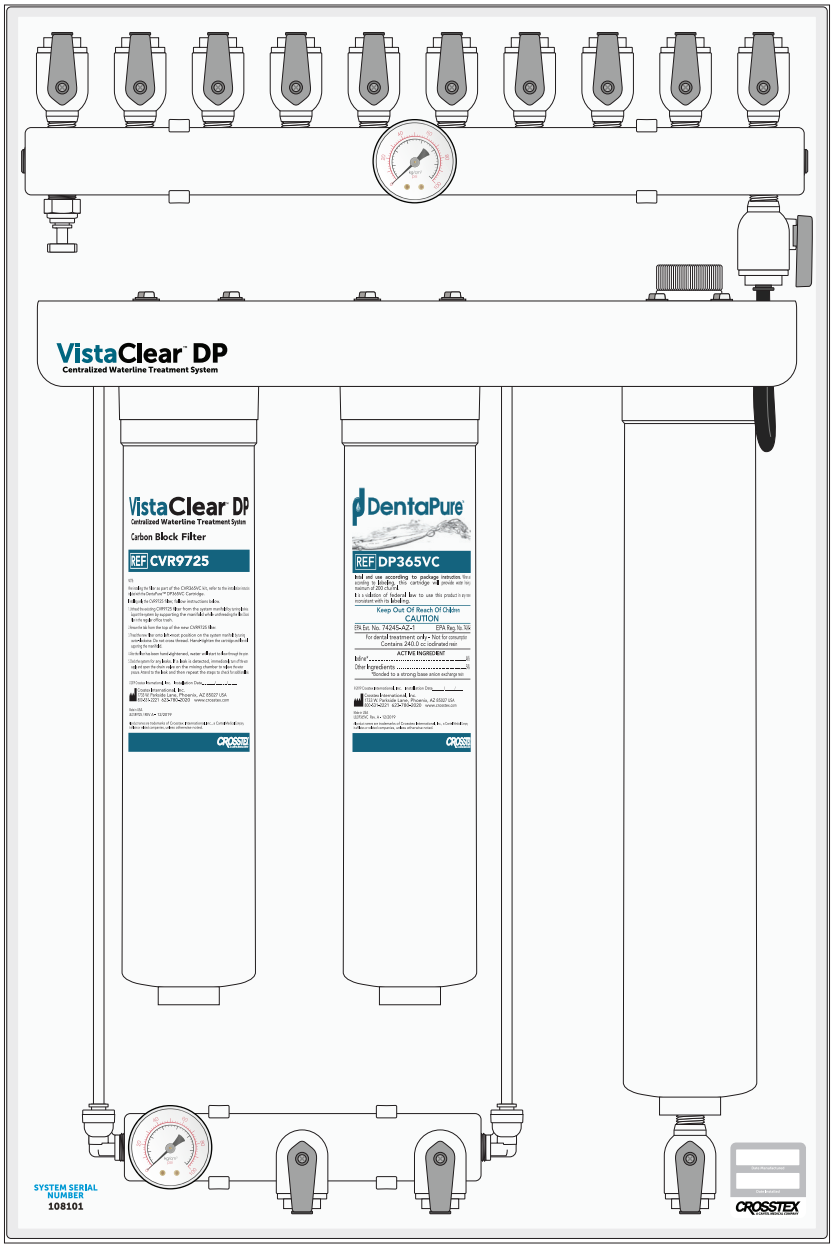
VistaClear™ DP

Centralized Waterline Treatment System
Installation Guide & Owner's Manual



Model CVV1000-DP
(V1000-DP)

CROSSTEX
A CANTEL MEDICAL COMPANY

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Introduction

The VistaClear™ DP Centralized Waterline Treatment System is a patented dental waterline treatment system that is designed to provide centralized backflow prevention and micron-level filtration for water used for general dentistry applications including irrigation, cooling, lubrication and scaling procedures.

A DentaPure™ Cartridge is included inside the VistaClear DP Centralized Waterline Treatment System box.

The DentaPure Cartridge reduces microbial contamination from the procedural water supplied through the instruments to meet water quality having <200 CFU/mL.

It is important never to use water from a standard dental delivery system during surgical procedures. Instead, use sterile water or saline delivered by sterile means, such as autoclavable bulb syringes, or autoclavable or disposable sterile tubing (per CDC MMWR *Guidelines for Infection Control in Dental Health-Care Settings – 2003*).

The VistaClear DP Centralized Waterline Treatment System can be installed in an equipment room, hallway or cabinetry located centrally in an office to provide filtered water to all handpieces, air/water syringes, scalers and quick-disconnects in each dental operatory. The system provides a centralized delivery method for periodic antimicrobial treatments for dental unit waterlines. This manual includes instructions for delivering antimicrobial treatments upon system installation and for maintenance, as needed. The system also includes third-party-certified VistaCheck™ Dual Check Valve Backflow Preventers, which can eliminate the need for RPZ valves and other backflow prevention devices in most municipalities.

Please Note:

Use of a VistaClear DP Centralized Waterline Treatment System does not, by itself, eliminate the need for proper user maintenance. Due to the nature and complex design of dental delivery units, the periodic use of antimicrobial waterline cleaners is extremely important for proper dental waterline care.

According to the CDC, even sterile water introduced to a typical dental delivery system can be contaminated quickly due to a combination of factors, including: low-volume, slow flow rates; the use of small-diameter tubing that contributes to laminar water flow; acquiescence to room temperature; and the use of quick-connect fittings, handpieces and other devices that can introduce contamination from the environment to the waterlines.

While DentaPure Cartridges do not require monitoring, Crosstex supports all recommended/ required monitoring guidance. Should microbial water quality ever exceed 500 CFU/mL, the waterlines should be flushed and treated with an approved antimicrobial cleaner.

IMPORTANT INFORMATION

For System Owners

We recommend that a professional technician or plumber familiar with dental/medical offices perform the system installation since interface with a cold water supply line, drain, and air supply line is involved. He/she should be familiar with local plumbing codes and techniques for successful dental/medical equipment installations.

