



DENTAL VACUUM SYSTEMS

System Setup Connections and Scheduled Maintenance Guide

for VacStar Models

- VS50
- VS50H
- VS80
- VS80H

Introduction - This document provides the instructions necessary to install the VacStar Models VS50, VS50H, VS80, and VS80H system into a utility room that is properly prepared for the system to be installed. This means that all site requirements have been met and plumbing and electrical systems are in place prior to making the installation.

Installation -

- Place VacStar in prepared utility site.
- Connect the operatory main line to the Intake solids collector inlet port.
- When installing models VS50H and VS80H, connect the exhaust port of the Hydromiser to the facility exhaust vent line.
- Connect the drain port of the VacStar to the facility drain
- Connect facility water to the push to connect water inlet connector.
- If installing a 24V remote switch, refer to the 24V Connections of this guide.
- Connect VacStar to the appropriate facility power.



Model VS50



Model VS80



Model VS50H



Model VS80H

Hydromiser Models VS50H & VS80H Require Exhaust Venting

Important -

- Make sure to install the system in accordance with all local electrical and plumbing codes.
- Make sure all hose connections are straight and secure without any sharp bends or kinks. Do not stress the rigid vacuum hose connections especially at the pump inlet.

VacStar Documentation - Refer to the following for more detailed plumbing, electrical connections and site requirements.

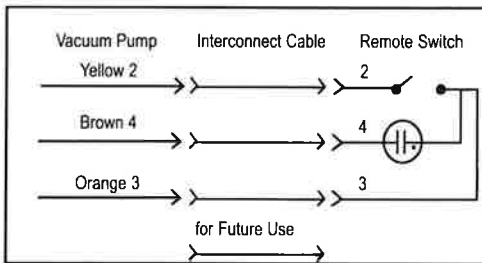
- User's Manual, P/N 55151CUL.
- Pre-Installation Guide, P/N 55349.

ELECTRICAL CONNECTIONS

VacStar 50, 50H, 80, 80H must be wired directly from an electrical box that complies with local electrical codes to the VacStar's Electrical Connection Box.

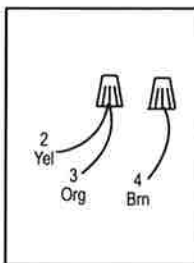
24V CONNECTIONS

Connection to 24V Switch Only



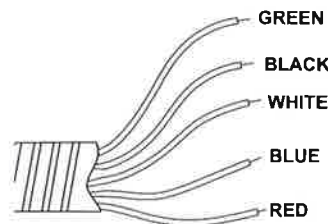
Use 18 Gauge, 4 Conductor, Interconnect Cable Between VacStar Pump and Remote Switch

Connection without 24V Switch



Interior Electrical Box Connections

230V CONNECTIONS



Dual Circuit	
Pumps	Power Leads
RIGHT	(L1) BLACK (L2) WHITE
LEFT	(L1) RED (L2) BLUE

Note: For Single Circuit, connect Black and Red wires together (L1) and White and Blue wires together (L2).

VacStar 50, 50H, 80, 80H Power Connection

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Scan QR Code for more about VacStar

