

# RAMVAC® Vacuum Pump Maintenance Chart



RAMVAC vacuum pump preventive maintenance is simple, clean and inexpensive. It can help ensure your system provides years of dependable performance.

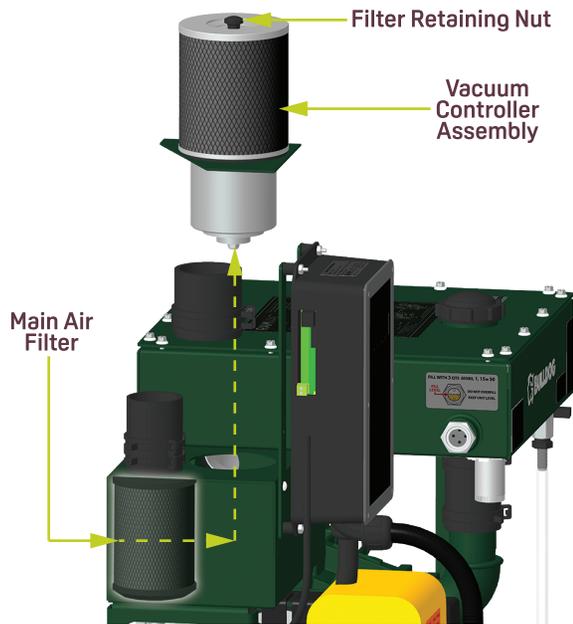
### Key points for trouble-free operation:

- Check the air filters every 1,000 hours.
- Keep vacuum pump clean and free of dirt.
- Keep area surrounding vacuum pump free of debris.
- Maintain a controlled ambient temperature between recommended levels.
- Extreme temperatures could shorten the life of the vacuum pump.
- Follow the recommended preventive maintenance schedule below.

### Preventive Maintenance Schedule

Follow this recommended maintenance schedule for a RAMVAC vacuum in a clean, dry environment. Any site other than specified will decrease maintenance time.

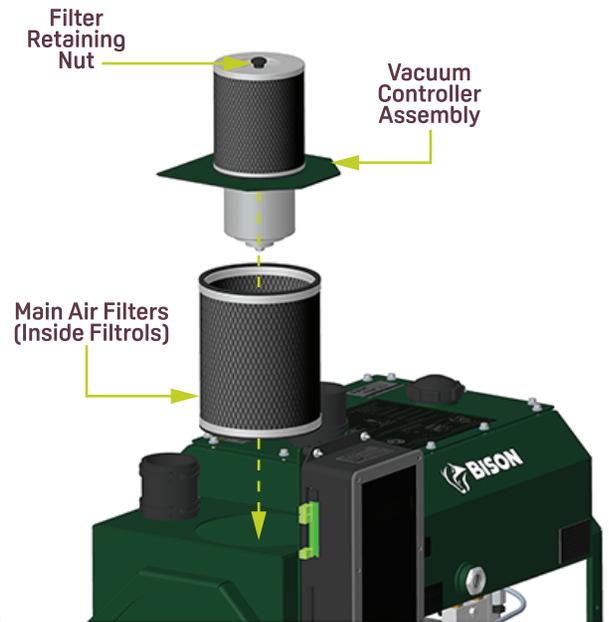
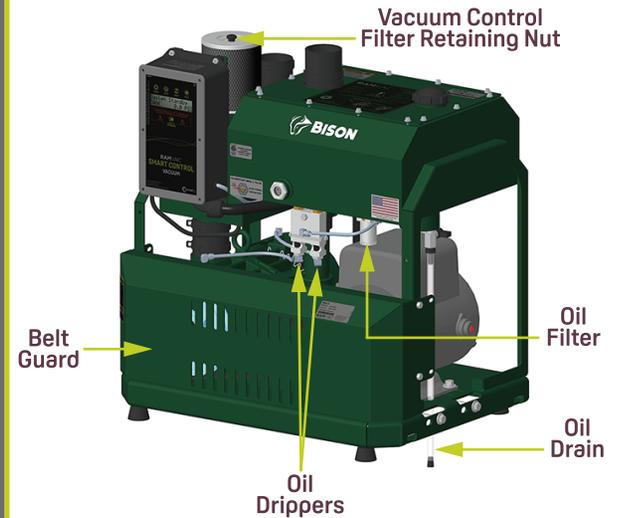
Every 6 months or 1,000 hours	Annually or 2,000 hours
Check drip rate	Check drip rate
Check air filters	Check air filters or replace
	Replace or clean oil filter
	Change oil
	Check belt tension
	Reset maintenance



SEE OTHER SIDE FOR INSTRUCTIONS



Scan QR code to view online vacuum maintenance video



# RAMVAC® Vacuum Pump Maintenance Instructions

## Air Filter Maintenance

### Bulldog

#### Replace the Main Filter

1. Turn the vacuum off.
2. While wearing gloves, without removing any bolts or nuts, lift the vacuum controller off the vacuum pump.
3. Slide the main air filter to the access hole; lift out of the filter and discard.
4. Replace the main air filter.
5. Turn the vacuum back on.

