

ISD Post-Installation Checklist

Refer to Post Installation Checklist to review installation. If you should experience Low Or No VL Ratio during the Operability test, additional information on those results is discussed after the checklist.

		DATE _____
SERVICE COMPANY NAME		TELEPHONE
SERVICE TECHNICIAN _____		VEEDER-ROOT TECH CERTIFICATION # _____
TRAINING LEVEL (CIRCLE ONE): 2/3 OR 4		ISD TRAINED? <input type="checkbox"/>
STATION NAME		
STATION ADDRESS	CITY	STATE ZIP
<p>WARNING!</p> <p>Before installing any vapor recovery equipment the installer must be familiar with all state and federal regulations regarding the safe installation and operation of each component. (NFPA 30A).</p> <p>A level 2, 3 or 4 certified Veeder-Root contractor or Authorized Service Contractor (ASC) with Veeder-Root In-Station Diagnostics training must be available (on-site) to over-see this post-installation checklist.</p> <p>Review and comply with all the safety warnings in the installation manuals and any other national, State or Local requirements.</p> <p>For a complete list of precautions, please consult the Veeder-Root ISD manuals.</p>		
<p>Required Reference Manuals</p> <p>In-Station Diagnostic Install, Setup and Operation, Manual No. 577013-800 <input type="checkbox"/></p> <p>In-Station Diagnostic System Troubleshooting Guide, Manual No. 577013-819 <input type="checkbox"/></p>		
<p>Tools Needed</p> <p>The following program is available and provided to level 2, 3 or 4 certified contractors who have passed the Veeder-Root In-Station Diagnostics training course:</p> <p>ISD PC Setup Tool, V-R P/N 332333-001 (requires a laptop with the appropriate cabling to make an RS-232 connection to the Veeder-Root TLS Console) <input type="checkbox"/></p>		

ISD with Healy Assist System CheckList

Procedure		
The following recommended procedure can be followed at the completion of the ISD software setup:		<input type="checkbox"/>
STEP 1.	EVR TYPE is set to VACUUM ASSIST?	<input type="checkbox"/>
STEP 2.	VACUUM ASSIST TYPE is set to HEALY VAC?	<input type="checkbox"/>
STEP 3.	NOZZLE A/L RANGE MAX is set to 1.15 and MIN is set to 0.95?	<input type="checkbox"/>
STEP 4.	VAPOR PROCESSOR TYPE is set to NO VAPOR PROCESSOR?	<input type="checkbox"/>
STEP 5.	There is a wired and ENABLED "AIRFLOW METER" (i.e. ISD Vapor Flow Meter) in each vapor recovery dispenser?	<input type="checkbox"/>
STEP 6.	There is a wired and ENABLED "PRESSURE SENSOR" (i.e. ISD Vapor Pressure Sensor)?	<input type="checkbox"/>
STEP 7.	The FUEL HOSE TABLE is setup and filled out for each vapor recovery hose?	<input type="checkbox"/>
STEP 8.	The ISD FUEL GRADE HOSE MAP does not contain entries for non vapor recovery hoses (e.g. diesel)?	<input type="checkbox"/>
STEP 9.	On the TLS press the MODE key until the DIAGNOSTIC MODE menu is displayed (this will cause a TLS console System Self Test).	<input type="checkbox"/>
STEP 10.	Using the Troubleshooting Guide respond to all ISD Setup ALARMS posted on the printer tape.	<input type="checkbox"/>
STEP 11.	Repeat Steps 8 & 9 until there are no ISD setup or self-test alarms. The TLS Console display reads ALL FUNCTIONS NORMAL.	<input type="checkbox"/>
STEP 12.	Using the ISD PC Setup Tool and the ISD Vapor Pressure Sensor calibration valve: The ISD Vapor Pressure Sensor reads an ambient pressure reading with an offset no greater then +/- 0.20 IWC?	<input type="checkbox"/>
STEP 13.	Returned the ISD Vapor Pressure Sensor calibration valve so that the sensor is reading UST vapor pressure?	<input type="checkbox"/>
STEP 14.	Using the ISD PC Setup Tool: An ISD A/L reading is coming in for each gas hose at the location?	<input type="checkbox"/>
STEP 15.	The TLS console clock is set to the correct date & time?	<input type="checkbox"/>

Question

Why are the V/L extremely low or non-existent when running tests with the PC Setup Tool immediately after installation?

Explanation

1. Refer to Post Installation Checklist (on page 1) to review installation.
2. If the V/L are non-existent or extremely low (50%) for all nozzles during the Operability Test - it indicates an air flow meter problem.
 - If the BirProtocolDim is installed make sure there is a 'G' in the DIM string.
 - Healy Vacuum pump V/L needs to be set.
 - Check the ball valve between the Healy pump and air flow meter is not closed or partially closed.
 - Check that the installed meter does not still have the dust caps on. This will significantly reduce airflow for both all nozzles on the dispenser.

See fnn: CHK VAPOR FLOW MTR troubleshooting procedures (on page 23 of V-R manual 577013-819).

Question

How come some of the SmartSensor airflow meters do not show up in the EVR/ISD > AIRFLOW METER SELECT setup menu so I can ENABLE them?

