

Executive Order VR-203-AD

**EXHIBIT 1
Equipment List
Hanging Hardware**

Component	Manufacturer/Model
Nozzle	VST Model VST-EVR-NB, VST-EVR-NB (Rebuilt) VST Model VST-EVR-NB (G2), VST-EVR-NB (G2 Rebuilt) EMCO Models A4005EVR, RA4005EVR (Rebuilt) (Figure 1-2)
Coaxial Curb Hose ¹	VST Model VDV-EVR Series or VDVP-EVR Series ContiTech Model Maxxim Premier Plus - 532-365-641-XXXZZ Where: XXX = Hose Length ZZ = Liquid Removal Pickup Location ("NV" stamped on nozzle end) ContiTech Model Maxxim Premier Ultra 532-366-641-XXXZZ Where: XXX = Hose Length ZZ = Liquid Removal Pickup Location ("NV" stamped on nozzle end) (Figure 1-3)
Breakaway Coupling	VST Model VSTA-EVR-SBK, VSTA-EVR-SBK (Reattachable) ² EMCO Models A4119EVR-X Where: X = 020 or 020S (Factory Serviced) EMCO Models A4119EVR-X (Reconnectable) Where: X = 020RC or 020RCS (Factory Serviced) OPW Model 66CLP (Figure 1-5)

¹ Veyance brand name has changed to ContiTech.

² The lower half of the VST reattachable breakaway, identified with a VST logo, cannot be used on the VST non-reattach able or rebuilt breakaways.

TABLE 1-1
Allowable Hanging Hardware Combinations with Corresponding Processor
Including ISD Systems

Processor	Nozzle		Hose		Breakaway		
	VST	EMCO	VST	ContiTech	VST	EMCO	OPW
VST Membrane	●		●	●	●	●	●
Veeder Root Vapor Polisher	●	●	●	●	●	●	●
FFS Clean Air Separator	●	●	●	●	●	●	●
Hirt VCS 100	●	●	●	●	●	●	●
VST Green Machine	●		●	●	●	●	●

Equipment List Processor

ONLY ONE OF THE FOLLOWING FIVE (5) PROCESSOR GROUPS IS REQUIRED

VST - Membrane (#1)

<u>Component</u>	<u>Manufacturer/Model</u>
VST Membrane Processor	VST Model VST-ECS-CS3-XXX Where XXX represents motor phase and HC Sensor 110 =Single-Phase with HC Sensor 310=Three-Phase with HC Sensor (Figure 1-6)
Veeder-Root TLS-350 Series³	Veeder-Root 8482XX-XXX, 8470XX-XXX ProMax 847097-XXX EMC PAO2620X000X Where: X = Any digit (Figure 1-15)
RS232 Interface Module (TLS-350)	Veeder-Root RS232 Interface Module Series (Figure 1-16)
Pressure Management Control (PMC) Software Version	1.04
Vapor Pressure Sensor⁴ (1 per GDF)	Veeder-Root 331946-001 or 861190-201- Wired, approved for installation in the dispenser or on the vent stack Veeder-Root 861190-201 - Low Powered Wireless, approved for installation on the vent stack only (Figure1-20)
Vapor Pressure Sensor Desiccant Tube - Optional (1 per GDF)	Veeder-Root 330020-717 - Dryer Tube (Figure1-20)
Smart Sensor Interface Module (1 per GDF)	Veeder-Root 329356-004 (Figure 1-18)
Multiport Card	Veeder-Root 330586-018
Universal Enclosure Kit⁵	Veeder-Root 330020-716 (Figure1-24)

³ Veeder-Root TLS-350 Series including but not limited to TLS-350, TLS-350 Plus, TLS-350R, Red Jacket ProMax, Gilbarco EMC consoles (TLS Console)

⁴ Wireless sensors require additional components specified in Veeder-Root Optional Wireless Component Equipment List.

⁵ Required for vapor pressure sensors installed on the vent line (wired or wireless).

Equipment List

Processor

(continue)

Veeder-Root - Vapor Polisher (#2)

<u>Component</u>	<u>Manufacturer/Model</u>
Veeder-Root Vapor Polisher	Veeder Root Vapor Polisher 332761-002 - Wired or Wireless (Figure 1-7)
Veeder-Root TLS-350 Series⁶	Veeder-Root 8482XX-XXX, 8470XX-XXX ProMax 847097-XXX EMC PAO2620X000X Where: X = Any digit (Figure 1-15)
TLS-450PLUS	860091-30x (Figure 1-17)
RS232 Interface Module	Veeder-Root RS232 Interface Module Series (Figure 1-16)
R232 Interface Module (TLS-450PLUS)	Veeder-Root R232 Interface Module Series (Figure 1-18)
Pressure Management Control (PMC) Software Version	1.04
Vapor Pressure Sensor⁷ (1 per GDF)	Veeder-Root 331946-001 or 861190-201- Wired, approved for installation in the dispenser or on the vent stack Veeder-Root 861190-201 - Low Powered Wireless, approved for installation on the vent stack only (Figure1-17)
Vapor Pressure Sensor Desiccant Tube - Optional (1 per GDF)	Veeder-Root 330020-717 - Dryer Tube (Figure1-17)
Smart Sensor Interface Module (1 per GDF)	Veeder-Root 329356-004 (Figure 1-21)
With Atmospheric Sensor	Veeder-Root 332250-001
Universal Enclosure Kit⁸	Veeder-Root 330020-716 (Figure1-24)
Universal Sensor Module/ATM (TLS-450PLUS)	0332812-006 (Figure 1-22)
TLS-XB Expansion Box	Veeder-Root 860390-100 (Figure 1-19))

⁶ Veeder-Root TLS-350 Series including but not limited to TLS-350, TLS-350 Plus, TLS-350R, Red Jacket ProMax, Gilbarco EMC consoles (TLS Console)

⁷ Wireless sensors require additional components specified in Veeder-Root Optional Wireless Component Equipment List.

⁸ Required for the vapor valve wireless battery/transmitter and vapor pressure sensors installed on the vent line (wired or wireless).

**Equipment List
Processor**
(continue)

Franklin Fueling Systems - Healy Clean Air Separator (#4)

Component

Manufacturer/Model

**Franklin Fueling Systems
Clean Air Separator (CAS)**

Healy Model 9961 Clean Air Separator
(Figures 1-8)

Healy Model 9961H Clean Air Separator
(Figures 1-9)

Hirt - Thermal Oxidizer (#3)

Component

Manufacturer/Model

Hirt Thermal Oxidizer
With Indicator Panel

Hirt Model VCS 100
(Figures 1-10)

Leg Attachments:

5" - M39

48" - M40

Hirt 1/4" Check Valve
(optional component)

Hirt P65

**Equipment List
Processor**
(continue)

VST - Green Machine (#5)

<u>Component</u>	<u>Manufacturer/Model</u>
Green Machine Processor, including controller	VST Model VST-GM-CS1-100 (Figure 1-12)
Veeder-Root TLS-350 Series⁹	Veeder-Root 8482XX-XXX, 8470XX-XXX ProMax 847097-XXX EMC PAO2620X000X Where: X = Any digit (Figure 1-15)
RS232 Interface Module	Veeder-Root RS232 Interface Module Series (Figure 1-16)
Pressure Management Control (PMC) Software Version	1.04
Vapor Pressure Sensor¹⁰ (1 per GDF)	Veeder-Root 331946-001 or 861190-201- Wired, approved for installation in the dispenser or on the vent stack Veeder-Root 861190-201 - Low Powered Wireless, approved for installation on the vent stack only (Figure1-20)
Vapor Pressure Sensor Desiccant Tube - Optional (1 per GDF)	Veeder-Root 330020-717 - Dryer Tube (Figure1-20)
Smart Sensor Interface Module (1 per GDF)	Veeder-Root 329356-004 (Figure 1-21)
Multiport Card	Veeder-Root 330586-018
Universal Enclosure Kit¹¹	Veeder-Root 330020-716 (Figure1-24)

⁹ Veeder-Root TLS-350 Series including but not limited to TLS-350, TLS-350 Plus, TLS-350R, Red Jacket ProMax, Gilbarco EMC consoles (TLS Console)

¹⁰ Wireless sensors require additional components specified in Veeder-Root Optional Wireless Component Equipment List.

¹¹ Required for vapor pressure sensors installed on the vent line (wired or wireless).

Equipment List
Liquid Condensate Trap (LCT)

<u>Component</u>	<u>Manufacturer/Model</u>
Riser Adapter	INCON model TSP K2A (Figure 1-13)
In Line Filter	140 micron, Swagelok B 4F2 140 or SS 4F2 140, or equivalent (Figure 1-12 and Figure 1-13)
Screen	Aluminum Insect screen (18X14 mesh), or Stainless Steel Insect screen (18X18 mesh). (Figure 1-12 and Figure 1-13)
Stainless Steel Hose Clamp	Sized to secure screen to suction tube. (Figure 1-12 and Figure 1-13)
Liquid Sensor¹²	Must have an audible and visual alarm (Figure 1-12 and Figure 1-13)
Liquid Condensate Trap¹²	Any capacity, manufacturer, make and model (Figure 1-12 and Figure 1-13)

¹² Must meet applicable State Water Resources Control Board (SWRCB) requirements (e.g. LG 113, LG 167 and LG 169) and any local authority having jurisdiction which includes the Certified Unified Program Agency (CUPA).

Equipment List
Veeder-Root Wireless Component
(optional)

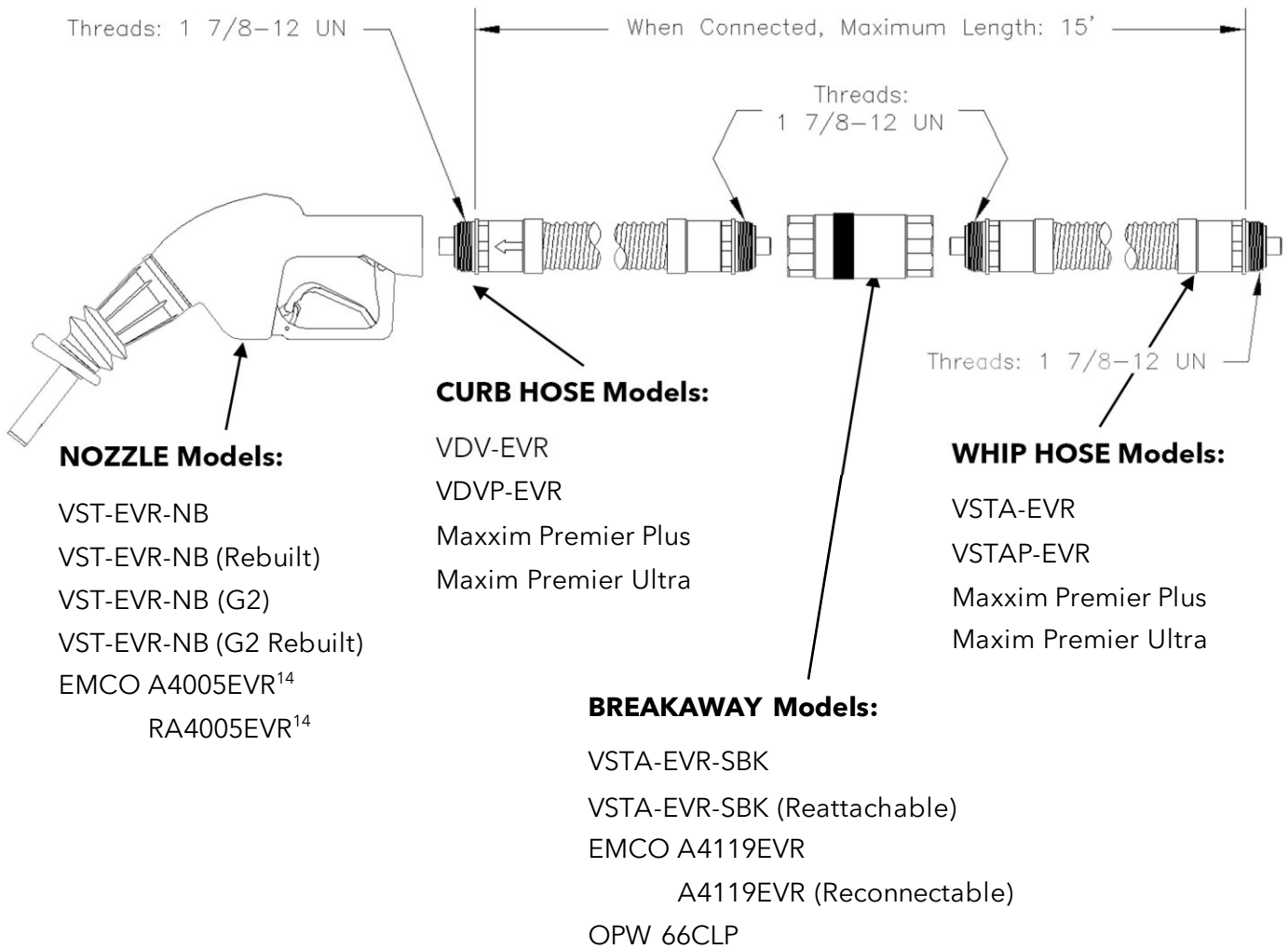
<u>Component</u>	<u>Manufacturer/Model</u>
TLS RF Console-2 Box (1 per GDF)	Veeder-Root 332242-002 (Figure 1-23)
RF Transmitter-2¹³ (1 per Veeder-Root Sensor)	Veeder-Root 332235-016 (Figure 1-23)
RF Transmitter Battery Pack13 (1 per Transmitter)	Veeder-Root 332425-011 (Figure 1-23)
RF Repeater-2 (1 per GDF)	Veeder-Root 332440-030 (Figure 1-23)
RF Receiver-2 (1 per GDF)	Veeder-Root 332440-029 (Figure 1-23)