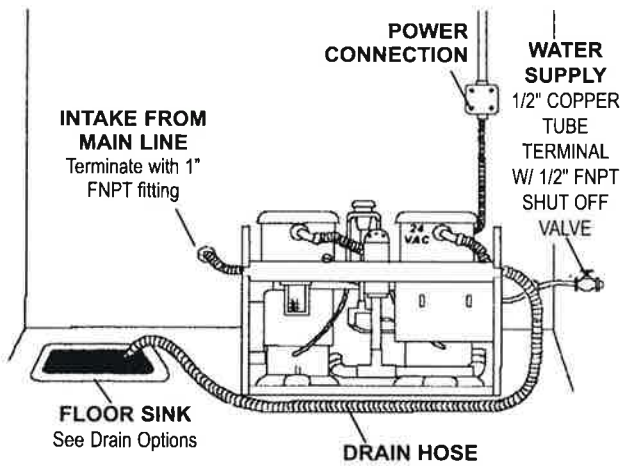


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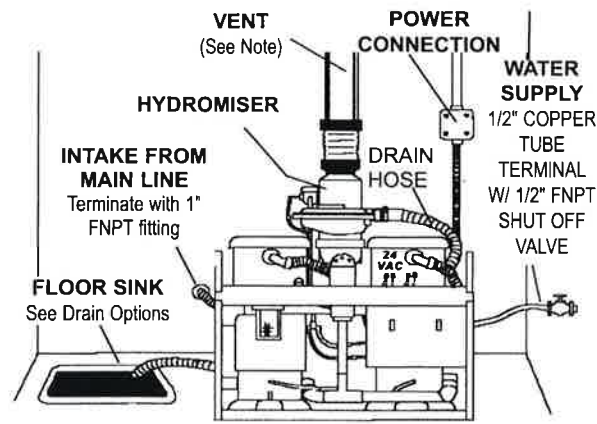
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291 Bonnie Lane, Suite 101 | Corona, CA 92880 - 2804, UAS
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VacStar VS50 and VS80



Note: Models VS50H & VS80H use a Hydromiser that requires exhaust venting. Vent using 2-inch schedule 40 pipe.

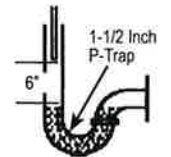
VacStar VS50H and VS80H
(with Built-In HydroMiser)

DRAIN OPTIONS

Direct connection to vented drain. No traps before vent.



OR



Closed Vented Drain

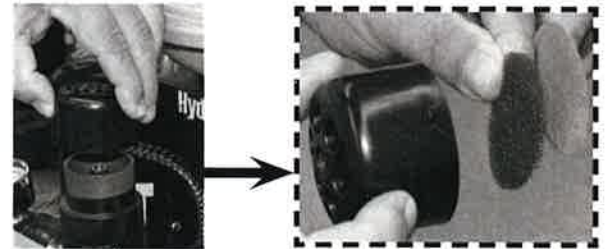
SCHEDULED MAINTENANCE

☐ Daily Maintenance - Clean vacuum lines

Flush all vacuum lines and tubing in the dental system with Monarch CleanStream Evacuation System Cleaner.

☐ Routine Inspection - Monthly

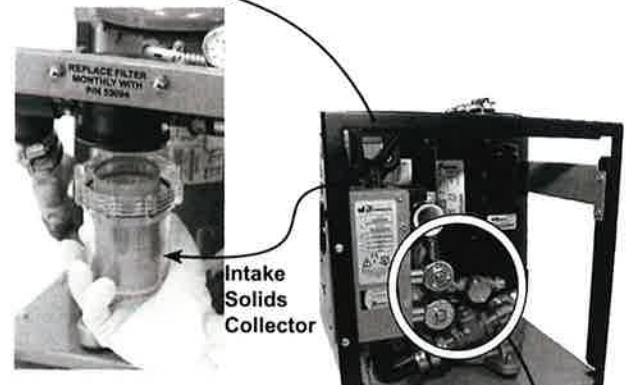
1. Check tubing for kinks or cracks.
2. Check for abnormal noises and leaks.
3. Dual Units: Make sure both motors are running
4. Check exterior surfaces for dirt and debris, clean if necessary.
5. Check that no flammable, corrosive, or combustible materials are stored in the equipment room (especially in the area around the equipment).
6. Refer right and check the vacuum relief valve filter, clean if necessary.



Vacuum Relief Valve Filter

☐ Intake Solids Collector Replacement - Monthly

1. Turn off the power and water supply.
2. Unscrew the solids bowl (counter clock-wise) and remove the screen and gasket. Dispose of all three items.
3. Assemble a new bowl, screen and gasket included in the Solids Collector Replacement Kit. 55094 (55094C case of eight kits).
4. Install the new solids collector by screwing the bowl into the solids collector body.



NEVER OPERATE WITHOUT THE SCREEN INSTALLED IN THE BOWL

☐ Check/Clean Water Inlet Strainer - Semi-Annually

1. Turn off the power and water supply to the equipment.
2. Use a 1³/₁₆ inch wrench to unscrew (counter clockwise) the cover nut.
3. Remove the cover nut and strainer.
4. Inspect the strainer and clean as necessary.

Assembling the Water Inlet Strainer

1. Orienting the assembly with the cover nut facing down as shown, seat strainer into the cover nut.
2. Insert the strainer up into the strainer body and tighten the cover nut.
3. Make sure the strainer stays perpendicular to the strainer body.
4. Push up and tighten the cover nut making sure not over tighten.



Solenoid and Water Inlet Strainer