

629+630

E-VAC290&VAC200-I-0808

NOTE: The following instructions are for models VAC-200 & VAC-290 except where noted. The instructions are very similar but are different in several ways. Please pay special attention where differences are noted for models.

Safety VAC-200 & VAC-290

CAUTION: Standard EDCO machines are not to be used for the removal of liquids or any volatile, viscous, flammable or explosive media. If you are unsure about your application requirements consult your EDCO representative.

CAUTION: Standard EDCO VAC machines are designed for intermittent use, i.e. not more than 2 hours continuously. If you are unsure about your application requirements consult your EDCO representative.

CAUTION: A dust mask should be worn when working with used filters.

CAUTION: Disconnect the machine from the power source before and during inspection and/or maintenance.

CAUTION: Machines equipped with a reverse pulse module must always be supplied adequately when the machine is on. The module is controlled by an electrical sequential timer (requires a 110 volt power supply) or differential pressure switch. The module itself requires a source of compressed air of 90 PSI at 2-4 CFM (depending on module). This device prevents the accumulation of material on the filter and therefore prevents the machine from being held under excessive stresses due to material blockage.

CAUTION: Machines equipped with a motorized shaker must be supplied with a three phase, 230-460 volt (depending on motor) power supply when ever the machine is on. The motorized shaker is controlled by an electrical sequential timer (requires a 110 volt power supply), a differential pressure switch or a manual switch. Manual switch models should be actuated before and after every use while the vacuum is off. This device prevents the accumulation of material on the filter and therefore prevents the machine from being held under excessive stresses due to material blockage.

Start-Up VAC-200

1. Pull up on the foot lever to release the dustpan. Check that the dustpan is completely empty then replace.

CAUTION: The electrical service at the installation site must supply the voltage stamped on the machine's serial tag. Most motors have multiple voltage capabilities that may appear on the motor serial tag but do not apply to the specific machine. Operating at an incorrect voltage may damage the machine.

NOTE: A qualified electrician in accordance with the National Electric Code and all local codes should perform all wiring and/or electrical adjustments during installation and servicing.

2. Connect the machine to the proper power source, as indicated on the machine's serial tag.
3. Start the machine by pushing the power switches on the motors to the ON/closed position one at a time.
4. Turn the machine off by pushing the power switches on the motors to the OFF/open position.
5. The filter should be shaken and the dustpan emptied before and after every use.

Start-Up VAC-290

1. Pull up on the foot lever to release the dustpan. Check that the dustpan is completely empty then replace.

CAUTION: The electrical service at the installation site must supply the voltage stamped on the machine's serial tag. Most motors have multiple voltage capabilities that may appear on the motor serial tag but do not apply to the specific machine. Operating at an incorrect voltage may damage the machine.

NOTE: A qualified electrician in accordance with the National Electric Code and all local codes should perform all wiring and/or electrical adjustments during installation and servicing.

2. Connect the machine to the proper power source, as indicated on the machine's serial tag.
3. Start the machine by pushing the power switches on the control panel to the ON/closed position one at a time.
4. Turn the machine off by pushing the power switches on the control panel to the OFF/open position.
5. The filter should be shaken and the dustpan emptied before and after every use.



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Inspection and Maintenance VAC-200

Standard Filter Inspection

1. Turn the machine off.
2. Knock material off the filter via the hand shaker, motorized shaker or reverse pulse.
3. Pull up on the foot lever to release the dustpan then remove and empty if necessary.
4. Lock the rear casters then carefully tip the machine back onto the push handle.
5. Remove any material between the pleats, by hand only.

CAUTION: Clogged material should only be removed by hand. Using an object to dislodge material may tear the filter. Consult your EDCO representative if material blockage is excessive.

6. Inspect the pleats of the filter for tears and material blockage.
7. Carefully tip the machine back onto the casters and replace the dustpan.

