

Viper Training Info and Contacts:

Cornelius Tech Support – 1-800-238-3600 – follow prompts 8am-5pm central time

Electrical:

- 230VAC +/- 15VAC. Install the pre wired Buck Boost transformer as needed. It comes set up for 16VAC boosted but can be reconfigured to boost by 32vac or step down by 15vac or 32vac.

Co2:

- To unit – 75psig (regulator to be as close to the back of the unit as possible) this will also avoid starving the unit due to pressure drops.
- To BIB pumps – 75psig (may need more depending on length of run)
- Barrel regulator (located behind splash panel) – 36-38psig (do not adjust with pressure or product in the barrel). To set the gauge, backseat (CCW) until gauge is at 0 and then slowly crank up (CW) to desired setting of 36-38 psig. More Co2 the more over run, less Co2 the less over run.
- Low Overrun Viper – Co2 should be set at 45%-50%.
- Expansion tank regulator on standard over run (regulator on the side of the unit) – 30psig (never adjust with product in barrel).
- Expansion Tank regulator on low overrun should be set to 7psi (never adjust with product in barrel).

Water:

- Viper requires a ½ water line. Water pressure to the Viper should be 50 psi-60 psi with absolute minimum being 30Psi and maximum being 60Psi. If over 60Psi install a water regulator. You can test the flow rate by filling a 5 gallon bucket, if you can fill it in 3-3.5 minutes then you have good flow.
- If you have low water pressure, install a water booster prior to your filter. This will increase your pressure to 90psi-110psi. In this case we will place a pre set 50psi-60psi water regulator inline to the Viper to reduce the pressure. This should be placed 1'-2' prior to the Viper.
- The viper should have filtered water feeding it. The system should consist of a pre filter to remove solids and carbon filters to remove taste and odor. Do not use Phosphate, soft water or descaler as it will eliminate your carbonation.
- Flow rate from the sample tube should be 16-17oz in 10 seconds (factory set to 1.6 – 1.7 oz per second)

Brix

- Set Brix to 13 +/-1 targeting 13.5.

Line Size:

- Water - 1/2"
- Co2 – 3/8"
- Syrup – 3/8"

Viscosity:

- Set at 4. You can adjust if need be while product is in the barrel one number at a time, after you make adjustments let the compressor cycle multiple times to let it stabilize before adjusting any more.
- If you go from a higher viscosity to a lower viscosity, please make the adjustment, defrost that barrel and freeze it down so you can see the adjustment take effect.