

OWNER'S MANUAL

ONSITE WASTEWATER TREATMENT SYSTEM

MODEL NUMBER

FTB – 0.5

FTB – 0.6

FTB – 0.75

FTB – 1.0

FTB – 1.5

MULTI-FLO

A Division of Consolidated Treatment Systems, Inc.

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THE *MULTI~FLO* SYSTEM

CONGRATULATIONS! You are the owner of a complete wastewater treatment system that combines aeration and filtration in one compact unit. Your system, which was designed and built by ***MULTI~FLO***, is tested and certified under National Sanitation Foundation ANSI/NSF Standard 40, as a Class I system. The ***MULTI~FLO*** system meets the needs for onsite wastewater treatment beyond the capabilities of septic tanks.

When properly maintained, you can expect your ***MULTI~FLO*** unit to treat domestic-strength wastewater to produce an effluent that is clear, odorless and solids-free.

HOW DOES THE *MULTI~FLO* OPERATES?

One of the many unique features of the ***MULTI~FLO*** is that the entire process takes place within a single tank. Wastewater flows into the tank. An aerator near the bottom draws air in and disperses it. This process transfers purifying oxygen throughout the system. The oxygen, which is dissolved in the water, provides an environment conducive to the growth of aerobic bacteria. These bacteria effectively consume the organic materials.

Another feature is the felted filter tubes, suspended in the tank, which support additional bacteria life for further treatment. Adding to this process is the circular motion, which assists in the cleansing of the filters. All water leaving the tank passes through the filters. All solids are retained in the system. There is no by-pass to permit organic waste to be discharged.

The result is CLEAR, ODORLESS, AND ENVIRONMENTALLY SAFE EFFLUENT!

IMPORTANT ITEMS TO REMEMBER

MULTI~FLO systems have an initial break-in period of 4-to-6 weeks, during which time bacteria establish themselves in the unit. The development of these biological colonies occur naturally with the addition of sanitary wastes, so we recommend you use all your plumbing facilities in a normal manner from initial start-up. You may notice a tendency for the unit to foam from laundry wastes during this period. This is normal, and it should cease by the sixth week. You can help by using moderate amounts of low-sudsing bio-degradeable detergents.

MULTI~FLO units are designed to treat domestic-strength wastewater and as such should not be expected to handle industrial-strength materials. The continuous addition of large amounts of cleaners, solvents, paints, greases, and oils etc., will only lead to a failure of the system and subsequent service calls. Storm drains and other surface waters should not be permitted to enter the system because they may overwhelm the unit and/or fill it with debris.

You will not be required to service or to maintain your **MULTI~FLO** unit; but there are a number of good habits you should develop and some you should avoid. The following of these simple rules will decrease or eliminate maintenance problems and prolong the life and efficiency of your unit.

- DO . . . Check that your unit's access lid is securely tightened down.
- DO . . . Check the alarm by pressing the button to activate the light and buzzer on the Audio Visual alarm.
- DO . . . Keep the surface water from ponding around the unit.
- DO . . . Call your service man at the first sign of trouble.
- DO . . . Follow your service man's advice. He is trained to ensure that your unit operates at its maximum efficiency.
- DO . . . Use low-sudsing, low phosphate bio-degradeable detergents.
- DO . . . Contact your authorized **MULTI~FLO** service representative if the system is to be used intermittently or if extended periods of non-use are anticipated.
- DO NOT . . . Put undisposables into your system. These may include but are not limited to: wet strength paper towels, disposable baby diapers, sanitary napkins, rubber and plastic products, rags, grit and coffee grounds.
- DO NOT . . . Place excessive amount of grease into your system. This will impair the operation of the system.
- DO NOT . . . Put solvents, paints, etc., in the drain. These could harm the bacteria and plug the filters.

- DO NOT . . . Disconnect or turn off your aerator – unless told to by your service representative.
- DO NOT . . . Attempt to service the unit yourself. This will void your warranty.
- DO NOT . . . Leave the unit operate for extended periods of no-flow, without contacting your service representative.

