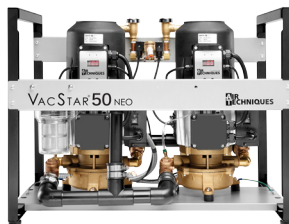
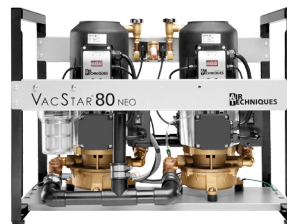


Check VacStar NEO Model Being Installed:



☐ VS50NEO



☐ VS80NEO

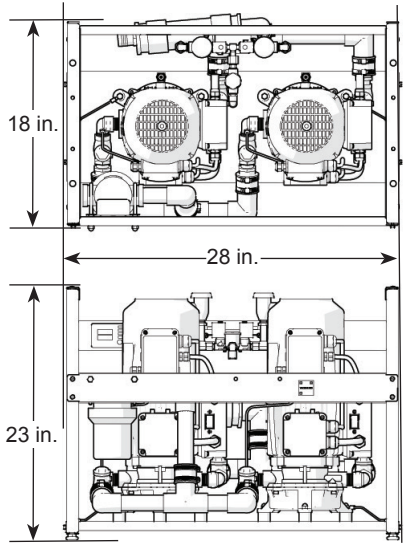
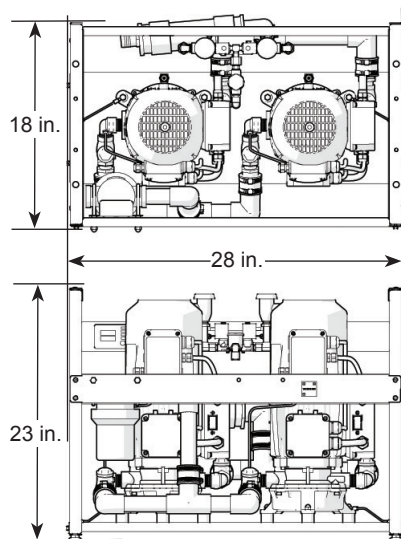
Doctor: _____
 Address: _____
 Phone#: _____
 Dealer: _____
 Dealer Address: _____

PRODUCT SPECIFICATIONS

Electrical	Model VS50NEO	Model VS80NEO
Voltage Rating (VAC)	220	220
Voltage Min./Max. (VAC)	198/242	198/242
Frequency Single Phase (Hz)	50/60	50/60
Full Load (Amps)	20	28
Water		
Inlet Water Pressure (PSI)	20 - 100	20 - 100
Flow Rate (gal/min) per Pump	0.13	0.13
Inlet Water Temperature (°F)	40 - 75	40 - 75
Vacuum Level		
Preset at Factory (in Hg)	10	10

All installations must conform to local codes.

PHYSICAL CHARACTERISTICS

Model VS50NEO		Model VS80NEO	
Height	23 inches (58 cm)	Height	23 inches (58 cm)
Width	28 inches (71 cm)	Width	28 inches (71 cm)
Depth	18 inches (46 cm)	Depth	18 inches (46 cm)
			
Shipping Weight 175 lbs. (79 kg)		Shipping Weight 175 lbs. (79 kg)	

ELECTRICAL CONNECTIONS

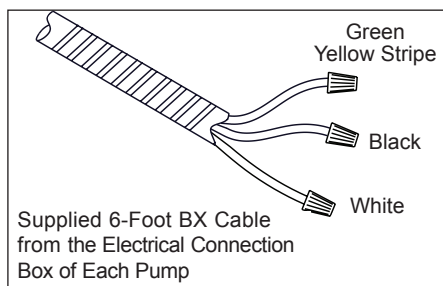
220V Connections:

- Each pump has its own 6-foot BX cable pre-wired to the electrical connection box for direct wiring to dedicated 220VAC, single phase 50/60 Hz circuit via a disconnect box with approved ground.
- Disconnect box should be mounted no more than 3 feet of each other and 3 feet of installation center line.
- The supplied cable is pre-wired in the electrical box of each pump. Connect cable wires by matching color.