Equipment List
Veeder-Root TLS-350 Series Maintenance Tracker Security
(optional)

<u>Component</u>	<u>Manufacturer/Model</u>
Maintenance Tracker Kit (Optional)	Veeder-Root 330020-546 Consists of the following: <ul style="list-style-type: none">• Maintenance Tracker Technician Key• Interface Module RS232/485 Dual Module with DB9 Converter or Single Port Module with DB-25 converter• Manual (Figure1-14)

¹³ The RF Transmitter-2 and RF Transmitter Battery Pack for the wireless vapor valve and wireless pressure sensor must be installed in the Universal Enclosure Kit. (See Figures 1-20 and 1-21)

FIGURE 1-1
Hanging Hardware
(Nozzle, Coaxial Curb Hose, Breakaway, and Coaxial Whip Hose)



¹⁴ Alternate component for use with the Veeder-Root Vapor Polisher or Hirt Thermal Oxidizer processors or Clean Air Separator

FIGURE 1-2

Nozzle

Vapor Systems Technologies, Inc (VST)



**VST Model VST-EVR-NB
VST Model VST-EVR-NB (Rebuilt)**



**VST Model VST-EVR-NB (G2)
VST Model VST-EVR-NB (G2, Rebuilt)**

EMCO Wheaton Retail Corp.



EMCO Model A4005EVR Balance Nozzle

FIGURE 1-2
Nozzle
 (Continued)

Vapor Systems Technologies, Inc (VST)

VST Model VST-EVR-NB
VST Model VST-EVR-NB (Rebuilt)

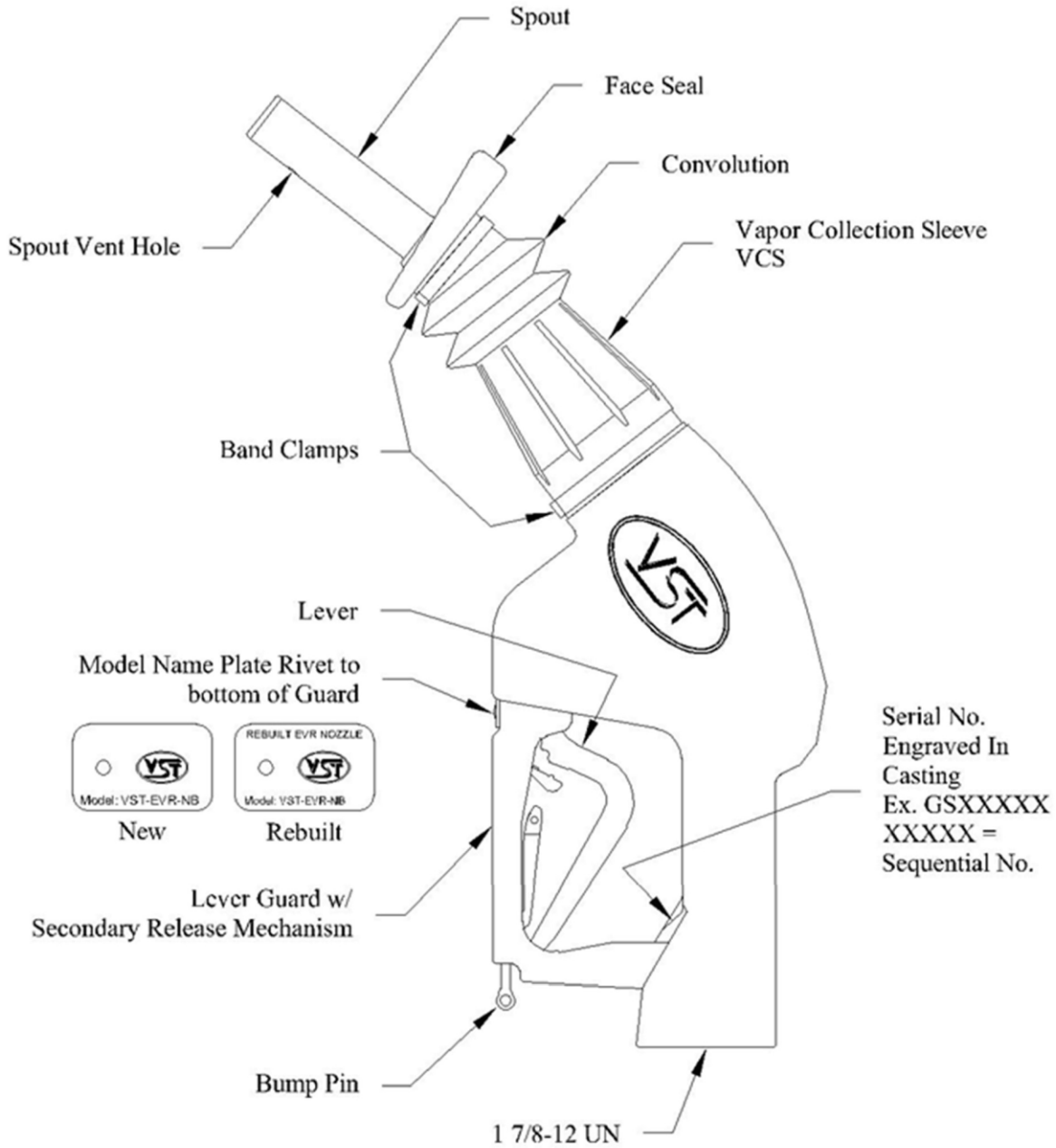


FIGURE 1-2
Nozzle
 (Continued)

Vapor Systems Technologies, Inc (VST)
VST Model VST-EVR-NB (G2)
VST Model VST-EVR-NB (G2 Rebuilt)

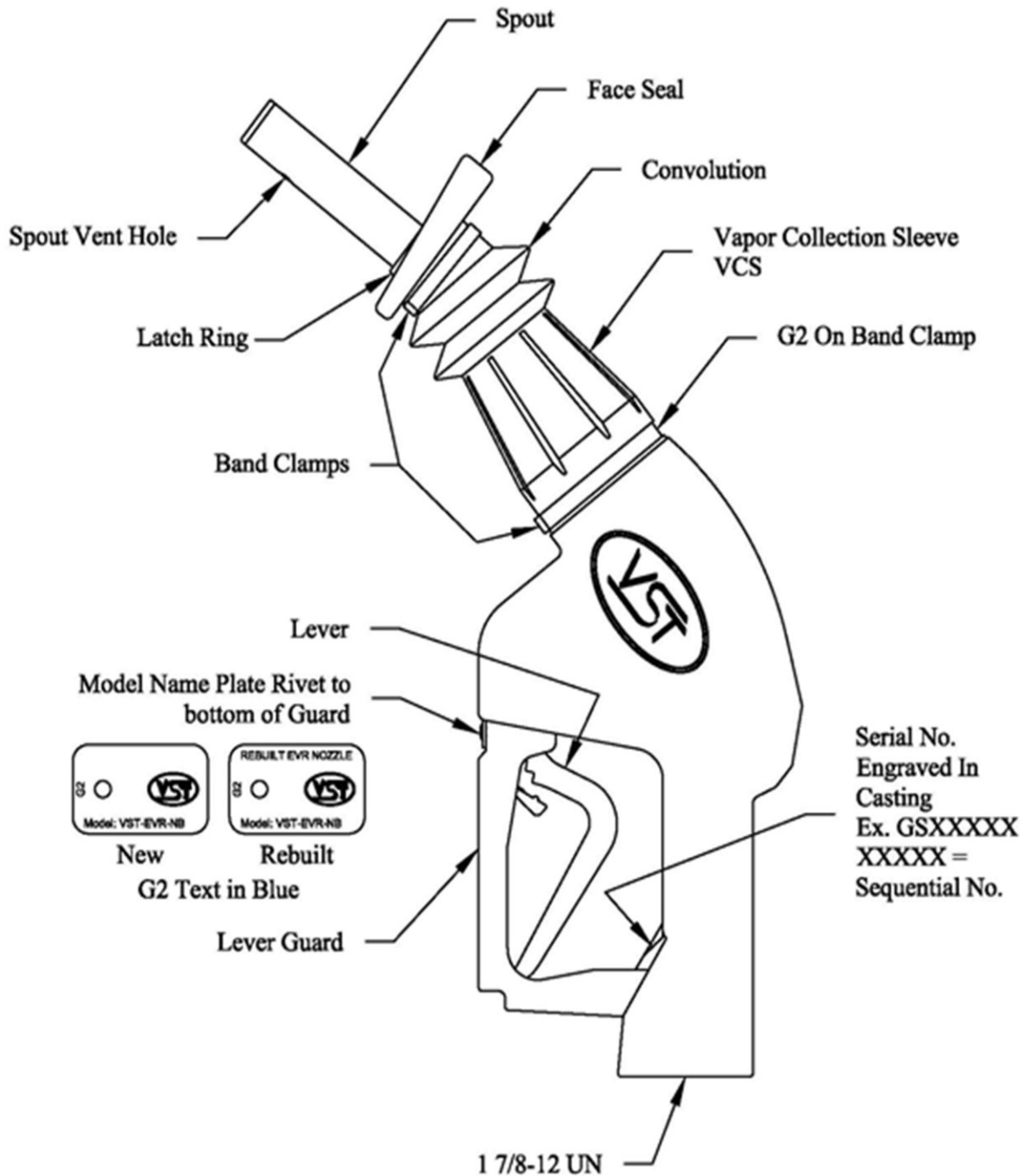


FIGURE 1-2
Nozzle
 (Continued)

EMCO Wheaton Retail Corp.