ALARM SYSTEM

Audio Visual Caution System

Every **MULTI~FLO** unit comes equipped with an audio-visual alarm system. This alarm should be mounted in a conspicuous location. If an abnormal condition develops, you will be alerted – AUDIBLY and VISUALLY – with a light and buzzer. Silence the buzzer by pressing the silence button on the alarm. If the light should stay on, call your service man.

There are several things you can watch for in determining the possible nature of the malfunction.

1. Is the alarm activated during a non-flow period, i.e., late at night, early morning? If so, then the probable cause is the aerator.
2. Is the alarm activated intermittently while washing clothes or taking a shower? If so, then you may have an impending filter failure. (1–2 weeks)

You should periodically check your alarm's circuitry by depressing the alarm test button and verify that the light and buzzer activate.

MAINTENANCE PROGRAM

YOUR **MULTI~FLO** UNIT REQUIRES PERIODIC SERVICING.

Maintenance of your **MULTI~FLO** to ensure its proper operation and longevity, so your **MULTI~FLO** unit comes with an initial maintenance policy offered by your servicing dealer.

An authorized service representative will inspect ...at six (6) month intervals and make any necessary adjustments on your unit at no cost to you. The only exception is for the replacement of “out of warranty” and “physically abused” parts, or abuse to the treatment process.

An annual service contract, based on the above requirement will be offered to you by your servicing dealer at the end of the period for the continuation of the service. Please contact your servicing dealer for further details.

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 representative. Occasional pumping is required, due to accumulation of solids. The pumping cost may not be covered by your dealer's maintenance and service program. If you should need parts or service, please contact the factory for the name of the dealer nearest you.

Your **MULTI~FLO** system is designed and intended to treat domestic-strength wastewater (i.e., human bodily waste and liquid waste generated by the occupants of dwellings). To insure optimum performance and longevity, do not discharge any type of non-residential wastewater or other high-strength waste, including commercial food service waste, without contacting the manufacturer to determine if this will be acceptable without additional treatment.

IMPORTANT: *MULTI~FLO units must be installed and maintained in compliance with all state and local laws and regulations. This includes compliance with all regulations concerning proper effluent disposal and the pumping and disposal of solids and byproducts pumped from the unit.*

MULTI~FLO WARRANTY DOES NOT COVER THE COST OF SERVICE CALLS, LABOR OR MATERIALS REQUIRED DUE TO THE FOLLOWING:

1. Misuse, “abuse,” or any repair or alteration performed by anyone other than authorized **MULTI~FLO** personnel
2. Use of components other than authorized **MULTI~FLO** replacement components.
3. Non-wastewater flows caused by infiltration, storm water connections, leakage from improperly maintained plumbing fixtures, water softener backwash, etc.
4. Failure to maintain electrical power to the treatment system in accordance with the requirements of the manufacturer (Consolidated Treatment Systems, Inc.) or the authorized **MULTI~FLO** service representative.
5. Disposal into the **MULTI~FLO** of non-biodegradable materials (i.e., plastics, coffee grounds, etc.) chemicals, solvents, grease, oil paint or any other type of non-domestic wastewater.
6. Short term or daily wastewater flows to the **MULTI~FLO** which exceed the plant’s hydraulic or organic design capabilities.
7. Any usage contrary to **MULTI~FLO** owner’s manual and/or the **MULTI~FLO** representatives recommendations. (Please refer to “Do’s and Do Not’s”).

WARRANTY

Consolidated Treatment Systems, Inc., warrants the parts in each aerobic treatment plant to be free from defects in material and workmanship for a period of two (2) years from date of installation for treatment of household wastewater when properly registered with the manufacturer. Consolidated Treatment Systems, Inc., sole obligation under this warranty is as follows: Consolidated Treatment Systems, Inc., shall fulfill this warranty by repairing or exchanging any component part, FOB Factory, that shows evidence of defects, provided said component part has been paid for and is returned through an authorized dealer, transportation prepaid. The warrantee must also notify Consolidated Treatment Systems, Inc., of the defect complained of. There is no informal dispute settlement mechanism available under this LIMITED WARRANTY.

