

VistaCool™

Installation Guide & Owner's Manual



Model V7601

VistaCool™

**Direct-to-Drain Thermal Reduction
System for Autoclave Wastewater**



Includes CSA-Certified
VistaCheck Dual Check
Backflow Preventer

PATENT PENDING

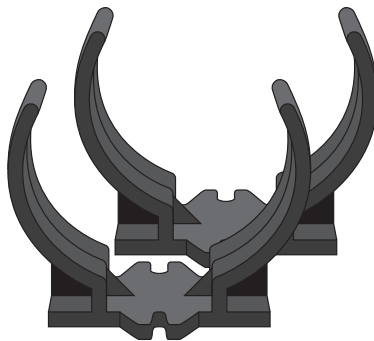
**VistaCool model V7601
can be used with:**
SciCan STAT/M 2000
SciCan STAT/M 5000

Introduction

VistaCool is a patent-pending system designed to eliminate the need for autoclave condenser/ waste bottles and condensation tanks by cooling the exhaust water and automatically sending it directly down the drain.

IMPORTANT INFORMATION

Please read this entire manual before proceeding with installation and operation, and always follow local plumbing codes. This VistaCool model has been verified for installation on SciCan STAT/M 2000 and 5000 models only.



x2 **S9125**
Wall-Mount C-Clip (3.5")



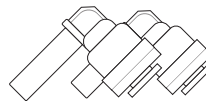
VC250-A
VistaCheck Dual Check
Backflow Preventer



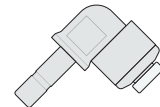
S7508
Inline Thermal
Sensor Assembly



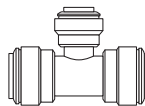
x4 **S7539**
Cabinet Grommet



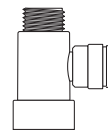
x2 **S6112**
Swivel Plug-In Elbow



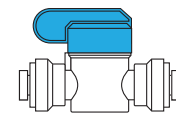
S1056
High-Temperature
Swivel Plug-In Elbow



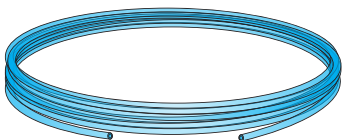
S6119
3/8" x 3/8" x 1/4" Union Tee



S6135
Angle Stop Adapter



S6155
Inline Shut-Off Valve



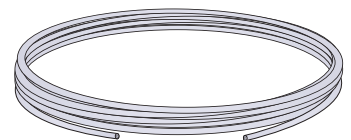
12' **TU902**
Cold Water Feed Line
1/4" OD x 1/8" ID
Blue Transparent Polyurethane



