

# Tech West ECOVac Pre-Installation Guide

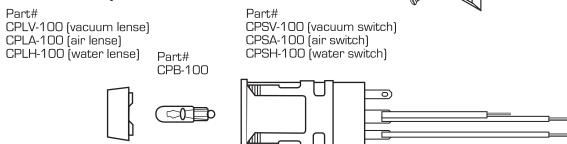
All installations must conform to local codes.

Revised 6/16

### **Box Mounted Control Panel Diagram**

- **A.** Mount a three gang junction box to a solid wall stud. It should be placed so that it's front surface is set back 1/2" to 5/8".
- **B.** Run one 18-3 bell wire from each piece of equipment up to the installed junction box.
- C. Cut and install sheet rock.
- D. Connectors are provided to complete the wiring of the control panel by connecting wires to corresponding colored wires from the low voltage contactor box(es).
- **E.** Position the panel, then insert and tighten screws.
- F. 1 & 2 switch panels use 2 switch mud ring box. 3 or more switch panels use 3 switch mud ring box.

### Switch Assembly



### Wiring Schematic (4 Switch Panel)

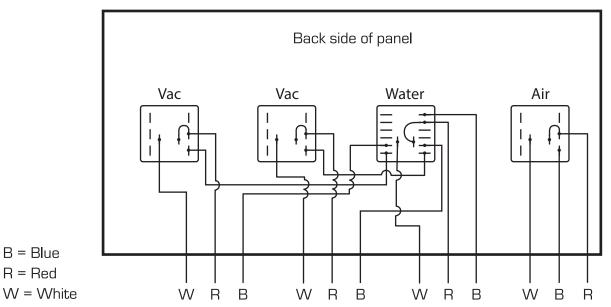
**Junction Box Installation** 

Junction Box - (Not Proivided)

1/2" - 5/8 Set Back

Part#

CP-2V

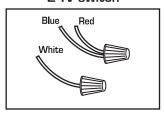


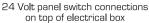
# **Electrical Connections**

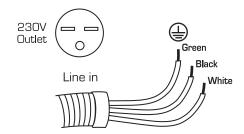
### Important Information

- **A.** Use NEMA 6 15P outlet for 230 V Connection.
- **B.** If hard wiring system, cut plug off and connect black white and green wires to incoming power wires

## Connection without 24V switch







# **Ventilation Requirements**

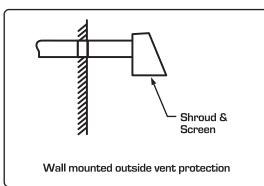
#### **Equipment Room Temperature**

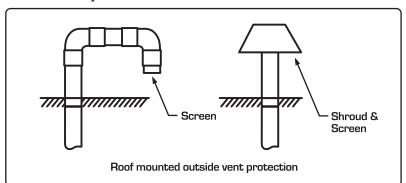
The Tech West Inc. equipment must be used in an environment that is temperature controlled. Room temperature must remain between 40 and 105 degrees Fahrenheit. Adequate forced ventilation must be provided across the equipment by placing an adequate exhaust fan opposite an equivalent air intake vent. 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.

Vent must be 10' or more from a compressor intake, window or door.

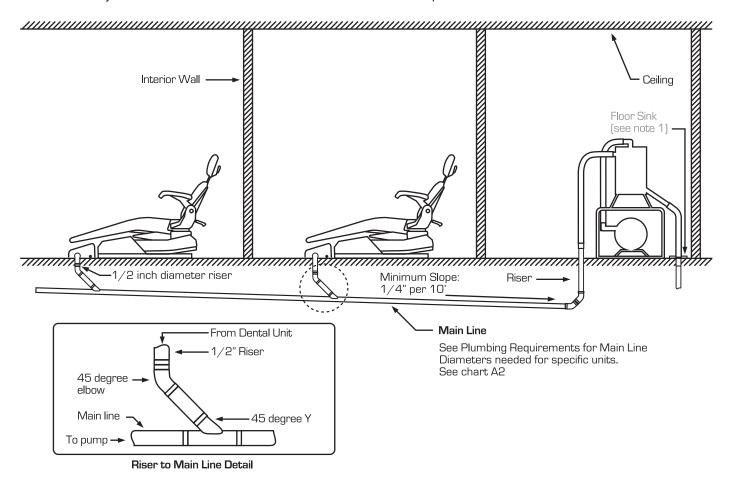




Make sure to use the correct pipe type for associated system

# Plumbing Installation

**Sub Floor Installation:** The sub-floor plumbing layout shown below is the recommended layout for Tech West Inc. system installations and should be used whenever possible.



