000	173.8	23.000	416.0	33.000	704.6	43.000	999.6	53.000	1259.9	63.000	1446.1
3.125	20.4	13.125	176.4	23.125	419.4	33.125	708.4	43.125	1003.2	53.125	1262.8	63.125	1447.7
3.250	21.5	13.250	179.0	23.250	422.8	33.250	712.1	43.250	1006.7	53.250	1265.6	63.250	1449.4
3.375	22.7	13.375	181.6	23.375	426.2	33.375	715.9	43.375	1010.3	53.375	1268.5	63.375	1451.0
3.500	23.8	13.500	184.2	23.500	429.6	33.500	719.7	43.500	1013.8	53.500	1271.3	63.500	1452.7
3.625	25.0	13.625	186.9	23.625	433.1	33.625	723.4	43.625	1017.3	53.625	1274.1	63.625	1454.2
3.750	26.3	13.750	189.5	23.750	436.5	33.750	727.1	43.750	1020.8	53.750	1276.9	63.750	1455.8
3.875	27.6	13.875	192.2	23.875	440.0	33.875	730.9	43.875	1024.4	53.875	1279.7	63.875	1457.4
4.000	28.9	14.000	194.8	24.000	443.4	34.000	734.6	44.000	1027.9	54.000	1282.5	64.000	1458.9
4.125	30.2	14.125	197.5	24.125	446.9	34.125	738.4	44.125	1031.4	54.125	1285.3	64.125	1460.4
4.250	31.6	14.250	200.2	24.250	450.4	34.250	742.1	44.250	1034.9	54.250	1288.0	64.250	1461.9
4.375	33.0	14.375	202.9	24.375	453.8	34.375	745.8	44.375	1038.4	54.375	1290.8	64.375	1463.3
4.500	34.4	14.500	205.6	24.500	457.3	34.500	749.6	44.500	1041.9	54.500	1293.5	64.500	1464.8
4.625	35.8	14.625	208.4	24.625	460.8	34.625	753.3	44.625	1045.3	54.625	1296.2	64.625	1466.2
4.750	37.3	14.750	211.2	24.750	464.3	34.750	757.1	44.750	1048.8	54.750	1298.9	64.750	1467.6
4.875	38.8	14.875	213.9	24.875	467.8	34.875	760.8	44.875	1052.3	54.875	1301.6	64.875	1468.9
5.000	40.3	15.000	216.7	25.000	471.3	35.000	764.5	45.000	1055.8	55.000	1304.3	65.000	1470.3
5.125	41.8	15.125	219.5	25.125	474.8	35.125	768.3	45.125	1059.2	55.125	1307.0	65.125	1471.6
5.250	43.4	15.250	222.3	25.250	478.3	35.250	772.0	45.250	1062.6	55.250	1309.6	65.250	1472.9
5.375	44.9	15.375	225.1	25.375	481.9	35.375	775.8	45.375	1066.1	55.375	1312.3	65.375	1474.1
5.500	46.5	15.500	227.9	25.500	485.4	35.500	779.5	45.500	1069.5	55.500	1315.0	65.500	1475.4
5.625	48.1	15.625	230.7	25.625	488.9	35.625	783.3	45.625	1072.9	55.625	1317.6	65.625	1476.5
5.750	49.8	15.750	233.6	25.750	492.5	35.750	787.0	45.750	1076.4	55.750	1320.2	65.750	1477.6
5.875	51.4	15.875	236.4	25.875	496.0	35.875	790.8	45.875	1079.8	55.875	1322.8	65.875	1478.6
6.000	53.1	16.000	239.3	26.000	499.5	36.000	794.6	46.000	1083.2	56.000	1325.4	66.000	1479.9
6.125	54.8	16.125	242.2	26.125	503.1	36.125	798.3	46.125	1086.6	56.125	1327.9	66.125	1480.8
6.250	56.5	16.250	245.1	26.250	506.7	36.250	802.0	46.250	1090.0	56.250	1330.5	66.250	1481.8
6.375	58.2	16.375	247.9	26.375	510.2	36.375	805.8	46.375	1093.3	56.375	1333.0	66.375	1482.7