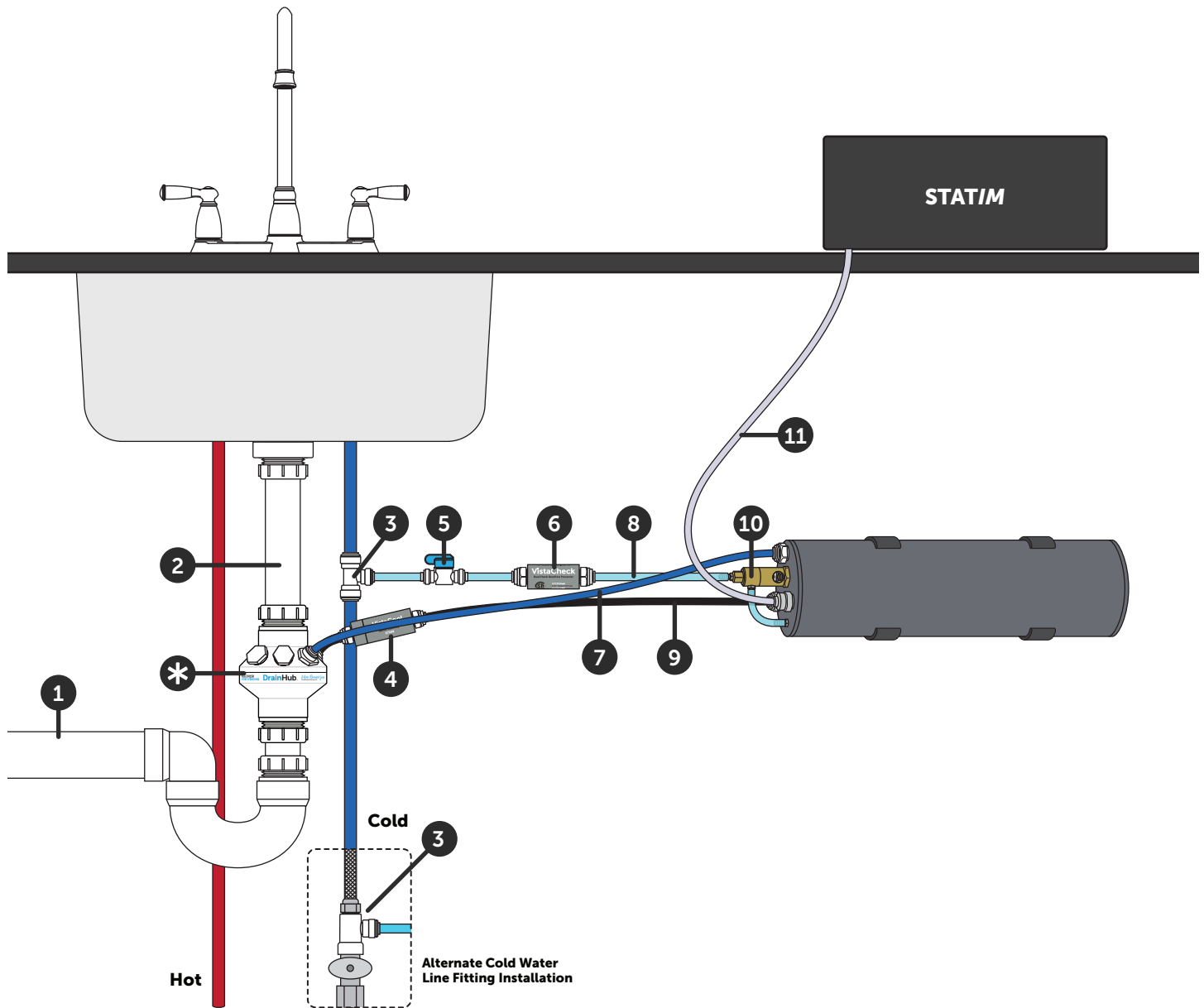
12' **TU944**
Condensate Drain Line
1/4" OD x 0.170" ID
Black Opaque LLDPE



