

# 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

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.

### ES4.5

1 – Fiberglass Tank: 1,500 lbs.  
 3 – 24" Lids  
 1 – Effluent Filter  
 3 – Boxes Biomedia  
 3 – Boxes Components (min.)

### ES6

1 – Fiberglass Tank: 1,575 lbs.  
 3 – 24" Lids  
 1 – Effluent Filter  
 4 – Boxes Biomedia  
 3 – Boxes Components (min.)

### ES7.5

1 – Fiberglass Tank: 1,650 lbs.  
 3 – 24" Lids  
 1 – Effluent Filter  
 6 – Boxes Biomedia  
 3 – Boxes Components (min.)

### ES12

1 – Fiberglass Tank: 2,000 lbs.  
 3 – 24" Lids  
 1 – Effluent Filter  
 8 – Boxes Biomedia  
 3 – Boxes Components (min.)

### ES25

1 – Fiberglass Tank: 3,000 lbs.  
 3 – 24" Lids  
 1 – Effluent Filter  
 16 – Boxes Biomedia  
 3 – Boxes Components (min.)

## Excavation Requirements

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. Maximum depth 4' to top of tank. Dimensions do not include ribs, mid-seam flange or man-ways

ES Model	Treatment Capacity <sup>1</sup> (Gallons Per Day)	Liquid Capacity (Gallons)	Dimensions (D X W)	Bottom of Inlet	Bottom of Outlet	Minimum Excavation Length	Minimum Excavation Width	Minimum Excavation Depth	Primary Backfill Material (Approx)
ES4.5	450	1,500	5' X 13' 6"	52"	46"	15' 6"	7'	8'	19 YDS
ES6	600	2,000	5' X 16' 4"	52"	46"	18' 4"	7'	8'	25 YDS
ES7.5	750	2,500	6' X 15'	64"	56"	17'	8'	9'	25 YDS
ES12	1,200	3,650	6' X 21' 5"	64"	56"	23' 5"	8'	9'	38 YDS
ES25	2,500	7,500	8' X 24' 10"	88"	80"	26' 10"	10'	11'	62 YDS

## Additional Requirements

### Power:

Gravity System 1 Circuit: 115VAC, 15AMP GFI  
 Pumped Discharge 2 Circuits: 115VAC, 15 AMP for PLC; 115VAC 30 AMP GFI for Discharge Pumps  
 Compressor may be powered through Alarm Control Panel or through separate GFI outlet  
 A network Cable should be run from the router to the Alarm Control Panel if the system has the Telemetry Option

### Pipe:

Inlet 4" ABS  
 Gravity outlet 4" ABS  
 Pumped discharge As required (cap 4" outlet with 4" ABS cap)  
 Compressor 1" Sch 80 PVC from Compressor to middle riser  
 Conduit 1" PVC Electrical Conduit from Alarm Control Panel to third riser

### Compressor Location:

Compressors should be located in a well-ventilated, shady place. An indoor location like a shed or garage is ideal, and should be assessable for service.  
 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.  
 Compressors must be located at the same elevation or higher than the lid of the middle riser with no low point between compressor and 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.