

HYDROMISER INSTALLATION KIT INSTRUCTIONS

PN 56041 for VacStar 50 (VS50)

PN 56042 for VacStar 80 (VS80)

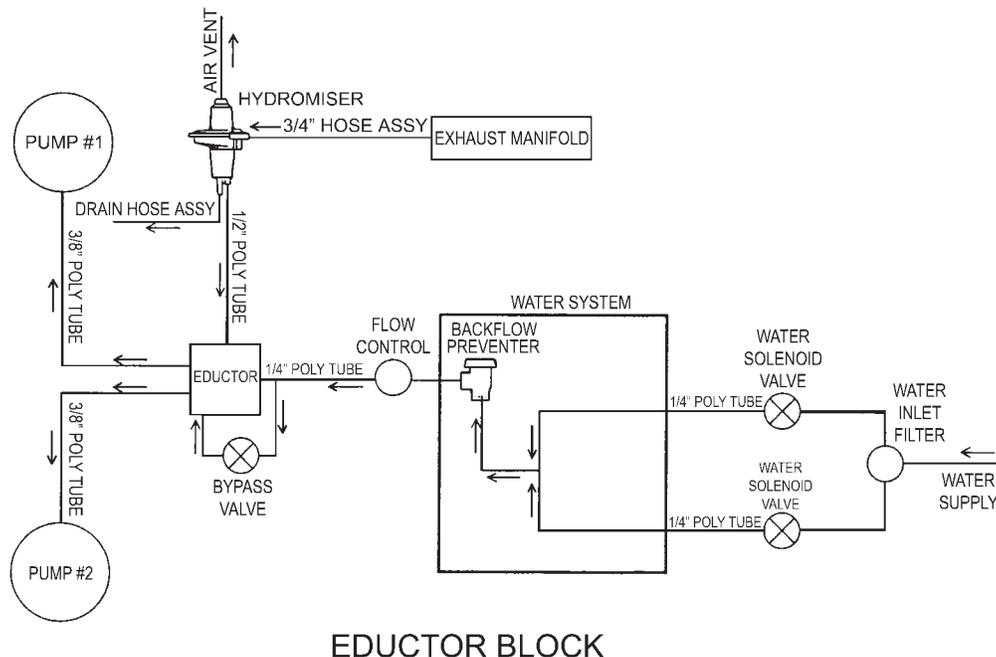
This kit includes:

PART NUMBER	DESCRIPTION	Quantity
30920	Lock Washer, 1/4"	3
55142	Separator Drain Hose Assembly w/ Elbow	1
55981	Exhaust Hose Assembly w/Teflon	1
55499	Eductor Assembly for VS80 w/Bracket 80H	1
55498	Eductor Assembly for VS50 w/Bracket 50H	1
55147	1/2" Poly flow tubing, 14"	1
55231	1/4" Poly flow tubing, 17-1/4"	1
30822	Bolt 1/4-20 x 1/2" Hex Head	3
30711	Screw; 10-24 x 1/2" Hex Head Washer	2
55264	Hose and Cuff Assembly	1
49833	Hose Clamp	2
56006	HydroMiser Assembly w/ Bracket & Water System VS80	1
57278	1" Rubber Coupling (incl. with HydroMiser Assy)	1
56005	HydroMiser Assembly w/Bracket & Water System VS50H	1
55927	Adapter Fitting, 1" MNPT x 1" Barb	1

Tools needed for this installation:

- 7/16" Wrench
- 5/16" nut driver
- Philips screw driver
- Cutter
- Tape Measure
- Adjustable Pliers

Review the FLOW DIAGRAM, below, before beginning installation.

