

NOTES

1. Blower piping to FAST® may not exceed 100 FT [30.5m] total length and use 4 elbows maximum. For distances greater than 100 FT [30.5m] - consult factory. Blower must be located above flood/standing water levels on a concrete base.
2. Vent to be located above finish grade or higher to avoid infiltration. Cap with vent grate with at least **V2** sq in. of open surface area. Secure with stainless steel screws (see sheet 3 of 3 MicroFAST Details.)
or
Run vent to desired location and cover opening with vent grate with at least **V2** sq in. of open surface area. Secure with stainless steel screws. Vent piping must not allow excess moisture build up or back pressure.
3. All appurtenances to FAST® (e.g. tank pump outs, etc.) must conform to all country, state, province, and local plumbing and electrical codes. The blower control system is provided by Bio-Microbics, Inc.
4. Tank volume must be increased by 20% if **U MIN** is used between the unit and the base of the tank. Consult factory for approval.
5. The primary compartment may be a separate tank.
6. Either the influent pipe tee shall be fitted with a pipe cap or the baffle separating the two zones shall be extended to the top of the tank. If choosing to use the pipe cap, then the baffle shall be at least 3"[8] higher than the water level as shown on the drawing.
7. All inspection, viewing and pump out ports must be secured to prevent accidental or unauthorized access
8. Tank, anchors, piping, conduit, blower housing pad and vents are provided by others.
9. All piping and ancillary equipment installed after FAST® must not impede or restrict free flow of effluent.
10. No more than 4 FT [1.2 m] of fill may be placed over unit lid. Refer to installation manual for more details.
11. See sheet 2 of 3 for required dimensions.
12. **H1 Min** Height may be reduced, consult factory and reference "Short-FASTModule-Procedure.pdf."

DO NOT SCALE				State 0.5-1.5 FAST Units
UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]				
WEIGHT	lb	SIZE	DRAWING NUMBER	
		A	MicroFAST® with feet	
DRAWN	CTC	DATE	12/18/2006	
CHECKED	PF	DATE	4/20/2012	REVISED 4/20/2012
			REV.	INI-04-V

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BIO-MICROBICS © 2010 SHEET 2 OF 4

Unit Size	A MIN	B MIN	V1 Dia. MIN	V2 MIN	L1	L2	L3	W1 MIN	W2	W3	H1 MIN
0.50	Refer to State tank requirements for minimum volumes.		3"	7.1 in sq	59.5"	54"	29.75"	31.25"	25"	15.125"	16.375"
0.625			3"	7.1 in sq	60"	54"	31.5"	44.25"	37"	21.5"	16.375"
0.75			3"	7.1 in sq	60"	54"	31.5"	44.25"	37"	21.5"	16.375"
0.90			3"	7.1 in sq	59"	54"	31.25"	54.5"	49"	26.625"	16.375"
1.50			4"	9 in sq	83.5"	75.75"	42.875"	55.75"	49"	27.625"	16.25"

A MIN	Settling Zone (MIN Liquid Capacity)
B MIN	FAST @ Chamber (MIN Liquid Capacity)
V1 MIN	Vent Diameter (MIN)
V2 MIN	Vent grate open area (MIN).
L1	FAST@ Length and MIN Tank Length
L2	Length of tank opening for hanging FAST@
L3	FAST@ Length from edge of liner to center of airline.
W1 MIN	FAST@ MIN Tank Width.
W2	Width of tank opening for hanging FAST@.
W3	FAST@ Width from edge of liner to center of airline.
H1 MIN	Clearance from center of outlet to (inside) top of tank.

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(CENTIMETERS)
TOLERANCES
± 0.02 IN/IN
[± 0.05 CM/CM]



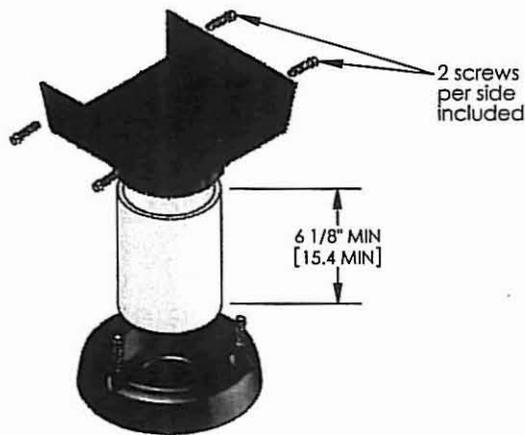
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WEIGHT	lb	SIZE	DRAWING NUMBER	SHEET 3 OF 4
NAME	DATE	A	Chart	
DRAWN CTC	12/18/2006			
CHECKED PF	1/6/2012		REVISED 1/6/2012	REV. INI-04-V