EMCO Model A4005EVR Balance Nozzle

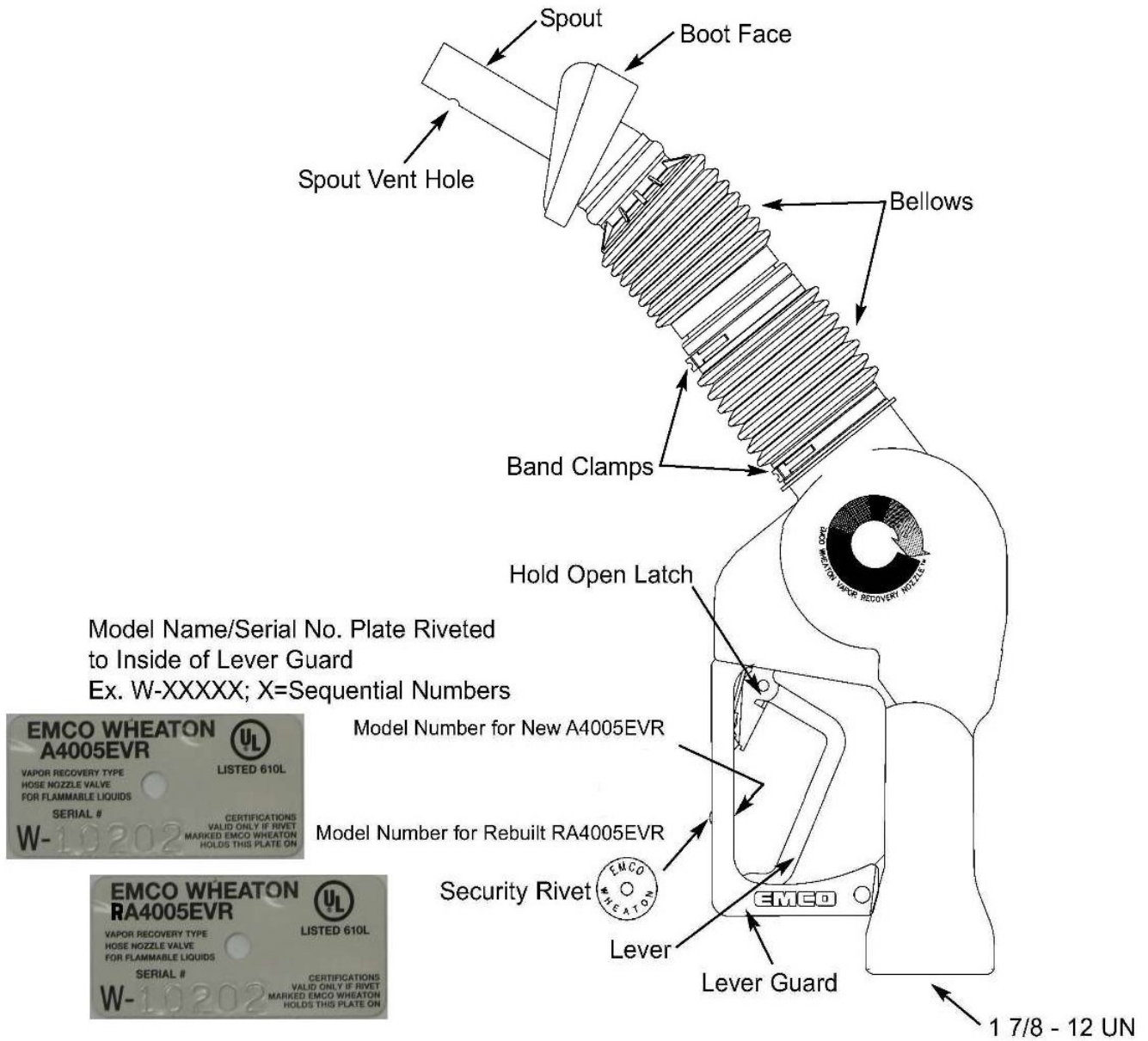


FIGURE 1-3
Curb Hose

Vapor Systems Technologies, Inc (VST)



VST Model VDV-EVR Series



Serial Number Location



Alternate Curb Hose Ferrule Sleeve Identification



VST Model VDVP-EVR Series



Serial Number Location

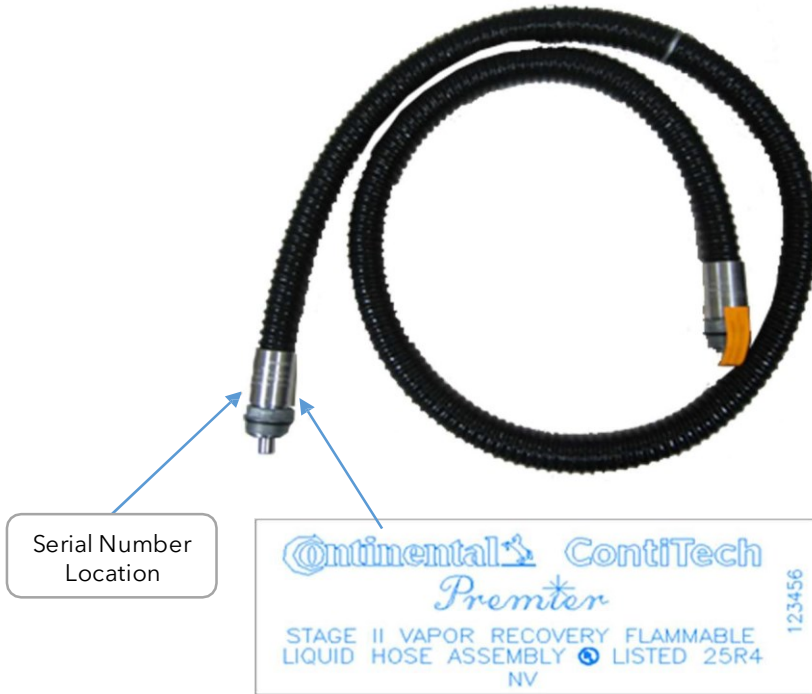
Alternate Curb Hose Ferrule Sleeve Identification

FIGURE 1-3

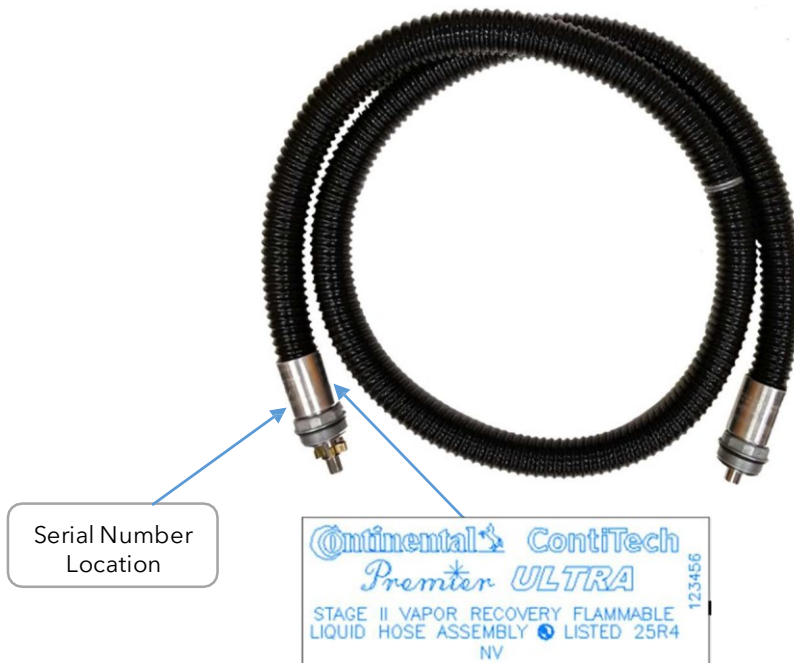
Curb Hose

(Continued)

ContiTech USA, Inc.



Maxxim Premier



Maxxim Premier Ultra

FIGURE 1-4
Whip Hose

Vapor Systems Technologies, Inc (VST)



VST Model VSTA-EVR Series



Serial Number
Location



**Alternate Curb Hose
Ferrule Sleeve Identification**



VST Model VSTAP-EVR Series

Serial Number
Location

ContiTech USA, Inc.



Maxxim Premier



Maxxim Premier Ultra

Serial Number
Location

FIGURE 1-5
Breakaway

Vapor Systems Technologies, Inc (VST)



**Non-Attachable Breakaway
Coupling**

VST Model VSTA-EVR-SBK



VST logo on lower half of reattachable breakaway

Re-Attachable Breakaway Coupling

VST Model VSTA-EVR-SBK

FIGURE 1-5
Breakaway
(Continue)

EMCO Wheaton Retail Corp.



Safe Break Valve

**EMCO Model
A4119EVR**

Safe Break Valve

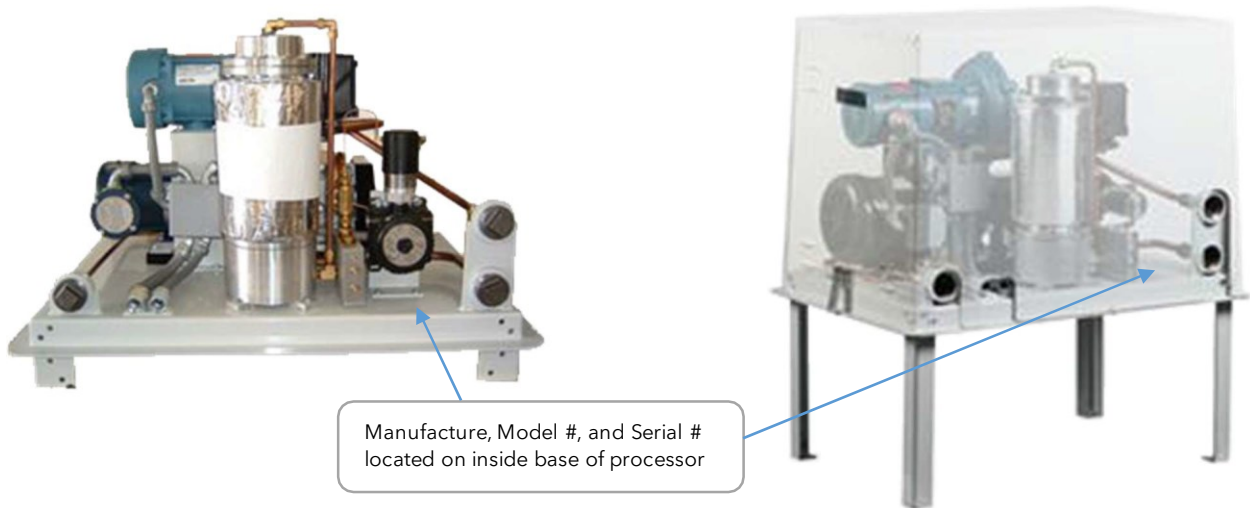
**EMCO Model
A4119EVR
(Reconnectable)**

OPW

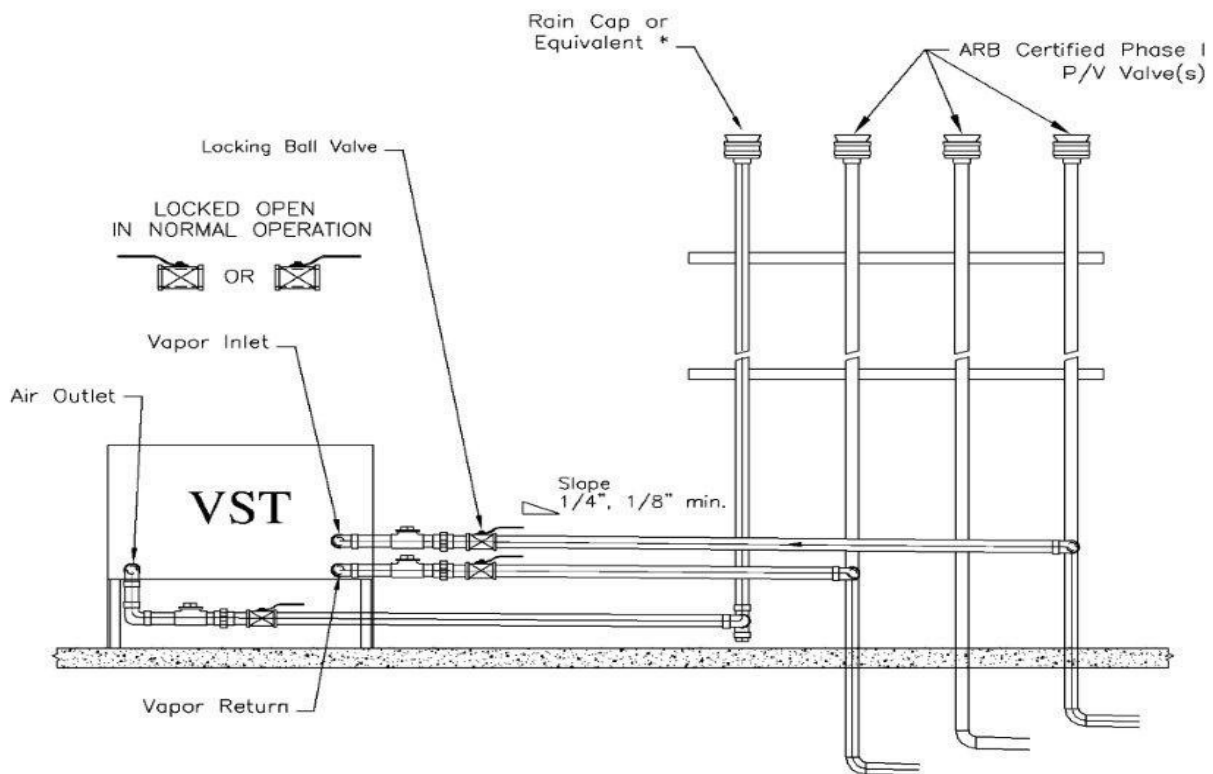


OPW Model 66CLP

FIGURE 1-6
VST-ECS-CS3 Membrane Processor



Typical Ground Mounted Configuration



CAUTION: THE HANDLES ON THE LOCKING BALL VALVES MUST NOT BE REMOVED

* If a P/V valve is used, the internal components MUST be removed to allow open venting to the atmosphere.