12' **TU942**
Coolant Overflow Drain Line
1/4" OD x 0.170" ID
Blue Opaque LLDPE



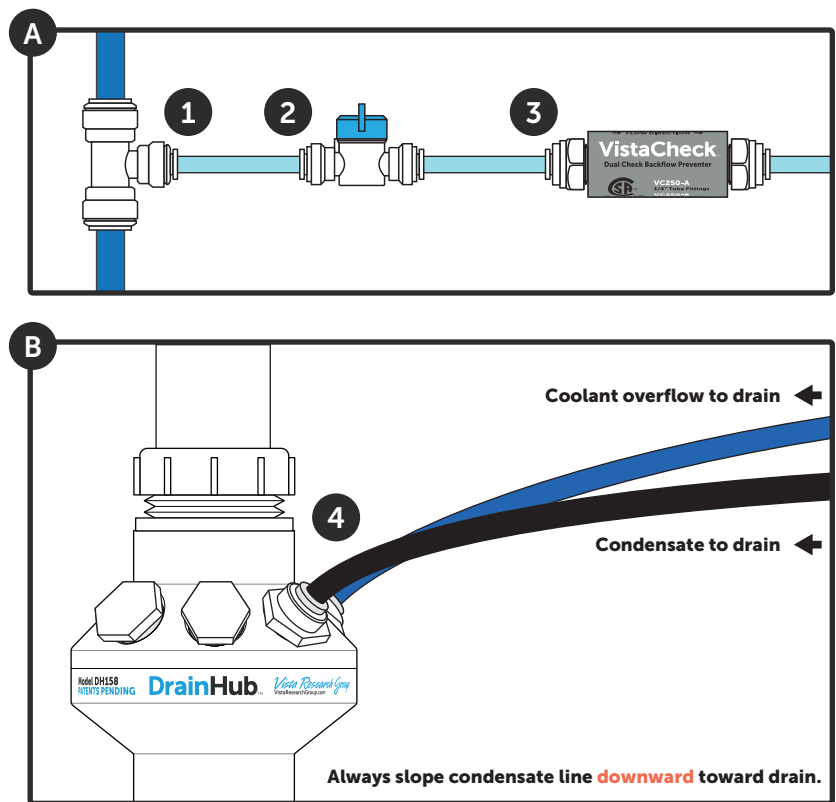
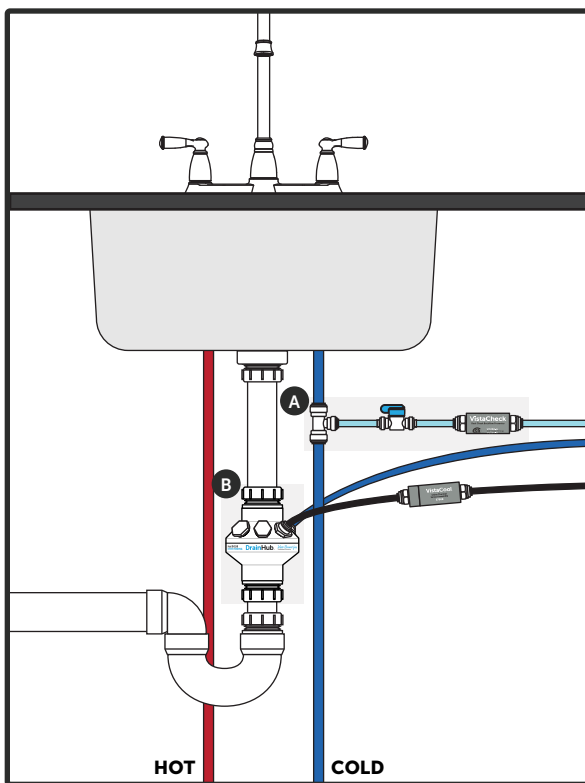
9' **TU748**
High Temperature Feed Line
1/4" OD x 0.185" ID
Teflon®



- | | | |
|----------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1 Drain Line | 5 S6155
Inline Shut-Off Valve | 9 TU944
Condensate Drain Line |
| 2 Sink Drain | 6 VC250-A
VistaCheck Backflow Preventer | 10 S7503
Thermal Regulator Assembly |
| 3 S6119 or S6135
Cold Water Line Fitting | 7 TU942
Coolant Overflow Drain Line | 11 TU748
High-Temperature Feed Line |
| 4 S7508
Inline Thermal Sensor Assembly | 8 TU902
Cold Water Feed Line | * Drain connections to be provided
by plumber. Recommend DrainHub
DH154 or DH158 where allowed by
local plumbing code. |

Plumbing

- 1 Turn off water supply. Provide for a 1/4" connection to the cold water supply. This is usually accomplished using a compression fitting or one of the supplied fittings (S6119 or S6135) on the cold water line. **Be sure any possible construction debris is flushed completely from the supply line.**
- 2 Cut a 3" to 4" piece of the blue poly tubing and connect the installed fitting (from step 1) to the inlet of the inline water valve provided. Be certain the valve is in the closed position (blue lever 90-degrees to the valve body).
- 3 Cut another 3" to 4" piece of blue poly tubing and connect one end to the outlet end of the inline valve, and the other end to the inlet of the supplied CSA-certified VistaCheck dual check backflow preventer.
- 4 Measure the plumber-provided drain tee adapter assembly or DrainHub multi-port drain adapter for placement into the drain piping. Cut and remove a section in the appropriate place above the trap as shown. Keep the entire assembly as low as possible.

