

SeptiTech®

a subsidiary of Bio-Microbics, Inc.

SeptiTech Sizing Information

For Residential Flows Serving up to 8-bedrooms

SeptiTech Standard Residential Models STAAR .5, STAAR .75 & STAAR 1.0

Desired Treatment Capacity	Standard Model (Concrete or Plastic)	Models with Ultraviolet Disinfection	Models with Denitrification	Processor Tank Volume	Number of Access Ports	Discharge Head (Standard)	Recommended 2-Compartment Septic Tank with Filter (Preceding Processor)
Up to 4 bedrooms / 500gpd	STAAR .5	STAAR .5UV	STAAR .5D	1,000-gallons	2	14-feet @ 25gpm	1000-gallons (or State code)
Up to 6 bedrooms / 750gpd	STAAR .75	STAAR .75UV	STAAR .75D	1,250-gallons	2	14-feet @ 25 gpm	1,500-gallons (or State code)
Up to 8 bedrooms / 1000gpd	STAAR 1.0	STAAR 1.0UV	STAAR 1.0D	1,500-gallons	2	14-feet @ 25 gpm	1,500-gallons (or State code)

For Commercial System Flows up to 4,500 gpd

SeptiTech Standard Commercial Models STAAR 1.2, STAAR 1.5, STAAR 3.0 & STAAR 4.5 (Concrete)

Hydraulic Capacity (gal/day)	Standard Model	Models with Ultraviolet Disinfection	Models with Denitrification	Processor Tank Volume	Number of Access Ports	Discharge Head (Standard)	Recommended 2-Compartment Septic Tank with Filter (Preceding Processor)
1,200 (nominal)	STAAR 1.2	STAAR 1.2UV	STAAR 1.2D	2,000-gallons	3	14-feet@ 25-gpm	1000-gallons (or State code)
1,500 (nominal)	STAAR 1.5	STAAR 1.5UV	STAAR 1.5D	4,000-gallons	3	14-feet@ 25-gpm	1,500-gallons (or State code)
3,000 (nominal)	STAAR 3.0	STAAR 3.0UV	STAAR 3.0D	6,000 – gallons	3	14-feet@ 25-gpm	1,500 – gallons (or State Code)
4,500 (nominal)	STAAR 4.5	STAAR 4.5UV	STAAR 4.5D	8,000-gallons	3	14-feet@ 25-gpm	1,500-gallons (or State code)

For Commercial System Flows Over 4,500 gpd Systems Requiring Special Considerations (i.e. high strength) SeptiTech Engineered Systems

Please contact SeptiTech's Engineering staff for consultation. System specifications and quotes promptly available.

Other Sizing / Specifying Considerations:

- Commercial denitrification units require a 2-compartment denite septic tank sized according SeptiTech specifications. Please contact a SeptiTech representative for assistance.
- For all SeptiTech systems, H-10 is standard tank loading configuration. Contact your precaster for H-20 tanks.
- For design assistance, please have available a minimum of the following data:

- a. Application (e.g. school, apartment, restaurant, subdivision etc.)
- b. Design flow data
- c. Discharge flow and pressure (e.g. total dynamic head, pressure required for leaching system)
- d. Effluent quality limits including organic, solids, nutrients and bacterial removals
- e. Available power
- f. Water table elevation (requirements for tank anti-floatation)
- g. Features required including but not limited to control panel heaters, telemetry
- h. Type of usage (seasonal / year-round)

4. Please consult discharge pump curves for discharge pump requirements other than SeptiTech standard discharge models. SeptiTech Engineering can provide assistance.