

VMAX – CHANGE TOP HAT STYLE SEPARATOR

Element Issue: Change a Top Hat Style Separator

Element

Each Vmax system is tested and checked at the factory prior to shipment to ensure trouble-free operation. In the unlikely event you encounter a problem, we recommend that you consult with your local distributor for parts/service. Remember, when calling for service, parts or system information, always have the pump or system model number and serial number ready.

[Click here to find your local authorized distributor.](#)

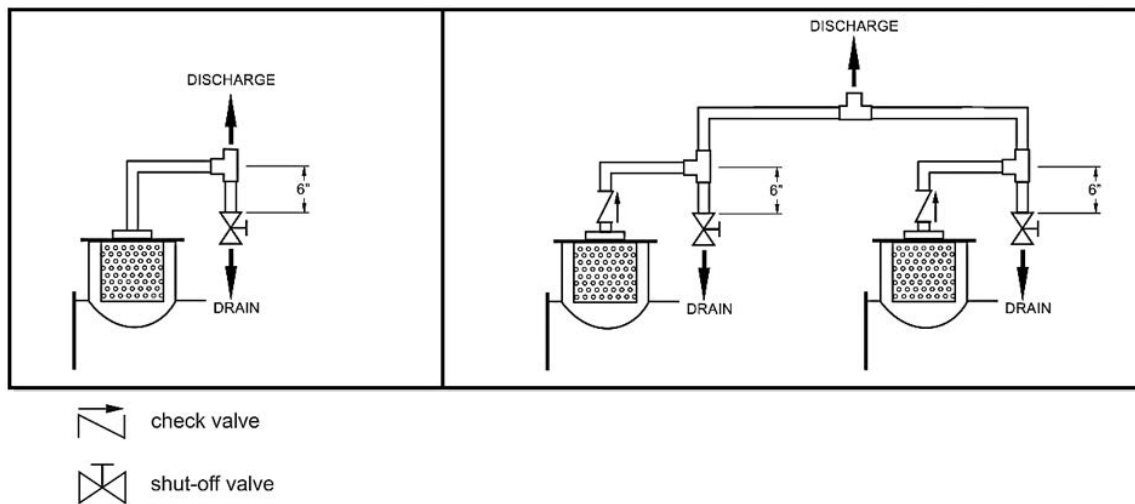
WARNING! Before attempting any repairs, disconnect all power from the system by switching off power at the main breaker or disconnect switch. Always use appropriate Lock Out – Tag Out procedures.

Vmax and Vmax^{LT} systems offered by DEKKER Vacuum Technologies are the result of years of research and experience in the design, operation and application of this type of system, with thousands of successful installations in the field. DEKKER's patented DX5 and DX7 air/oil separators virtually eliminate oil carryover concerns and ensure the cleanest environment.

If the system begins to use excessive oil or produce an oil mist from the system discharge, the system may require changing the separator element. Many systems, including the 15 HP, 20 HP, 25 HP and 40 HP Vmax liquid ring vacuum systems, use a top hat style separator element that is mounted inside the stack portion of the separator tank.

To change the element, remove the discharge piping from the lid of the system.

Discharge piping diagrams



Refer to the [Installation, Operation and Maintenance Manual](#) for more information on proper discharge piping.



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Remove the 1/4" plastic scavenger tubing from the push fitting on the steel tube on the lid of the separator tank.



Using a ratchet or a pneumatic ratchet, remove the 5/16" x 1" tank-lid bolts.



Remove the tank lid along with the steel scavenger-line tubing. Use care when removing the tank lid to prevent damage to the scavenger-line tubing. Note the end of the steel-scavenger line tubing is beveled at a 45° angle.



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After the tank lid has been removed, the separator element is exposed. Remove the separator element from the tank stack.



Before installing the new separator element, be sure to clean the sealing surface on the bottom of the separator tank lid as well as the flange surface where the lid mounts.



Install the tank lid along with the steel scavenger-line tubing on top of the new separator element. Position the steel scavenger-line tubing so the tip of the 45° angle on the end of the steel tubing barely touches the bottom of the separator element. Ensure that the tank lid is positioned correctly onto the tank stack flange so the bolt holes line up with the bolt holes in the tank flange.



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Reinsert all 12 of the 5/16” x 1” tank-lid bolts. Using a cross pattern, torque the bolts to 15 ft/lbs.



Reinstall the 1/4” scavenger-line into the push fitting. Reinstall the discharge piping.