Explanation

- ISD can only use SmartSensors numbered 1 - 26. Ensure that all the ISD SmartSensors are numbered 1 - 26 by moving the ISD SmartSensors to be ahead of other SmartSensors installed in the system. If SmartSensors were moved to change the SmartSensor numbers of the airflow meters into the range of 1 - 26 you may need to cold boot the system before ISD will add them to the list of available airflow meters.

ISD with VST Balance system/VST EMC Membrane Processor CheckList

Procedure	
The following recommended procedure can be followed at the completion of the ISD software setup for VST Balance Systems with VST EMC Membrane Processor:	
STEP 1.	EVR TYPE is set to BALANCE? <input type="checkbox"/>
STEP 2.	The Balance Nozzle Type is VST? <input type="checkbox"/>
STEP 3.	The Vapor Processor set to VST Vapor Processor? <input type="checkbox"/>
STEP 4.	There is a wired and ENABLED Hydrocarbon Sensor? <input type="checkbox"/>
STEP 5.	There is a wired and ENABLED 'AIRFLOW METER' (i.e. ISD Vapor Flow Meter) in each vapor recovery dispenser? <input type="checkbox"/>
STEP 6.	There is a wired and ENABLED 'PRESSURE SENSOR' (i.e. ISD Vapor Pressure Sensor)? <input type="checkbox"/>
STEP 7.	The FUEL HOSE TABLE is setup and filled out for each vapor recovery hose? <input type="checkbox"/>
STEP 8.	The ISD FUEL GRADE HOSE MAP does not contain entries for non vapor recovery hoses (e.g. diesel)? <input type="checkbox"/>
STEP 9.	PMC setup Vapor Processor Max Runtime is set to 30 minutes? <input type="checkbox"/>
STEP 10.	PMC setup Turn Off Vapor Processor is set to -0.2 IWC? <input type="checkbox"/>
STEP 11.	PMC setup Turn On Vapor Processor is set to +0.2 IWC? <input type="checkbox"/>
STEP 12.	On the TLS press the MODE key until the DIAGNOSTIC MODE menu is displayed (this will cause a TLS console System Self Test). <input type="checkbox"/>
STEP 13.	Using the Troubleshooting Guide respond to all ISD Setup ALARMS posted on the printer tape. <input type="checkbox"/>
STEP 14.	Repeat Steps 12 & 13 until there are no ISD setup or self-test alarms. The TLS Console display reads ALL FUNCTIONS NORMAL. <input type="checkbox"/>
STEP 15.	Using the ISD PC Setup Tool and the ISD Vapor Pressure Sensor calibration valve: The ISD Vapor Pressure Sensor reads an ambient pressure reading with an offset no greater then ± 0.20 IWC? <input type="checkbox"/>
STEP 16.	Returned the ISD Vapor Pressure Sensor calibration valve so that the sensor is reading UST vapor pressure? <input type="checkbox"/>
STEP 17.	Using the ISD PC Setup Tool: An ISD A/L reading is coming in for each gas hose at the location? <input type="checkbox"/>
STEP 18.	The TLS console clock is set to the correct date & time? <input type="checkbox"/>

ISD with VST Balance system/VR Vapor Polisher CheckList

<p>Procedure The following recommended procedure can be followed at the completion of the ISD software setup for VST Balance Systems with Veeder-Root Vapor Polisher:</p>		
STEP 1.	EVR TYPE is set to BALANCE?	<input type="checkbox"/>
STEP 2.	The Balance Nozzle Type is VST?	<input type="checkbox"/>
STEP 3.	The Vapor Processor set to Veeder-Root Polisher?	<input type="checkbox"/>
STEP 4.	There is a wired and ENABLED 'AIRFLOW METER' (i.e. ISD Vapor Flow Meter) in each vapor recovery dispenser?	<input type="checkbox"/>
STEP 5.	There is a wired and ENABLED 'PRESSURE SENSOR' (i.e. ISD Vapor Pressure Sensor)?	<input type="checkbox"/>
STEP 6.	The FUEL HOSE TABLE is setup and filled out for each vapor recovery hose?	<input type="checkbox"/>
STEP 7.	The ISD FUEL GRADE HOSE MAP does not contain entries for non vapor recovery hoses (e.g. diesel)?	<input type="checkbox"/>
STEP 8.	On the TLS press the MODE key until the DIAGNOSTIC MODE menu is displayed (this will cause a TLS console System Self Test).	
STEP 9.	Using the Troubleshooting Guide respond to all ISD Setup ALARMS posted on the printer tape.	<input type="checkbox"/>
STEP 10.	Repeat Steps 8 & 9 until there are no ISD setup or self-test alarms. The TLS Console display reads ALL FUNCTIONS NORMAL.	<input type="checkbox"/>
STEP 11.	Using the ISD PC Setup Tool and the ISD Vapor Pressure Sensor calibration valve: The ISD Vapor Pressure Sensor reads an ambient pressure reading with an offset no greater then ± 0.20 IWC?	<input type="checkbox"/>
STEP 12.	Returned the ISD Vapor Pressure Sensor calibration valve so that the sensor is reading UST vapor pressure?	<input type="checkbox"/>
STEP 13.	Using the ISD PC Setup Tool: An ISD A/L reading is coming in for each gas hose at the location?	<input type="checkbox"/>
STEP 14.	The TLS console clock is set to the correct date & time?	<input type="checkbox"/>