

GREEN MACHINE™

Vapor Processor & Remote Monitoring Service



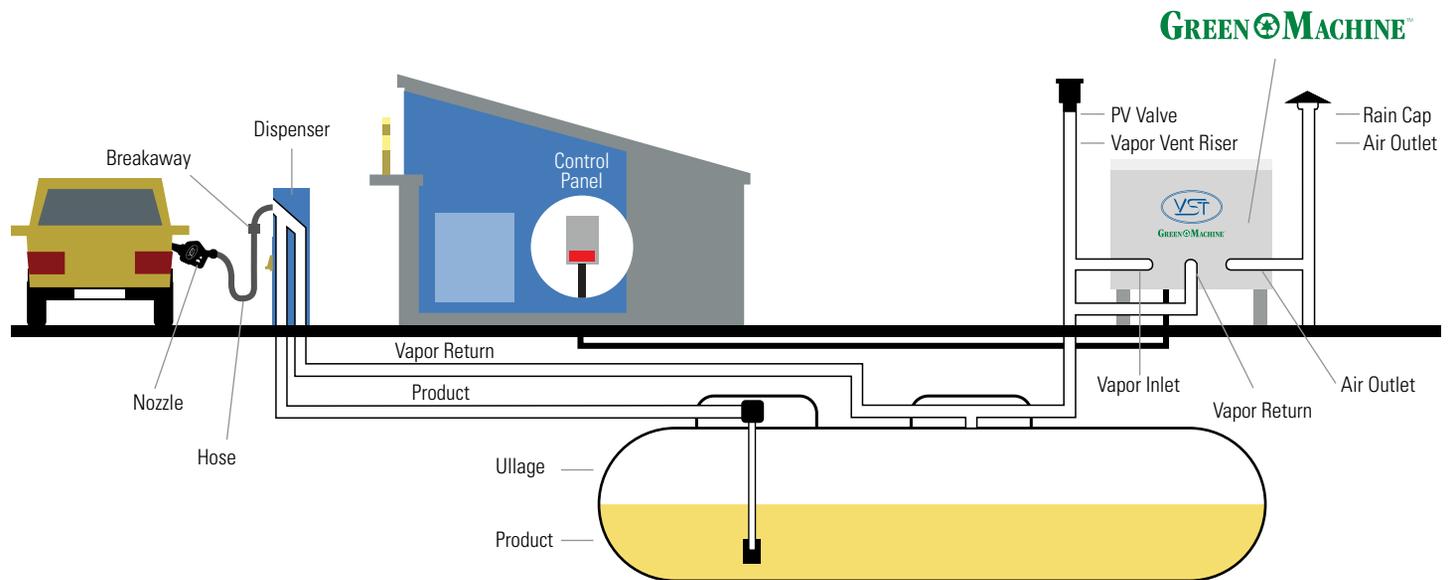
Capture, Control & Monitor Fugitive Emission Losses
To Improve the Environment & Save Money



Vapor Systems Technologies, Inc.



Pressure Management System Operation



What Is It and How It Works

- The GREEN MACHINE™ pressure management system continuously monitors and controls the Underground Storage Tank (UST) pressure
- Includes a Vapor Processor and Control Panel
- Control Panel initiates the processor run cycle when the UST pressure exceeds +0.2 IWC
- Vapor Processor pulls the hydrocarbon vapors/air mixture in, separates Volatile Organic Compound (VOC) vapors and air, releases clean air to atmosphere, and returns saturated VOC vapors to the UST
- Run cycles continue until the UST pressure is less than +0.2 IWC
- Optional Remote Monitoring Service (RMS) is available 24/7/365 with monthly reports

System Benefits

- May be installed at any Stage II or Non-Stage II (conventional) gasoline dispensing facility (GDF)
- Capable of detecting if a GDF is tight or leaking
- Reduces harmful VOC vapor releases at GDF
- Slows the UST evaporation loss of valuable product during fuel drops
- Low-cost installation
- Small footprint
- Flexible mounting options

Control Panel & Remote Monitoring Service

What Is It and How It Works

- Control Panel is located in the GDF building or kiosk near the tank gauge
- Automatically turns the Vapor Processor on and off to control UST tank pressure within design pressure ranges
- Notifies of alarm conditions

Remote Monitoring Service

- Continuous 24/7/365 monitoring
- Stores data and pressure alarms
- Offers monthly site summary report



What Is It and How It Works

- The GREEN MACHINE Vapor Processor is designed to separate hydrocarbon vapors and clean air in order to reduce UST over pressurization and protect the environment from fugitive VOC emissions
- The Vapor Processor initiates a run cycle when the UST pressure exceeds +0.2 IWC

- The run cycle is a 2-step process:
 1. A hydrocarbon/air vapor mixture is pulled from the UST into the filtration cartridges while simultaneously releasing clean air to the atmosphere
 2. Harmful hydrocarbon vapors are then purged from the filtration cartridges and returned to the UST

System Benefits

- The UST pressure is controlled
- The GDF does not lose valuable product
- The environment and people are protected from harmful VOC emissions



VAPOR RECOVERY STATEMENT

Month Ending: 07-17-2020
Savings This Month: 44.01 liters

Alarm Summary	Count
A - Power Feed Alarm	2
B - Fuel Filter Alarm	1
C - Fuel Filter Alarm	1
D - Fuel Filter Alarm	4
E - Fuel Filter Alarm	1
F - Pressure Alarm: UST -0.00 IWC	4
G - Pressure Alarm: UST -0.50 IWC	4
H - Pressure Alarm: UST -0.00 to -0.15 IWC	3
I - Pressure Alarm: UST -0.15 to -0.20 IWC	1
J - Pressure Sensor Alarm	0
K - 72 Hour Shutdown Alarm	0

Alarm Start	Alarm End	Duration
12-21-2019 09:47:12	12-21-2019 09:56:45	00:09:33
12-22-2019 19:38:27	12-22-2019 20:03:08	00:24:41
12-22-2019 21:56:13	12-22-2019 22:08:49	00:12:36
12-22-2019 23:11:25	12-22-2019 23:11:26	00:00:01



Specifications

Certifications		
ETL, IMP, TÜV		
GREEN MACHINE Dimensions & Weight		
Unit	Dimensions	Weight
GREEN MACHINE	L-27.2" x W-26.8" x H-46" Height includes 20" legs	214 lbs
VST Control Panel	L-5.2" x W-11.8" x H-13.5"	11 lbs
GREEN MACHINE Characteristics		
Characteristic	Value	Unit
Maximum ambient temperature	50	C
Minimum ambient temperature	-30	C
Efficiency	>98	%
Voltage	120	V
Current	20	A
Frequency	60	Hz
Start-Up Pressure	.2	IWC
Piping size	1	in
Threads		NPT
Control Panel Characteristics		
Characteristic	Value	Unit
Maximum ambient temperature	60	C
Minimum ambient temperature	0	C
Voltage	120	V
Current	20	A
Frequency	60	Hz



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