

INSTRUCTIONS
FOR USE

A-dec® QuietCore+™

DENTAL DRY VACUUM



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Regulatory Information and Warranty

For required regulatory information and the A-dec warranty, see the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00) available in the Resource Center at www.a-dec.com.



For quick access to this document online, scan, tap, or click this QR code, which points to: a-dec.com/regulatory-guide.

Product Service

Product service is available through your local authorized A-dec dealer. For service information, or to locate an authorized dealer, contact A-dec at 1.800.547.1883 in the USA and Canada or +1.503.538.7478 worldwide, or visit www.a-dec.com.

Product Models and Versions Covered in This Document*

Models	Versions	Description
DV5plus/DV7plus DV10plus/DV12plus	n/a	Dry Vacuum

* Equipment shown in this document may include optional features or accessories. Some products, versions, and options in this document may not be available in certain regions.

Content Map



DV10plus/DV12plus
Model Shown



Features/Topics

1	Safety Precautions	2
2	LED Push-Button Controls	3
3	Vacuum Controls/ Digital Display	3, 5
4	Separator Tank	4
5	Tank Filter Replacement/ Maintenance	9
	Troubleshooting Tasks	12



Safety Precautions

Safety Precautions



WARNING Failure to follow these safety and operation precautions can result in injuries or equipment damage.



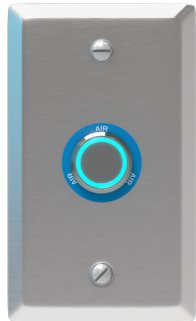
WARNING Do not attempt to access or service any DV dry vacuum components other than the separator tank filter. All other service must be performed by a qualified service technician. Some components (shown throughout this document) are intended for informational purposes only.

The following safety precautions listed below must be observed:

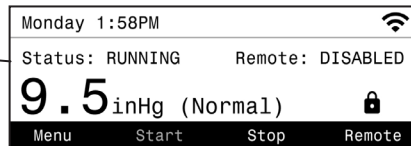
- Read all instructions completely before operating the vacuum unit.
- For installation, follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).
- Do not operate the vacuum on a Ground Fault Circuit Interrupter (GFCI) protected circuit.
- Protect the power cable from coming into contact with sharp objects. Do not kink power cable and never allow the cable to come in contact with oil, grease, hot surfaces, or chemicals.
- Do not attempt to service any part while the vacuum is in an operational mode.
- Do not use flammable solvents for cleaning any parts.
- Do not operate the vacuum without the service panel in place.
- Do not operate the vacuum unit in rooms where flammable or toxic fumes may be present.
- Do not operate the vacuum unit in an environment that exceeds 104° F (40°C).
- Be careful when touching the exterior of a recently run vacuum motor— it may be hot enough to cause pain or injury. Modern motors are built to operate at higher temperatures, so this condition is normal if the motor is operated at rated load.

Operate the Vacuum

LED Push-Button Control
(single-button)



LED Push-Button Control
(four-button)



Digital Display with DV10/DV12
Pressure Reading Shown



NOTE If you turn off the vacuum unit for long periods of non-use, like an extended office shutdown, ensure that the power remains connected. The vacuum will automatically start, momentarily, every 6 hours to prevent components from seizing. This also helps extend the life of the motor.

Optional LED Push-Button Controls

If you have LED push-button controls, press the button once to turn the vacuum unit on or off. Blue LED lighting indicates that the vacuum is on.