FIGURE 1-7
Veeder-Root Vapor Polisher

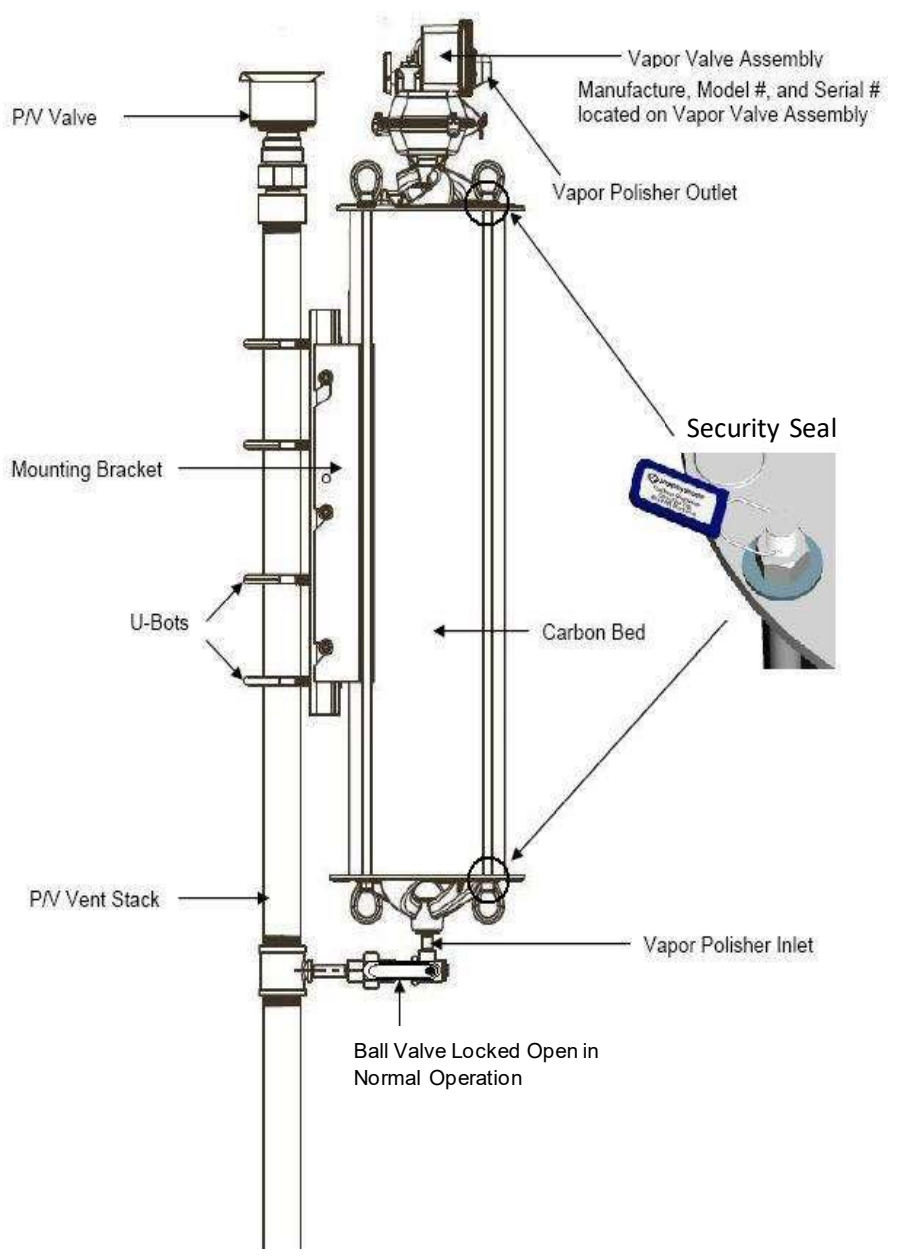


FIGURE 1-8
Healy Model 9961 Clean Air Separator

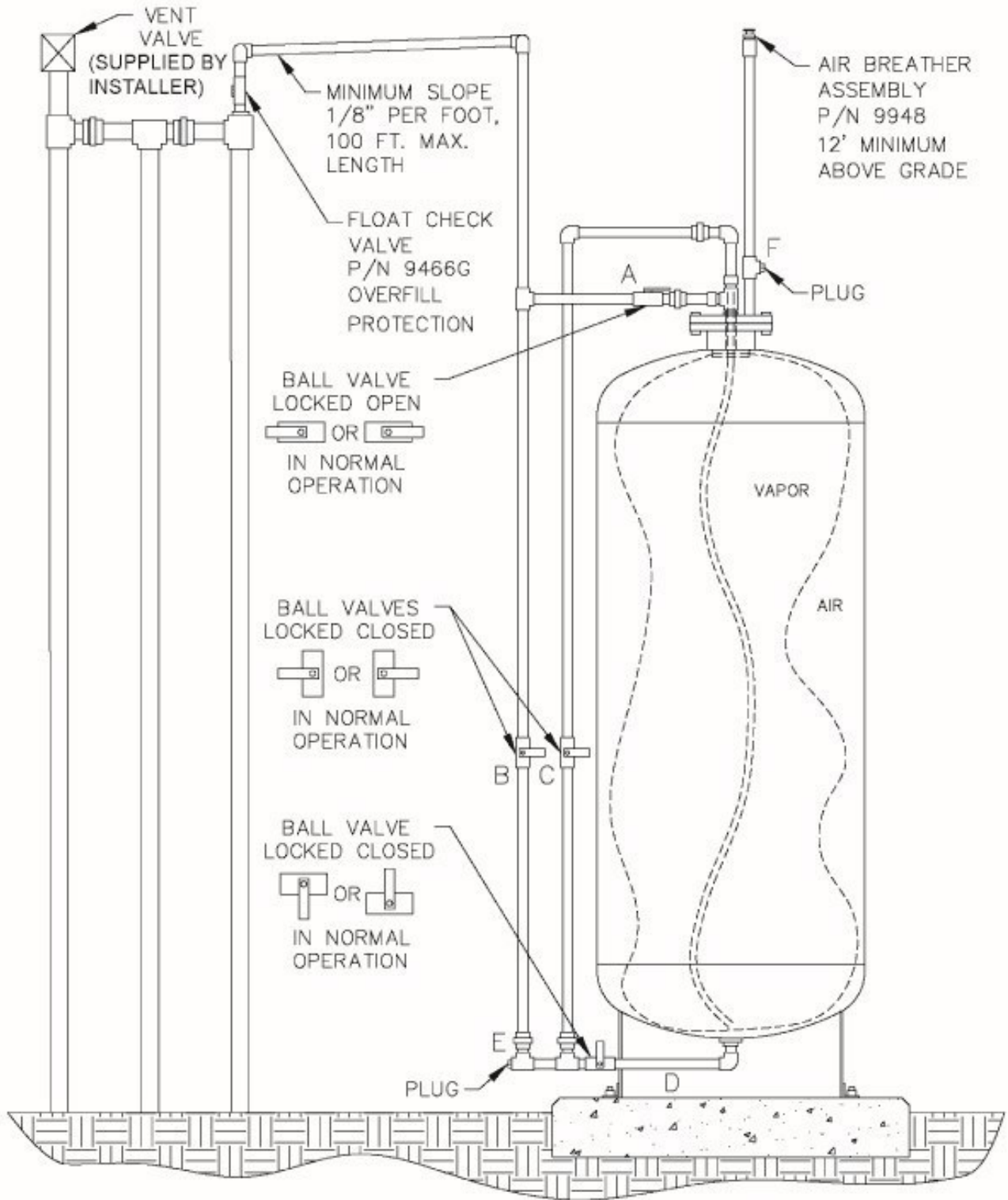


FIGURE 1-8
Healy Model 9961 Clean Air Separator
(Continue)



Clean Air Separator Name Plate



Clean Air Separator Data Plate
(not pictured on far side of base)

