



Eco-Pure Septic Tank Structural Testing and Storage Verification

All of the Eco-Pure tanks have passed vacuum test and water-tightness tank as required by the Florida Department of Health.

Florida Department of Health Vacuum Test Requirements

	Test R	Require for	ment	s				
	Struct	ural Pro	oofin	g				
	Category 3 = Satu	ırated soil-r	umpino	1				
		Category 4 = Saturated soil-pumping						
			Cat 3	Cat 4				
	Tank soil cover	r (inches) =	0-18"	18" - 48"				
	effective depth (inches	s)= 30	40	50	60	70	80	90
ACUUM REQUIRED-II	NCHES OF WATER:-chart 1							
	Category 3	38.0	43.0	47.9	52.9	57.9	62.8	67.8
	Category 4	73.3	78.2	83.2	88.2	93.1	98.1	103.0
ACUUM REQUIRED-II	NCHES OF MERCURY:-char	<u>t 2</u>						
	Category 3	2.8	3.2	3.5	3.9	4.3	4.6	5.0
	Category 4	5.4	5.8	6.1	6.5	6.9	7.2	7.6
	Category 4							
NATER STANDPIPE (I	HYDROSATIC HEAD) REQU	IRED-INCHE	S OF W	ATER:-cha	ırt 3			
VATER STANDPIPE (I		19.7	S OF W 19.9	ATER:-cha	<u>20.4</u>	20.6	20.8	21.1



1,250 Gallon Tank Under Vacuum (33" of Water)

Florida Administrative Code 64-E, November 26, 2006

- (c) Design and testing of fiberglass and polyethylene treatment receptacles:
- 1. Vacuum testing shall be conducted in accordance with the department's policy for Test Requirements for Structural Proofing. The vacuum test shall be followed by a water-tightness test.
- 2. Vacuum testing shall demonstrate a distortion of volume of no more than 1% at a safety factor of 1.0 and 2% at a safety value of 1.4 followed by passing a water-tightness test to be considered satisfactory. To determine the vacuum at a 1.0 safety factor, divide the required total vacuum values by 1.4. There shall be no distortion of the access hatch perimeters at the full vacuum load and the access hatch must be able to be removed and reinstalled at the conclusion of the test.
- 3. Water-tightness testing shall be performed as follows: Fill the receptacle with water to the invert of the outlet. The receptacle is approved as water tight if the water level is held for one hour.
- (d) Testing shall be conducted in the presence of an engineer licensed in the state of Florida, or by an employee of the department that has been authorized by the State Health Office to perform or witness receptacle testing. Test results shall be certified by the witnessing engineer or department employee.



1,250 Gallon Tank Under Vacuum (44.50" of Water)

The deflection point is a molded feature of the tank to allow for the inserting of the baffle making a two-compartment tank.

This point has does not effect the structural integrity of the tank whatsoever.

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Vacuum and Water-tightness Testing Results

1,250 Gallon	Tank Vacuum	Test Results,	Length Deflec	tion			
Tank	Vacuum	Tank	Deflection	Deflection	Tank	Total	Deflection
Number	Required	Circumference	Allowance	Allowance	Circumference	Length	%
	Category 3	Length	5%	2%	Length	Deflection	Category
	Designation	(inches)	(inches)	(inches)	Category 3	Category	3
	Inches of	Before	2004	2007	Vacuum	3	Vacuum
	Water in	Vacuum	Requirement	Requirement	Applied	Vacuum	(inches)
	Manometer	(inches)			(inches)	(inches)	
1	44.50	341.50	17.08	6.83	339.25	2.25	0.66%
2	44.50	341.38	17.07	6.83	338.75	2.63	0.77%
3	44.50	343.38	17.17	6.87	340.38	3.00	0.87%
,250 Gallon	Tank Vacuum	Test Results,	Deflection				
Tank	Vacuum	Tank	Deflection	Deflection	Tank	Total	Deflection
Number	Required	Circumference	Allowance	Allowance	Circumference	Height	%
	Category 3	Height	5%	2%	Height	Deflection	Category
	Designation	Before	(inches)	(inches)	Category 3	Category	3
	Inches of	Vacuum	2004	2007	Vacuum	3	Vacuum
	Water in	(inches)	Requirement	Requirement	Applied	Vacuum	(inches)
	Manometer				(inches)	(inches)	
1	44.50	216.50	10.83	4.33	215.94	0.56	0.26%
2	44.50	217.38	10.87	4.35	217.25	0.13	0.06%
3	44.50	217.88	10.89	4.36	217.38	0.50	0.23%
co-Pure Se	eptic Tank V	olume and Ai	r Space Veri	fication Tes	t		
Model	Rated	Space	Total	Volume	Total	Air	Air
Number	Size	Required	Gallons	43"	Tank	Space	Space
	Tank	15%	Required	Effective	Volume	Provided	Provided
	(Gallons)	(Gallons)		Depth		(Gallons)	%
				(Gallons)			
EPAST-123	1,050	157.50	1,207.50	1,110.00	1,290.00	180.00	17.14%
EPAST-124	1,250	187.50	1,437.50	1,250.00	1,460.00	210.00	16.80%



Design Procedures

Please refer to your state and/or local onsite wastewater treatment and disposal regulations for details pertaining to your systems design, installation and maintenance requirements.

Warranty

Eco-Pure. Inc. warrants the Pump and Septic Tanks against material defects and workmanship for a period of five years from the date of installation. This warranty is only valid for the purchaser of the product. The following will be excluded from warranty coverage: any damage caused by an Act of God such as floods, earthquakes etc., damage caused the users or third parties such as any modification or installation practice not authorized by Eco-Pure, Inc., any damage by heavy vehicles such as cars, trucks, etc. This warranty does not cover direct or indirect consequential damage due in part or in full of Eco-Pure, Inc., it's materials, or their workmanship.



Patent #: US D492,000S

EPSTSTS (1/10)