	F	PRE-IN	STAL	LATIC	JN GU	IDE
Vacs Dental Vacuu	Tar. M SYSTEMS	MOI		FOR VS50, & VS8	VS50F 30H	١,
Model VS50	Model VS50H		Model VS80)	Model VS80	ЭН
	This VacStar Ma (VS50 UVS50H	AS CHECKED)	eing insta /S80 /S80H	illed:		
Doctor: Address: Phone#: Dealer: Dealer Addres	s:					
	RODUCT S				; 	
Electrical		VS50	VS50H	VS80	VS80H	
Voltage Rating		230	230	230	230	
Voltage Min./Max	ζ.	205/253	205/253	205/253	205/253	
Full Load Amps		16	16	26.8	26.8	
Water						
Inlet Water Press		20 - 100	20 - 100	20 - 100	20 - 100	
	ump (gal/min) w/ HydroMiser	N/A	0.12	N.A.	0.18	
	ump (gal/min) w/o HydroMiser	0.50	N/A	0.75	N/A	
Inlet Water Temp Power and Heat (@		40 - 75	40 - 75	40 - 75	40 - 75	
		4 500	4 075	2.400	0.075	
Watts per Hour		1,500	1,875	2,460	3,075	
BTU per Hour		5,119	6,398	8,394	10,493	
Vacuum Level	<i></i>					
Preset at Factory		10	10	10	10	
Physical Characteris						
Shipping Weight in	•	160 22 x 28 x 16	170 25 x 28 x 16	200	210	
Height x Width x E	Height x Width x Depth Dimensions in inches			22 x 28 x 16	25 x 28 x 16	

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All installations must conform to local codes.

PHYSICAL CHARACTERISTICS

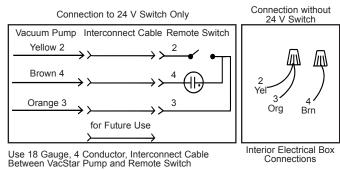
Model VS50		Model VS50H		Model VS80		Model VS80H	
Height	21 inches (53 cm)	Height	24 inches (61 cm)	Height	21 inches (53 cm)	Height	24 inches (61 cm)
Width	28 inches (71 cm)	Width	28 inches (71 cm)	Width	28 inches (71 cm)	Width	28 inches (71 cm)
Depth	16 inches (41 cm)	Depth	16 inches (41 cm)	Depth	16 inches (41 cm)	Depth	16 inches (41 cm)
						24.00	
Shi	pping Weight	Shi	pping Weight	Shi	pping Weight	Shi	pping Weight
160	0 lbs. (73 kg)	170	0 lbs. (77 kg)	200 lbs. (91 kg)		210 lbs. (95 kg)	

SITE REQUIREMENTS

Electrical	ctrical VS50 VS50H		VS80	VS80H	
Min. Circuit Breaker Rating	2 ea. 15A or 1 ea. 30A	2 ea. 15A or 1 ea. 30A	2 ea. 20A or 1 ea. 40A	2 ea. 20A or 1 ea. 40A	
Wire Size AWG (Min. Gauge)	2 ea. 14 or 1 ea. 10	2 ea. 14 or 1 ea. 10	2 ea. 12 or 1 ea. 8	2 ea. 12 or 1 ea. 8	
Buck/Boost Transformer	#67002	#67002	#67002, 2 ea.	#67002, 2 ea.	
Ambient Temperature	(40 - 104°F 5 - 40°C)	40 - 104°F (5 - 40°C)	40 - 104°F (5 - 40°C)	40 - 104°F (5 - 40°C)	

Important: Each pump should have a dedicated circuit panel.

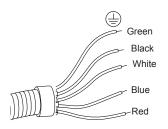
24V CONNECTIONS



ELECTRICAL CONNECTIONS

- □ If voltage falls below the minimum 205 or maximum 253 during operation, a Buck/ Boost Transformer must be installed. See Product Specifications.
- All VacStars must be wired directly from an electrical box that complies with local electrical codes to the VacStar's Electrical Connections. See Figure 1.