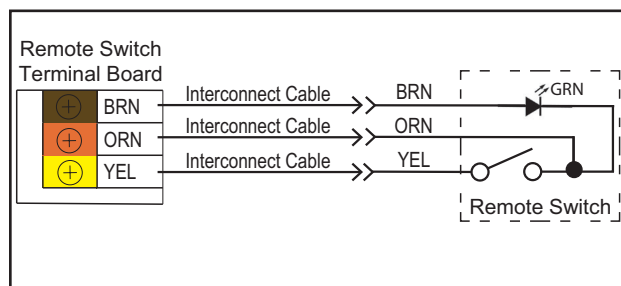
Important: When not connecting a 24VDC remote switch, the ORG and YEL wires must be tied together and the BRN wire insulated for pump operation.

24VDC Connections:

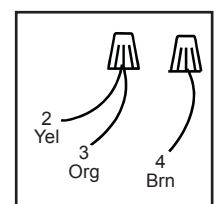
- 24VDC Connections are used when installing a 24VDC remote switch. They are made via a supplied interconnect cable that is also pre-wired to the electrical connection box of each pump.
- Make the 24VDC connections shown below for the remote switch. When not using the remote switch, insulate the BRN wire and tie the ORG and YEL wires together.



220VAC Connections



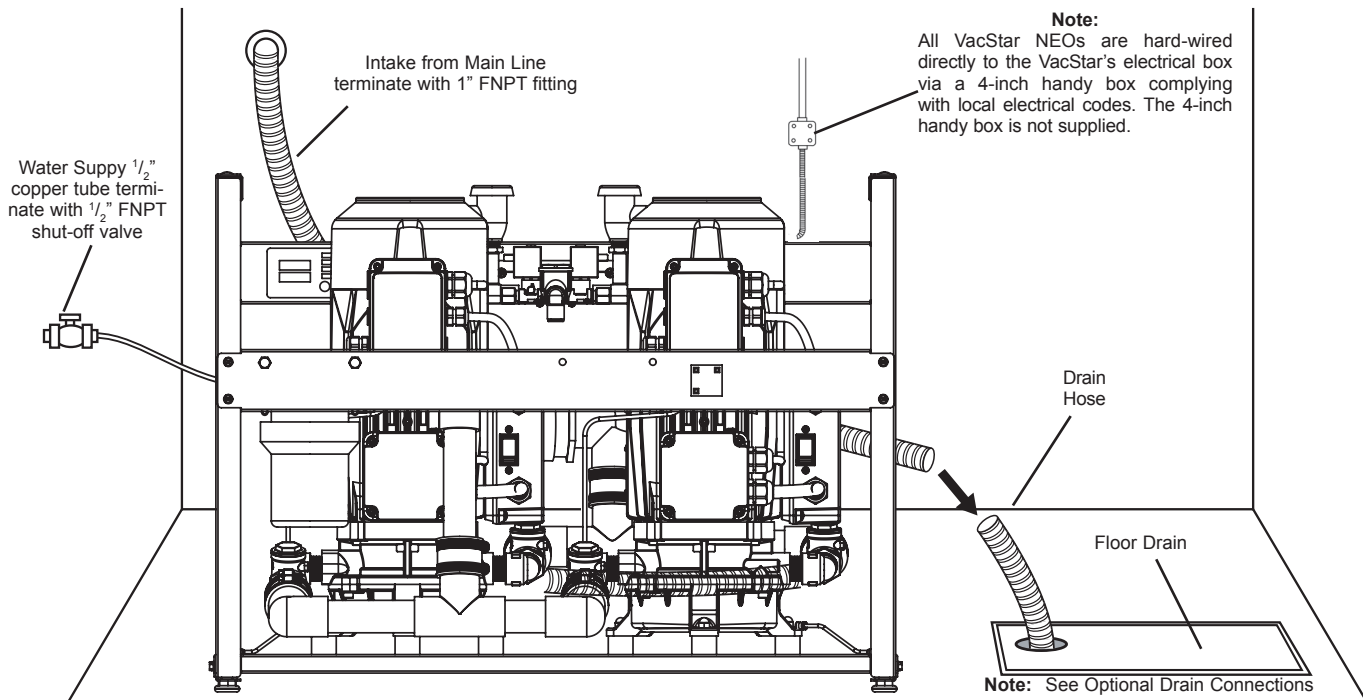
24VDC Connections