FIGURE 1-9
Healy Model 9961H Clean Air Separator

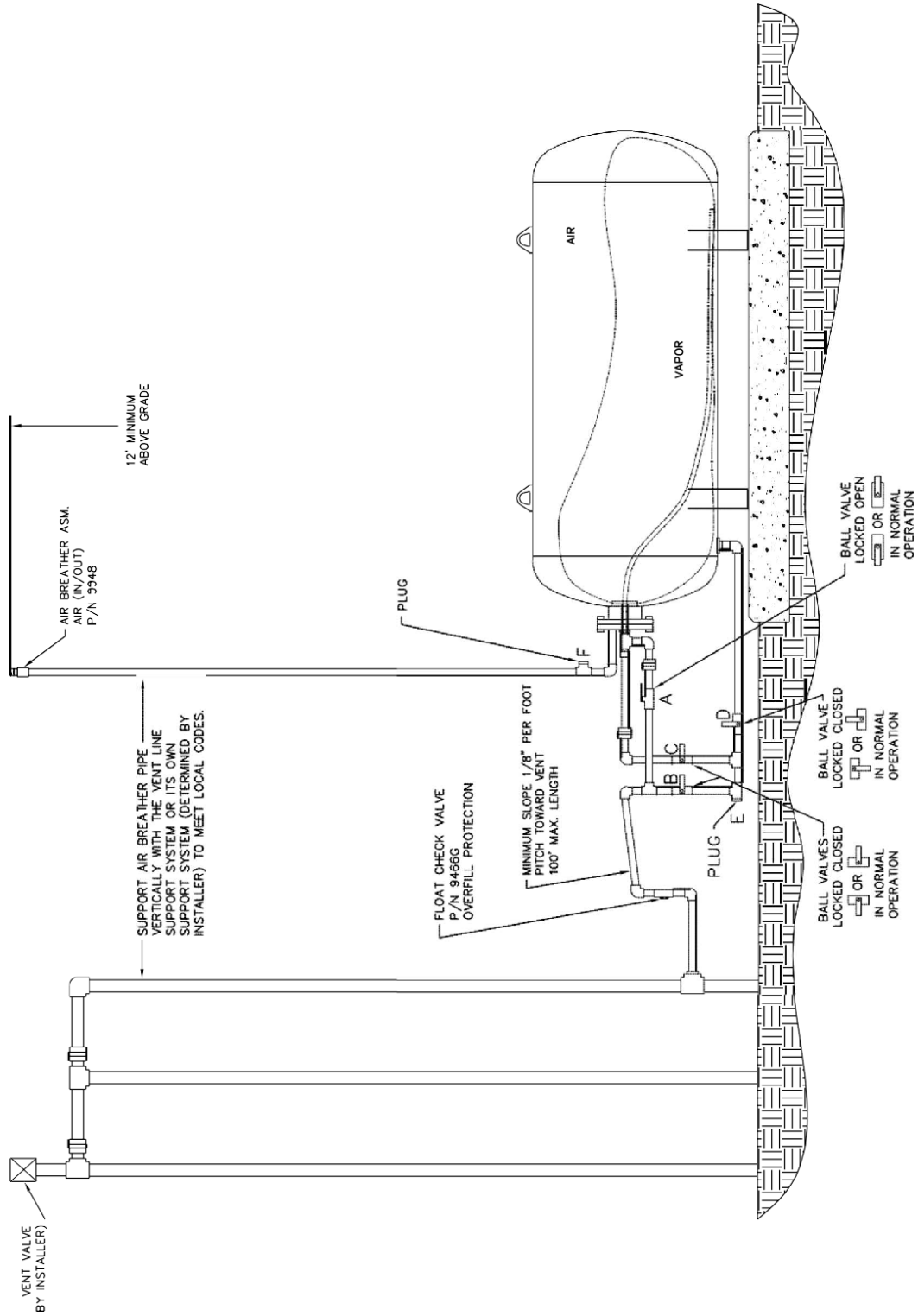
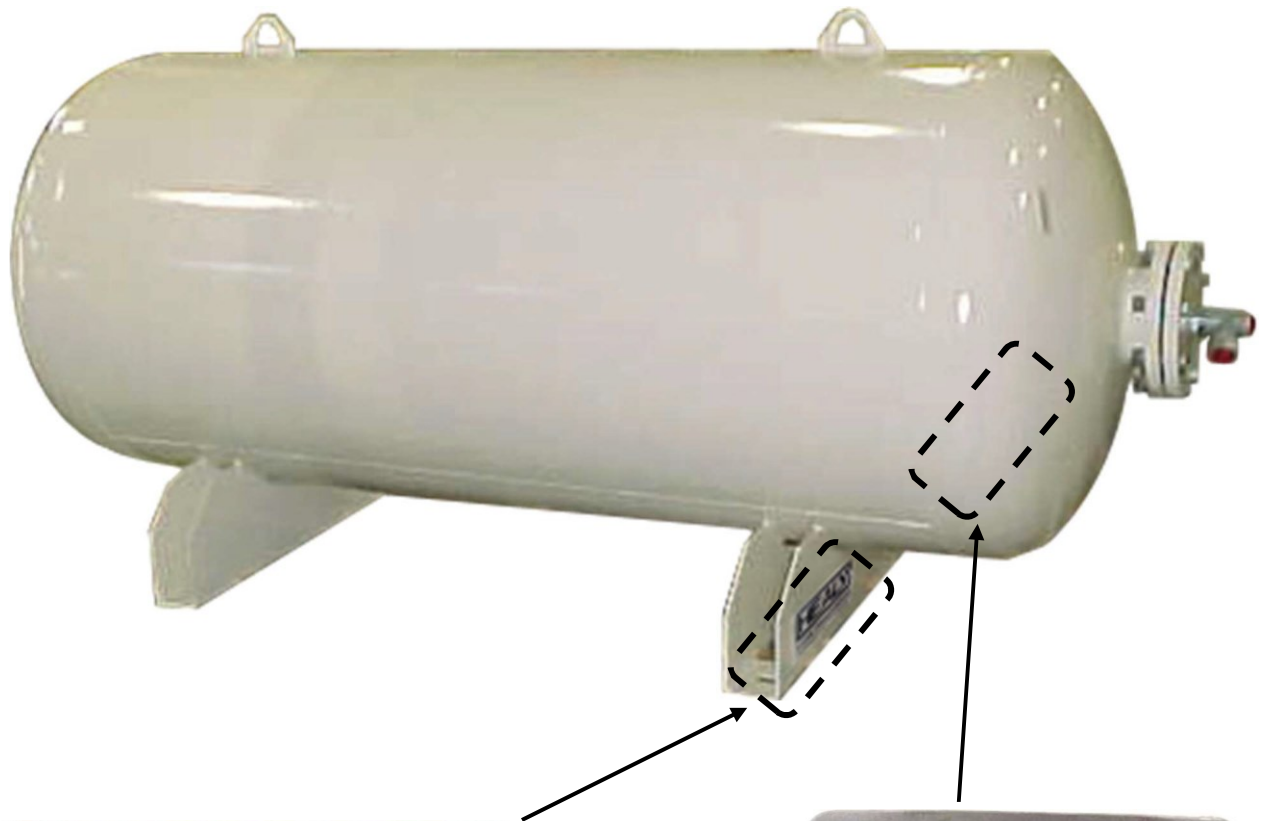


FIGURE 1-9
Healy Model 9961H Clean Air Separator
(Continue)



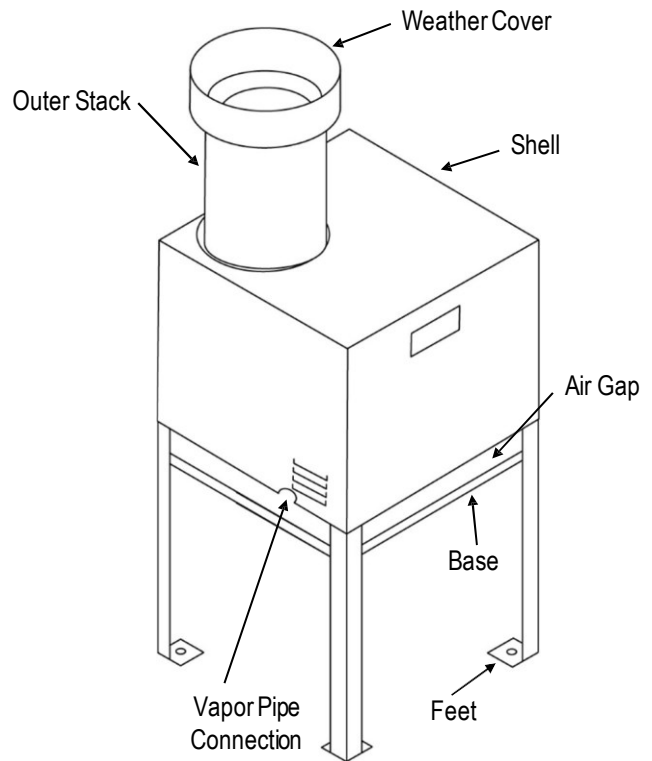
Clean Air Separator Name Plate



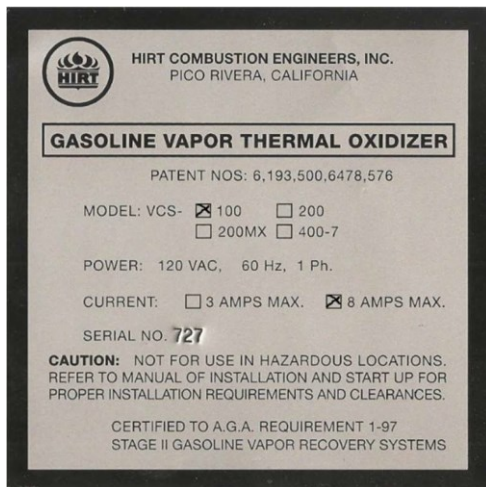
Clean Air Separator Data Plate
(not pictured on far side of base)

FIGURE 1-10
Hirt VCS 100 Thermal Oxidizer and Indicator Panel

Hirt VCS 100 Processor



Hirt VCS 100 Identification Plate



Indicator Panel Face

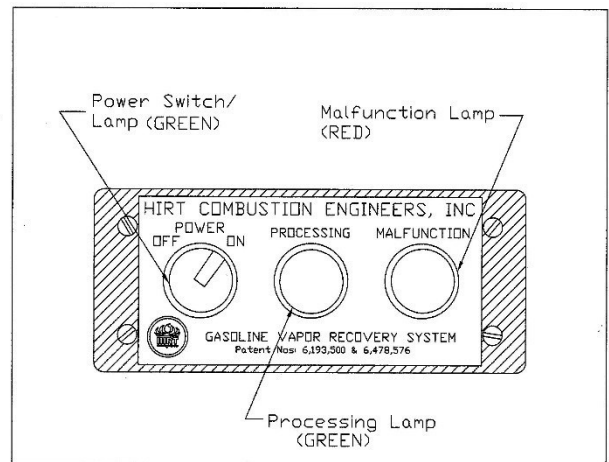
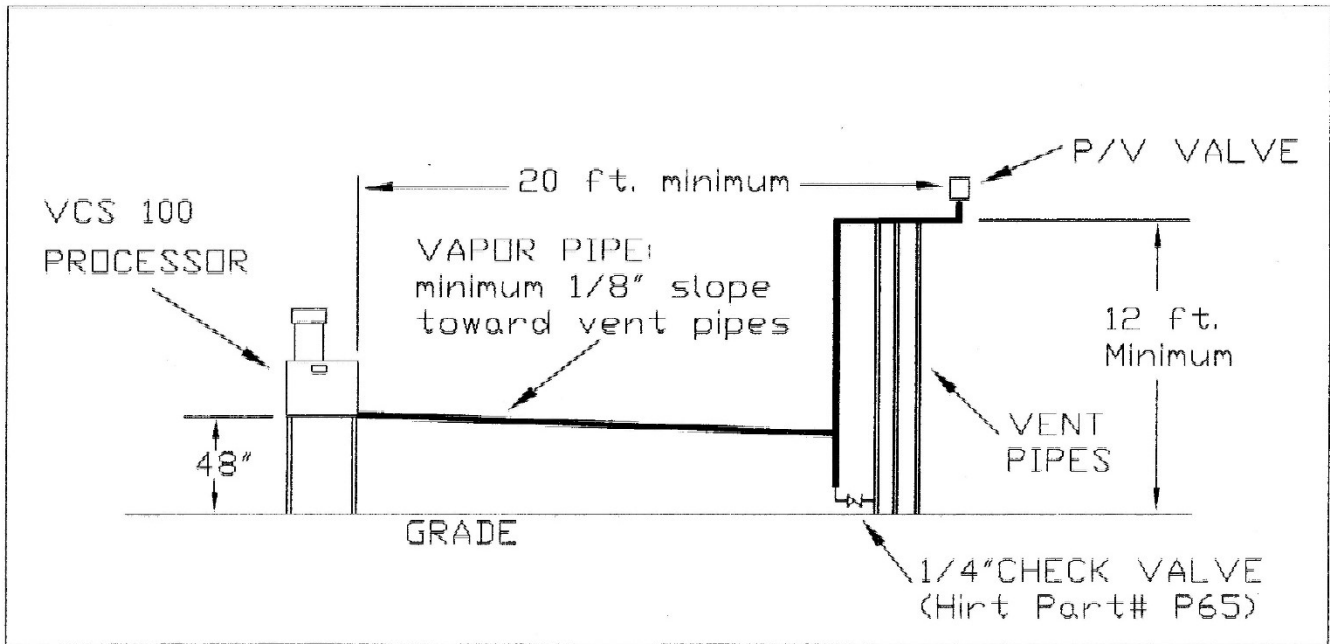
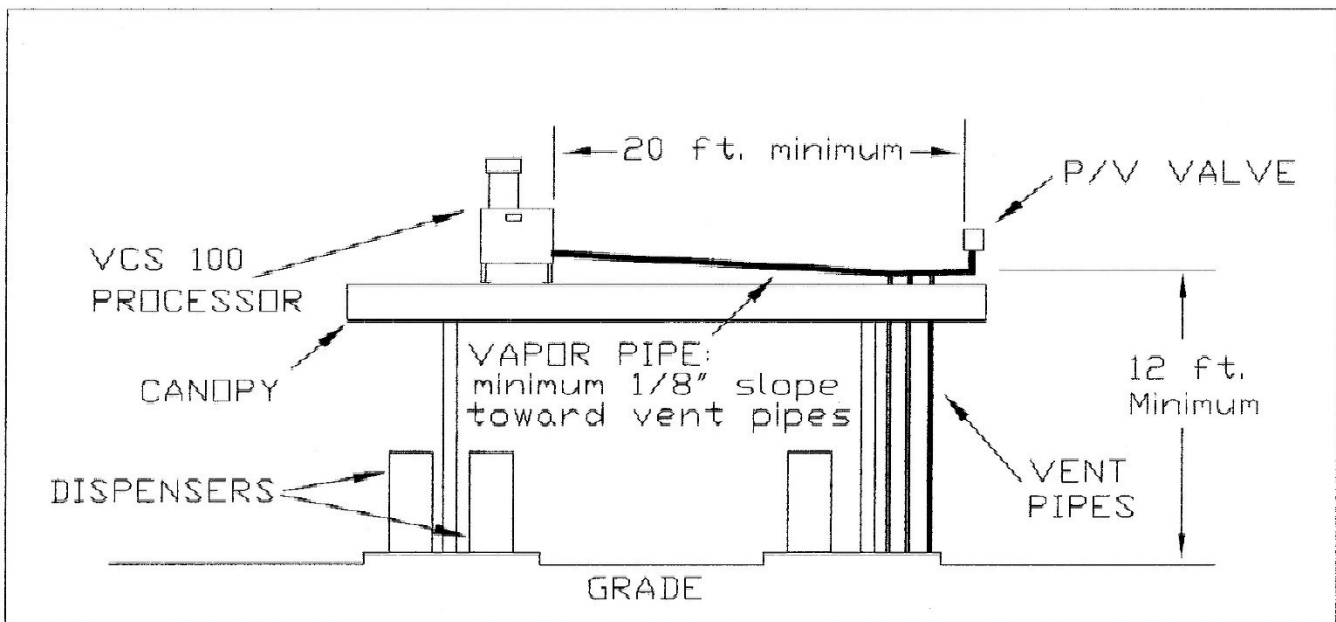