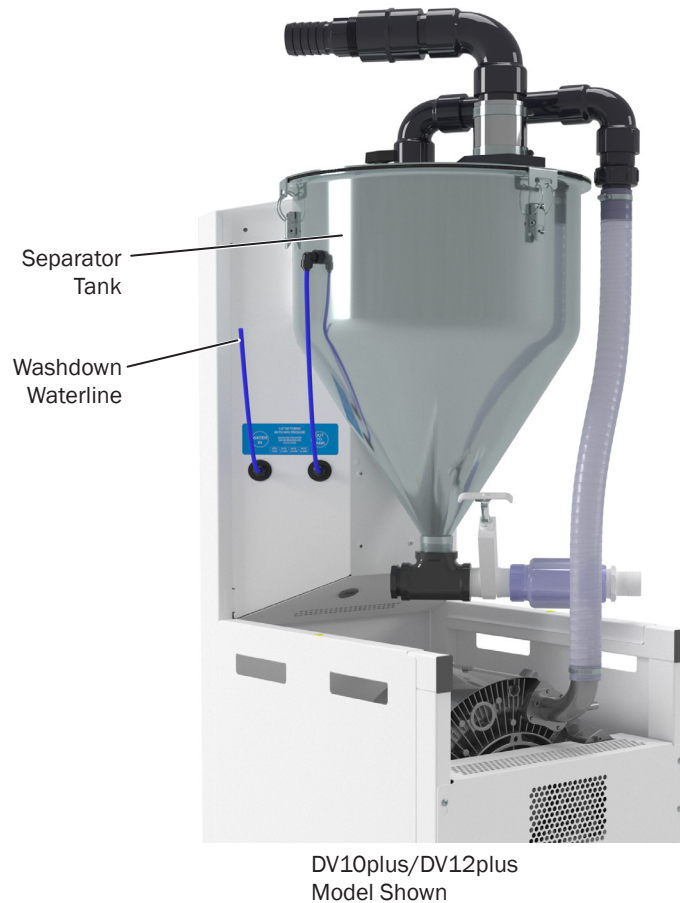
Turn the Vacuum On/Off

Use the digital display, located on the top panel of the vacuum, to turn the vacuum motor on and off (See “Digital Display” on page 5). Do not use the circuit breaker to turn off the vacuum unless performing maintenance (see page 9).



NOTE In addition to hearing the motors and pumps operate, you may also hear other noises from the vacuum. These are normal and come from the cooling fans and other components during various operational cycles.

Vacuum Operation



NOTE For optimum performance and product life, the washdown cycle is highly recommended. This cycle is especially important for offices that routinely use peroxide or sodium hypochlorite (i.e., bleach), which may shorten the life of the equipment.

Pressure Reading

The digital display provides a real-time level of the negative pressure inside the separator tank. The vacuum is factory preset to maintain approximately 8.0 inHg (27 kPa) for the DV5plus/DV7plus and 9.5 inHg (32 kPa) for DV10/DV12 during normal operation.

Vacuum Startup and Normal Operation

At initial startup, the vacuum motor runs until the system reaches the factory preset of 8.0 inHg (27 kPa) for DV5plus/DV7plus and 9.5 inHg (32 kPa) for DV10plus/DV12plus. As vacuum instruments are opened and closed, the motor RPM will increase or decrease (depending on demand) to maintain that level.



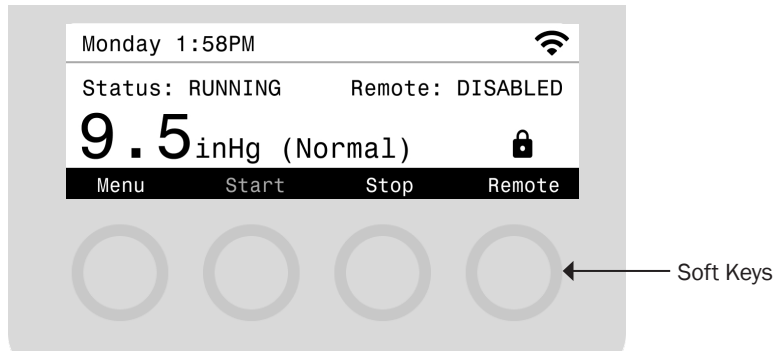
NOTE It is normal to hear the vacuum motor frequently speeding up or slowing down as it compensates for various levels of demand. However, if the motor does not slow down after all vacuum instruments are closed, or if your system is unable to maintain between 8 and 10 inHg (27 to 34 kPa), see “Troubleshooting Tasks” on page 12, or contact your authorized A-dec dealer for service.

Separator Tank Drain and Washdown Cycles

The vacuum removes liquid from the air and collects it in the separator tank. When more than 7 gallons (38 L) are collected, a float switch in the tank stops the vacuum and drains the tank. The digital display will show status **DRAINING** during this process. Approximately 10 seconds after the water level drops and the float switch turns off, the vacuum will start again.