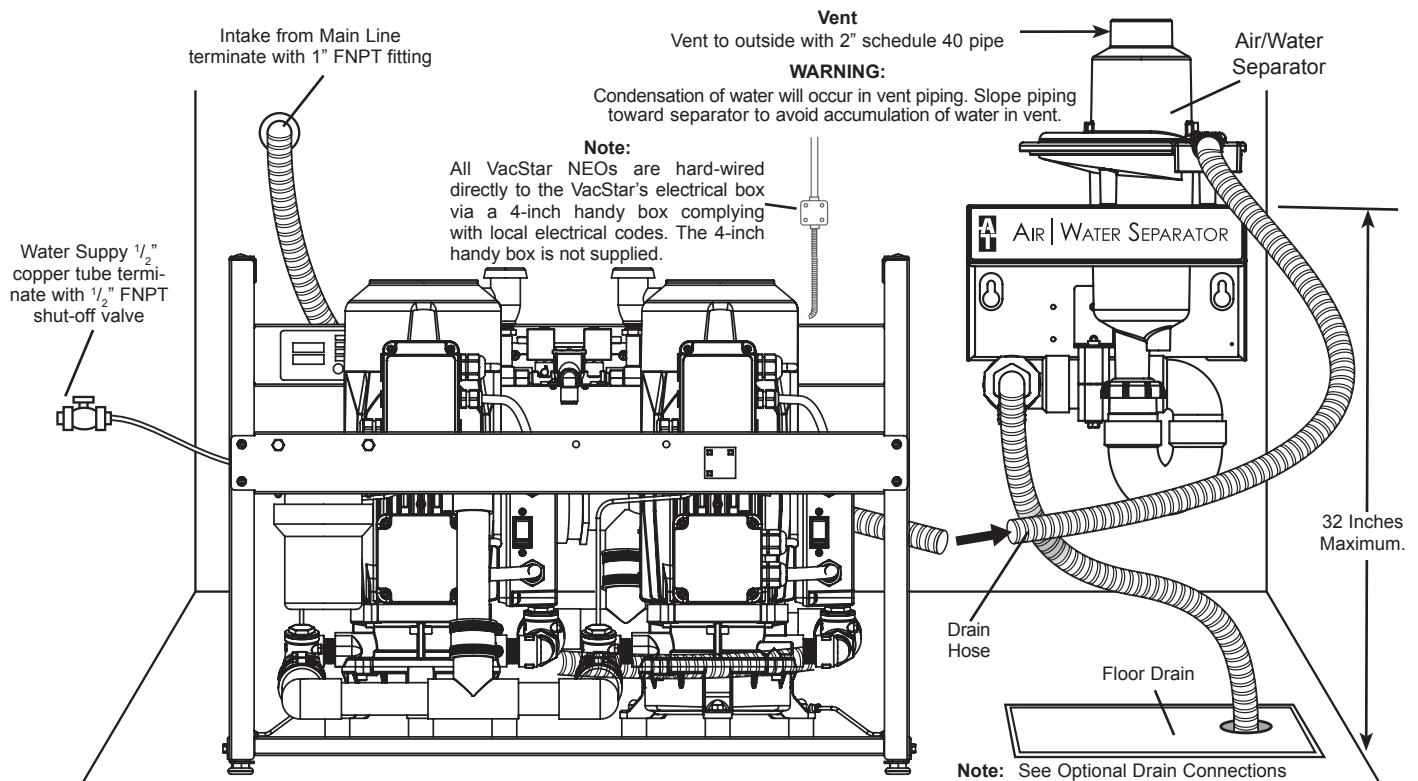
Connection without 24VDC Switch

UTILITY ROOM CONFIGURATION

VacStar NEO without Wall-Mounted Air/Water Separator



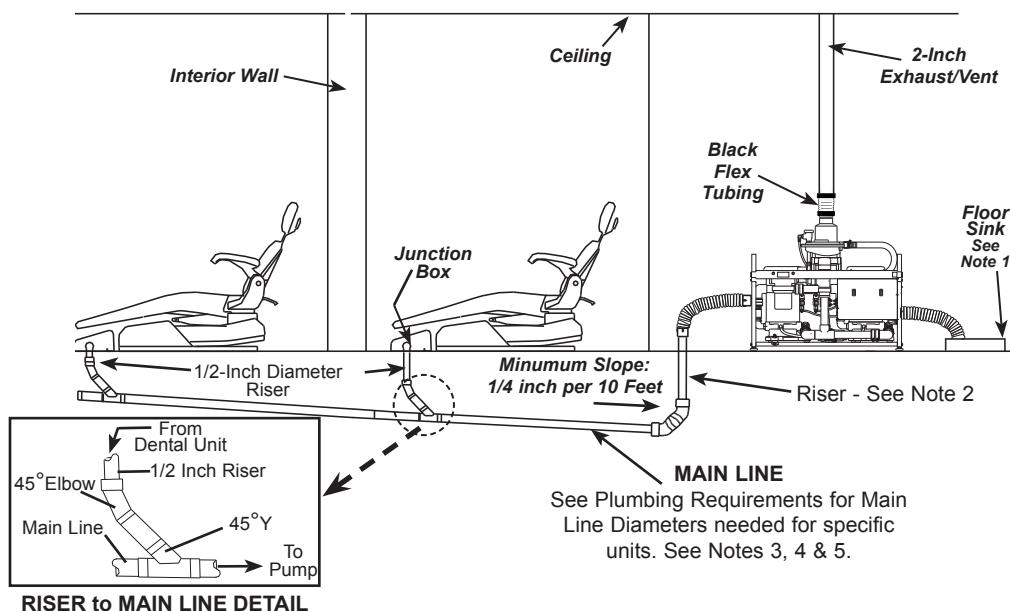
VacStar NEO with Wall-Mounted Air/Water Separator



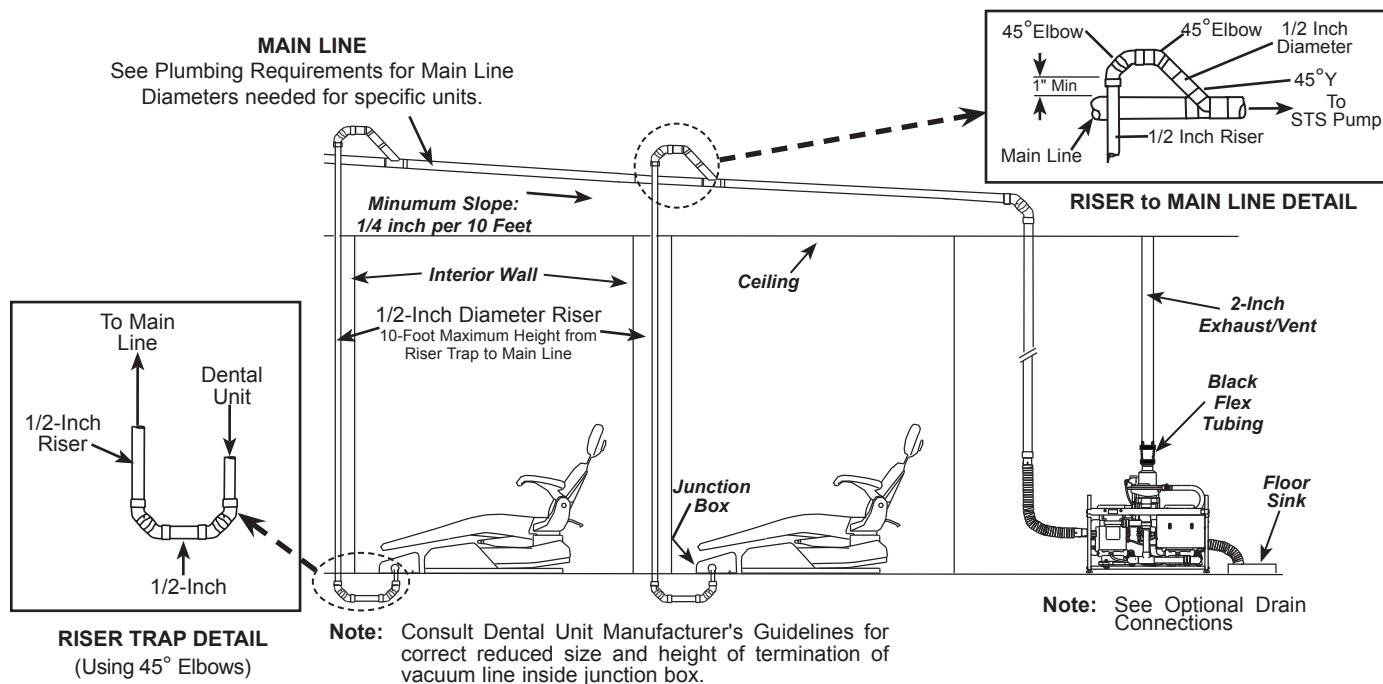
All VacStar NEO vacuums comply with NFPA 99C level 3 requirements