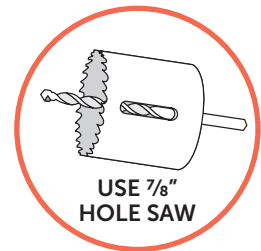
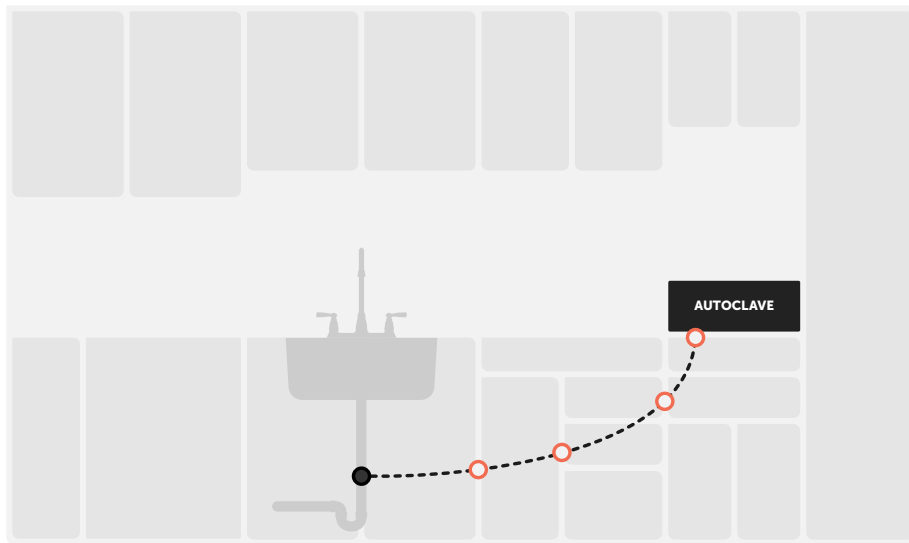


i Connect VistaCool to cold water supply ahead of foot switch (if present) for uninterrupted water supply

Cabinetry

VistaCool systems are typically installed in the base/sink cabinet of sterilization centers or at the sterilization tower if plumbed with separate water and drain connections. The 1/4" O.D. Teflon high-temperature tubing will need to run from the output port of the STAT/M directly to the VistaCool system. This exhaust line should run in a progressively descending trajectory, per STAT/M requirements.

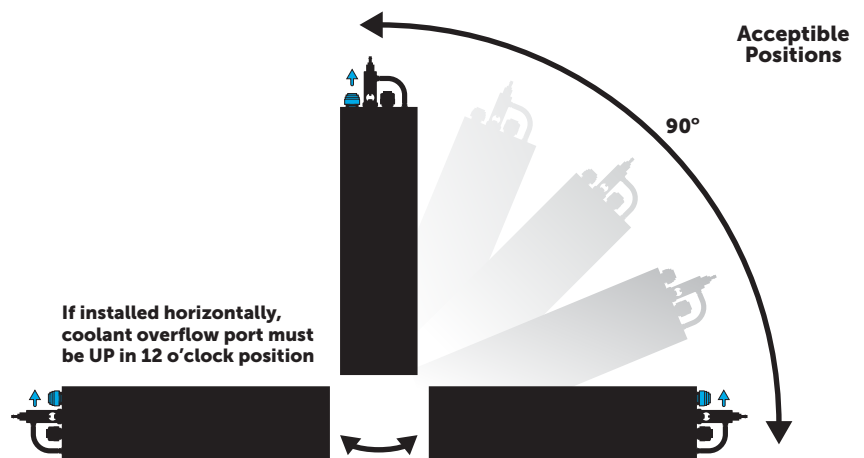
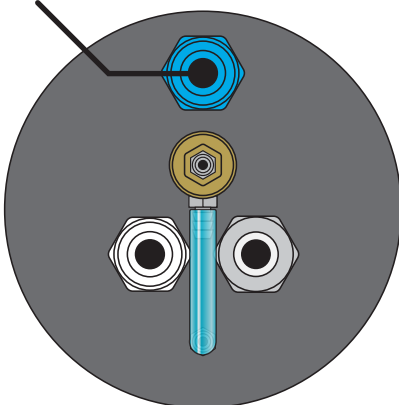
In many cases, holes will need to be drilled through one or more partitions in order to get the tubing from the autoclave to the VistaCool. In order to protect the tubing from kinking or damage, grommets have been included with the prototype. Simply drill a 7/8" pilot hole through the metal or wood partition then push the smooth plastic grommet into the holes. The hole entering the cabinet where the VistaCool is installed should be slightly above the top of the system so the tubing has a natural gravity angle to help prevent pools of liquid in the tubing.