Please keep the Installation Guide & Owner's Manual handy for future reference and ensure that anyone responsible for operation and maintenance of the system is familiar with all the details contained in this manual.

The Carbon Block Filter included with this system contains an antimicrobial agent (elemental iodine) that helps to protect the filter, system and waterlines from microbiological colonization. Both the Carbon Block Filter (CVR9725) and DentaPure Cartridge (DP365VC) should be changed at least once per year, or after 2,400 liters of use, whichever occurs first. Do not operate the system unless both elements are installed in their proper locations.

The VistaClear DP Centralized Waterline Treatment System can be bypassed in an emergency or in case maintenance ever needs to be performed during business hours. Please see instructions on page 14.

Please return the Warranty Registration form or register online at vrg.support/register upon installation.

IMPORTANT INFORMATION

For System Installers

Please read this entire manual before proceeding with installation and operation, and always follow local plumbing codes.

Use only 1/4" O.D. (soft) copper tubing for dedicated lines to each operatory. If copper tubing is unable to be installed for some reason, use only 1/4" O.D. LLDPE tubing. Do NOT use standard plumber's PEX tubing, which is usually 3/8" O.D. Do not exceed 90' in length for runs to any operatory.

Please locate the system label on the corner of the mounting board and record the installation date using a fine-tipped permanent marker or some other writing instrument that will not smear.

For any questions regarding the installation or operation of the system, please see our online support resources at **vrg.support** or call us at (800) 531-2221.

Preparation

Every VistaClear™ DP Centralized Waterline Treatment System comes in one box containing the assembled system board, one Carbon Block Filter (CVR9725), one DentaPure™ Cartridge (DP365VC), and two accessory-kit boxes. Make sure all items needed for installation are present and undamaged. If any damage is evident, contact the shipping company or your distributor immediately.

Included Filter & Cartridge

CVR9725
Carbon Block Filter

DP365VC
DentaPure™ Cartridge

Included Components

CVS1040
Emergency Bypass Kit

CVS2500
Quick-Disconnect Drain Accessory

CVS6115
Union Tee - ¼" Tubing

x2 **CVS6121**
Male Adapter
⅛" NPT x ¼" Tubing

CVS6130
Plug - ¼" Tubing

x2 **CVS7205**
Air & Water Regulator

x2 **CVS7210**
Back-Mount Pressure Gauge

x2 **CVS7215**
Adapter for Regulator
⅛" NPT x ⅜" Tubing

CVS9145
Air Gap Drain Fitting with ¼" Tubing Adapter

3' **CVTU901**
Clear Transparent Poly Tubing
¼" O.D. x ⅛" I.D.

3' **CVTU903**
Yellow Transparent Poly Tubing
¼" O.D. x ⅛" I.D.

3' **CVTU904**
Red Transparent Poly Tubing
¼" O.D. x ⅛" I.D.

6' **CVTU944**
Black LLDPE Tubing
¼" O.D. x 0.17" I.D.

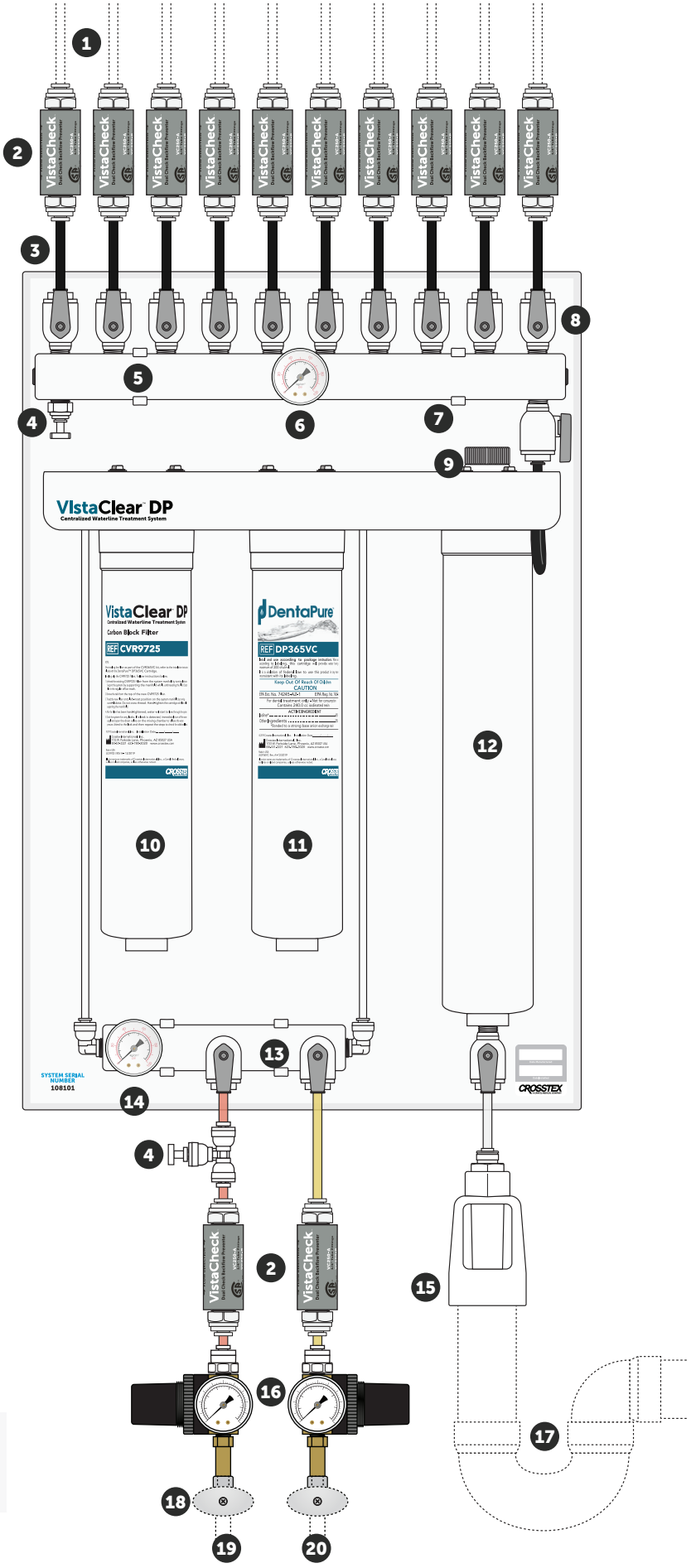
x12 **CVVC250-A**
VistaCheck™ Dual Check Valve Backflow Preventer

IMS-1451 *
Box of VistaTab™ Dental Waterline Cleaner Tablets by Hu-Friedy

* Approved for use in the United States only. Outside the U.S., please follow Alternative Cleaning Procedures outlined on page 12.