FIGURE 1-11
Typical Hirt VCS 100 Thermal Oxidize Installation



Ground Mount



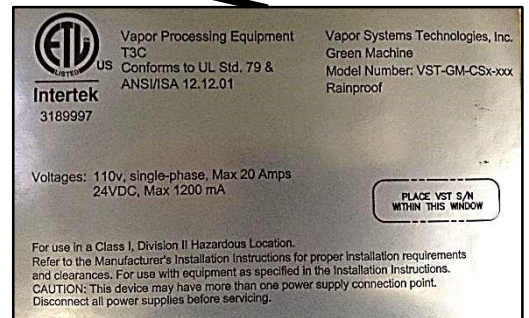
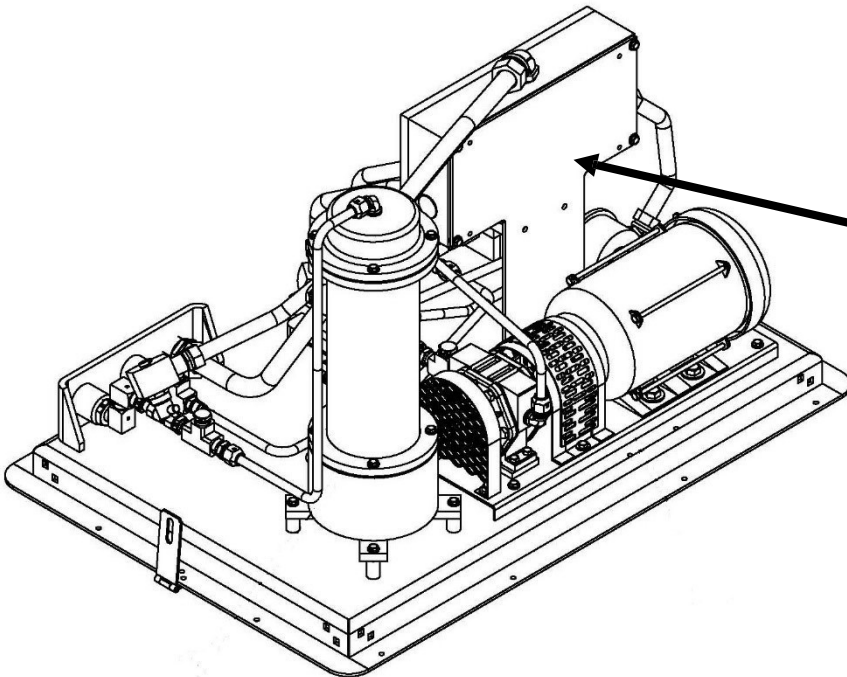
Canopy Mount

FIGURE 1-12
VST Green Machine Processor

Ground Mounted Configuration



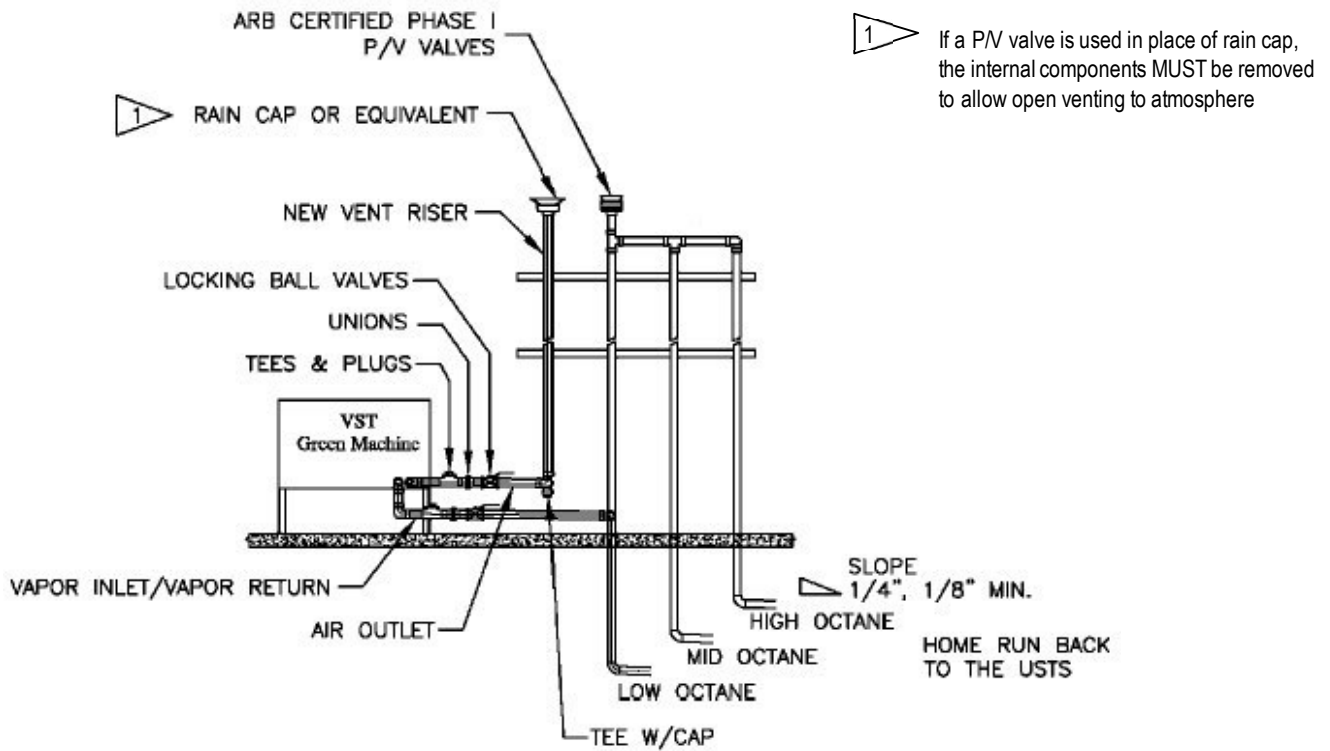
Vent Mounted Configuration



**Label with serial number is located
inside the Green Machine housing
on the electrical junction box.**

FIGURE 1-12
VST Green Machine Processor
 (Continue)

Typical Installation Ground Mounted Configuration



Typical Installation Vent Mounted Configuration

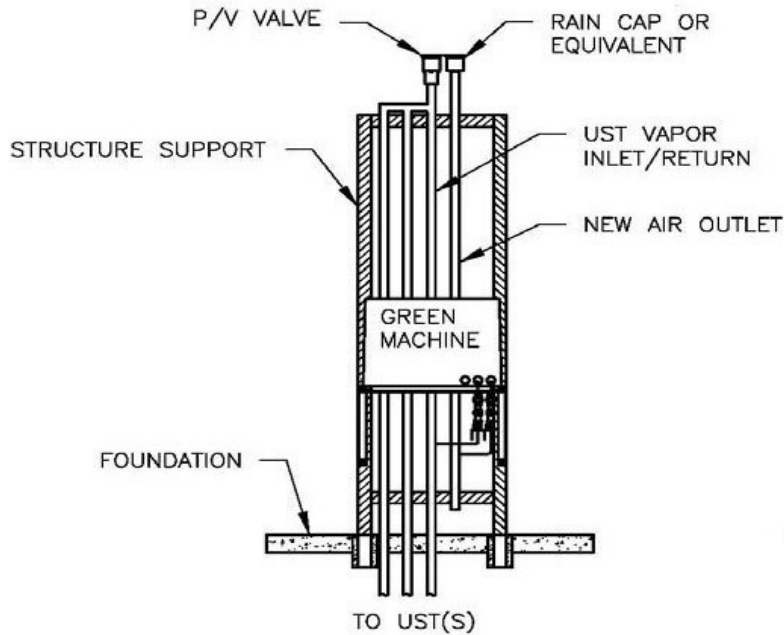
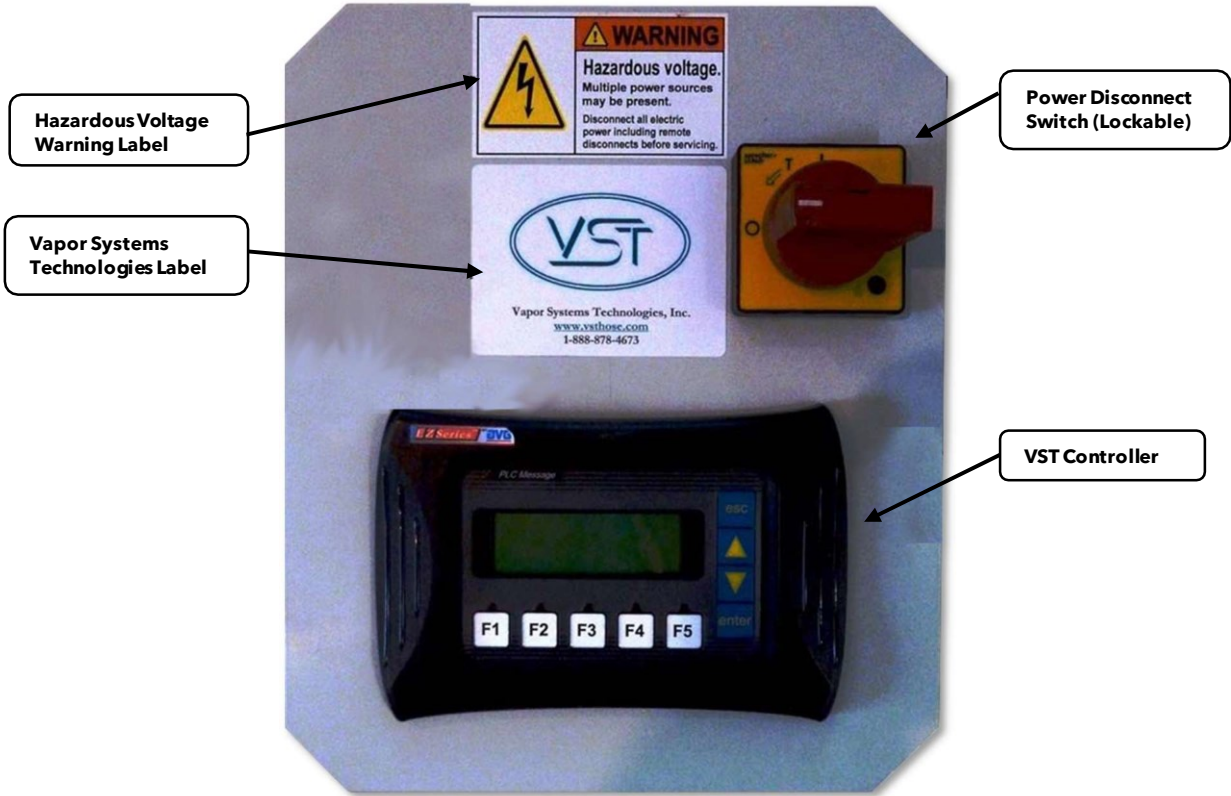


FIGURE 1-12
VST Green Machine Processor
(Continue)

VST Green Machine Control Panel



VST Green Machine Port Combiner



FIGURE 1-13
Typical Liquid Condensate Trap Installation
Below the Transition Sump