Install VistaCool along dashed path

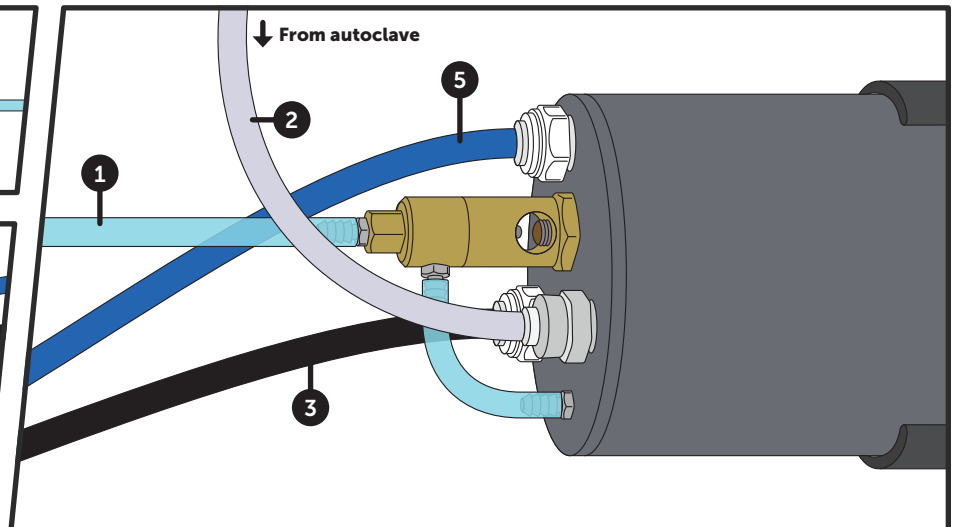
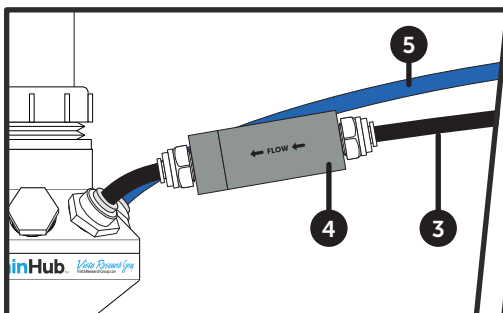
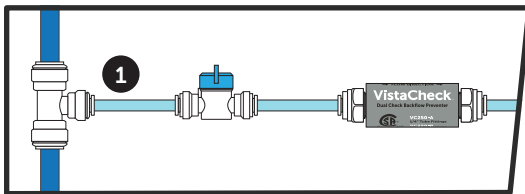
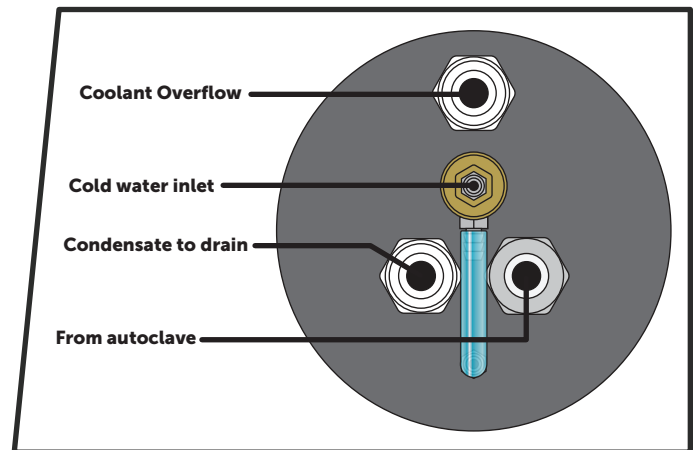
VistaCool may be installed horizontally or vertically. If installed horizontally, the coolant overflow port must be UP in the 12 o'clock position. Do not install the system upside down or at an angle other than shown here as acceptable. Affix both included C-clips securely to the desired mounting surface using appropriate screws to ensure the VistaCool system does not move during operation.