Figure 1 - Interior View



Pumps	Power Leads		
Right	(L1) Black (L2) White		
Left	(L1) Red (L2) Blue		



MEDICAL ELECTRICAL EQUIPMENT

WITH RESPECT TO ELECTRICAL SHOCK, FIRE, MECHANICAL AND OTHER SPECIFIED HAZARDS ONLY IN ACCORDANCE WITH UL-60601-1, CAN/CSA C22.2 NO.601.1 66CA

PLUMBING SITE REQUIREMENTS

Plumbing	VS50 & VS50H	VS80 & VS80H	
Min. CFM @ 0" Hg	32	44	
Air Exhaust with Hydromiser	2" schedule 40 pipe	2" schedule 40 pipe	
Overhead Plumbing			
Main Line Dia. Min./Max. ID in inches	1¼ to 1½"	1½ to 2"	
End Fitting	1" FNPT	1" FNPT	
Overhead Main Line	1/2" ID	1/2" ID	
Floor Plumbing			
Main Line Dia. Min./Max. ID in inches	1¼ to 1½"	1¼ to 2"	
End Fitting	1" FNPT	1" FNPT	
Branch Line Dia. Min./Max. ID in inches	1 to 1½"	1 to 1½"	

Note: Suction piping must slope at least a ¹/₄" for each 10 feet of run towards the pump.

Use PVC Schedule 40 or Copper Type M.

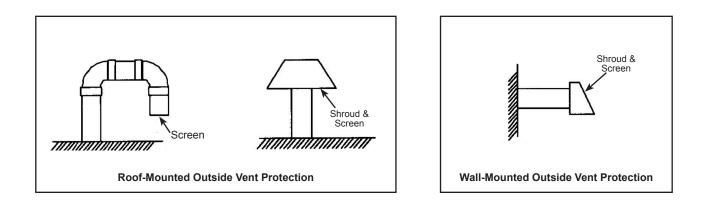
VENTILATION REQUIREMENTS

Equipment Room Temperature

The VACSTAR equipment must be used in a controlled temperature environment. Maintain equipment room temperature between 40 and 105 degrees Fahrenheit. Adequate forced ventilation must be provided across the unit by placing an appropriate exhaust fan opposite an equivalent air intake vent. The fan should be higher than the associated intake vent.

Exhaust Vent Protection.

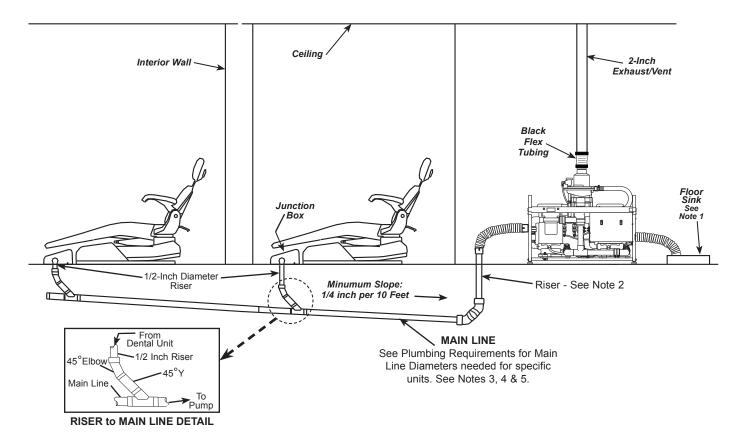
If the exhaust piping is venting to the outside of the building, precautions must be taken to protect the equipment room from weather elements and animal intrusion. This can be accomplished by using one of the three methods shown below.



Make sure to use the required pipe type for associated system

PLUMBING INSTALLATION

SUB FLOOR INSTALLATION - THE SUB-FLOOR PLUMBING LAYOUT SHOWN BELOW IS THE RECOM-MENDED LAYOUT FOR VACSTAR SYSTEM INSTALLATIONS AND SHOULD BE USED WHENEVER POSSIBLE.



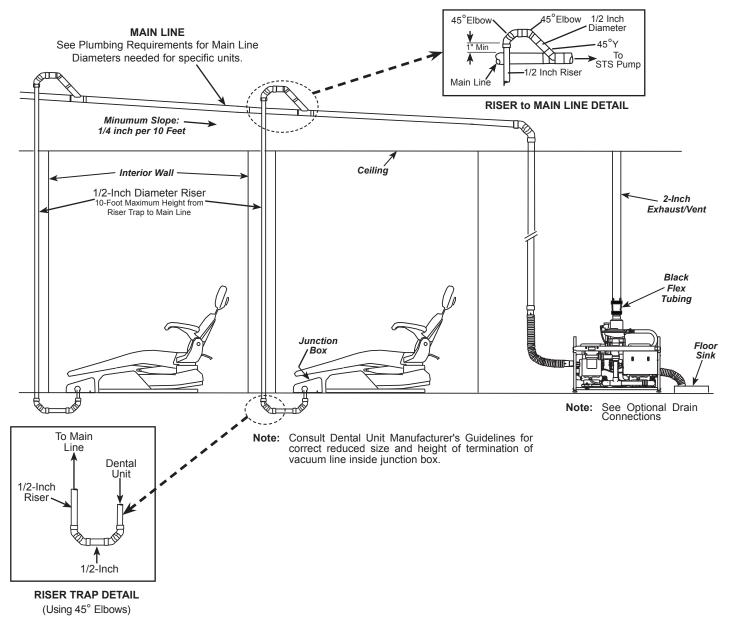
Notes: 1. See Optional Drain Connections shown below.