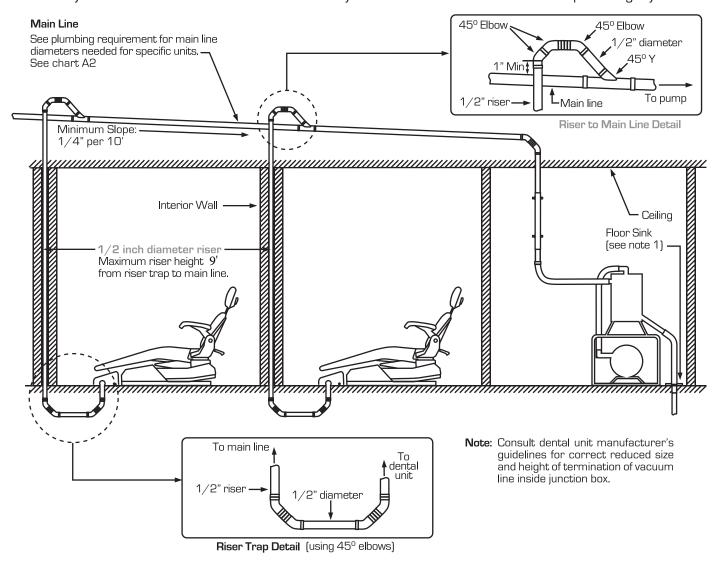
#### Notes:

- 1 See optional drain connections shown below
- 2 8 foot maximum height from main line to tank
- 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" ID or larger, use 45 degree Y's and elbows only.
- 6 Long radium 90 degree elbows can be used as alternates to 45 degree elbows.
- 7 A total of 8 feet of 1 1/4 inch hose is supplied with Tech West Inc. units. This hose must be shared between inlet and drain.

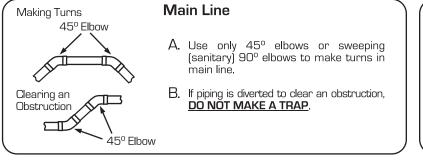
#### All installations must conform to local codes

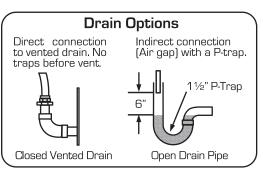
# Plumbing Installation

**Overhead Installation:** The overhead plumbing layout shown below is the alternate layout for Tech West Inc.'s system installation and should be used only when unable to use the sub-floor plumbing layout.



### Connection Details All Installations





# **Target Room Layout**

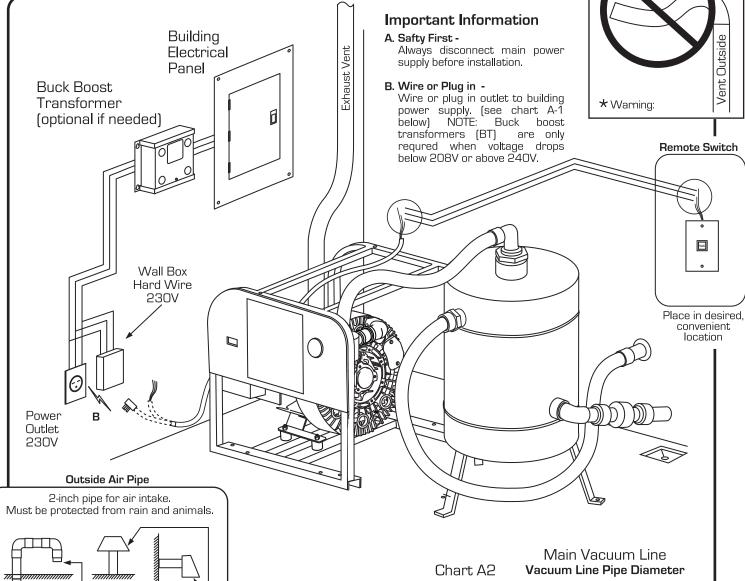


Chart A1

Sharevit				
Model	Voltage	Breaker Amps	Plug type	
VPD2S2	230 Volt	20 Amps	230 Hard wire / NEMA 6-15P	
VPD4D2	230 Volt	2X20 Amps	230 Hard wire / NEMA 6-15P	
VPD5S2	230 Volt	20 Amps	230 Hard wire / NEMA 6-15P	
VPD10D2	230 Volt	2X20 Amps	230 Hard wire / NEMA 6-15P	

#### **Exhaust Ventilation Connection**

Shroud & screen

Exhaust needs to be vented outside with 2" flexible hose provided. \*\*Warning: Avoid any bends resuling in adownward slope.

Condensation could cause water to collect in vent pipe.

[See diagram abover]

Open floor sink - use 3/8" clear hose to exhaust drip leg.

Operatories	PVC sch 40	Copper
1	3/4"	3/4"
2	1"	1"
3	<b>1</b> 1/4"	1"
4	<b>1</b> 1/4"	<b>1</b> 1/4"
5	<b>1</b> 1/4"	<b>1</b> 1/2"
6	<b>1</b> 1/2"	<b>1</b> 1/2"
7	<b>1</b> 1/2"	<b>1</b> 1/2"
8	<b>1</b> 1/2"	<b>1</b> 1/2"
9	<b>1</b> 1/2"	2"
10	2"	2"
11	2"	2"
12	2"	2"

### **Ambient Tempertures**

H. Must not exceed 105°F Must remain above 41°F