

# GREEN MACHINE™

## Vapor Processor & Remote Monitoring Service



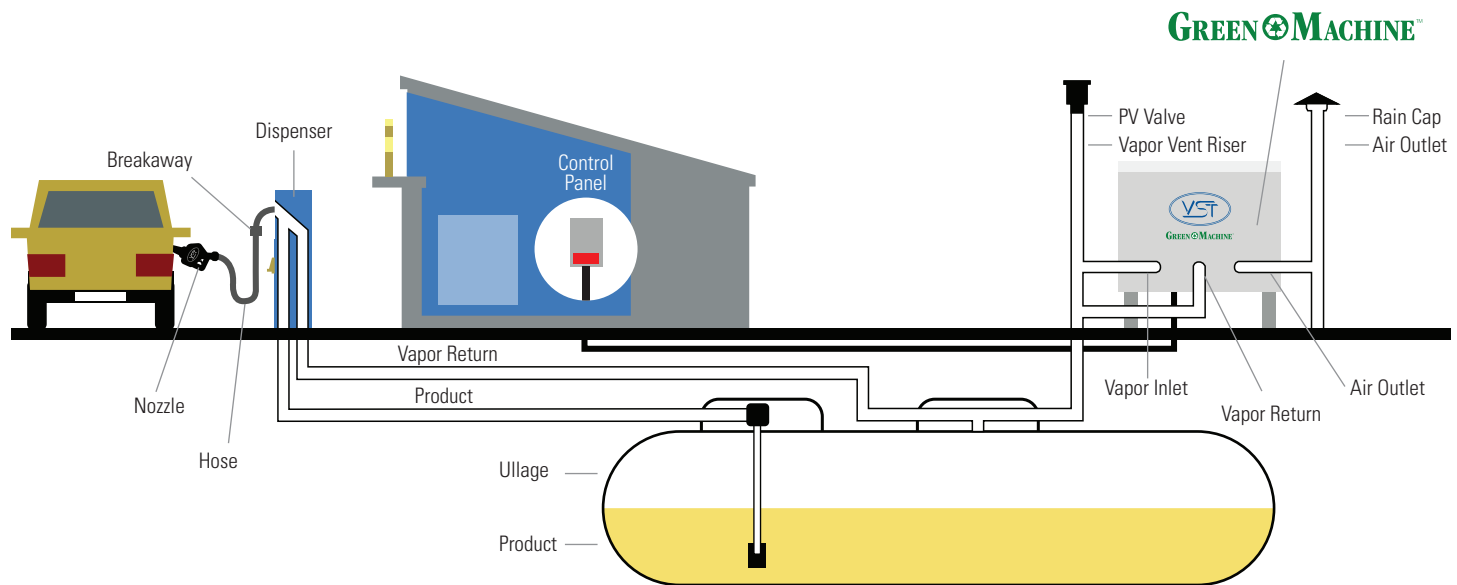
Capture, Control & Monitor Fugitive Emission Losses  
To Improve the Environment & Save Money



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 Gallons

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	115	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	115	V
Current	20	A
Frequency	60	Hz



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