

## EnviroServer® ES Installation Summary Guide

This form is used to help facilitate a smooth installation of all EnviroServer ES models in installations that do not require traffic rating. Use this in conjunction with all plans, permits and the Installation Manual.

### Items Delivered:

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> <b>Model ES6</b><br>1 – Fiberglass Tank: 1,650 lbs<br>6' dia x 15'L*<br>5 – Boxes for system components | <input type="checkbox"/> <b>Model ES12</b><br>1 – Fiberglass Tank: 2,000 lbs<br>6' dia x 21'5"L*<br>8 – Boxes for system components | <input type="checkbox"/> <b>Model ES25</b><br>1 – Fiberglass Tank: 3,000 lbs<br>8' dia x 25'2"L*<br>12 – Boxes for system components |
|--|---|--|

**NOTE:** Additional boxes may be included for optional hardware. Check for damage upon receipt; MicroSepTec will not be responsible for any lost or damaged items once received. A packing slip is enclosed with each shipment.

\*Dimension does not include ribs, midseam flange or manways

### Excavation Requirements:

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> <b>Model ES6</b><br>9'6"D x 8'6"W x 17'6"L<br>Inlet: 64" to bottom of tank**<br>Outlet: 56" to bottom of tank**<br>Backfill: 28 yds. (approx.) | <input type="checkbox"/> <b>Model ES12</b><br>9'6"D x 8'6"W x 24'L<br>Inlet: 64" to bottom of tank**<br>Outlet: 56" to bottom of tank**<br>Backfill: 36 yds. (approx.) | <input type="checkbox"/> <b>Model ES25</b><br>11'6"D x 10'6"W x 28'L<br>Inlet: 88" to bottom of tank**<br>Outlet: 80" to bottom of tank**<br>Backfill: 62 yds. (approx.) |
|---|--|--|

**NOTE:** Excavation requirements based on standard installations, and include primary backfill material to cover the top of the tank. Traffic-rated installations require larger excavation and more backfill material. **All tanks must be set level.** Riser height is adjustable and extensions are available, but not recommended.

\*\*Measurements do not include rib under tank. If the rib does not settle into gravel, allow an additional 3" for in/outlet heights

### Additional Requirements:

#### POWER:

No-Pump system:	115 VAC, 15 Amp GFI
Pumped system:	115 VAC, 30 Amp GFI
Two-Pump system:	115 VAC, 40 Amp GFI
Three-Pump system:	115 VAC, 50 Amp GFI

Compressors may be powered through controller or by any GFI outlet.

#### CONDUIT:

System Configuration A or B (default):	1" conduit from controller to third riser
System Configuration C:	1" conduit from controller to remote relay box, and 1 ½" conduit from remote relay box to third riser

#### PIPE:

Inlet:	4" ABS
Outlet:	4" ABS or as required (cap 4" outlet if pressure discharge used)
Compressor plumbing:	1" Schedule 80 PVC from each compressor to middle riser

#### COMPRESSOR LOCATION:

- Compressors should be located in a well-ventilated, shady place. An indoor location like a shed or garage is ideal.
- Compressors must be elevated so that surface water cannot enter the electrical terminals within the compressor.
- Compressors should be located as close to the tank as possible; do not exceed 50' distance from tank.
- 1" Schedule 80 PVC pipe is required for plumbing the compressors to the middle riser, one pipe per compressor. The pipe must fall toward the tank with no low points.
- Compressors must be located at the same elevation or higher than the lid of the middle riser.

#### VENTING:

Under normal circumstances, the system will vent back through the sewer venting system for the structure. However, when a pumping system (e.g. lift station) is used to move waste to the EnviroServer, additional venting should be installed. The vent should use 4" pipe from the middle riser and should include a minimum of 5' of pipe (to prevent condensation from collecting), with fall toward the tank. The outlet should be capped with a carbon filter. Refer to installation instructions for carbon filter regarding placement, cover, etc.

#### PHONE (if equipped with telemetry option):

Analog (not digital or voice over IP), direct (not through a central phone system), featureless (no call-waiting, voicemail, etc.) with long distance carrier (capable of dialing 949 area code)