- 2. 8-Foot Maximum Height from Main Line to pump.
- 3. Consult Dental Unit Manufacturer's Guidelines for correct reduced size and height of termination of vacuum line inside junction box.
- 4. Limit branches. Orient main line under junction box or cabinet.
- 5. When main line is 1-1/2" I.D. or larger, use 45° Y's and elbows only.
- 6. Long radius 90° elbows can be used as alternates to 45° elbows.

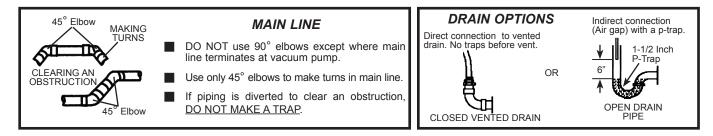
All installations must conform to local codes.

PLUMBING INSTALLATION

OVERHEAD INSTALLATION - THE OVERHEAD PLUMBING LAYOUT SHOWN BELOW IS THE ALTERNATE LAYOUT FOR VACSTAR SYSTEM INSTALLATIONS AND SHOULD BE USED ONLY WHEN UNABLE TO USE THE SUB-FLOOR PLUMBING LAYOUT.

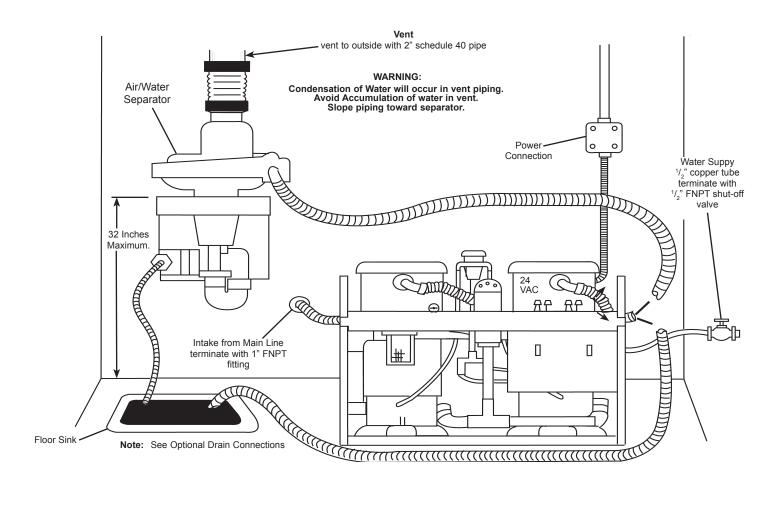


CONNECTION DETAILS ALL INSTALLATIONS -



UTILITY ROOM WITHOUT HYDROMISER WITH OR WITHOUT AIR/WATER SEPARATOR

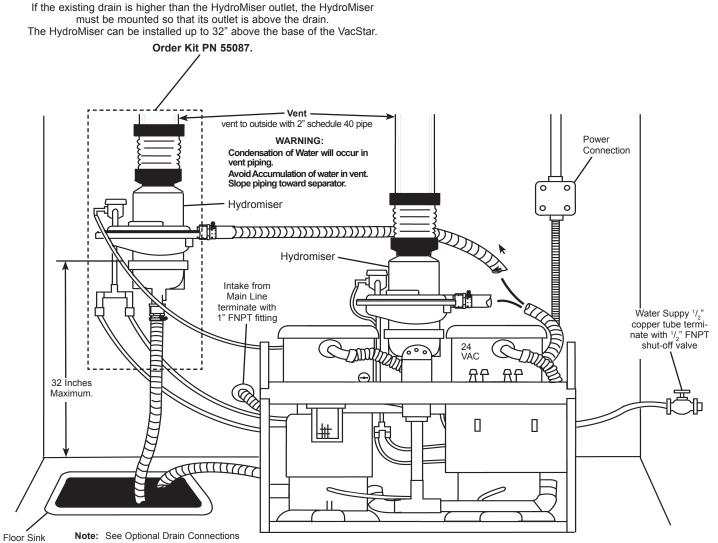
Typical for both VS50 and VS80



All VacStar vacuums comply with NFPA 99C level 3 requirements

UTILITY ROOM WITH HYDROMISER

Typical for both VS50H and VS80H



You can obtain more information about Air Techniques' products by visiting our web site at **www.airtechniques.com**

Additional installation information is available on our Authorized Air Techniques Dealer web site at http://dealers.airtechniques.com



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