

The Equipment Room:

There are 3 items located in your equipment room that require maintenance in order to enjoy a long, trouble-free life. These are the vacuum pump, air compressor, and the municipal water filter.

VACUUM PUMPS:

There are two types of vacuum pumps: Wet Ring and Dry Pumps

1. Wet Ring Vacuum Pump –

This pump utilizes a water source and an impeller. This creates the vacuum in the lines. This is generally a very reliable system but it requires the use of a lot of water. Most utilize a water recycler that reduces water use by 50% or better. Due to the need for water to operate, it is important to realize that sediment and minerals from city water can wear down the impellers in a vacuum pump's housing and cause premature failure. Review the following maintenance guidelines to get the longest life from your pump.

2. Dry Vacuum Pumps –

These pumps require no water. Dry vacs have very little maintenance but they still need to be maintained. The following maintenance guidelines will help you keep your vacuum pump running at an optimum level for many years.



Air Techniques Wet Vac System



RamVac Dry Vac system with separation tank.

Key Maintenance On Vacuum Pumps:

Daily: (All Vacs)

1. Clean Lines by running a quart of warm water through the lines beginning with furthest operator from the vacuum. Some manufacturers recommend using a non-foaming enzymatic cleaner instead of just warm water, especially dry vac systems which use a separation tank. By using a non-foaming cleanser on a daily basis, the separation tank stays rinsed and cleaned. This tank contains sensors and controls that can fail if not rinsed and cleaned routinely. By running the appropriate cleaner through your lines each day, you can prevent the need to do a special, more involved rinsing of this tank at a later date. Check the user manual for your particular unit or ask your representative to look it up for you for more details.
2. Check the operatory solids collectors and change or clean as needed.

Weekly (Wet Vacs Only):

1. Check Main Intake Filter at Vacuum Unit. Manually clean the filter and screen or replace with disposable Evac-u-traps by Pinnacle as needed.

Monthly:

1. (Wet Vacs Only): Change Main Intake Filter. We recommend using the Evac-u-traps by Pinnacle. Simply turn off vacuum. Unscrew existing trap. Take cap from new trap and place on old trap and dispose of. Screw on new trap.
2. (Wet and Dry Vacs) Dust and clean the vacuum motors to prevent heavy build up of dust and debris.
3. (Wet Vacs) Check and Change the Municipal Water Filter Routinely – Particulates and minerals from the city water source can get into the impeller housing and wear down the impellers causing premature failure.

Quarterly (Dry Vacs Only):

1. Check Vacuum Relief Valve Filter
2. Check Lubrication Level for Motors and contact your service department if lubricant is low. Some dry vacs require an oil change and others are completely sealed. Either type still needs to be checked on a routine basis. (Refer to your owner's manual or ask your representative to help you determine what your unit requires.)

Annually:

1. Schedule an appointment with your service department. They will check and replace the following as needed.
 - a.(Wet Vac) Recycler Return Lines
 - b.Vacuum Relief Filter
 - c.(Wet Vac) Clean Water Intake Filter
 - d.(Wet Vac) Clean Water Regulator Strainer
 - e.(Dry Vac) Change Drive Belt
 - f.(Dry Vac) Change Engine Oil as specified by your model.



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18555 ..1 - 31.89 ...4 - 29.89



Purevac™ - Sultan Healthcare

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5 liters
211151 - 115.39 ...4 - 112.39
2 liters
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Vacuum Shock Tablets - Palco

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3546 33.79



Vacuum Clean Tablets - Palco

After shocking the system use vacuum clean tablets, a weekly time-released maintenance. The tablet will consistently disperse cleaning agents each time the low or high speed lines are in use. The contaminated fluids activate the tablet, effectively eliminating bacteria, bio-burden and blood build-up at the source. Replace tablet normally every 5 days depending on usage frequency. 45/jar

3547 36.49



Vac Attak™ - Premier

Unique organic bleach component. Biodegradable & Non-corrosive to metals. Non-foaming, safe for use with all pumps. Fresh lemon scent. 800gm jar. Provides 100 uses.
9011101 50.59

Evac-U-Trap® - Pinnacle

A totally disposable canister, lid, mesh filter and gasket designed to replace the present canister and filter in your central vacuum pump.