Stop the vacuum to automatically initiate the drain and washdown cycles. Combined, both cycles take about 2 minutes to complete. The digital display shows a 80 second countdown when the washdown cycle starts. A-dec recommends that you stop the vacuum to activate this process at least once a day. For more information, see “Regular Maintenance Tasks” on page 9.

Digital Display



Digital Display with DV10plus/
DV12plus Pressure Reading Shown



NOTE If the screen is dark, the screen saver has been activated. Press any button to reactivate the digital display.

Menu Options and Soft Keys

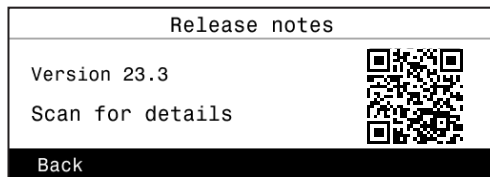
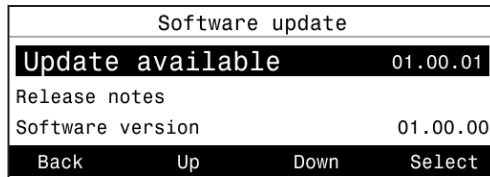
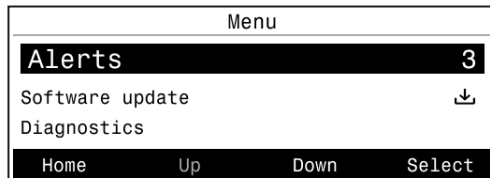
Use the four soft key buttons below the digital display to navigate through menus, to start and stop the vacuum, and to lock or unlock remote access.

Button	Action
Menu	Press to open the screen that contains options including Alerts , Software Updates , Release Notes , Connection , and Diagnostics . The buttons change to Home , Up , Down , and Select . Use the buttons to navigate through the menu options and to make selections.
Start	Available only in Remote: Disabled . Press to start the vacuum.
Stop	Available only in Remote: Disabled mode. Press to stop the vacuum. The message Stop Vacuum? appears. Confirm by selecting Yes or cancel by selecting No .
Remote	The statuses include ON , OFF , and DISABLED . <ul style="list-style-type: none"> • ON—Remote control is enabled, and the push button is in the On position. • OFF—Remote control is enabled, and the push button is in the Off position. • DISABLED—Remote control is disabled, local control is enabled.



NOTE The digital display uses seven status conditions including **STOPPED**, **INITIALIZING**, **RUNNING**, **DRAINING**, **WASHDOWN**, **AUTOSPIN**, and **FAILSAFE**.

Digital Display (continued)



Menu Options

The digital display has a number of menu options that allow you to monitor the vacuum’s performance.

Menu Option	Description
Alerts	If the system has any alerts, a number will appear next to Alerts in the menu. Use the Up and Down buttons until the Alerts is highlighted; then press the Select button. Alerts include important warnings such as high temperature, low pressure, and pump faults. To clear an alert, see “Clear an Alert in the Digital Display 7.”
Software Update	Use the Up and Down buttons until Software update is highlighted; then press the Select button. The software update version available appears. Select Update > Confirm to run the update or press the Back button to return to the Menu options screen. (Note. You cannot use the vacuum and digital device while a software update is running, and you cannot start a software update while the vacuum is running.)
Release notes	Release notes are available under the Software Update menu. Use the Up and Down buttons until Release notes is highlighted; then press the Select button. A QR code appears. Scan the QR code with your device to open the release notes; then use the Back button to return to the Menu options screen.

Digital Display *(continued)*

Connection	
IP address	192.168.0.3
Connection type	Wi-fi
Wi-Fi signal strength	Excellent
Back	

Diagnostics			
Status			
Component control			
Maintenance report			
Back	Up	Down	Select

Menu Option	Description
Connection	Use the Up and Down buttons until Connection is highlighted; then press the Select button. Connection information including your IP address, connection type, and strength of Wi-Fi signal appears.
Diagnostics	Use the Up and Down buttons until Diagnostics is highlighted; then press the Select button. This screen contains three options: <ul style="list-style-type: none"> • Status—Provides sensor reading information for voltage, current draw, pressure, and temperature. • Component control—Allows the operator/technician to enable and disable individual board components. • Maintenance report—If the vacuum has been registered with A-dec, maintenance information transmitted to A-dec+ will be used by technicians for diagnostics and troubleshooting.