#### Replace the Vacuum Controller Filter

1. Remove the retaining nut off the top of the filter.
2. Remove the vacuum controller filter by lifting the filter over the teepee.
3. Inspect spud gasket for cracks.
4. Discard the filter and replace with new.
5. Turn the vacuum back on.

#### Bulldog Air Filter Sets:

- 003583 - Two (2) Air Filters
- 003740 - Two (2) Air Filters & Oil Filter Element

### Bison

#### Replace the Main Filter

1. Turn the vacuum off.
2. While wearing gloves, without removing any bolts or nuts, lift the vacuum controller off the vacuum pump.
3. Lift the main air filter out of the filter and discard.
4. Replace the main air filter.
5. Turn the vacuum back on.

#### Replace the Vacuum Controller Filter

1. Remove the retaining nut off the top of the filter.
2. Remove the vacuum controller filter by lifting the filter over the teepee.
3. Inspect spud gasket for cracks.
4. Discard the filter and replace with new.
5. Turn the vacuum back on.

#### Bison Air Filter Sets:

- 003700 - Two (2) Air Filters
- 003750 - Two (2) Air Filters & Oil Filter Element

## Check V-Belt Tension

1. Access the belt.
  - a. Bulldog - Remove two-piece belt guard.
  - b. Bison - Remove belt guard.
2. Measure the belt tension by using a tension gauge or the finger pressure test.
  - a. Bulldog Models:
    1. 855.xxx.x - 70 lbs. using tension gauge or 3/16" deflection with 4 lbs. of finger pressure.
    2. 809.xxx.x and 809E.xxx.x - 50 lbs. using tension gauge or 1/4" deflection with 4 lbs. of finger pressure.
  - b. Bison Models:

All Bison models: 70 lbs. using tension gauge or 1/4" deflection with 4 lbs. of finger pressure.
3. If belt tension is changed, make sure the pulley alignment is checked. Follow instructions in the "Belt Replacement, Alignment and Tensioning" service procedure, which is on the web at [www.dentalez.com/downloads/service-procedures](http://www.dentalez.com/downloads/service-procedures), or call RAMVAC Technical Support at 866-DTE-INFO.
4. Return the vacuum pump to service.

SEE OTHER SIDE FOR CHART

# RAMVAC®

A Brand of  **DentalEZ**  
INTEGRATED SOLUTIONS

2500 Highway 31 South, Bay Minette, AL 36507  
Phone: 866-DTE-INFO Fax: 251-937-0461  
[www.dentalez.com](http://www.dentalez.com)

© 2019 DentalEZ, Inc. All rights reserved.  
DentalEZ is a registered trademark of DentalEZ, Inc. Bison, Bulldog & RAMVAC are registered trademarks of RAMVAC Dental Products, Inc.

## Oil Maintenance

### Check Oil Drip Rate

1. Start the vacuum and run for at least 10 minutes.
2. Look through the sight glass on the bottom of the drippers and look for the drips of oil.
3. Count the drips of oil through each sight glass per minute.
4. Drip rate at each dripper should be 1 to 3 drops per minute when the vacuum unit is thoroughly warmed up. The vacuum setting is 7" to 7.5" Hg, and the ambient temperature is 70 °F to 75 °F.  
**NOTE:** *The drip rate will vary slightly depending on the ambient temperature and oil temperature.*

### Change Oil

1. Operate the vacuum pump until the oil reservoir is warm to touch.
2. Turn the vacuum pump off.
3. Insert a container large enough to hold the used oil under the oil drain tube.
4. Carefully open the oil reservoir drain valve and drain the oil.  
**NOTE:** *If any water drains from the oil reservoir when the valve is opened, call RAMVAC at 866-DTE-INFO.*
5. Unscrew the oil filter canister and remove the filter.
  - a. If filter is clean, reinstall the filter back into the canister.
  - b. If filter is dirty, replace filter.
6. Install the oil filter canister.
7. Close the drain valve and add the recommended amount of oil. (See **User Manual** for recommended amount).
8. Check the drip rate.
9. Return the vacuum pump to service.

### Mobil 1™ 15W50 Oil:

- 380706 - Six 1-quart bottles of oil