Coolant overflow
always at 12 o'clock



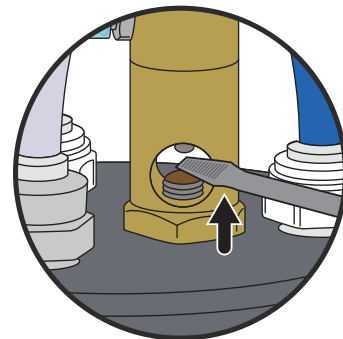
Connecting the System

- 1 Connect the cold water supply to the VistaCool manifold using the blue, semi-transparent (1/4" OD x 1/8" ID) polyurethane tubing. Continue the tubing from the outlet of the VistaCheck to the top stainless hose barb on top of the brass water valve on the thermal regulator. (Optional: warm the end of the tubing with hot water before pushing it over the barb.) Make sure the tubing is pushed down completely over the stem of the barb and is flush with the hex stainless base of the barb.
- 2 Connect the high-temp Teflon 1/4" OD tubing from the STAT/M to the milky white Kynar fitting on the end of the VistaCool manifold. Make sure the tubing does not kink when moving the autoclave or pulling the tubing through the cabinet partition holes. If necessary, use the high-temperature swivel elbow included with the system (S1056) to prevent the high-temp line connected to the STAT/M from kinking.
- 3 Connect the black 1/4" OD LLDPE condensate line tubing to the fitting opposite the milky white Kynar fitting, then connect the other end to one of the male adapter fittings on the plumber-provided drain connection. If necessary, use an included swivel elbow (S6112) to prevent the tubing from kinking.
- 4 Cut the black condensate line (from step 3) as close to the drain adapter assembly as possible and install the in-line thermal sensor. Make certain the flow direction on the in-line sensor is oriented towards the drain.
- 5 Connect one end of the 1/4" OD solid blue LLDPE tubing to the coolant overflow fitting on the system—which must be oriented UP in the 12 o'clock position if the VistaCool is installed horizontally—and the other end to the drain connection. If necessary, use an included swivel elbow (S6112) to prevent the tubing from kinking.



Starting & Using the System

- 1 Turn on the main water supply and check for leaks.
- 2 Slowly open the inline water supply valve fully and check for leaks.
- 3 Prime the system by inserting a small screwdriver in the viewport hole on the brass stem of the thermal regulator and pushing the piston away from the VistaCool body to activate cold water flow. The system is primed when water can be heard flowing through the 1/4" solid blue overflow tubing and running to the drain.
- 4 Ensure the system is installed in an elevated position above the drain connection as described previously to ensure proper flow of the condensate line, as required by STAT/M instructions. **The coolant overflow fitting should always be UP in the 12 o'clock position if the system is installed horizontally.**
- 5 Run three consecutive autoclave cycles to ensure everything is working properly.



Troubleshooting

System is not draining	<ul style="list-style-type: none"> • Ensure water supply valve is in the ON position. • Check for blockages in the tubing.
Autoclave is displaying a cycle fault	<ul style="list-style-type: none"> • Exhaust port line is blocked. Check for kinks in tubing from the autoclave to the VistaCool manifold. • Check that water is running from the tank coolant overflow line to the drain adapter. • Make certain water supply valve is on. If there is no water to cool the coil in the tank, the inline thermal sensor located in the condensate line will respond by closing the pathway to alert you of the problem and protect the plumbing from steam.
The black condensate line appears to be blocked	<ul style="list-style-type: none"> • The inline thermal sensor has been activated, blocking condensate flow to the drain, caused by a lack of coolant water in the tank that overheated the condensate. Overheated condensate will cause the wax motor to expand, closing the outlet. To reset the inline sensor and enable flow to resume, allow the system to rest and cool naturally. The inline sensor's wax-motor piston will retract, opening the outlet port.
Water leaking under counter	<ul style="list-style-type: none"> • Check all tubing and fitting connections • Push in on all push-to-connect fittings to ensure the tubing is fully engaged in the fitting "O" ring.

VistaCool System Information

Thank you for choosing the VistaCool Direct-to-Drain Thermal Reduction System for Autoclave Wastewater for your practice! The following chart is for necessary information for future reference. Please fill it out completely and keep this manual in a convenient place for ready access and reference.

Be sure to use our convenient online warranty registration form at vrg.support/register. If you'd prefer, you may complete and return the included "Warranty Registration" sheet. Make a copy of the form for your records, then mail the original to us.

VistaCool Direct-to-Drain Thermal Reduction Systems for Autoclave Wastewater		System Model #	V7601
Install Date		System Serial #	
Dealer		Installer Name	
Dealer Phone		Installer Phone	
Dealer Address		Notes	