

Baselining a Viper

The following procedure will be used to “baseline” a barrel or a Viper unit on arrival of a service call. This will ensure that you have everything set up properly which may resolve the issue and possibly eliminate the need to troubleshoot. Place the barrel you would like baseline on through 2 defrost cycles.

- a. Select off for the barrel you are working on.
- b. Select Defrost; the manual defrost cycle takes 4 minutes. After the first defrost cycle finishes, hit defrost one more time to ensure the product is in a liquid state.
- 2) Purge the product from the barrel – When you activate Purge it will cut off the fill process for that barrel.
 - a. Enter the menu, enter the maint option, enter the barrel maintenance, highlight the barrel you would like to purge and select purge. Once the product is purged, turn purge option off. (you won't be able to remove all of the product, the product that is below the dispense point of the valve you will have to remove manually by removing the faceplate)
 - b. Select Stop to stop the purge process. Once you stop the purge process, actuate the dispense valve to remove the pressure in the barrel.
- 3) Remove the splash panel, turn the 3 way valve for the barrel your changing the flavor to the brix position.
- 4) Checking the Brix - you will need a Refractometer
 - a. Make sure you calibrate your refractometer before each unit to ensure it is zeroed out. Run it under cold plain water and it should read 0.
 - b. Enter the menu, enter the maint option and enter brix set up
 - c. Highlight the barrel you are working on and select brix, once you hit brix it will dispense product out of the sample tube for 3-4 seconds (it stops dispensing on its own)
 - d. Discard three samples and collect a fourth to take a reading. A standard brix setting is 13 +/- 1 but may change based on the syrup manufacturer.
- 5) Adjusting and setting the brix – You will need a Refractometer.
 - a. If you need to make adjustments to your brix you will adjust your syrup flow control; CW to increase your flow and CCW to decrease your flow.
 - b. Discard 3 samples after each adjustment to let the adjustment take effect. Check your reading on the fourth sample looking for 13 +/-1.
 - c. Flush the sample tube with water by manually activating the water solenoid. You can activate the valve using your finger or by inserting a flat head pocket screwdriver into the slot in front of the flow control at a 45° angle and push the screwdriver down towards the ground. This will lift up on the solenoid plunger and allow the water to flow. We flush the sample tube with water to ensure the brixed product doesn't turn into candy over time and it doesn't attract any unwanted pests.
- 6) Filling the barrel
 - a. Enter the menu, select maint, select barrel maintenance, highlight the barrel you are working on, select fill. Let the barrel fill, as it stops filling relieve the pressure slowly using the relief valve on the faceplate, release the relief valve as it starts to fill and continue until the barrel is filled to a ½” below the top of the barrel. Once complete, hit stop.

- 7) Calibrate the motor
 - a. Enter the menu, select maint, select motor set up, highlight the barrel you are working on and select cal. Let the barrel calibrate itself, this process will take 5 minutes
- 8) Check and verify settings – Viscosity, Syrup type, Defrost lockouts, date and time,
- 9) Placing barrel into freeze mode.
 - a. Highlight the barrel you are working on and select Freeze.
 - b. Make sure the product is of good quality once the freeze cycle is completed.

Settings are as follow...

Co2 – 2 secondary regulators; one feeding the Viper at 75Psi and one to the FCB BIB pumps set at 75Psi

Water – 50-60Psi

Viscosity – default of 4

Motor – Type 1 (60 Hz) Type 2 (50Hz)

Brix – 13 +/-1