6.500	60.0	16.500	250.8	26.500	513.8	36.500	809.5	46.500	1096.7	56.500	1335.5	66.500	1483.7
6.625	61.7	16.625	253.8	26.625	517.4	36.625	813.3	46.625	1100.1	56.625	1338.0	66.625	1484.6
6.750	63.5	16.750	256.7	26.750	521.0	36.750	817.0	46.750	1103.4	56.750	1340.5	66.750	1485.5
6.875	65.3	16.875	259.7	26.875	524.6	36.875	820.8	46.875	1106.8	56.875	1343.0	66.875	1486.3
7.000	67.1	17.000	262.6	27.000	528.2	37.000	824.5	47.000	1110.1	57.000	1345.5	67.000	1487.2
7.125	69.0	17.125	265.6	27.125	531.8	37.125	828.2	47.125	1113.5	57.125	1348.0	67.125	1488.1
7.250	70.9	17.250	268.6	27.250	535.4	37.250	832.0	47.250	1116.8	57.250	1350.4	67.250	1488.9
7.375	72.7	17.375	271.6	27.375	539.0	37.375	835.7	47.375	1120.1	57.375	1352.8	67.375	1489.7
7.500	74.6	17.500	274.5	27.500	542.6	37.500	839.4	47.500	1123.4	57.500	1355.3	67.500	1490.6
7.625	76.5	17.625	277.6	27.625	546.2	37.625	843.2	47.625	1126.7	57.625	1357.7	67.625	1491.3
7.750	78.5	17.750	280.6	27.750	549.8	37.750	846.9	47.750	1130.0	57.750	1360.0	67.750	1492.1
7.875	80.4	17.875	283.6	27.875	553.5	37.875	850.6	47.875	1133.3	57.875	1362.4	67.875	1492.9
8.000	82.4	18.000	286.6	28.000	557.1	38.000	854.3	48.000	1136.6	58.000	1364.8	68.000	1493.7
8.125	84.4	18.125	289.7	28.125	560.7	38.125	857.9	48.125	1139.9	58.125	1367.1	68.125	1494.4
8.250	86.4	18.250	292.8	28.250	564.4	38.250	861.5	48.250	1143.1	58.250	1369.4	68.250	1495.1
8.375	88.4	18.375	295.8	28.375	568.0	38.375	865.2	48.375	1146.4	58.375	1371.8	68.375	1495.8
8.500	90.4	18.500	298.9	28.500	571.6	38.500	868.8	48.500	1149.6	58.500	1374.1	68.500	1496.6
8.625	92.5	18.625	302.0	28.625	575.3	38.625	872.4	48.625	1152.9	58.625	1376.4	68.625	1497.2
8.750	94.5	18.750	305.1	28.750	578.9	38.750	876.1	48.750	1156.1	58.750	1378.6	68.750	1497.9
8.875	96.6	18.875	308.2	28.875	582.6	38.875	879.8	48.875	1159.3	58.875	1380.9	68.875	1498.5
9.000	98.7	19.000	311.3	29.000	586.3	39.000	883.5	49.000	1162.5	59.000	1383.1	69.000	1499.2
9.125	100.8	19.125	314.5	29.125	589.9	39.125	887.2	49.125	1165.7	59.125	1385.3		
9.250	103.0	19.250	317.6	29.250	593.6	39.250	890.9	49.250	1168.9	59.250	1387.5		
9.375	105.1	19.375	320.8	29.375	597.3	39.375	894.6	49.375	1172.1	59.375	1389.7		
9.500	107.2	19.500	323.9	29.500	600.9	39.500	898.2	49.500	1175.2	59.500	1391.9		
9.625	109.4	19.625	327.1	29.625	604.6	39.625	901.9	49.625	1178.4	59.625	1394.1		
9.750	111.6	19.750	330.3	29.750	608.3	39.750	905.6	49.750	1181.5	59.750	1396.2		
9.875	113.8	19.875	333.5	29.875	612.0	39.875	909.2	49.875	1184.7	59.875	1398.3		