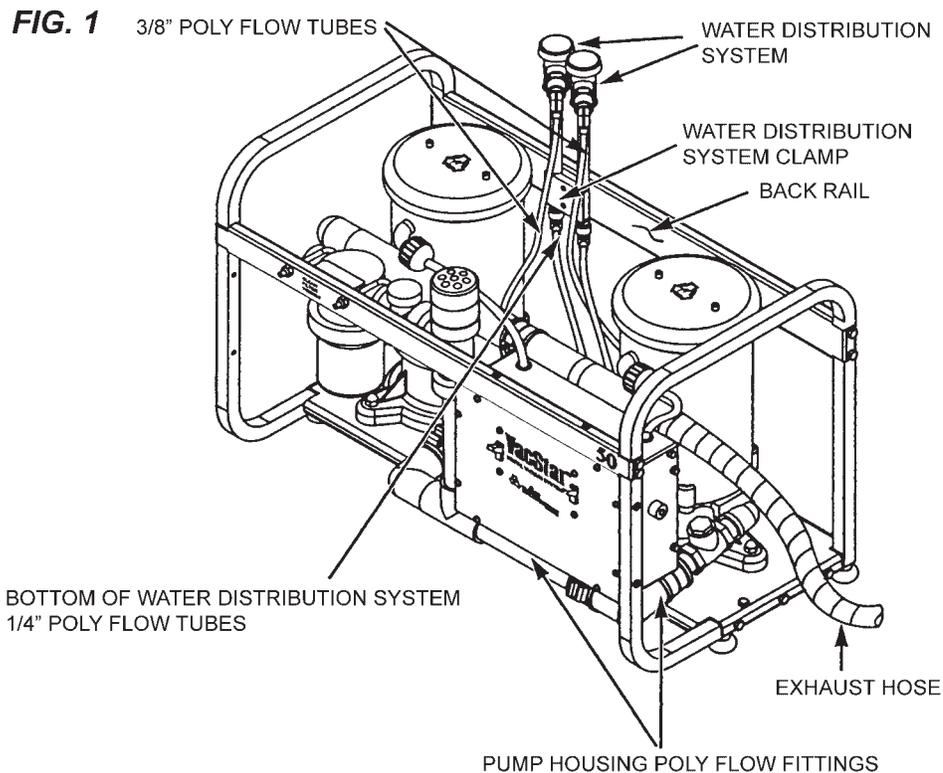


PREPARE THE VACSTAR TO RECEIVE THE HYDROMISER ASSEMBLY

Note: 36" height clearance required for proper vent installation

A. Disconnect the power and shut off the water supply.

B. Disconnect the water distribution system (See Fig 1).



1. Disconnect both 3/8" poly flow tubes at the water distribution system.
2. The other end of the 3/8" poly flow tubes are connected to the pump housing. Measure 13-1/2" from the tube fittings on the pump housing. Cut off the excess tubing.
3. Disconnect both 1/4" poly flow tubes at the bottom of the water distribution system.
Note: When reconnecting these tubes, they must be reconnected in the same way they were disconnected as one tube is longer than the other.
4. Remove and discard both water distribution systems from the back rail using a Phillips screw driver to disengage the clamp.

C. Remove and discard the existing exhaust hose and fitting between the exhaust manifold and the drain.

Cut off the exhaust hose. Use adjustable pliers to unscrew the rest of the fitting (See Figs. 1 & 6).

INSTALL HYDROMISER ASSEMBLY, EDUCTOR, REATTACH TUBING HYDROMISER ASSY.

A. Install the eductor; connect poly flow tubing

- Using a 5/16" nut driver and 2 hex head screws provided, attach the eductor block's bracket to the base plate of the VacStar chassis. Set the eductor on recycle mode (See Fig. 3).
- Route the 3/8" poly flow tube from the left pump assembly over the intake manifold to the left port of the "Y" connector on the eductor block. Insert until the tube stops.
- Route the 3/8" poly flow tube from the right pump assembly to the right port of the "Y" connector on the eductor block. Loop tubes; avoid kinks. Insert until the tube stops.
- Insert the 1/2" poly flow tube (incl. w/kit) into the side port of the eductor block until the tube stops.
- Attach 1/4" poly flow tube (incl.w/kit) to fitting on back of block (See Fig. 3).