System Overview

1. Dedicated ¼" O.D. lines to each operatory
   We recommend using only ¼" O.D. (soft) copper tubing for dedicated lines to each operatory. If copper tubing is unavailable or unable to be installed, use ¼" O.D. LLDPE tubing. Do NOT use standard plumber's PEX tubing, which is usually ⅜" O.D. Do not exceed 90' in length for runs to any operatory.
2. VistaCheck™ Dual Check Backflow Preventers CSA-certified
3. ¼" O.D. LLDPE tubing
4. Bypass fittings
5. Distribution manifold
6. Distribution manifold pressure gauge
7. Mounting clips
8. Operatory ball valves
9. Mixing chamber access port
10. Carbon Block Filter
11. DentaPure™ Cartridge
12. Mixing chamber
13. Control manifold
14. Control manifold pressure gauge
15. Drain air gap assembly (meets ASME A112.1.2-1991, BOCA P-201.0 and P-1505.11)
16. Pressure regulators (set at 40 psi)
17. 1½" drain with trap
18. Shutoff valves
19. Cold water from main supply, after shutoff solenoid
20. Compressed air



Note:

items 1, 17, 18, 19, and 20 to be provided prior to installation by plumbing contractor

Typical System Configurations

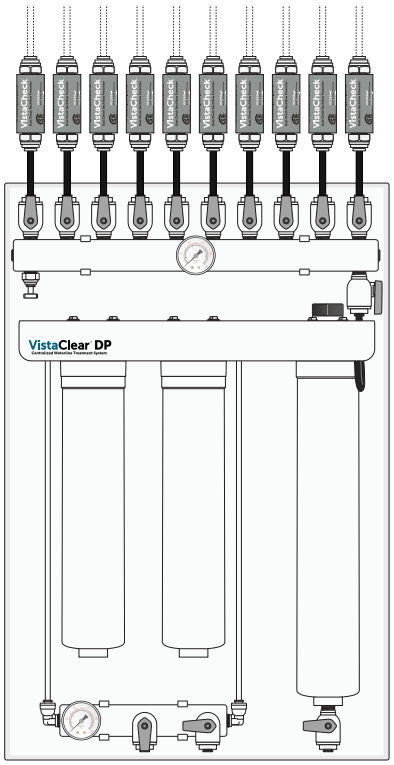
The VistaClear™ DP Centralized Waterline Treatment System standardly serves up to 10 operatories. For offices with more than 10 operatories, multiple systems for distribution "zones" can be used based on need.

Note:
Connect operatory lines starting from the LEFT end of the distribution manifold to prevent "dead legs" where water could become stagnant. Unused or disconnected lines should always be at the right end of the manifold.

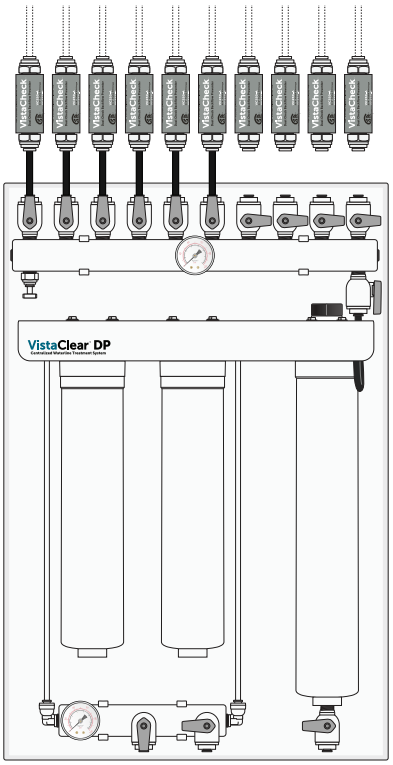
A **Standard 10-Operatory Installation**
VistaClear DP Centralized Waterline Treatment System serving 10 operatories.

B **Installation for 6 Operatories, Pre-plumbed for 4-Operatory Expansion**
10-operatory installation serving only six operatories currently. In this case, the plumbing contractor has already run the copper lines from the system location to operatories #7-10 for future expansion. When ready, all that is required for expansion is the jumper tubing from the distribution manifold to the VistaCheck™ Dual Check Valve Backflow Preventers before opening the lines.

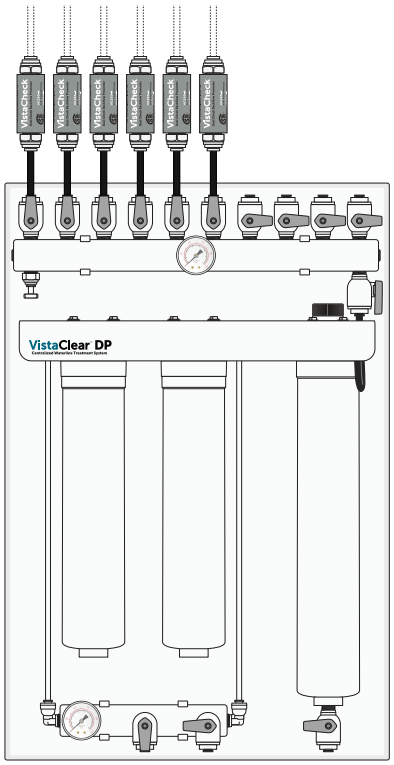
C **Installation for (Only) 6 Operatories**
Six-operatory office requiring only six dedicated lines. Outlet valves on the distribution manifold are simply turned off and plugged permanently, and the two unused VistaCheck Dual Check Valve Backflow Preventers can be stored for replacement at a later date if required.