BOYANCY DESIGN		1250 S-A Tank
Materials		
Soil (dry)	(lbs/cf)	90.0
Void Ratio	%	28.00%
Water	(lbs/cf)	62.4
Saturated Soil	(lbs/cf)	107.5
Soil (net)	(lbs/cf)	72.5
Concrete	(lbs/cf)	150.0
Tank Data		
Tank Weight	(lbs)	590
Volume	(gal)	1499.2
Volume	(cf)	200.4
Diplaced Weight (assuming saturated conditions)	(lbs)	12506.7
Boyant Force (less manways)	(lbs)	12022.7
Tank Projected Area	(sf)	53.0
Cover reqired w/o Deadman	(in)	37.5
Deadman Data		
Deadman Weight	(lbs)	300
Deadman Area	(sf)	4.0
Deadman Burial Depth	(in)	75.0
Deadman Hold Down Force / each	(lbs)	2112.5
Number of Deadman	(ea)	4
Minimum Required Tank Covering	(in)	11.2

Recommended SYBR-AER Installation Check List	
Date:	Installer:
Permit:	Site Address:
Property ID:	Site City and State:

Item			Item		
Administrative Issues			**Excavation and Installation**	Yes	No
Permit On Site	Yes	No	Level Excavation	Yes	No
Site Protected from Traffic	Yes	No	Bedding Stone Used if rocks present	Yes	No
Benchmark and Baseline	Yes	No	Correct Excavation Elevation	Yes	No
			Level Installation	Yes	No
			Backfill is clean and friable and compacted	Yes	No
Electrical Installation			Grade runs away from access lids	Yes	No
Power Cords Run Through Fittings	Yes	No	Inlet and Outlet Pipes Connected	Yes	No
Watertight Wire Nuts Used	Yes	No	Treatment Tank Filled	Yes	No
Alarm Installed Per Code	Yes	No	Lid 2" Min. Above Grade	Yes	No
Alarm Tested and Functioning	Yes	No	**Internal Components**	Yes	No
			Blower Installed and Operating	Yes	No
Final			Airline drop legs Installed	Yes	No
Installation Conforms to Approved Plans	Yes	No	Pump and pump pipe Installed	Yes	No
			UV Light installed and operating (if present)	Yes	No
			Alarm Installed and Operating	Yes	No
			Lids Installed and Secured	Yes	No
			Service contact info provided	Yes	No
			Owner's manual left with property owner	Yes	No

Note: On the backside, make a sketch of the installation noting differences between the plan and actual installation.

Comments and Notes:

Service Policy

During your initial two-year warranty, an authorized service representative will inspect your unit at six- month intervals and make necessary adjustments to the system. The only exception is for the replacement of "out of warranty" and "physically abused" parts or abuse to the treatment and dispersal components and devices, such as pre-tanks, drain fields, pump station, and the like.

In the event a problem arises or service is required, refer to the unit's data plate (located on the alarm and access lid) or the service label for instructions on contacting your closest service provider. Occasional pumping is required, due to the accumulation of solids. The pumping cost may not be covered under your maintenance and service program. If you need parts or service, please contact the factory for the name of the service provider nearest you. The owner shall be notified in writing by the service provider about improper system operations that cannot be remedied at the time of the inspection

Before the initial two-year warranty expires, your service provider will notify you in writing, that an extended service agreement may be purchased. This extended service agreement will have terms, conditions, and limitations comparable to the initial agreement. If the service provider does not provide extended service agreements, the service provider will refer you to an authorized service provider who provides extended service agreements. You may also contact the factory for assistance in locating an authorized service provider.