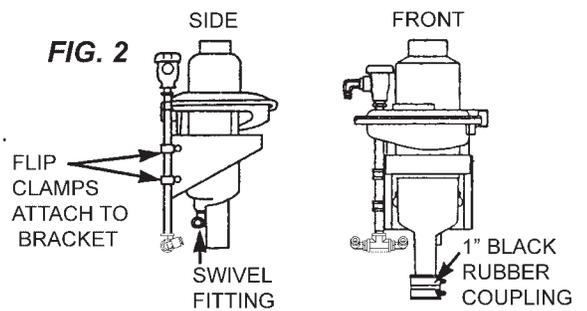
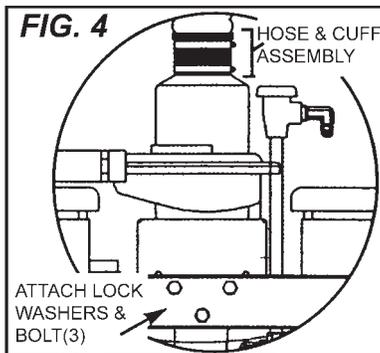
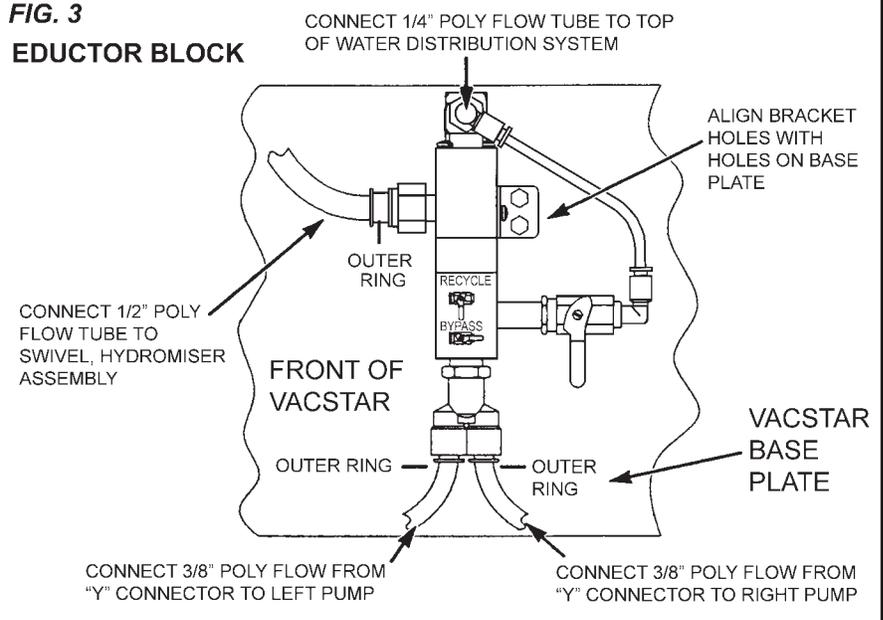


FIG. 3
EDUCTOR BLOCK



NOTE: If, for any reason, it becomes necessary to remove a poly flow tube held in place with a push to connect fitting, simply push the outer ring in and pull on the tube.

B. Attach the HydroMiser assembly to the back rail of the VacStar.

Use 3 bolts and 3 lock washers (incl. w/kit). Use a 7/16" wrench (See Fig. 4).

C. Connect the poly flow tubing to HydroMiser Assembly (See Fig. 5).

- Reconnect the 1/4" poly flow tubes between the bottom of the water distribution system and the sole-noids.