Example A



Example B



Example C

System Installation

Location

The VistaClear™ DP Centralized Waterline Treatment System should be installed centrally in the dental office—often in an equipment room, sterilization center or hallway—either mounted on a wall or inside cabinetry.

The system should be installed near a pressurized supply of cold, potable municipal water, compressed air, and a drain. Make sure that dedicated 1/4" O.D. soft copper lines are run to each operatory from the desired location for the centrally installed system.

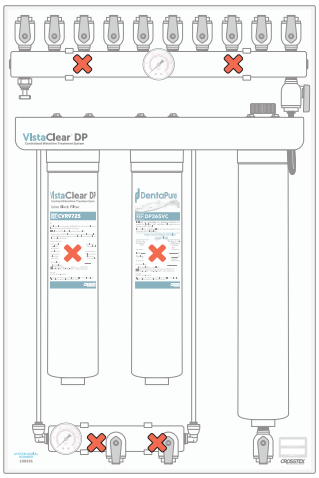
Tools & Supplies Required

Measuring tape	Adjustable wrench	Assorted drill bits & screws	Cotton swabs
Drill	Screwdriver	Tubing cutter or sharp knife	Clean rags

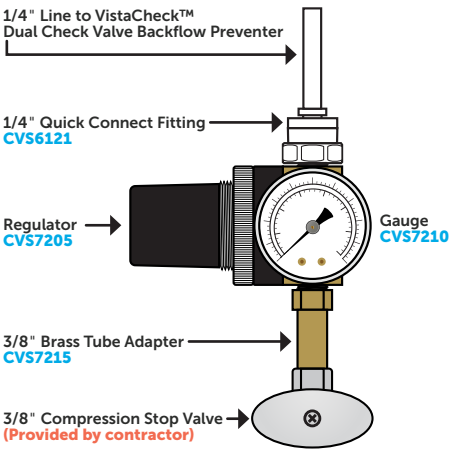
Mounting the System

Always install the system board vertically. The system weighs approximately 25 pounds (11 kg), so use a minimum of two (2) lag screws to mount the system board—ideally into at least one stud or support structure. If no studs are available, be sure to use appropriate anchors.

Tip:
"Hide" anchors behind filters or manifolds near the spots marked with an "X" for a cleaner appearance. Simply remove the filter(s) and/or manifold(s) from their clips, drill pilot hole(s), anchor and replace.



Regulating Water & Air Pressure



Each water and air inlet line should be regulated to 40 psi. Two complete regulator assemblies are included with the system for this purpose.

Assemble each regulator assembly as shown or as required for the plumbing provided by the contractor. To ensure leak-free connections, use Teflon™ Tape or Sealant. Be sure to use the small brass regulator plug on the unused port on the brass body of the regulator.

After connecting regulator assemblies to plumbing shut-off valves, adjust regulator knobs until the outbound pressure for both air and water inlet lines to the system is 40 psi.

Install an included VistaCheck™ Dual Check Valve Backflow Preventer on both the air and water inlet lines above the regulators and before the VistaClear DP Centralized Waterline Treatment System. Make sure that each backflow preventer is oriented in the correct flow direction!

System Installation (Continued)

Connecting the System

After mounting the system, connect the water and air supply lines, the drain line and all individual operatory lines to the VistaClear™ DP Centralized Waterline Treatment System as shown in this manual. A supply of tubing has been included for cutting short transitional pieces to connect the valves on the upper (distribution) manifold of the system to the VistaCheck™ Dual Check Valve Backflow Preventers.

Red	Unfiltered Water (3')	**Yellow**	Compressed Air (3')
Black	System Tubing	**Clear**	Drain Line (3')

1. Use a tubing cutter or sharp razor knife to make sure all tubing cuts are square and clean. Burrs can damage the internal "O" rings of push-to-connect fittings, and scratches on the surface of the tubing can create leak paths.

2. Mark tubing 11⁄16" back from the end—this is the plunge depth into the fitting.

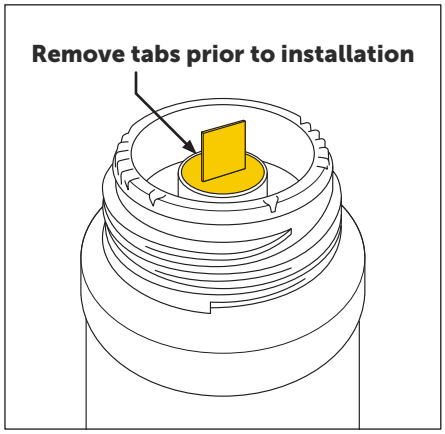
3. To install, push tubing firmly into fittings until it stops (a slight twist while pushing helps). The mark on the tubing will help to confirm that you have achieved full plunge depth.

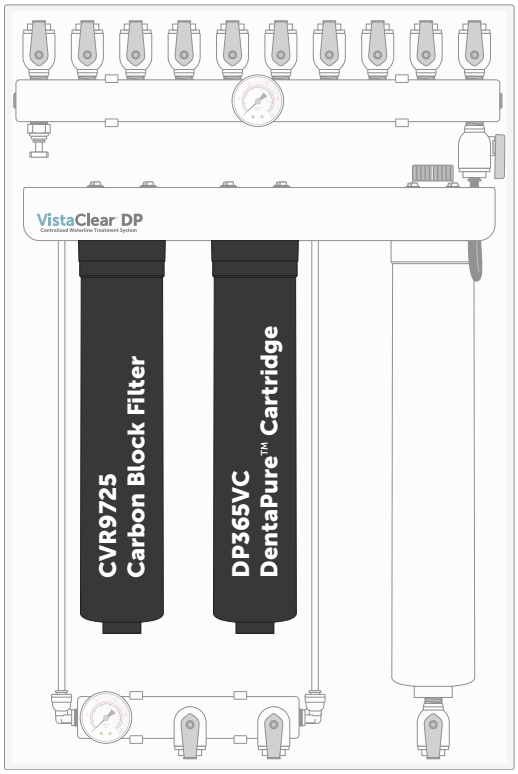
4. To remove tubing (if necessary), simply push in on the collet while pulling the tubing out of the fitting. A gentle twist while pulling helps the fitting release the tubing.