Clear an Alert in the Digital Display

The following procedure is for clearing an alert when navigating from the main screen, but you can navigate to alerts from other screens.

1. Press the **Menu** button.
2. Use the **Up/Down** buttons to select **Alert**.
3. Press the **Select** button.
4. Use the **Next/Prev** buttons, if applicable, to display the alert you want to clear. A brief description of the alert appears.
5. Press the **View** button. Additional information about the alert appears, if available.
6. The **Clear** button will be available in the bottom right corner of the digital display if the alert can be cleared. Press the button to clear the alert.

Note. Not all alert types can be cleared. Alerts for ongoing conditions may reappear immediately after clearing.

Register the Vacuum



For configuring connectivity features and to register your vacuum, see the *A-dec+™ Software Platform Instructions for Use* (p/n 86.1030.00) at a-dec.com/connectivity-manual.



Tank Filter/Regular Maintenance

Regular Maintenance Tasks



WARNING Before performing any maintenance function, use the circuit breaker on the vacuum to turn off the vacuum unit and disconnect main power to the vacuum. Failure to do so may result in injury or equipment damage.

Do not open the front panel. That access is only for service technicians. Do not service the vacuum for issues other than those described in this section, or you may risk injury or equipment damage. All other service requires a qualified service technician from your authorized A-dec dealer.



Regular Maintenance Tasks *(continued)*



A-dec Evacuation System Cleaner
 33 fl oz (976 mL) – (p/n 91.0060.01)
 128 fl oz (3.78 L) – (p/n 91.0061.01)

A-dec Evacuation System Cleaner

Use the A-dec Evacuation System Cleaner to keep your vacuum running at its optimal level while limiting costly downtime. A-dec does not endorse other manufacturers' evacuation line cleaning products.

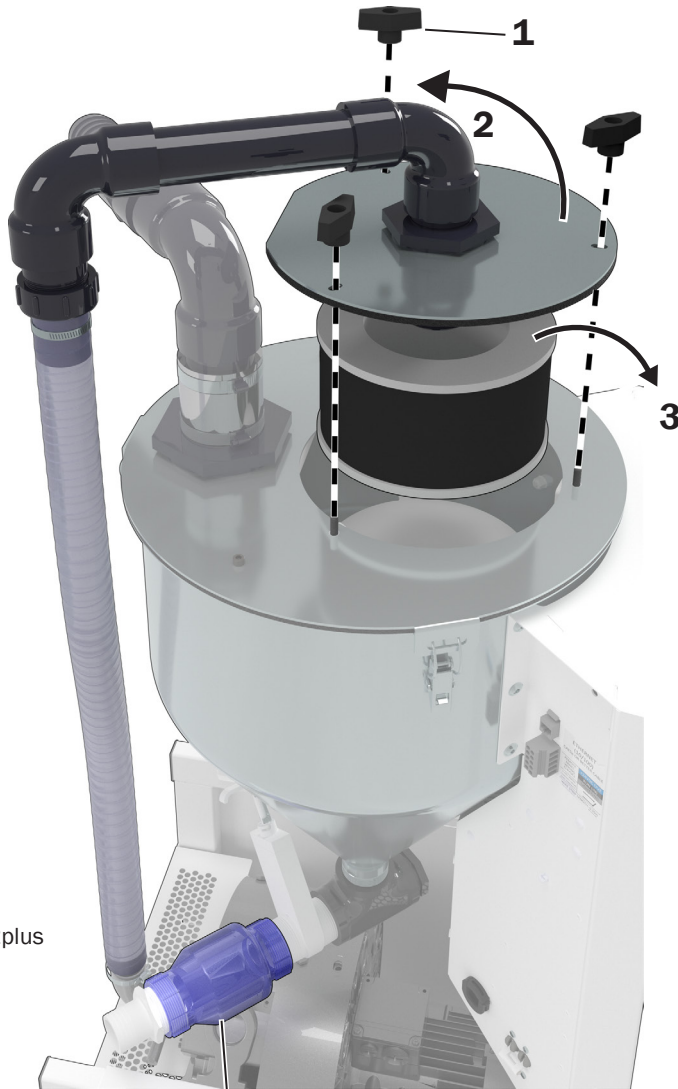


CAUTION Oxidizing or acidic cleaners with a PH less than 6 or greater than 8 (including bleach, chlorine, iodine, and peroxide) and foaming vacuum line cleaners will lead to damage to the vacuum system and will void the warranty.