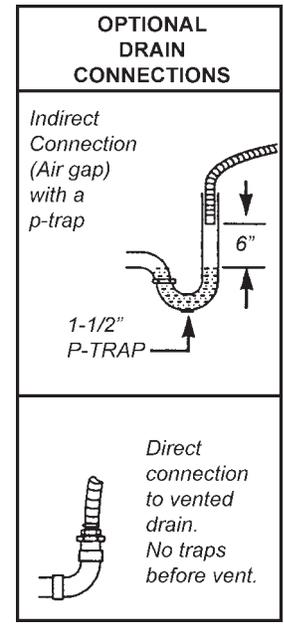
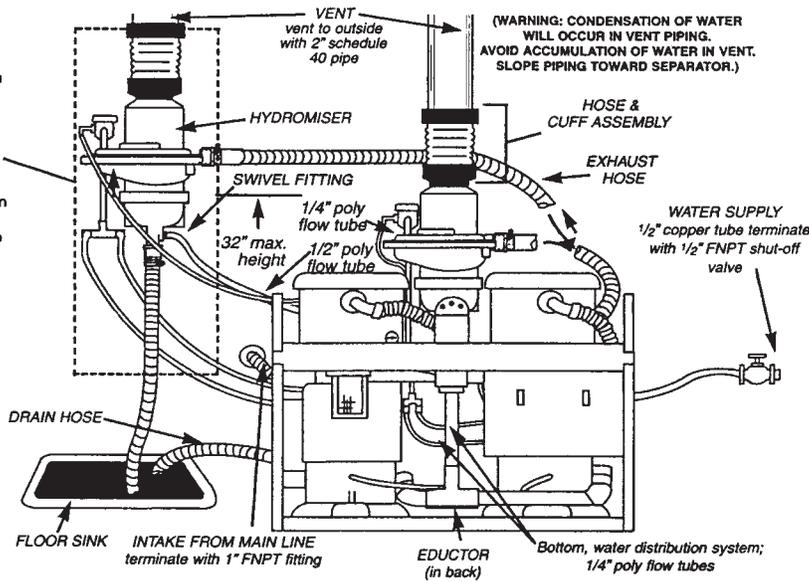
Note: When reconnecting these tubes, they must be reconnected in the same way they were disconnected as one tube is longer than the other.

- Insert the free end of the 1/2" poly flow tube into the swivel fitting of the HydroMiser assembly until the tube stops. (See Fig. 2).
- Connect the 1/4" poly flow tube from the back of the eductor block, (See Fig. 3), to the elbow found at the top of the water distribution system (See Fig. 5).

FIG. 5

If the existing drain is higher than the HydroMiser outlet, the HydroMiser must be mounted so that its outlet is above the drain. The HydroMiser can be installed up to 32" above the base of the VacStar.

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PN 55087.



D. Attach the Exhaust hose (See Fig.6).

1. Screw the 1" mnpt end of the exhaust hose assembly (incl. w/kit) into the exhaust manifold and tighten. This fitting is pre-taped with Teflon tape.
2. Attach the other 3/4" FGHT end of the hose to the Hydro Miser Assembly inlet and tighten.
3. If the exhaust hose is too long, cut it to the correct length & attach supplied adapter fitting, reuse clamp.

E. Connect the drain hose

1. Connect the drain hose assembly to the drain outlet with the 1" black rubber coupling. Use a 5/16" nut driver (See Fig. 2).
2. Connect the other end of the drain hose to the building drain. (See Fig. 5) for proper drain connections. The drain installation must conform to local codes.

F. Connect the Hose and Cuff assembly

1. Connect the Hose and Cuff assembly to the HydroMiser assembly using the hose clamp, (incl. w/kit). Use a 5/16" nut driver (See Fig. 4).
2. Connect the other end of the Hose and Cuff assembly to the building vent using a hose clamp (incl. w/kit). Use a 5/16" nut driver.

CHECK OUT PROCEDURE

1. Reconnect the power and turn on the water supply.
2. Close all HVE's and SE's and turn on the VacStar.
3. If leaks are present, turn off the unit and repair accordingly.
4. If no leaks are present, turn on the VacStar and set the eductor to recycle mode (See Fig. 4). Note the reading on the vacuum gauge. Then, set the eductor to bypass mode. Note the reading again on the vacuum gauge. If there is no more than 1 In Hg. difference between readings, the HydroMiser has been installed successfully.
5. If the readings are not the same or widely different, review the installation. If the HydroMiser was installed correctly, see the VacStar Service Technicians Manual, Trouble Shooting Guide, Low or No Suction.

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FIG.6