Installing System Filters

1. Remove the tabs from the top of the Carbon Block Filter (CVR9725) and the DentaPure™ Cartridge (DP365VC).

2. Thread the filter and cartridge onto the system manifold in the appropriate locations (see diagram) by turning counter-clockwise. Do not cross thread. Hand-tighten the cartridge and filter while supporting the metal manifold.





Testing the System

1. Temporarily close all outlet valves on the upper (distribution) manifold by turning the handles 90 degrees relative to the waterlines.

2. Confirm that both the Carbon Block Filter and DentaPure™ Cartridge are in position, then turn on the water supply to the system by turning the handle on the water valve on the lower (control) manifold. Water will start to flow through the system.

3. Open the drain valve on the bottom of the mixing chamber to allow air to be purged from the system. Water will begin to flow to the drain. Allow the water to run to the drain for 10 minutes to flush the Carbon Block Filter and DentaPure Cartridge before use.

4. Close the drain valve on the mixing chamber, then check the system for any leaks. If a leak is detected, turn off the water supply and open the drain valve to relieve pressure. Attend to the leak (see "Connecting the System"), then repeat these steps to check for additional leaks.

5. If the system and attached plumbing fittings are leak-free and the dental delivery units in each operatory have been connected to the feed lines from the VistaClear™ DP Centralized Waterline Treatment System, open each of the valves on top of the upper (distribution) manifold of the system that is connected to a dental operatory. Water will flow to each operatory. Check for leaks at the operatory-end of each line.

6. If all connections are leak-free, begin the "Purge & Clean" procedure as described on page 11 of this manual to ensure all waterlines are clean and ready for use. Only upon initial installation, this cleansing procedure should be performed twice.

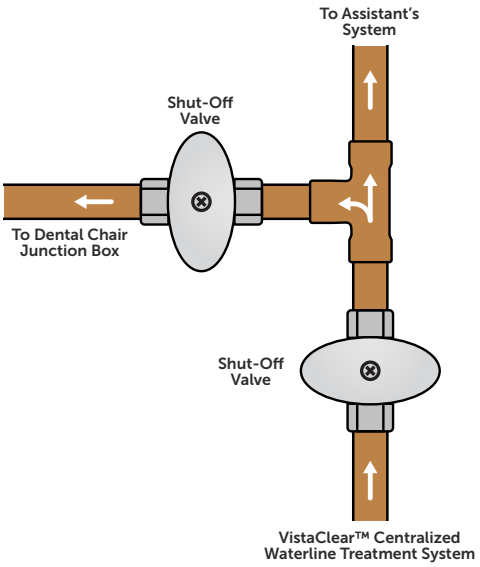
Optional: Multiple-Outlet Connection Instructions

Some operatories have more than one dental delivery system. For example, a dental assistant's system might be located at a side or rear-delivery position, while the doctor might have an "over-the-patient" system.

It is possible to provide filtered water to two delivery systems in the same operatory by using multiple shut-off valves configured as shown here. Never split lines between operatories, only within an individual operatory.

Usually the main valve after the filtration system would be located inside cabinetry at the rear or side delivery position, with the secondary waterline running under the floor in a trench or conduit system to the dental chair. An additional valve will be needed in the junction box at the chair.

Both dental delivery systems will be able to be purged with air and flushed with proper cleaning agents if this design is utilized. If, for some reason, the main (assistant's) dental unit will be in constant use but the secondary (chair) line out of service or disconnected for long periods, the secondary line should be purged of all water and the valve serving the chair in the cabinetry shut off. If water stagnates in such a "dead leg," it could encourage the growth of organisms.



System Maintenance

As with any piece of equipment, proper installation and maintenance of your VistaClear™ DP Centralized Waterline Treatment System is critical. After installation, the dental waterlines will need to be cleaned to remove any contamination following the "Purge & Clean" procedure outlined on page 11 twice. The installer or service technician should perform the initial line cleaning.

DAILY

Refer to the DentaPure™ Cartridge IFU packaged with the cartridge for directions for daily use following installation. These directions are also available at Crosstex.com.

- Discharge all water-bearing lines at the beginning of each work day for a minimum of two (2) minutes. This should include all handpiece, syringe and quick-disconnect lines with handpieces and tips removed.
- Purge all water-bearing lines for a minimum of 20-30 seconds after each patient.