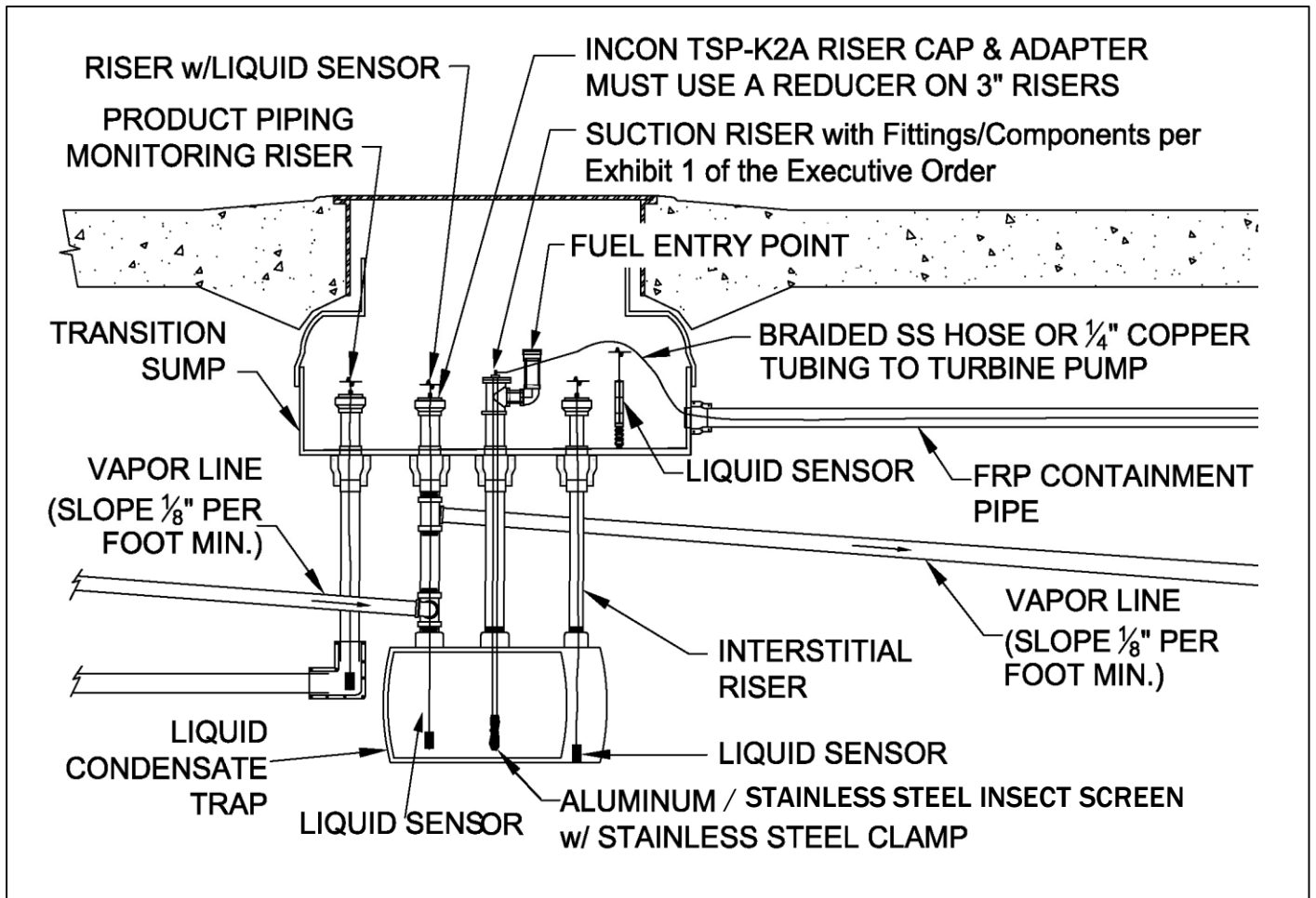


FIGURE 1-13

(Continue)

**Typical Liquid Condensate Trap Installation
Inside the Transition Sump**

Note: A Liquid Condensate Trap installed inside a liquid AND vapor tight transition sump that is monitored with a liquid sensor can be single walled (if installed before July 1, 2004).

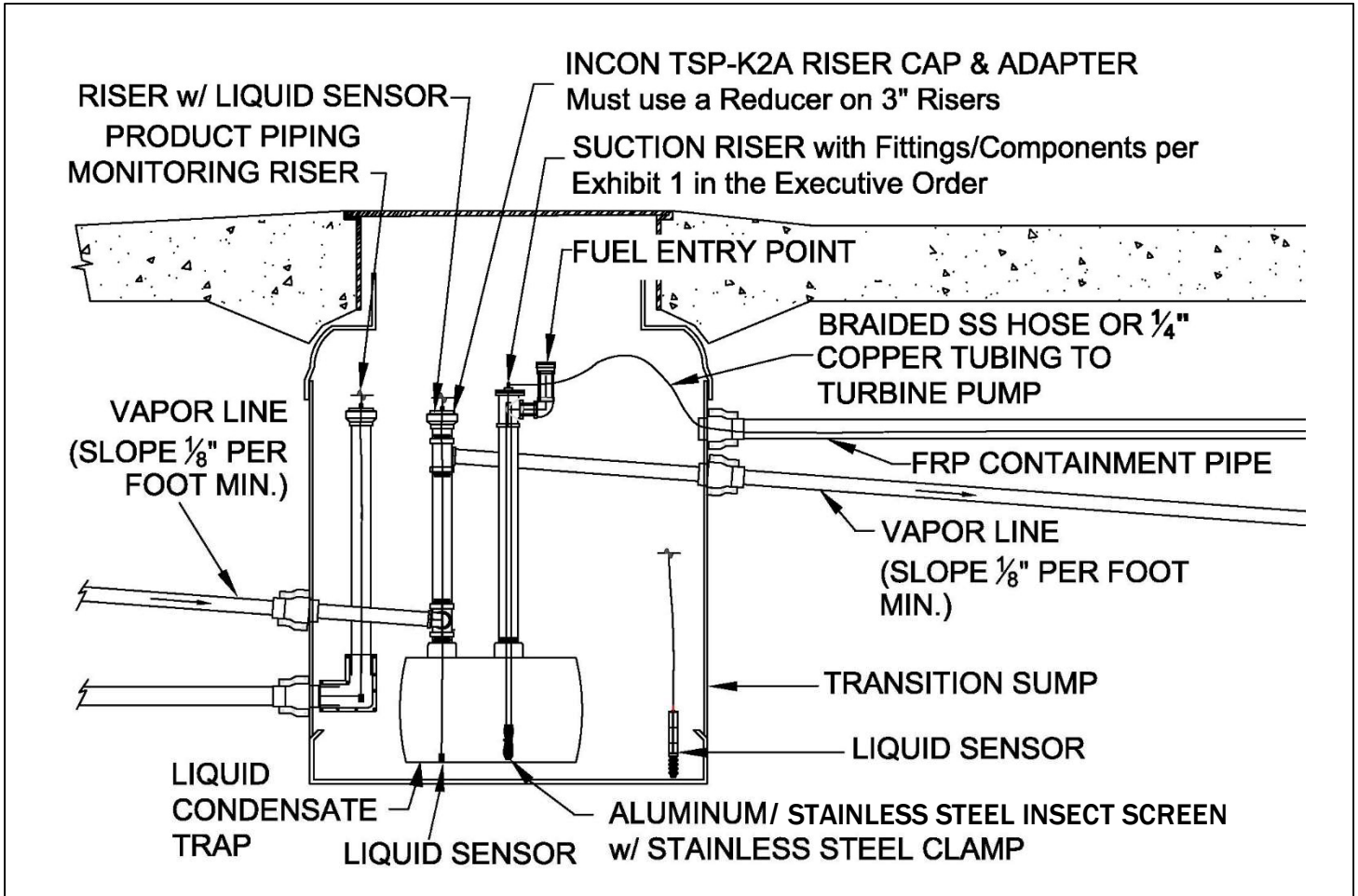


FIGURE 1-14
Veeder Root TLS-350 Maintenance Tracker Kit (optional)

**Veeder Root TLS-350 Series
Maintenance Tracker Technician Key**



**Veeder Root TLS-350 Maintenance Tracker Interface Module
RS232/485 Dual Module with DB9 Converter or Single Port Module with DB-25
converter**

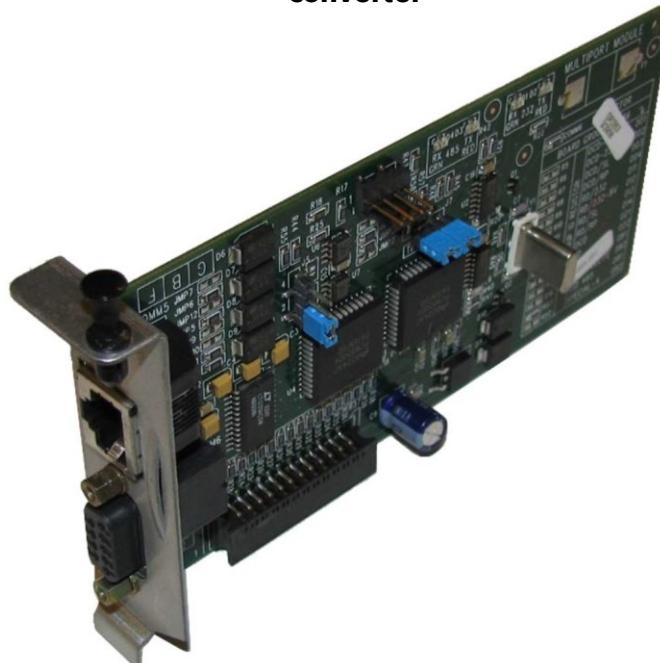
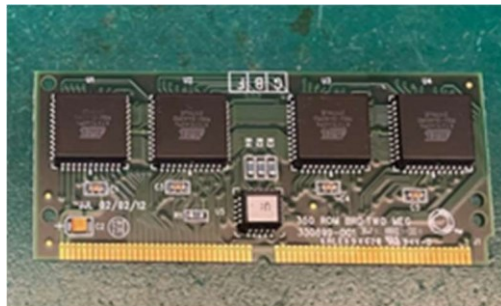


FIGURE 1-15
Veeder-Root TLS-350 Console



Figure 1-15 continued
350 Plus ROM Board
(ROM Part# 330899-001)

Original ROM Board



Certified Alternative ROM Board

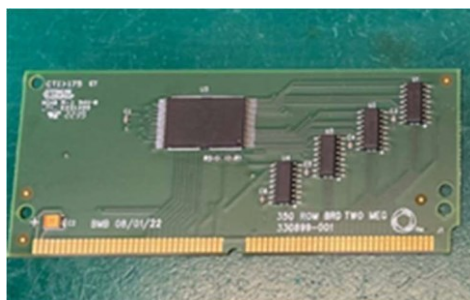


FIGURE 1-16
Veeder-Root TLS-350 RS232 Interface Module Series

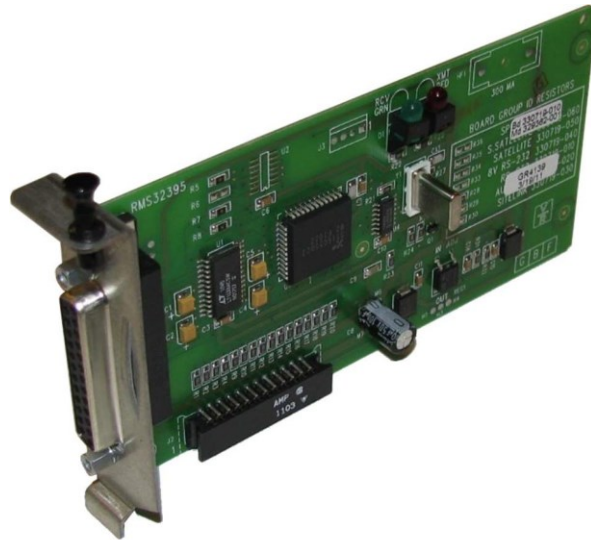


Figure 1-17
Veeder-Root TLS-450PLUS Console



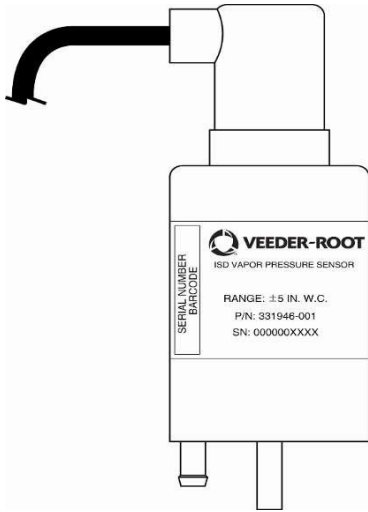
Figure 1-18
Veeder-Root TLS-450PLUS
R232 Interface Module



