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 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” [9] 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 [1.2m] of fill may be placed over unit lid. Refer to Installation manual for more details.

11. See sheet 2 of 3 for required dimensions.
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.

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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-FAST Module Procedure.pdf"
<table>
<thead>
<tr>
<th>Unit Size</th>
<th>A MIN</th>
<th>B MIN</th>
<th>V1 Dia. MIN</th>
<th>V2 MIN</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>W1 MIN</th>
<th>W2</th>
<th>W3</th>
<th>H1 MIN</th>
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<tbody>
<tr>
<td>0.50</td>
<td></td>
<td></td>
<td>3&quot;</td>
<td>7.1 in sq</td>
<td>59.5&quot;</td>
<td>54&quot;</td>
<td>29.75&quot;</td>
<td>31.25&quot;</td>
<td>25&quot;</td>
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<tr>
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<td>7.1 in sq</td>
<td>60&quot;</td>
<td>54&quot;</td>
<td>31.5&quot;</td>
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<td>27.625&quot;</td>
<td>16.25&quot;</td>
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</table>

**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.
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

NDS Grate

Fasten with non-corrosive screws

Alternate Air Supply Option

2" [5cm] Air Supply Line

Non-corrosive clamp every 2 feet

Riser

Gasket

2" [5cm] Coupler
Virginia Tank Sizes for Different Effluent Qualities

<table>
<thead>
<tr>
<th>MicroFAST Model Size</th>
<th>GMP 147 (TL3)</th>
<th>Secondary Effluent (TL2)</th>
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<tr>
<td></td>
<td>Maximum Flow</td>
<td>Settling Zone Gallons</td>
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<tr>
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<tr>
<td>1.50</td>
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</tbody>
</table>

See Note 1

Notes:

1. For flows >900 gpd and ≤1,000 gpd, the 1.5 unit is to be used and is Generally Approved for both TL2 and TL3 effluent quality.

2. All tank volumes listed above are minimum volumes of the liquid capacity of the tank. The tank volumes listed for the Settling and Treatment Zone may be two compartment tanks or two separate tanks if used for BOD/TSS reduction only. If total nitrogen reduction is required, then the tanks must be two compartment tanks.