PLUMBING INSTALLATION

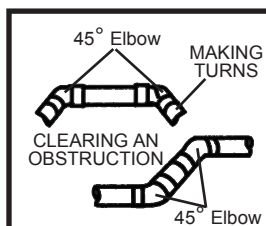
SUB FLOOR INSTALLATION - The sub-floor plumbing layout shown below is the **recommended** layout for VacStar system installations and should be used whenever possible.



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 -



MAIN LINE

- DO NOT use 90° elbows except where main line terminates at vacuum pump.
- Use only 45° elbows to make turns in main line.
- If piping is diverted to clear an obstruction, DO NOT MAKE A TRAP.

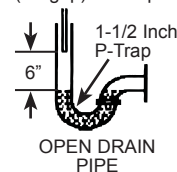
DRAIN OPTIONS

Direct connection to vented drain. No traps before vent.



OR

Indirect connection (Air gap) with a p-trap.



All installations must conform to local codes.

SITE REQUIREMENTS

Electrical	VS50NEO	VS80NEO
Minimum Circuit Breaker Rating	2 X 15 or 30A	2 X 20 or 40A
Minimum Wire Gauge Size	2 X #12 AWG or 1 X #10 AWG	2 X #12 AWG or 1 X #8 AWG
220-Volt Buck/Boost Transformer	#67002 (3.4 KVA)	#67002 (3.4 KVA)
Plumbing		
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.		
Minimum CFM @ 0" Hg	30	40
Air Exhaust with Air/Water Separator	2" schedule 40 pipe	2" schedule 40 pipe
Overhead Plumbing		
Main Line Diameter (Min./Max. ID in inches)	1 to 1 1/2"	1 1/4 to 2"
End Fitting	3/4" FNPT	3/4" FNPT
Overhead Main Line	1/2" ID	1/2" ID
Floor Plumbing		
Main Line Diameter (Min./Max. ID in inches)	1 to 1 1/2"	1 1/4 to 2"
End Fitting	3/4" FNPT	3/4" FNPT
Branch Line Diameter (Min./Max. ID in inches)	3/4" to 1 1/2"	1 to 1 1/2"
Environmental		
Ambient Temperature (See ventilation requirements below.)	40 to 104°F (5 to 40°C)	40 to 104°F (5 to 40°C)

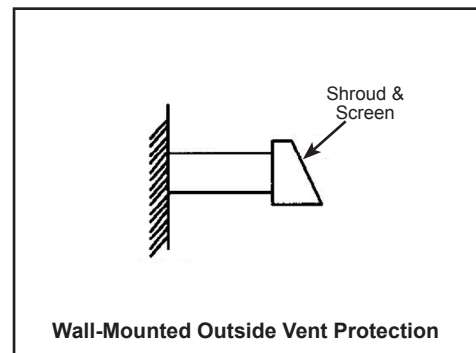
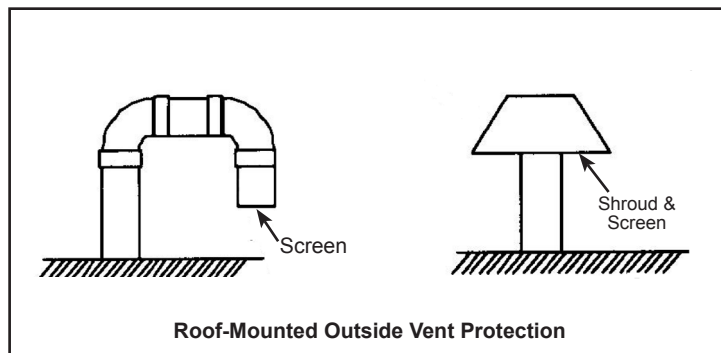
VENTILATION REQUIREMENTS

Equipment Room Temperature

The VacStar NEO 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

[illegible]

[illegible]

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