



# DENTAL VACUUM SYSTEMS PM CHECKLIST

Refer to the owner's manual for specific information on all safety requirements and PM schedule.

**WARNING:** To avoid personal injury, do not perform these steps while the vacuum system is running. Motors can become very hot during operation. Wait until the unit cools down before you begin your PM. It is always advisable to wear disposable gloves and full-face protection when working on vacuum systems.

**NOTE:** For models with more than one motor, follow the same procedure(s) for each motor.

---

## PREP

1. For wet ring vacuums, remove power from the vacuum system by first turning the vacuum system off and then disconnecting the unit from the power source. Turn off the water supply to the vacuum unit.
2. For dry vacuums, first turn off the flow valve coming from the operatories, then flush and clean out the separator tank by opening the drain valve or if present, by engaging the liquid evacuation pump motor, and drain the separator tank. Remove power by first turning the vacuum system off and then disconnecting the unit from the power source.
3. Using a stiff brush, clean between the cooling vanes and ribs on the vacuum system's motors and clean the vent ports. Wipe down the unit to remove all of the dust and debris.
4. For vacuum systems that use a belt drive, check the belt(s) for proper tension using the Belt Tensioner Tester (RPI Part #RPT954). This belt tension tester measures the belt tension of most "V" belts. Consult the OEM service manuals or the belt manufacturer for the recommended belt tension for each drive system.

---

## FILTERS

5. When replacing the air intake filter elements, oil filter element or the oil filter media kits, always work on one element at a time. The air intake filters, oil filter media material and mufflers are mounted inside the vacuum head or reservoir housing. For dry vacuums, drain the oil into the included RPI Disposal Bag (RPI Part #RPB838). Use a lint free cloth to clean out any dust and debris that may be present in the reservoir housing. Once the air intake filters or oil filter media have been replaced, add the proper amount of oil, per manufacturer's recommendations. Write the date on the PM Sticker(s) provided with each filter element or oil filter media kits and place on or near the air intake filter assembly, oil filter assembly, or the reservoir.
6. If replacing the solids collector elements, always wear gloves and full-face protection. Elements with downward hanging bowls should be removed slowly as they may be full of water and other bio-matter. Once the bowl is removed, unscrew the used element and replace with the new element. Replace the included bowl o-ring before reinstalling the bowl. Once the elements have been replaced, write the date on the included PM Sticker(s) and place in a visible location on or near the filter assembly.
7. Inspect all check valves, purge mufflers, float valves, and exhaust silencers for proper operation. Replace as needed.

---

## INSPECT & CLEAN

8. Clean and wipe down the compressor, removing any spills or hand prints.
9. Reconnect power to the compressor, open the flow valve going to the operatories. For wet ring systems, turn on the water supply. Then restore power to the system.

---

## FINAL CHECKS

10. Check the vacuum level and if necessary, adjust the vacuum level. Follow the manufacturer's procedures and adjust accordingly. Check the vacuum level in each operator at the J-box and at each HVE (High Volume Evacuator) or SVE (Saliva Ejector) handpiece.
11. Write the RPI PM Kit Number and date on the included PM Sticker and place in a visible location on the vacuum system.



**replacement parts industries, inc.** A Healthcare Components Group Company

CALL (800) 221-9723 or (818) 882-8611 • FAX (818) 882-7028 • E-MAIL [order@rpiparts.com](mailto:order@rpiparts.com) • WEBSITE [www.rpiparts.com](http://www.rpiparts.com)

The above parts are manufactured by Replacement Parts Industries, Inc. to fit the equipment noted. All product names used in this document are trademarks or registered trademarks of their respective holders.

VPK113INS REV B (12/21)

**RPI Parts Included In PM Kits**

# VACUUM PM KITS

RPI Part #	OEM Part #	Models	Check Valves	Filter Elements							Oil	Oil Filters	Oil Filter Media Kits		Mufflers		Purge Mufflers	Accessories		
			VPI120	VPE111	VPE112	VPE114	VPE115	VPE118	VPE184	VPE188 <sup>1</sup>	VPL131	VPE116	VPK193	VPK197	VPM194	VPM198	VPM190	RPB838 <sup>2</sup>	RPP958 <sup>2</sup>	RXS087
<b>A-DEC/DEAN</b>																				
VPK183	A0049	DV5, DV7, DV10 & DV12	1						1											
<b>DENTALEZ®/CUSTOM AIR/RAMVAC</b>																				
VPK110	005301SP	Badger		1	1															
VPK113	003740	Bulldog 550, Bulldog QT1, Bulldog QT2 & Bulldog QT3				1	1				1									
VPK117	003750	Bison 3, Bison 5, Bison 7 & Bison 9				1		1			1									
VPK192	<i>No OEM Part # Available</i>	Bulldog 550, Bulldog QT1, Bulldog QT2 & Bulldog QT3								3		1		1				1 pkg	1 pkg	1
VPK196	<i>No OEM Part # Available</i>	Bison 3 & Bison 5								5			1		1			1 pkg	1 pkg	1
VPK200	<i>No OEM Part # Available</i>	Bison 7 & Bison 9								5			1		2			1 pkg	1 pkg	1
<b>MATRIX MEDICAL • MATRIX/MIDMARK®</b>																				
VPK185	77000796 (Filter Element) 77007063 (Purge Muffler)	PM-75								1 pkg								1		
VPK186	77000796 (Filter Element) 77007063 (Purge Muffler)	PM-75-2								2 pkg								2		
VPK187	77000796 (Filter Element) 77007063 (Purge Muffler)	PM-75-3								3 pkg								3		
<b>MIDMARK®</b>																				
VPK185	77000796 (Filter Element) 77007063 (Purge Muffler)	PM-1								1 pkg								1		
VPK186	77000796 (Filter Element) 77007063 (Purge Muffler)	PM-3								2 pkg								2		
VPK187	77000796 (Filter Element) 77007063 (Purge Muffler)	PM-4								3 pkg								3		

Footnote<sup>1</sup> - 1 Package of Filter Element (RPI Part #VPE188) includes (2) Filter Elements and (2 pcs) O-Ring (RPI Part #RX0086).

Footnote<sup>2</sup> - 1 Package of Disposal Bag (RPI Part #RPB838) includes (3) Disposal Bags.

Footnote<sup>2</sup> - 1 Package of Absorbent Pad (RPI Part #RPP958) includes (3) Absorbent Pads.