2-3/4" x 3-5/8", 12/bx, Fits: 1, 2 hp Dental-Ez single models, Apollo 1 hp, 1.5 single: tandem models, Air Techniques - Vacstar models. Ohmeda-Matrix all models. Turbine Industries, Techwest - Whirl Vac models, Vacudent - Workhorse single plus a number of other units. 12/pk
2200 96.89

3-1/2" x 4-3/8", Fits Dental-Ez dual models made after 1978. Fits Dentsply made after 1991. 8/pk
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Fits Apollo 2 hp, 3 hp single and tandem models, Air Techniques - 1997 and later dual models, Vacudent - Workhorse dual. New finer mesh screen. 8/pk
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Fits Dentsply-MVS. 75, 1.5, 2.0, 4.0 models made before 1991. 8/pk
2400 96.89

Fits Dentsply-MVS Jr. models. 8/pk
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Citrzyme Ultra Enzyme Cleaner - Pascal

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The lid's built-in adapters clean up to THREE operatories with ONE mix

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- Aspirates solution through the tubing
- Creates a 360° contact for complete cleaning of evacuation lines

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- Non-foaming, non-corrosive cleaner
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COMPRESSORS:

There are two types of compressors: **Lubricated and Oilless or Lubefree.**

1. Lubricated Compressors: These compressors use lubricated motors which are much quieter when running. However, over time, oil particles can work their way into the air line and may contaminate the air which can lead to clinical bonding issues. Most lubed compressors are equipped with pure-air coalescent filters that when maintained, will eliminate this concern.

2. Lube Free or Oilless Compressors: These compressors don't require oil lubrication. This eliminates the chance of contamination as well as the need to routinely check and change oil. They are typically louder when running yet require less maintenance. Compressors in general require little maintenance, but maintenance is still required.



Key Maintenance On Dental Compressors:

Weekly:

1. Check Oil Level (Lubricated Compressors Only) **(A)**
2. Check Moisture Indicator on Drying System (If pink or white, purge tank) **(B)**
3. Empty Condensation Drain Canister (if equipped.) **(C)**

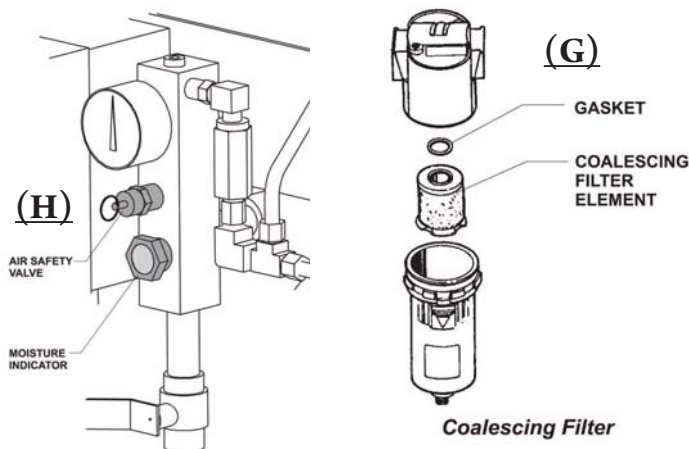
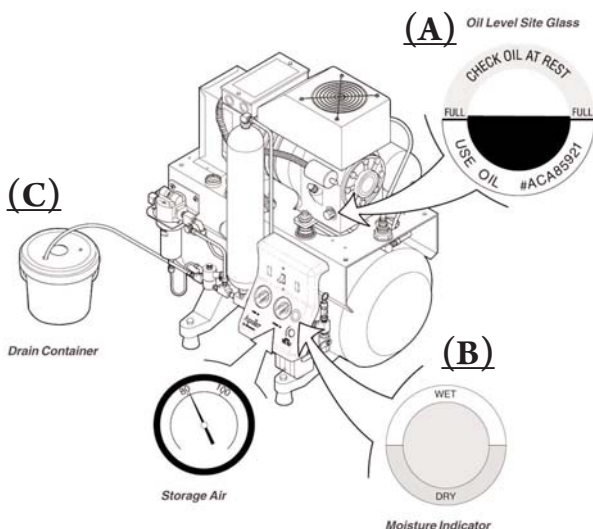
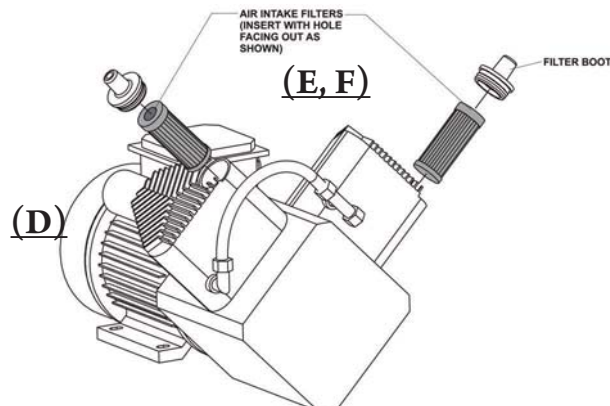
Monthly:

1. Clean and dust off compressor motors **(D)**
2. Check Air Intake Filters (if your equipment room is subject to a dusty environment, you may need to change these filters more often than once a year.) **(E)**

Annually (We recommend an annual service call to perform the following annual maintenance items.)

1. Replace Air Intake Filters **(F)**
2. Replace Ultra Air Coalescing Filter **(G)**
3. Change Oil (Lubricated Compressors Only)
4. Test Pressure Relief Valve **(H)**

Note: The following images are generic images and may not match your particular unit. Regardless of unit brand, these maintenance items are fairly universal. To assure that your compressor is maintained with the correct parts, it is best to set up an annual maintenance call with your local Nashville Dental service department.



REMOTE WATER CONTROL VALVE AND FILTER:

This piece of equipment serves two important purposes:

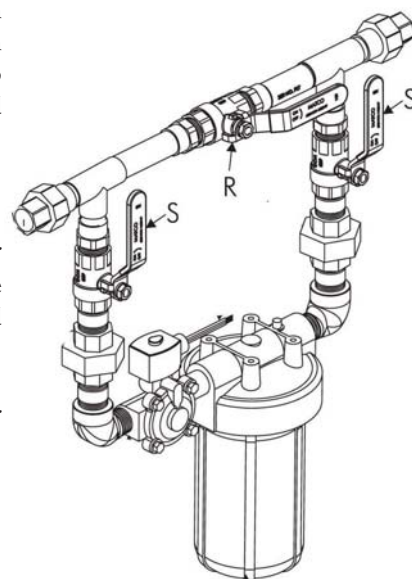
1. The water control valve has an electric solenoid that when power is cut to it, the valve closes preventing water from flowing to the rest of the office. The purpose for this is to prevent office floods. In the event any plumbing fitting were to fail while the office was unoccupied, the only water that could leak into the floor would be what is left in the lines. The water control valve would prevent water from continuing to flow and flood preventing extreme damage and down time to the practice. This solenoid can be manually bypassed in the event of a power outage so that sinks and toilets can still be used.
2. The water control filter prevents dirt, sediment and debris from municipal water supplies from making its way into the sensitive equipment items in the dental office. In many areas where construction is going on, the level of sediment in the city water lines can be heavy. This filter prevents sediment from working its way into your vacuum pump housing which can be the cause of premature failure and damage to the pump housing and impellers.



Water Control Valve Maintenance Required:

FILTER REPLACEMENT: The most common water by-pass filter system is the Air Techniques assembly. The filter element replacement reorder number is 53153. This should be replaced as needed. If you have a different system or model, ask your representative to help you find the appropriate part number for your replacement filter.

1. Close two valves (S), and press red button to release pressure.
2. Unscrew filter bowl, remove and replace filter. (have bucket or pan handy to catch water resident in loop).
3. Reinstall filter bowl.
4. Open valves (S), check for leaks.
5. Press red button to relieve entrapped air.



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