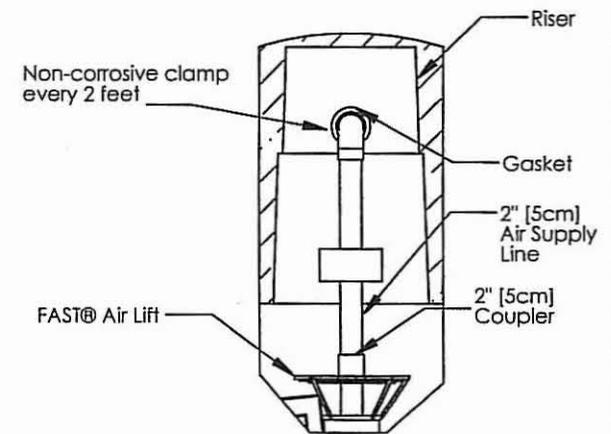
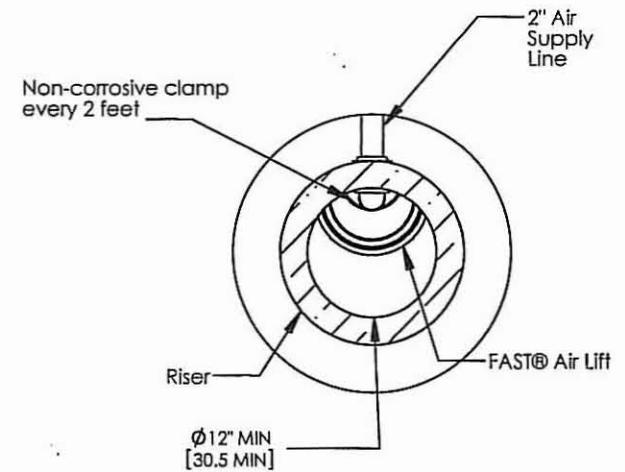
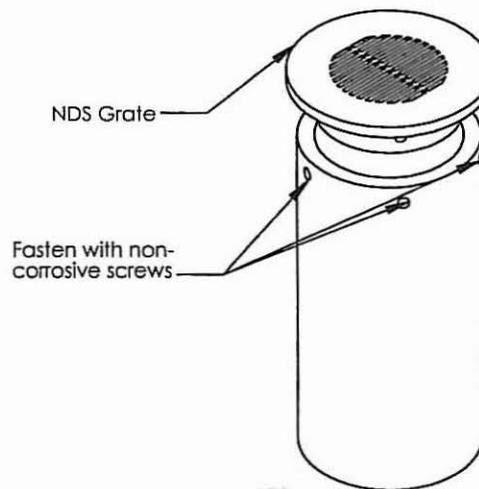
Notes

1. Secure leg extension to the FAST® unit by placing two screws on each side of the leg extension (4 screws per foot are included).
2. Cut 4" schd. 40 PVC pipe (not included) to obtain the desired height. Minimum pipe length of 6 1/8" [15.56cm]; Original leg extension height requires a pipe length of 11 1/8" [28.26cm]. For heights greater than 18" [45.7cm] use schd. 80 PVC pipe (not included). Consult factory for extending leg beyond 36" [9cm].
3. Anchor the leg extensions to the tank with non-corrosive hardware (not included) at the provided mounting points.
4. The air supply line into the FAST® unit must be secured so as to prevent damage from pipe vibration.
5. The air supply line into the FAST® unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2' MIN.
6. Tank, anchors, piping conduit, blower housing pad, and tank vents are provided by others.

Minimum leg extension assembly
see note 4



FAST® Vent
Option



Alternate Air Supply Option

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DIMENSIONS
ARE IN INCHES
[CENTIMETERS]
TOLERANCES
± 0.02 IN/IN
[± 0.05 CM/CM]

BIO-MICROBICS[®]
INCORPORATED

State 0.5-1.5 FAST Units

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WEIGHT	lb	SIZE	DRAWING NUMBER	SHEET 4 OF 4
		A	MicroFAST® Details	
DRAWN	CTC	12/18/2006		
CHECKED	PF	4/20/2012	REVISED 4/20/2012	REV. INI-04-V