Standard Filter Removal

1. First follow the preceding filter inspection procedure to determine if removal is necessary.
2. Turn the machine on then block the inlet with a flat and rigid material to place the machine under vacuum pressure.
3. Remove all of the housing-component socket truss screws with a 5/32 hex-wrench.
4. Turn the machine off and disconnect the power source.
5. Separate the motor deck from the housing then disconnect the motor deck ground wire from the push-on terminal.
6. Disconnect the three power cord wires from the terminal block on the underside of the motor deck.
7. Remove the motor deck.
8. Disconnect the clear differential pressure gage tubes from their respective barbed fittings if so equipped.
9. Remove the HEPA filter housing spacer and HEPA adapter assembly if so equipped; make sure to disconnect the HEPA adapter assembly ground wire via push-on terminal before removing.
10. Remove the reverse pulse/motorized shaker assembly and housing spacer if so equipped; make sure to disconnect the component ground wire via push-on terminal before removing.
11. Inspect the top of the filter for material.

NOTE: The presence of material in this area or in the exhaust is often the result of a misaligned seal or damaged filter. Consult your EDCO representative if either is the case.

12. Remove the filter housing spacer assembly; make sure to disconnect the filter housing spacer assembly ground wire from the base via push on terminal.
13. Turn the filter housing spacer assembly over on a table then work the filter off the filter shaker insert.

Motor Brushes Inspection

1. Turn the machine off then disconnect the power source.
2. Disconnect both motor terminals.
3. Loosen the motor retaining knobs enough to remove both motors.
4. Remove the 12 screws from the bottoms of the motor assemblies.
5. Remove the plastic motor covers to access the tops of the motors.
6. Remove the 2 metal motor-cap-retaining clips per motor.
7. Carefully dislodge the plastic motor cap via the built in hooks on both sides of each motor brush.
(TIP: Dislodge one side of a cap first, then the other.)
8. Remove the motor brush retainers via the 2 phillips screws per brush.
9. Remove each of the brushes and inspect for excessive or uneven wear.

NOTE: A brush should be replaced if its length is less than 0.25 inches.

10. Reverse the procedure to install the brushes.
11. Reassemble and secure both motor assemblies with the 12 motor cover screws. Do not over tighten the screws, as the cover will crack.
12. Position both motors in the deck and secure with the motor retaining knobs.
13. Connect both motor terminals.

Standard Filter Installation VAC-200

1. Turn the filter housing spacer assembly over on a table then fit the filter over the filter shaker insert.
2. Make sure each pleat is fully supported and the ground wire is on the filter side of the assembly.
3. Connect the filter housing spacer assembly ground wire to the base via the push-on terminal.
4. Seat the filter housing spacer assembly on the base oriented as it was removed.
5. Seat the reverse pulse/motorized shaker assembly and housing spacer (if so equipped) on the filter housing spacer assembly oriented as removed; make sure to connect the component ground wire to the filter housing spacer assembly via push-on terminal.
6. Seat the HEPA adapter assembly and housing spacer (if so equipped) on the preceding housing component oriented as removed; make sure to connect the component ground wire to the preceding assembly via push on terminal.
7. Connect the motor deck ground wire to the preceding assembly.
8. Connect the three power cord wires to their respective terminals in the terminal block on the underside of the motor deck.
9. Seat the motor deck on the preceding housing spacer.
10. Connect the clear differential pressure gauge tubes to their respective barbed fittings if so equipped.
11. Turn the machine on then block the inlet with a flat and rigid material to place the machine under vacuum pressure.
12. Secure all of the housing-components then turn the machine off.

HEPA Filter Replacement Procedure VAC-200

NOTE: The differential pressure gauge measures the pressure above, against the pressure below the HEPA filter, thereby measuring the restriction of airflow through the filter. Filters should be replaced when the gauge consistently reads 4 inches W.C.