Figure 1-19
TLS-XB Expansion Box



FIGURE 1-20
Veeder-Root Vapor Pressure Sensors



Model # 331946-001
Vapor Pressure Sensor



Model # 861190-201
Low Powered Vapor Pressure Sensor



Model # 330020-717
Dryer Tube

FIGURE 1-21
Veeder-Root 329356-004, 332250-001
Smart Sensor Interface Module

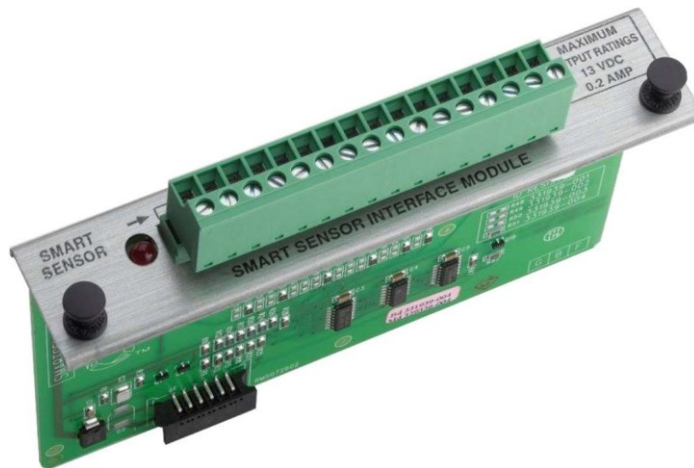


Figure 1-22
Veeder-Root Universal Sensor Module/ATM

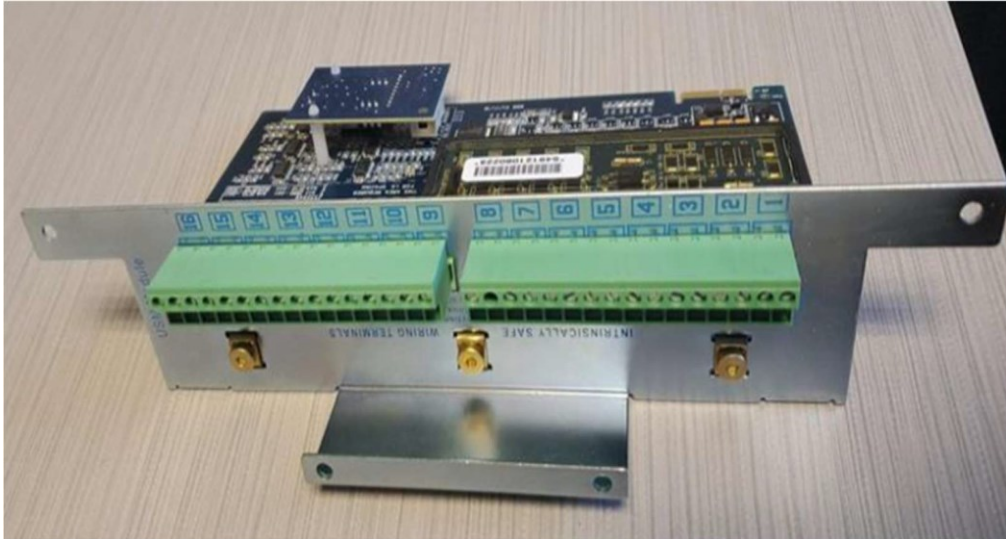


FIGURE 1-23
Veeder-Root Wireless Components (Optional)



Wireless RF Receiver



Wireless RF Repeater



Wireless RF Transmitter



Wireless RF Battery

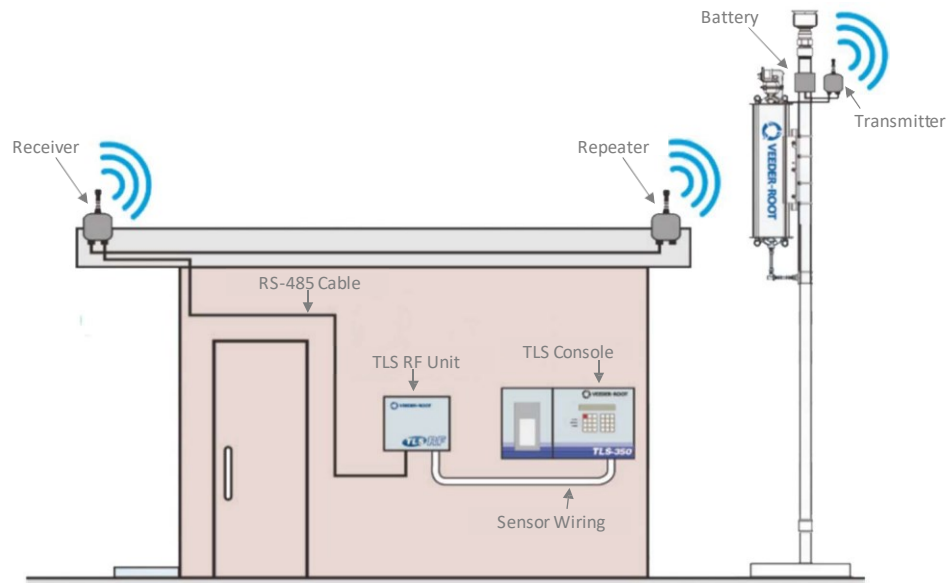


Wireless TLS RF Console

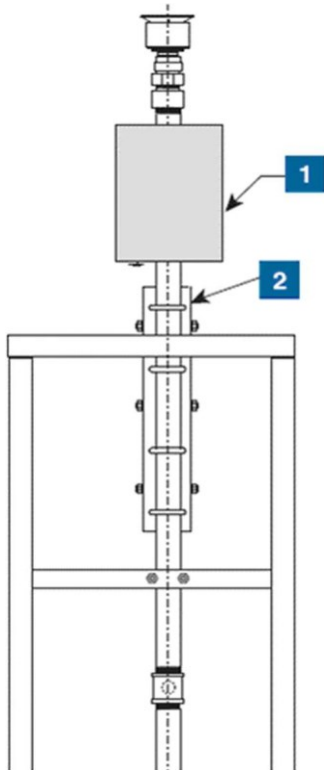


Wireless Enclosure

FIGURE 1-24
Typical Wireless Configuration for Veeder-Root Vapor Polisher



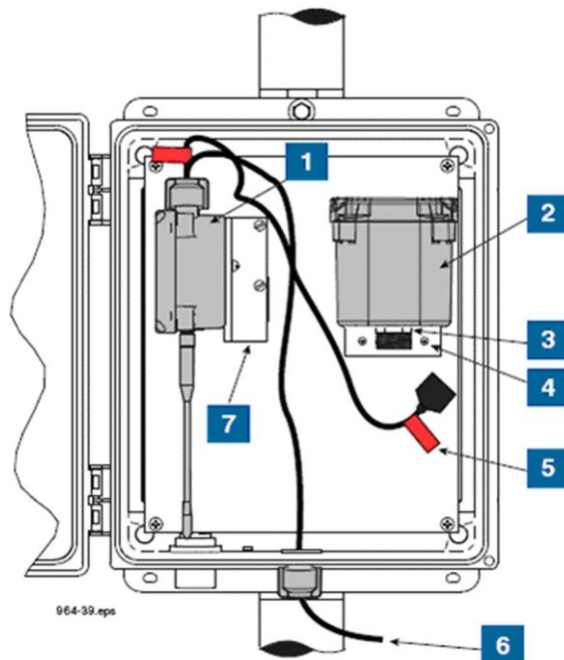
Example CCVP installation Bracket and Universal Enclosure on vent stack



LEGEND FOR NUMBERED BOXES

1. CCVP transmitter/battery enclosure on vent stack
2. CCVP support bracket

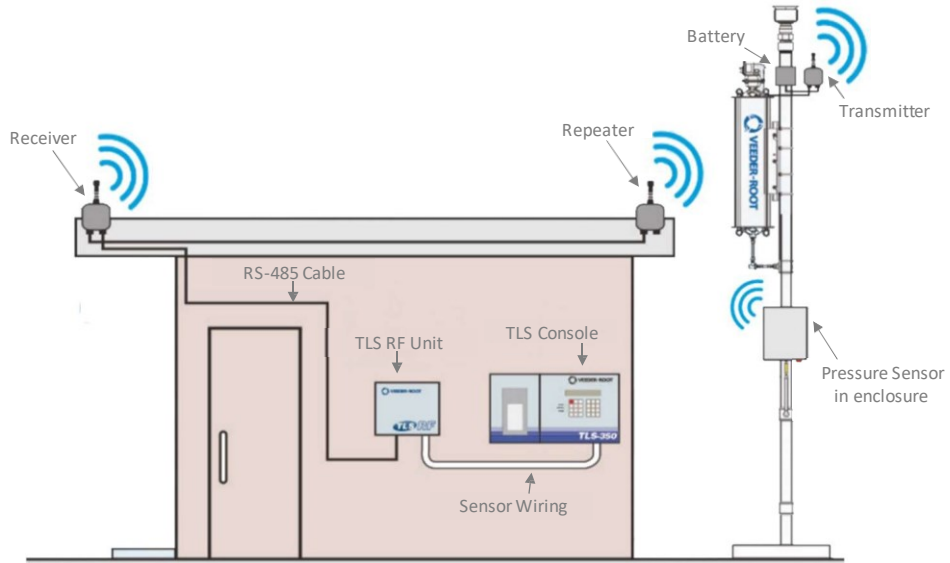
Example VRPS transmitter/battery pack Installation in vent stack enclosure



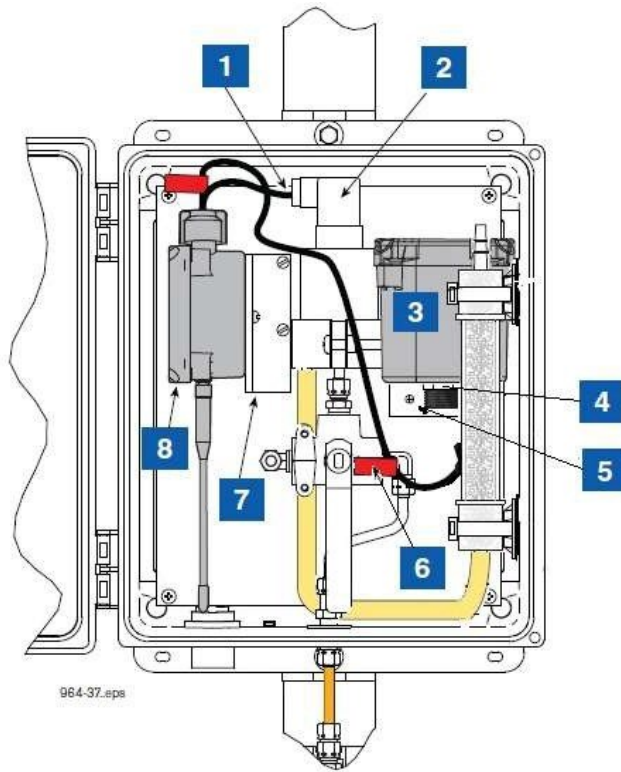
LEGEND FOR NUMBERED BOXES

- | | |
|--|--|
| 1. Transmitter | 5. Battery caution label attached to battery cable (2 places) |
| 2. Battery Pack | 6. Cable from CCVP |
| 3. Thin Hex Nut | 7. Attached Transmitter L bracket using two #10 taptite screws |
| 4. Attach Battery L bracket using two #10 taptite screws | |

FIGURE 1-25
Typical Wireless Configuration for Veeder-Root Pressure Sensor



Example VRPS transmitter/battery pack Installation in vent stack enclosure



964-37.eps

LEGEND FOR NUMBERED BOXES	
1. VRPS Cable	5. Attach Battery L bracket using two #10 taptite screws
2. VRPS	6. Battery caution label attached to battery cable (2 places)
3. Battery Pack	7. Attached Battery L bracket using two #10 taptite screws
4. Thin Hex Nut	8. Transmitter