



INFILTRATOR
water technologies

Florida Vacuum Testing

Infiltrator Tank Vacuum Testing Instructions For Florida

Vacuum Test Kit Assembly Images



Vacuum Test Lid



Portable compressor



Portable
Venturi valve kit



Portable compressor
Venturi valve assembly



Location of
serial number

⚠ WARNING

IMPLOSIONS MAY CAUSE SERIOUS INJURY

Follow Infiltrator tank vacuum test instructions
NEVER EXCEED 2.5 inches mercury vacuum pressure

WARNING: Vacuum tests on the Infiltrator tank shall only be performed in strict accordance with Infiltrator Tank Vacuum Test Instructions for Florida. Failure to follow an Infiltrator vacuum-testing protocol and/or exceeding 2.5 inches (63 mm) of mercury vacuum pressure could result in personal harm. Never apply a positive air pressure to the tank. Infiltrator will not be liable for any problems that arise from such unauthorized use.

Procedure (per ASTM D1227-98):

1. Do not vacuum test tanks when the tank body temperature exceeds the ambient air temperature (temperature outside of direct sunlight). Elevated tank body temperature is most likely to result from the tank being located in direct sunlight. This can cause the tank body temperature to exceed 150 degrees Fahrenheit. To control tank body temperature for vacuum testing, store the tank out of direct sunlight (e.g., shady area, under a roof, etc.) prior to testing. If the tank temperature exceeds the air temperature outside of direct sunlight, allow the tank to cool to air temperature prior to conducting a vacuum test.



2

2. Install lid(s) and ensure lid(s) are aligned properly on indexing tabs.

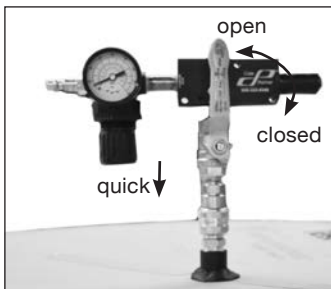
3. Connect Venturi vacuum pump assembly to fully charged compressor. Verify pressure regulator gauge reads 70 psi. Adjust regulator setting if necessary. Disconnect Venturi vacuum pump assembly once the check is complete.



3

4. Connect Venturi vacuum pump assembly to Infiltrator Vacuum Test Lid by pressing down.

NOTE: Valve in open position



4

5. Connect pressure gauge to the lid. Ensure gauge reads zero. Adjust as needed.



5

6. Place weight (sandbag/dumbbell weights) on lid(s). Recommended minimum 50 lbs.



6

7. Connect compressor to Venturi vacuum pump assembly using compressor hose.

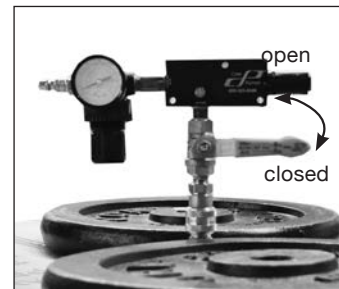
NOTE: Compressor must be on and charged prior to connection. Once compressor is connected you will hear air passing through the unit. Depending upon compressor size, you should expect approximately 10 minutes to come up to pressure inside the tank.



7

8. When pressure gauge reads 2.5 inches of mercury, close valve and disconnect the air hose from the compressor.

NOTE: Expect an initial air bleed (pressure drop) when valve closes.



8

9. Monitor pressure gauge for 5 minutes. The testing requirement allows for a maximum of 10% bleed off. The pressure reading must be documented at 5 minutes to verify that the reading is above 2.25 inches of mercury. If the reading is 2.25 inches of mercury or greater, the test is a pass.

NOTE: If tank falls below 2.25 inches of mercury attempt to better seal the lid by redistributing the weight or adding more weight. Restart test from Step 7.

NOTE: Notify Infiltrator if the tank fails the test. Failed tanks shall not be sold or used.



9

10. Open valve on the Venturi allowing the pressure to release. Allow pressure to fall gradually (should take approximately 5 minutes).

NOTE: Do not remove pressure gauge until valve reads zero.

NOTE: Do not pry lids off, doing so could damage lids or tank.

NOTE: Do not leave unattended.

11. Record testing results on the Florida Assembly Log for the model tank that was tested.

NOTE: The serial number for the tank is a 10-digit number found on the outlet end wall of the tank at the mid seam. (See photo on page 1.)



Infiltrator IM- and CM-Series Tanks: Florida Assembly Log

Company Name: _____

Location: _____

Vacuum Testing Frequency: The State of Florida allows vacuum testing of Infiltrator tanks at a frequency of 1 tank per 10 tanks assembled for the IM-540, IM-1060, and CM-1060 tanks and 1 tank per 7 tanks assembled for IM-1530 tanks. This approval requires assemblers to record visual inspection data for 100% of the tanks assembled and submit all Assembly Logs to Infiltrator.

Instructions: For every tank assembled, record all information on this Assembly Log in clear, legible writing. Record results for all gasket and tank body visual inspection (100% frequency) and watertightness testing (1 in 10 frequency for IM-540, IM-1060, and CM-1060 tanks and 1 in 7 frequency for IM-1530 tanks) performed, even if more than one test is conducted. For any failing visual inspection or vacuum test:

- 1) Record the result.
- 2) Describe the reason for failure in the "Comments" section at the bottom of the form.
- 3) Record the retest/re-inspection results after

corrective action has been taken in the next row on the Assembly Log.

- 4) Check the "Yes" box in the "Retest/Re-inspection" column.
- 5) Visually inspect and vacuum test all remaining tanks on the pallet having a tank with a failing result.

If any tank fails vacuum testing or visual inspection, contact Infiltrator. Separate any problem tank from saleable inventory and contact Infiltrator for further instructions.

For each pallet of IM or CM tanks, fax the completed log sheet to 860-577-7793, "Attn: Gov. Affairs". Infiltrator reports results to the State of

No.	Tank Serial Number (must record both halves)	Tank Model				Compartments		Date Assembled	Assembler Initials	Gasket Visual Inspection (100% frequency)		Tank Body Visual Inspection (100% frequency)		Vacuum Test Results			Retest/ Re-inspection	
		IM-540	IM-1060	CM-1060	IM-1530	Single	Dual			Pass	Fail	Pass	Fail	Not Required	Pass	Fail	Yes	No
1	Top							/	/									
	Bottom																	
2	Top							/	/									
	Bottom																	
3	Top							/	/									
	Bottom																	
4	Top							/	/									
	Bottom																	
5	Top							/	/									
	Bottom																	
6	Top							/	/									
	Bottom																	
7	Top							/	/									
	Bottom																	
8	Top							/	/									
	Bottom																	
9	Top							/	/									
	Bottom																	

IM17-FL 0621

Comments (provide the tank numbers for which comments apply): _____



4 Business Park Road
P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • Fax 860-577-7001
1-800-221-4436
www.infiltratorwater.com
info@infiltratorwater.com

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Contact Infiltrator's Technical Services Department for assistance at 1-800-221-4436