To keep your vacuum system running smoothly, be sure to schedule a service checkup with your authorized A-dec dealer every year. See the table below for important required maintenance tasks.

Frequency	Item	Task/Procedure
Once or Twice Daily	Vacuum-line cleaning	Follow your normal vacuum-line cleaning protocols to help prevent debris from settling in the vacuum plumbing.
	Separator tank drain and rinse	Turn off the vacuum at the end of the day (<i>from the digital display or LED push-button controls</i>) to initiate the separator tank drain and rinse cycles. For busier days and larger clinics, turn off the vacuum once at lunchtime and once at the end of the day. This will also help you avoid an unplanned shutoff/drain cycle during a procedure.

Regular Maintenance Tasks *(continued)*



DV10plus/DV12plus
Model Shown

Vacuum Drain Check Valve



WARNING Infectious biohazardous waste may be present. To prevent cross contamination, follow all infection control and personal protective equipment (PPE) protocols.

In addition to biohazardous waste, the separator tank filter may contain amalgam particles. Follow your local regulations when you dispose of the old filter.

Frequency	Item	Task/Procedure
Weekly/ Monthly	Exterior case and tubing connections	Use a dry, lint-free cloth to dust off and clean the exterior. Turn on the system, listen, and inspect the tubing. If you discover any leaks or debris, contact your authorized A-dec dealer for assistance.
Yearly	Tank filter	<p>Replace the tank filter (p/n A0049) once a year. Before following these steps, use the circuit breaker to turn off the vacuum and wait a few minutes to ensure that the drain and rinse cycles have finished, then disconnect main power to the vacuum.</p> <ol style="list-style-type: none"> 1. Unscrew the three wingnuts securing the cover. 2. Lift the cover and attached tubing so that it clears the filter, then swivel the cover and tubing assembly to the side of the unit. 3. Lift the tank filter out of the unit's center channel and replace with a new filter. Dispose of the old filter according to your local regulations.
	Vacuum drain check valve	A qualified technician is required to replace this component.

Troubleshooting Tasks



WARNING Do not attempt to open the vacuum service panel. This is intended for qualified service technician access only.

The following table is intended to help you identify common issues with your vacuum that may or may not require attention. For problems that require access to internal components, always contact your local authorized A-dec dealer for service.

Condition	Potential Cause	Procedure/Remedy
Vacuum motor runs continuously with little to no suction.	Leak in the vacuum system	Start the vacuum. Close all vacuum instruments and listen for leaks throughout the system. Check the digital display for the inches of mercury the system is producing to confirm it is in the normal range. If the vacuum runs continuously and cannot reach or maintain around 8.0 inHg (27 kPa) for the DV5plus/DV7plus or 9.5 inHg (32 kPa) for DV10/DV12 (or your adjusted preset level), contact your authorized A-dec dealer for service.
	Pinched or kinked vacuum tubing	Check to see if the dental equipment vacuum tubing is pinched or kinked. If the tubing is damaged, contact your authorized A-dec dealer for service.
	Stuck separator tank drain check valve (open)	Turn off the vacuum to initiate drain and rinse cycles. Check that the gate valve is open. If these do not remedy the condition, contact your authorized A-dec dealer for service.
Vacuum motor won't run while the master power switch is on.	Clogged drain or stuck separator tank float switch	The digital display will show a high fluid alert while triggering the system to turn off automatically and initiating a drain cycle. If this does not remedy the condition, contact your authorized A-dec dealer for service.
LED push-button does not function.	Digital display Remote setting is DISABLED	Change the digital display Remote setting from DISABLED to ON or OFF .



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