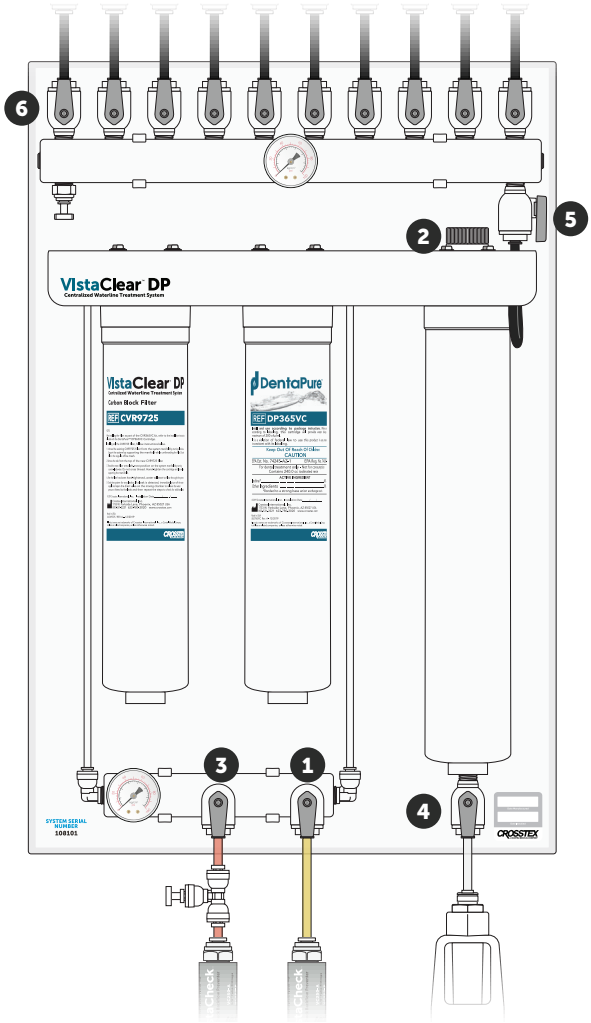
ANNUALLY

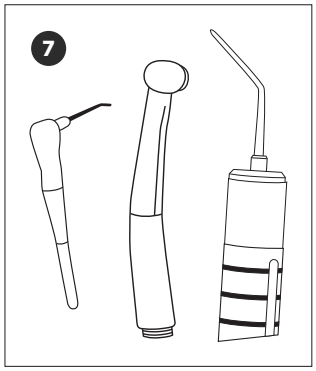
Change Carbon Block Filter and DentaPure Cartridge as outlined on page 13. For your convenience, a two-element annual replacement kit is available from your dental dealer (part number CVR365VC).

Test VistaCheck™ Dual Check Valve Backflow Preventer backflow preventers as outlined on page 14.

Perform "Purge & Clean" procedure outlined on page 11 only upon initial system installation and if water test results ever show >200 CFU/mL.

1. Air inlet valve
2. Mixing chamber cap
3. Water inlet valve
4. Drain valve
5. Distribution manifold valve
6. Operatory valves





Purge & Clean Procedure

Step 1: Purging the System & Waterlines

1. Close the water inlet valve 3.
2. Slowly open the drain valve 4.
3. Open the air valve 1.
4. Close the drain valve 4 when water stops running to the drain.
5. Discharge all dental appliance lines 7 in each operatory into sink, cup or bucket until all water is evacuated and air emerges. **Begin by discharging the quick-disconnect fitting on the delivery unit, if present, to speed the process considerably.**
6. Close the air valve 1.
7. Open the drain valve 4 to relieve all pressure from the system.
8. Close the drain valve 4.
9. Close all operatory valves 6.

Step 2: Adding Line Cleaner

You will need to follow this procedure for each operatory, one at a time. Never attempt to add cleaner if there is pressure on the system!

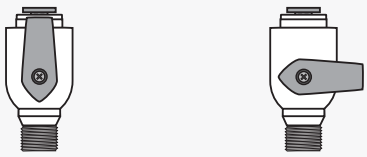
1. Remove the mixing chamber cap 2 from the top of the mixing chamber.
2. Add one VistaTab™ Waterline Cleaner Tablet* to the chamber and thread the cap back into place. (Use two tabs per operatory for initial cleaning after system installation.)
3. Open the water inlet valve 3 to fill the mixing chamber with water to dissolve the tablet.
4. Close the water inlet valve 3 when the two gauges read the same pressure and the mixing chamber is full. Wait at least one minute for the tab to dissolve completely.
5. Open the air inlet valve 1.
6. Open one of the valves 6 for the operatory to be treated.
7. Go to operatory and discharge all dental appliance lines 7 in that operatory into sink, cup or bucket until all air is evacuated and cleaning solution emerges from each appliance line, then stop. **Again, start with the quick-disconnect fitting on the delivery unit to speed the process.**
8. Return to the central system board and close the air valve 1.
9. Open the drain valve 4 to relieve all pressure from the system and both system pressure gauges read zero, then close the drain valve 4.

Repeat Steps 1–9 for all remaining operatories (one operatory at a time) and allow solution to remain in water lines for at least five minutes.

Step 3: Line Rinsing Procedure

1. Slowly open the air valve 1.
2. Slowly open the drain valve 4 to remove remaining cleaner from the mixing chamber.
3. Close the drain valve 4 when air emerges from the drain.
4. Discharge all dental appliance lines 7 in each operatory into sink, cup or bucket until all cleaner is evacuated and air emerges.
5. Return to the system and close the air valve 1.
6. Open the drain valve 4 to relieve all pressure from the system.
7. Close the drain valve 4.
8. Open the water inlet valve 3 to fill the mixing chamber.
9. Return to each operatory and discharge all dental appliance lines 7 into sink or cup until all air is evacuated and clear water emerges. Rinse each line for at least 10 seconds (or a total of 500 mL of clear water for each operatory).

Valve Operation



Open **Closed**

Valve Positions for Normal Use

1	Air Inlet Valve	CLOSED
3	Water Inlet Valve	OPEN
4	Drain Valve	CLOSED
5	Manifold Valve	OPEN
6	Operatory Valves	OPEN

Please note:
Never flush waterline cleaner into any vacuum or drain system that contains an amalgam separator.

A video tutorial of this process is available online at **vrg.support/purge.**

* Approved for use in the United States only. Outside the U.S., please follow Alternative Cleaning Procedures outlined on page 12.

Alternative Cleaning Procedures

Using bleach instead of VistaTab™ Dental Waterline Cleaner Tablets

Where available, we recommend using the Hu-Friedy VistaTab™ Dental Waterline Cleaner Tablets (IMS-1451) upon initial system installation and for as-needed "shock" treatments. This product is available from dental dealers throughout the United States.

However, if for some reason VistaTab Dental Waterline Cleaner Tablets are unavailable, **household bleach (Sodium Hypochlorite) may be used as an alternative solution.** However, it is important not to flush bleach into any vacuum or drain system that contains an amalgam separator. Also, do not leave any bleach solution in dental waterlines for more than 10 minutes.