No warranty is made as to the field performance of any plant. This LIMITED WARRANTY applies only to the parts manufactured by Consolidated Treatment Systems, Inc., does not include any portion of the household plumbing, drainage, or installation of disposal system. Components or accessories supplied by Consolidated Treatment Systems, Inc., but manufactured by others, are warranted only to the extent of and by the terms and conditions of the original manufacturer's warranty. In no event shall Consolidated Treatment Systems, Inc., be responsible for delay or damages of any kind or character resulting from, or caused directly or indirectly by, defective components or materials manufactured by others.

Recommendations for special applications will be based on the best available experience of Consolidated Treatment Systems, Inc., and published industry information. Such recommendations do not constitute a warranty of satisfactory performance.

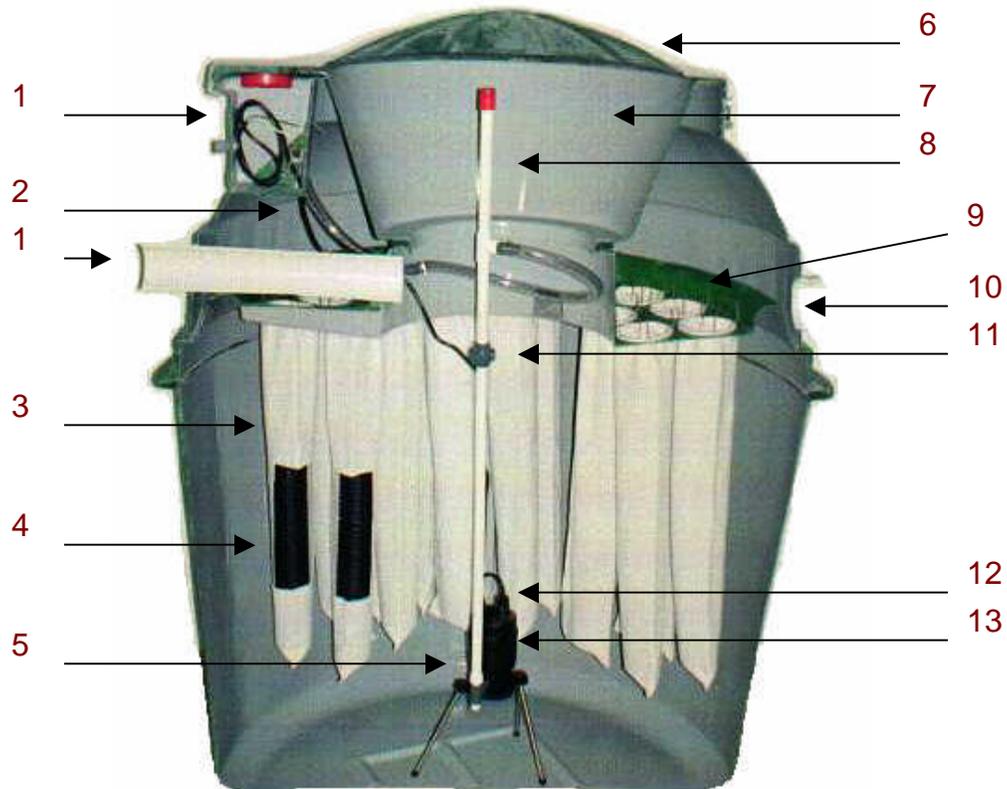
This LIMITED WARRANTY extends to the consumer of the product. As used herein, "consumer" is defined as the purchaser who first uses the plant or the subsequent user(s) for the 2 years after its initial installation. It is the first user's or servicing dealer's obligation to make known to the subsequent user(s) the terms and conditions of this warranty.