1. Turn the machine on then block the inlet with a flat and rigid material to place the machine under vacuum pressure.
2. Remove the motor deck socket truss screws.
3. Turn the machine off and disconnect the power source.
4. Unscrew the cable grip in the HEPA filter housing spacer.
5. Push about a foot of the power cord into the HEPA filter housing spacer.
6. Separate the motor deck from the HEPA filter housing spacer then disconnect the motor deck ground wire from the HEPA filter adapter plate assembly via the push-on terminal.
7. Disconnect the three power cord wires from the terminal block on the underside of the motor deck.
8. Remove the motor deck.
9. Remove the four lock nuts retaining the two HEPA filter brackets.
10. Remove the ring-to-tab terminal, HEPA filter brackets and HEPA filter.
11. Center the new filter on the HEPA adapter plate, gasket side down.
12. Position the provided lengths of self-adhering flat gasket material on the HEPA filter frame (if not already done so) to cushion the HEPA filter brackets.
13. Reinstall the HEPA filter brackets and ring-to-tab terminal then thread the locking nuts over the rods and tighten.

CAUTION: Do not over tighten. The effectiveness of the filter may be compromised if its frame is bent.

14. Set the motor deck on the HEPA filter housing spacer.
15. Connect the three power cord wires to their respective terminals in the terminal block on the underside of the motor deck.
16. Connect the motor deck ground wire to the HEPA adapter plate assembly via the push-on terminal then seat the motor deck on the HEPA filter housing spacer.
17. Pull any unnecessary slack in the power cord back through the cable grip then secure the cable.
18. Connect the power source.
19. Turn machine on then block the inlet with a flat and rigid material to place the machine under vacuum pressure.
20. Secure the motor deck then turn the machine off.



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Motor Brushes Inspection

1. Turn the machine off then disconnect the power source.
2. Disconnect both motor terminals.
3. Loosen the motor retaining knobs enough to remove both motors.
4. Remove the 12 screws from the bottoms of the motor assemblies.
5. Remove the plastic motor covers to access the tops of the motors.
6. Remove the 2 metal motor-cap-retaining clips per motor.
7. Carefully dislodge the plastic motor cap via the built in hooks on both sides of each motor brush.
(TIP: Dislodge one side of a cap first, then the other.)
8. Remove the motor brush retainers via the 2 phillips screws per brush.
9. Remove each of the brushes and inspect for excessive or uneven wear.

NOTE: A brush should be replaced if its length is less than 0.25 inches.

10. Reverse the procedure to install the brushes.
11. Reassemble and secure both motor assemblies with the 12 motor cover screws. Do not over tighten the screws, as the cover will crack.
12. Position both motors in the deck and secure with the motor retaining knobs.
13. Connect both motor terminals.

Inspection and Maintenance VAC-290

Standard Filter Inspection

1. Turn the machine off.
2. Knock material off the filter via the hand shaker, motorized shaker or reverse pulse.
3. Pull up on the foot lever to release the dustpan then remove and empty if necessary.
4. Lock the rear casters then carefully tip the machine back onto the push handle.
5. Remove any material between the pleats, by hand only.

CAUTION: Clogged material should only be removed by hand. Using an object to dislodge material may tare the filter. Consult your EDCO representative if material blockage is excessive.

6. Inspect the pleats of the filter for tears and material blockage.
7. Carefully tip the machine back onto the casters and replace the dustpan.

Standard Filter Removal

1. Follow the preceding filter inspection procedure to determine if removal is necessary.
2. Turn the machine on then block the inlet with a flat and rigid material to place the machine under vacuum pressure.
3. Remove all of the housing-component socket truss screws with a 5/32 hex-wrench.
4. Turn the machine off and disconnect the power source.
5. Separate the motor deck from the housing then disconnect the motor deck ground wire from the push-on terminal.
6. Remove the motor deck.
7. Disconnect the clear differential pressure gauge tubes from their respective barbed fittings if so equipped.
8. Remove the HEPA filter housing spacer and HEPA adapter assembly if so equipped; make sure to disconnect the HEPA adapter assembly ground wire via push-on terminal before removing.
9. Remove the reverse pulse/motorized shaker assembly and housing spacer if so equipped; make sure to disconnect the component ground wire via push-on terminal before removing.
10. Inspect the top of the filter for material.