Follow the "Purge & Clean" instructions for the system outlined on page 11, substituting the bleach solution for the VistaTab Dental Waterline Cleaner Tablet in Step 2 (Adding Line Cleaner).

- If using **8.25% bleach** solution, add **2 ounces** (or about **58 mL**) to the mixing chamber in lieu of one (1) VistaTab Dental Waterline Cleaner Tablet.
- If using **5.25% bleach** solution, add **2.5 ounces** (or about **75 mL**) to the mixing chamber in lieu of one (1) VistaTab Dental Waterline Cleaner Tablet.

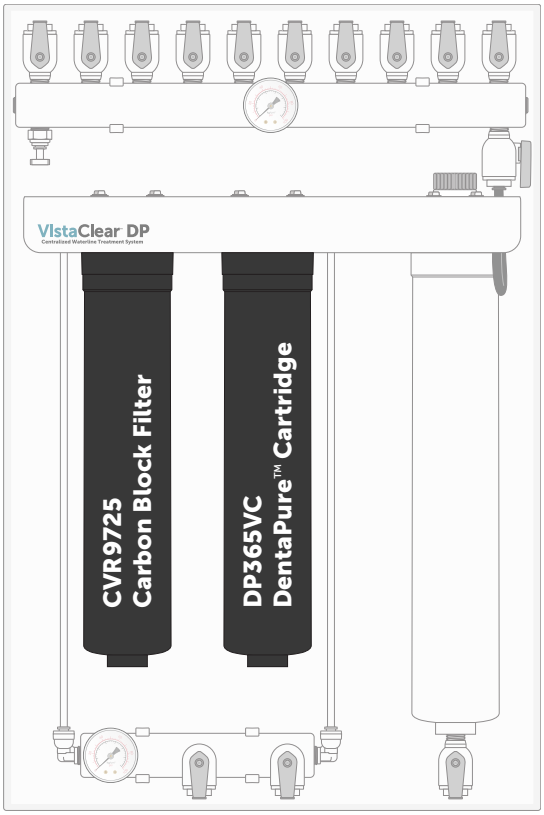
Note that you will need to follow this process for each operatory.

Annual Filter & Cartridge Replacement

The VistaClear™ DP Centralized Waterline Treatment System Carbon Block Filter should be replaced at least annually, or more frequently as needed depending on local water conditions. If you notice lower-than-usual water flow or that the "throughput" of the system appears to be restricted, it's likely necessary to change the Carbon Block Filter. Restricted water flow can require filter changes more frequently than once per year in areas with poor water quality or heavy sediment in the water supply (sometimes caused by nearby construction).

The DentaPure™ Cartridge should be replaced annually, or when iodine output falls below 0.5 ppm. Refer to the IFU included with your DentaPure Cartridge.

1. Unthread both the expired DentaPure Cartridge (DP365VC) and the expired Carbon Block Filter (CVR9725) from the system manifold by turning clockwise. Support the system by holding the manifold while unthreading the cartridge and filter.
2. Discard the expired cartridge and filter in the normal trash.
3. Remove the tabs from the top of the new cartridge and filter, then thread both onto the system bracket in the appropriate locations (see diagram) by turning counter-clockwise. Do not cross thread. Hand-tighten the cartridge and filter while supporting the metal manifold.
4. After the DentaPure Cartridge and Carbon Block Filter have been hand-tightened, water will start to flow through the system. Open the drain valve on the bottom of the mixing chamber, and allow the water to run to the drain for 10 minutes to flush the new cartridge and filter.
5. Close the drain valve on the mixing chamber and check the system for any leaks. If a leak is detected, immediately turn off the water supply and open the drain valve on the mixing chamber to relieve the water pressure. Attend to the leak then repeat the steps to check for additional leaks.
   A. If a DP365VC cartridge has been previously installed and treatment water output from dynamic instruments has remained under 500 CFU/mL, no further steps are necessary and the system is now ready for use. If CFU counts are outside of the EPA current standard for potable water guidelines, begin the Purge & Clean procedure (page 11) to ensure all waterlines are clean and ready for the installation of your replacement DentaPure Cartridge.
6. Note the installation date to ensure replacement timing.



Left Element:
Carbon Block Filter
CVR9725

Right Element:
DentaPure™ Cartridge
DP365VC

Annual Kit
Includes both elements
CVR365VC

Backflow Prevention Testing

All VistaCheck™ Dual Check Valve Backflow Preventer valves downstream from the upper (distribution) manifold of the system should be checked annually to ensure they are working properly.

For specific details on testing VistaCheck Dual Check Valve Backflow Preventers, go to VistaResearchGroup.com/VistaCheck to download or print the testing protocol document, including the step-by-step directions, Annual Test Record and Maintenance Record tables.

VistaResearchGroup.com/VistaCheck

Bypassing the System

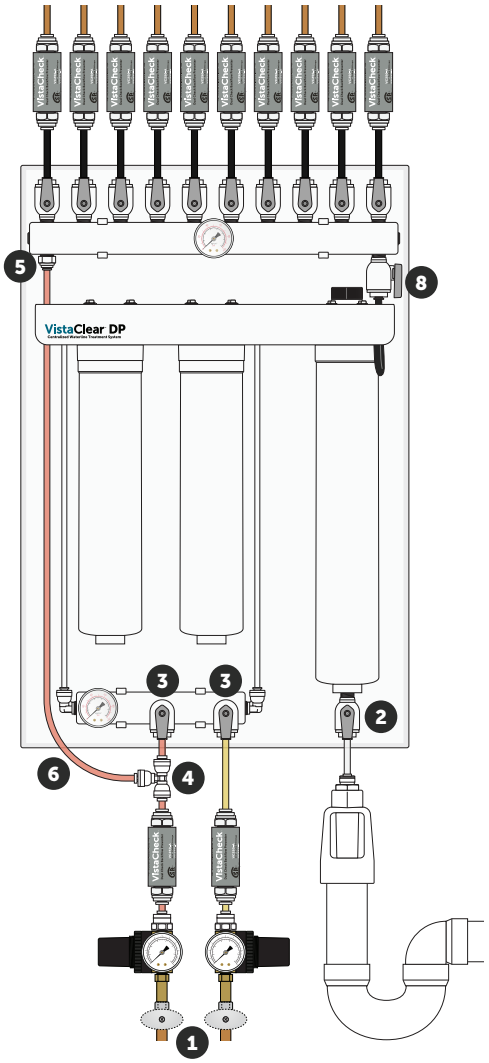
The VistaClear™ DP Centralized Waterline Treatment System includes an optional bypass feature. While the bypass tubing should NOT be connected during installation, the Carbon Block Filter and DentaPure™ Cartridge can be bypassed temporarily for either of these reasons:

- In the event of a malfunction or leak in the system, the clinical staff can bypass the filter and cartridge temporarily while a service technician is en route to fix the problem.
- A service technician can bypass the system to allow unfiltered municipal water to be delivered to the operatories while performing a repair, filter change, etc.

Bypassing the filter system:

1. Turn off the master air and water supply valves 1, leaving the air and water supply valves on the system control manifold 3 open.
2. Open the drain valve 2 to relieve the system pressure.
3. Remove the plugs from the tee 4 and elbow fitting on the upper (distribution) manifold 5. Do not discard these tees, as you'll need to reinstall them.
4. Connect one end of the provided red tubing 6 to the elbow fitting 5, and the other end of the tubing to the tee 4.
5. Close the service valve 8 on the right end of the upper manifold.
6. Close both the air and water valves on the lower manifold 3.
7. Close the drain valve 2.
8. Open the master water supply valve, leaving the master air supply valve off. Unfiltered water will fill the distribution manifold and flow to the operatories.

Reverse these steps to convert back to normal filtration mode. Disconnect, drain and store the bypass tubing. Follow the Purge & Clean procedure outlined on page 11 to clean waterlines, since they will have been exposed to unfiltered water.



Limited Warranty

During the time period and subject to the conditions hereinafter set forth, Crosstex International, Inc. (Crosstex) will repair or replace to the original user any portion of a system which proves defective due to defective materials or workmanship of Crosstex. Contact your nearest authorized Crosstex distributor/ dealer for warranty service. At all times Crosstex shall have and possess the sole right and option to determine whether to repair or replace defective equipment, parts, or components. Damage due to conditions beyond the control of Crosstex is *NOT COVERED BY THIS WARRANTY*. (Contact parcel or freight company for claims on freight damaged in transit)

WARRANTY PERIOD: Crosstex shall warrant its VistaClear™ DP Centralized Waterline Treatment System for a period of one (1) year from the date of installation, or eighteen (18) months from the date of manufacture, whichever comes first. Filtration elements subject to varying types of water conditions are not warranted for performance due to fouling by local water conditions, but are warranted for defects in materials and workmanship.

LABOR, ETC., COSTS: Crosstex shall *IN NO EVENT* be responsible or liable for the cost of field labor or other charges incurred by any customer in removing and/or re-affixing any Crosstex product, part or component thereof.

THIS WARRANTY WILL NOT APPLY: (a) To defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with printed instructions provided; (b) to failures resulting from abuse, accident or negligence; (c) to normal maintenance services and the parts used in connection with such service; (d) to units which are not installed in accordance with applicable local codes, ordinances and good trade practices; (e) if the unit is moved from its original installation location, or; (f) if the unit is used for purposes other than for what it was designed and manufactured.

RETURN OF REPLACED COMPONENTS: Any item to be replaced under this Warranty must be returned to Crosstex in Phoenix, Arizona, or such other place as Crosstex may designate, freight prepaid. Write to the address listed below for a return authorization and the physical address to which items should be returned for warranty attention.

PRODUCT IMPROVEMENTS: Crosstex reserves the right to change or improve its products or any portions thereof without being obliged to provide such change or improvement of units sold and/or shipped prior to such change or improvement.

WARRANTY EXCLUSIONS: As to any specific Crosstex product, after the expiration of the time period of the warranty applicable thereto as set forth under the heading "Warranty Period" above, *THERE WILL BE NO WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.*

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. No warranties or representations at any time made by any representative of Crosstex shall vary or expand the provisions hereof.

LIABILITY LIMITATION: *IN NO EVENT SHALL CROSSTEX BE LIABLE OR RESPONSIBLE FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES RESULTING FROM OR RELATED IN ANY MANNER TO ANY CROSSTEX PRODUCT OR PARTS THEREOF.*

Some states do not allow the exclusion of limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

For your warranty protection (Magnason-Moss Warranty Act), the warranty card, if provided, should be completed and returned to Crosstex within ten (10) days of installation. Alternatively, register your product online within ten (10) days of installation at **vrg.support/register**. In the absence or other suitable proof of installation date, the effective date of this warranty will be based upon the date of manufacture plus one hundred eighty (180) days.

Direct all notices, etc. to:

Service Department
Crosstex International, Inc.
1733 W. Parkside Lane
Phoenix, AZ 85027
(800) 531-2221

System Information

Thank you for purchasing the VistaClear™ DP Centralized Waterline Treatment System for your practice. The following chart is for necessary information for future reference. Please complete the table below and keep this manual in a convenient place for future reference.

Be sure to register your system online at vrg.support/register.

VistaClear™ DP Centralized Waterline Treatment System	
System Model #	CVV1000-DP
System Serial #	
Purchased From (Dealer)	
Dealer's Address	
Dealer's Telephone #	
Name of Installer	
Installer's Telephone #	
Date Installed	
Notes	

Filter Replacement Record	
Date	Date

We strongly suggest marking your calendar 11 months ahead to remind you to order and replace both filtration elements. For your convenience, a two-element annual replacement kit is available from your dental dealer (part number CVR365VC).

Crosstex International, Inc.
1733 W. Parkside Lane, Phoenix, AZ 85027 USA

Made in USA
Part No. VM1069 / REV A - 01/2020

(888) 276-7783 crosstex.com

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