This warranty is a LIMITED WARRANTY and no claim of any nature shall be made against Consolidated Treatment Systems, Inc., unless and until the consumer, or his legal representative, notifies Consolidated Treatment Systems, Inc., in writing of the defect complained of and delivers the product and/or defective part(s), freight prepaid, to the factory or an authorized service station.

Consolidated Treatment Systems, Inc., reserves the right to revise, change, or modify the construction and design of the aerobic treatment plants for household wastewater, or any component part or parts thereof, without incurring any obligation to make such changes or modifications in equipment previously sold. Consolidated Treatment Systems, Inc., 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 CONSOLIDATED TREATMENT SYSTEMS, INC., BE RESPONSIBLE TO THE WARRANTEE FOR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST INCOME, LABOR CHANGES, DELAYS IN PRODUCTION AND/OR IDLE PRODUCTION, WHICH DAMAGES ARE CAUSED BY A DEFECT IN MATERIAL AND/OR WORKMANSHIP IN ITS PRODUCT OR PARTS SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS, AND OF ANY OTHER OBLIGATION ON THE PART OF CONSOLIDATED TREATMENT SYSTEMS, INC., SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIAL LEGAL RIGHTS AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.



Item	Part No.	Description	Qty.
1	A5037	Junction Box & Junction Box Cover	1
2	A9510	Air Tubing from sensor	1
3	A5025	Inlet Pipe	1
4	B5017	Filter	30
5	W49104L	Expander	30
6	A3016	Air Intake Assy.	1
7	A3008	Access Cover Assy.	1
8	A6517	Primary Alarm Sensor Assy.	1
9	A5029	Surge Bowl	1
10	A6002	Spring Ring Retainers	60
11	A5026	Outlet Pipe	1
12	A9516	3/4" Union	1
13	A6603-4	Aerator Power Cord	1
14	A10031	Aerator	1

MODEL SPECIFICATIONS

Item	FTB 0.5	FTB 0.6	FTB 0.75	FTB 1.0	FTB 1.5
Treatment (gal/day)	500	600	750	1000	1500
Volume (gal)	500	600	750	1000	1500
CBOD (lb/day)	1.5	1.5	1.5	3.0	4.5
Diameter (in)	63"	71"	71"	78"	135"x63"
Total Height (in)	86"	86"	90 ¾"	93"	86"
Grade to Inlet Invert (in)	17 ¾"	16 ½"	16"	14 ¾"	17 ¾"
Grade to Outlet Invert (in)	21"	20"	19 ½"	18 ½"	21"
Excavation Depth (in)	75 ¾"	74 ½"	78 ½"	82 ¾"	75 ¾"
No. of Aerators	1	1	1	2	3
No. of Filters	30	30	30	30	60
Shipping Weight (lb)	380	420	450	580	920
Inlet Invert* (in)	58"	58"	62 ½"	68"	58"
Outlet Invert* (in)	54 ¾"	54 ½"	59"	64 ¼"	54 ¾"

* From Bottom of Excavation – See Drawing

MULTI-FLO WASTEWATER SYSTEM SPECIFICATIONS

Wastewater Treatment (NSF Standard 40 Evaluation)

TEST RESULTS (Mean Results)	INFLUENT (mg/L)	EFFLUENT (mg/L)	REDUCTION (%)
CBOD ₅	150	5	97
TSS	195	5	98%

System Components and Materials

Wastewater Tank Dome and Cover:

- Fiberglass-Reinforced Resin

Aerator:

- Cast Iron, Stainless Steel, 1/6 HP 1550 RPM Motor With Thermal Overload Protection 120 Volt AC 60 HZ, 2.6 amps

Filter Tubes:

- Felted Polyester Cloth

Tube Expanders:

- Slotted and Drilled Polyethylene Pipe

Alarm System:

- Low voltage (12 volt DC) sensors signal to the control box. The flashing light (audible indicator) alerts the owner to loss of air supply or high water level in the tank.