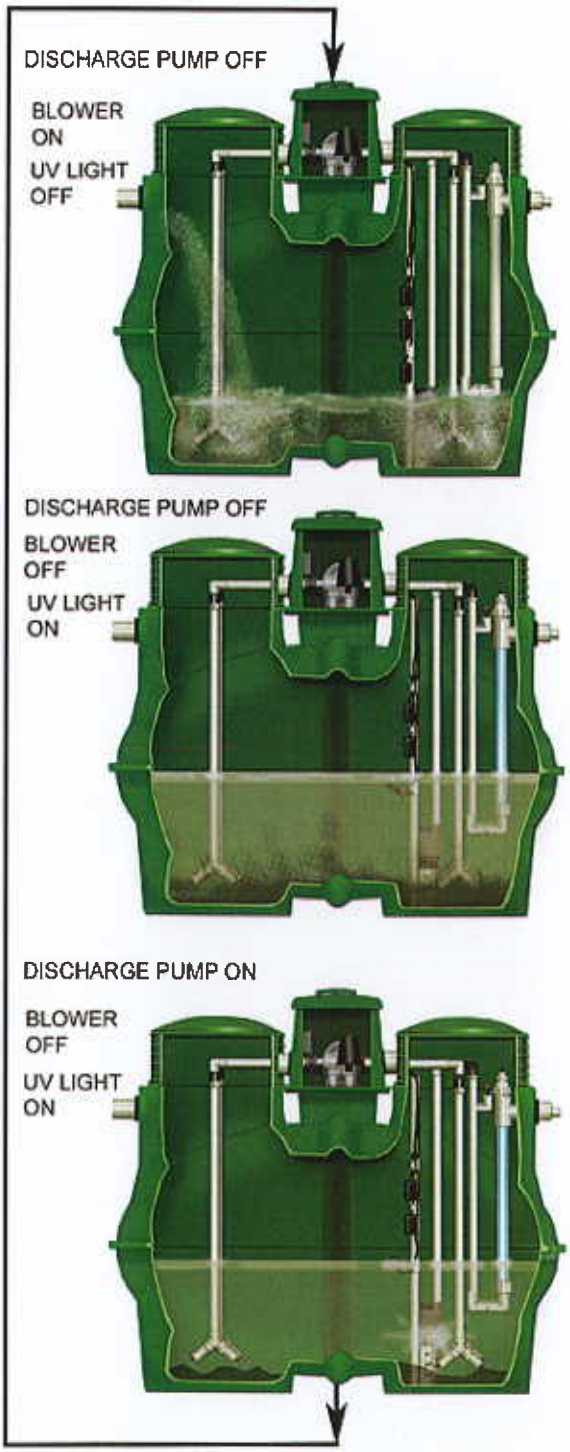
Items not covered under warranty that will generate service charges for your residential SYBR-AER wastewater treatment equipment.

1. Use of unauthorized component parts in your SYBR-AER unit.
2. Repairs made by other than factory trained and authorized personnel.
3. Failure to maintain proper electric power to the SYBR-AER unit.
4. High water alarms due to clear water discharges including, but not limited to, backwash from water treatment systems, water softeners, swimming pools, footing drain sump pumps, down spouts, hot tubs, dehumidifiers, air conditioners, and leaking plumbing fixtures.
5. Discharge into the SYBR-AER unit of non-biodegradable materials such as paints, grease, or any other materials that are toxic.
6. Emergency service calls for alarms due to items 1 thru 5 above in addition to the following:
   a. Water usage that exceeds the total daily flow for which your aerobic plant is rated
   b. The septic system becoming flooded during periods of heavy rainfall.

Listed above are some of the most common items that are not covered by warranty. Specific items not herein listed. Also, please note that the warranty covers parts only. Labor will be billed at the rate in effect at time of service.

NORMAL OPERATING CYCLE WITH UV

(Non UV same operation minus the UV)



AERATION CYCLE:

DURATION: 20 HOURS

NORMAL HOURS: 4:00 a.m.-12:00 p.m.

BLOWER: ON DISCHARGE PUMP OFF
UV: OFF

Description: Aerobic waste treatment occurs during the aeration cycle. Air from the diffusers keeps solids in suspension. This cycle is programmed to occur at normal times of highest water usage.

SETTLING CYCLE:

DURATION: 3 HOURS

NORMAL HOURS: 12:00 p.m.-3:00 a.m..

BLOWER: OFF DISCHARGE PUMP OFF
UV: ON

Description: Sludge settles to the bottom of the tank during this cycle. The settling cycle starts when the aeration cycle ends. The settling cycle is programmed to occur during normal times of lowest water usage. When the blower shuts off the UV light turns on.

PUMP OUT CYCLE:

MAXIMUM DURATION 1 HOUR

NORMAL START TIME: 3:00 a.m..

BLOWER: OFF DISCHARGE PUMP ON
UV: ON

Description: treated wastewater is pumped through the UV and out of the tank during the pump out cycle. The pump comes on at the end of the settling cycle and runs until the water level in the tank drops to a depth of 19inches from the bottom of the tank. At this depth a level switch stops the pump.

One hour after the start of the pump cycle, a new aeration cycle begins. The UV light turns off and the blower starts up again.. The entire process is repeated every 24 hours.