NOTE:

The presence of material in this area or in the exhaust is often the result of a misaligned seal or damaged filter. Consult your EDCO representative if either is the case.

11. Remove the filter housing spacer assembly; make sure to disconnect the ground wire via push on terminal.
12. Turn the filter housing spacer assembly over on a table then carefully work the filter off the filter shaker insert.

Standard Filter Installation VAC-290

1. Turn the filter housing spacer assembly over on a table then fit the filter over the filter shaker insert.
2. Make sure each pleat is fully supported and the ground wire is on the filter side of the assembly.
3. Connect the filter housing spacer assembly ground wire to the base via the push-on terminal.
4. Seat the filter housing spacer assembly on the base oriented as it was removed.
5. Seat the reverse pulse/motorized shaker assembly and housing spacer (if so equipped) on the filter housing spacer assembly oriented as removed; make sure to connect the component ground wire to the filter housing spacer assembly via push-on terminal.
6. Seat the HEPA adapter assembly and housing spacer (if so equipped) on the preceding housing component oriented as removed; make sure to connect the component ground wire to the preceding assembly via push on terminal.
7. Connect the motor deck ground wire to the preceding assembly then seat the deck on the preceding housing spacer.
8. Connect the clear differential pressure gage tubes to their respective barbed fittings if so equipped.
9. Turn the machine on then block the inlet with a flat and rigid material to place the machine under vacuum pressure.
10. Secure all of the housing-components then turn the machine off.

HEPA Filter Replacement Procedure VAC-290

NOTE: All HEPA filter machines are equipped with a differential pressure gauge. The gauge measures the pressure above against the pressure below the filter, thereby measuring the restriction of airflow due to contamination. HEPA filters should be replaced when the gauge consistently measures 4 inches W.C.

1. Turn the machine on then block the inlet with a flat and rigid material to place the machine under vacuum pressure.
2. Remove the motor deck socket truss screws.
3. Turn the machine off and disconnect the power source.
4. Separate the motor deck and HEPA filter housing spacer then disconnect the motor deck ground wire from the HEPA adapter assembly via the push-on terminal.
5. Remove the motor deck and silencer hood together.
6. Remove the lock nuts retaining the HEPA filter brackets.
7. Remove the ring-to-tab terminal, HEPA filter brackets and HEPA filter.
8. Center the new filter on the HEPA adapter plate gasket side down.
9. Position the provided lengths of self-adhering flat gasket material on the HEPA filter frame (if not already done so) to cushion the HEPA filter brackets.
10. Replace the HEPA filter brackets and ring-to-tab terminal then thread the locking nuts over the rods and tighten.

CAUTION: Do not over tighten. The effectiveness of the filter may be compromised if its frame is bent.

11. Set the motor deck on the HEPA filter housing spacer.
12. Connect the motor deck ground wire to the HEPA adapter plate assembly via the push-on terminal then seat the deck on the HEPA filter housing spacer.
13. Connect the power source.
14. Turn the machine on then block the inlet with a flat and rigid material to place the machine under vacuum pressure.
15. Secure the motor deck then turn the machine off.



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Motor Brushes Inspection

1. Turn the machine off then disconnect the power source.
2. Remove the motor deck socket truss screws.
3. Remove the silencer hood assembly.
4. Remove the 4 metal motor-cap retaining clips using a standard bit screwdriver.
5. Carefully dislodge the plastic motor cap via the built in hooks on both sides of each motor brush using a standard screwdriver. (TIP: Dislodge one side of a cap first, then the other.)
6. Remove the motor brush retainers via the 2 phillips screws per brush.
7. Remove each of the brushes and inspect for excessive or uneven wear.

NOTE: A brush should be replaced if its length is less than 0.25 inches.

8. Reverse the procedure to install each brush.
9. Replace the silencer hood; make sure the switch mount is fit into the slot in the silencer hood.
10. Secure the silencer hood with the 4 socket truss screws.



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