

# Carbon Pressure Management System

For Onboard Refueling Vapor Recovery (ORVR) Compatible Systems – CARB Approved

The Veeder-Root Carbon Pressure Management System reduces evaporative losses caused by over-pressurization while complying with current pressure management regulations. This pressure management system is designed to work with balance vapor recovery equipment. It provides a quick, inexpensive installation that eliminates the need for expensive concrete pads, protective barriers, or AC wiring.

## ► HOW THE SYSTEM WORKS

The Veeder-Root Carbon Pressure Management System mounts directly onto the station's existing vent riser, utilizing a single tap into the vapor space of the containment system. The canister contains activated high capacity carbon that filters emissions that enter through an inlet at the bottom of the canister from the vent pipe. The outlet at the top of the carbon canister releases cleansed air into the atmosphere reducing the pressure in the underground storage tank (UST). The canister's operation is continuously monitored through an electronic control module that interfaces with the TLS-450PLUS Automatic Tank Gauge (ATG) via an intrinsically-safe electrical connection.



## ► WHEN UST PRESSURE GOES POSITIVE

- The TLS-450PLUS ATG opens the valve on the output port of the canister, allowing **vapor to enter the canister**
- As vapor flows through the canister, activated carbon inside captures the hydrocarbon vapors allowing clean air to exit the canister, **reducing pressure in the UST**

## ► WHEN UST PRESSURE GOES NEGATIVE

- The TLS-450PLUS ATG opens the valve on the output port of the canister, allowing **fresh air to enter the canister**
- As the fresh air passes through the canister, the hydrocarbons are removed from the carbon and returned to the UST, **reducing evaporation**

## ► FEATURES & BENEFITS

- Compatible with both balance and assist vapor processing configurations
- Simple, low cost installation
  - Attaches directly to the vent riser at any station
  - Needs a single 1/2" tap into the vapor riser pipe
  - Eliminates the need for a concrete pad or containment barrier
- Low maintenance – no pumps or motors
- Continuously monitored for proper operation and efficiency
- Long service life
- Interfaces with the TLS-450PLUS ATG via a single 2-wire intrinsically safe connection
- No AC power required

## SYSTEM REQUIREMENTS

- TLS-450PLUS ATG
- 16 Channel Universal Sensor Module (USM) and Universal I/O Module (UIOM)
- ISD/Pressure Management Control (PMC) Software Feature or PMC Software Feature Only
- Carbon Canister

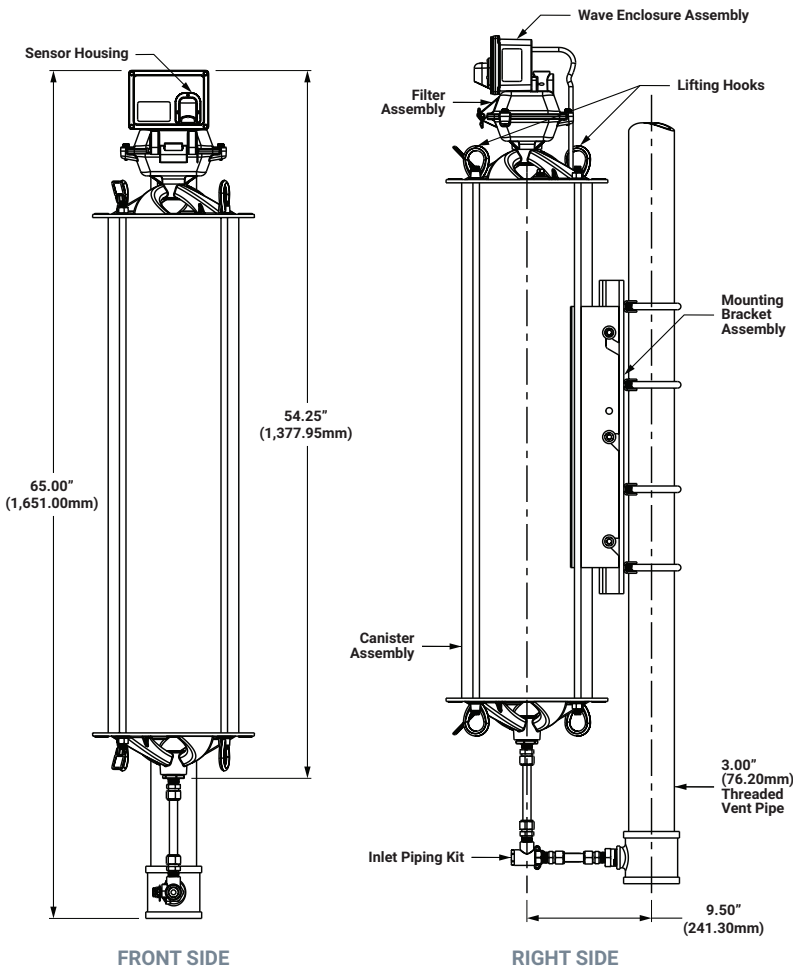
### Wireless System Option

- Wireless Transmitter with Battery Pack
- Wireless Receiver
- TLS-RF Wireless Console

**Note:** This system is supported by the TLS-450PLUS and legacy TLS3 Series consoles.



## CARBON CANISTER DIMENSIONS

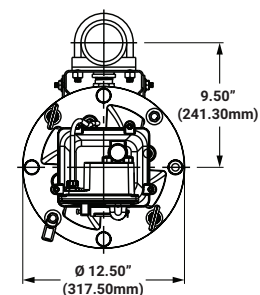


## REQUIRED PARTS

Part Number	Description
0332812-006	16 Channel USM Interface Module with the Atmospheric Module
0332813-001	UIOM for Relay Control and Input Signal Monitoring
0861290-002	Carbon Canister Vapor Polisher – 2" Vent Pipe

## SPARE PARTS

Part Number	Description
0330020-638	Inlet Piping Kit
0330020-643	Valve Assembly Enclosure Kit
0330020-644	Sensor Housing/Carbon Canister Vapor Polisher (CCVP)
0330020-645	Carbon Canister Filter Assembly Kit
0330020-647	Mounting Bracket Kit for 2" Vent Stacks
0330020-653	Thermal Probe
0330020-660	Canister Weather Kit



TOP VIEW