



TECHNICAL SERVICE BULLETIN

Product: VIPER FCB

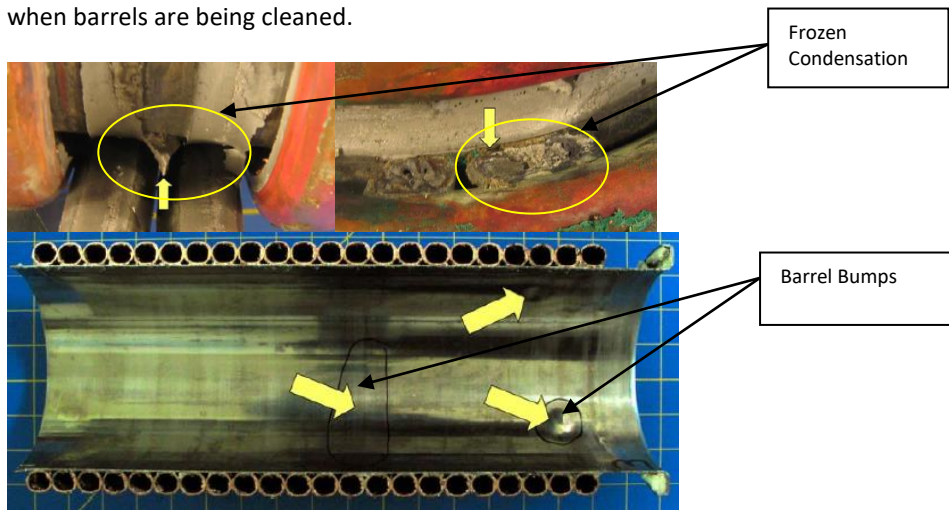
Subject: Barrel Bumps

Date: November 5, 2013

Updated: September 30, 2020

Description of Potential Issue:

It has been determined that evaporator condensation is dripping down into the foam pack to the refrigeration coils and freezing. FEA analysis shows that the condensation eventually forms into ice balls between the coils and barrel that can deform the barrel cylinder. Visual bumps have caused undesirable noises and concerns when barrels are being cleaned.



Corrective Action:

1. All Viper units manufactured after the 16th week of 2013, (on or after 62c1316vp016) have a rubber washer, RTV plugged inlets, and outlets to prevent condensation build up between the bumper barrels and coils. For customers who have a Viper manufactured before the serial number mentioned, experiencing the symptoms mentioned above, we now have a barrel bump removal tool available.

QUALIFIED SERVICE PERSONNEL ONLY

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit. **ALL WIRING AND PLUMBING MUST CONFORM TO NATIONAL AND LOCAL CODES. FAILURE TO COMPLY COULD RESULT IN SERIOUS INJURY.**

WARNING

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all of the power is off to the unit before any work is performed. **FAILURE TO DISCONNECT ALL POWER TO THE UNIT COULD RESULT IN DAMAGE TO THE EQUIPMENT, INJURY OR DEATH.**

CO2 (CARBON DIOXIDE) WARNING **D A N G E R**

CO2 displaces oxygen. Strict attention **MUST** be observed in the prevention of CO2 gas leaks in the entire CO2 and soft drink system. If a CO2 gas leak is suspected, particularly in a small area, **IMMEDIATELY** ventilate the contaminated area before attempting to repair the leak. Personnel exposed to high concentrations of CO2 gas experience tremors which are followed rapidly by loss of consciousness and **DEATH**.

Bump Removal Instructions

Please note that there is no evidence that the repair procedure, which uses an aluminum tool inserted into the barrel to compress and straighten the bump causes, causes any damage to the barrel. No cracking, no transfer of aluminum from the tool, no notable wear on the barrel from the tool, no thinning of the barrel walls, no significant cold working of the stainless steel and no loss of ductility observed. There is no indication that the repair procedure will result in reduced life of the barrel and freezer.



Turn the unit off and unplug the Power source.

STEP 1

- Place in PURGE and open the Valves to drain product and release possible pressure inside the barrels.



- Using a 3/4" socket or wrench, remove faceplates by removing the (4) nuts.

Make sure there is no pressure before remove faceplate!



STEP 2

Next, carefully remove beater bars and scraper blades.

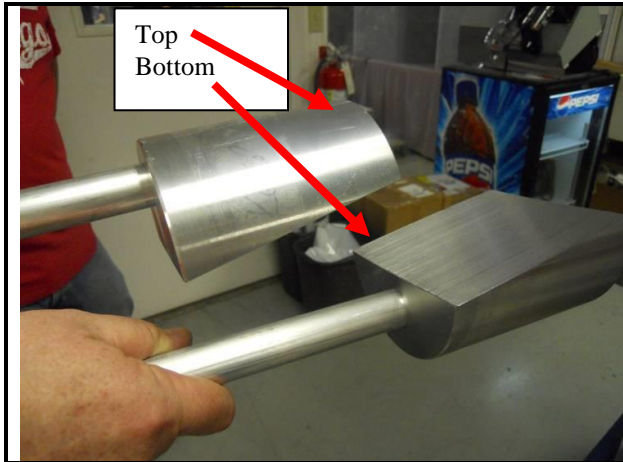


STEP 3

- Remove remaining product from the barrel(s).



- With a clean towel, dry the inside of the barrels completely. Use a flashlight to inspect the barrel and make sure there is no product or moisture remaining. Check the barrel for bumps to prepare for repair.



STEP 4

- Orient the bump removal tool for repair. The half that has the ramp facing up is always the starting point (bottom of the bumper tool).



- The *bottom* of the tool with the ramp going up should always go into the barrel first.

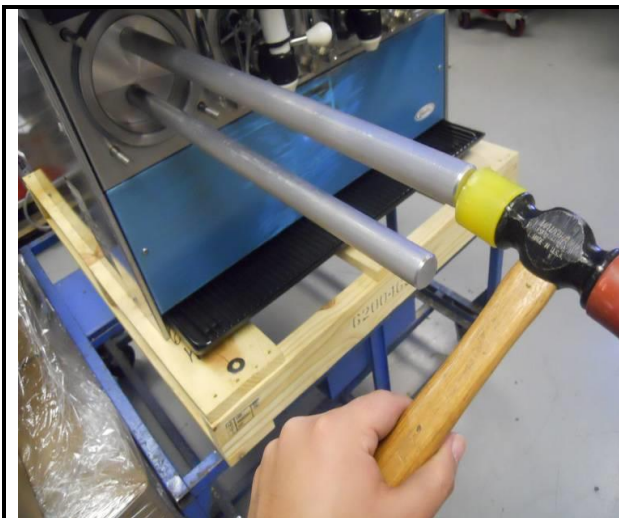


STEP 5

- Then slide the Top side of the tool over the bottom tool inside of the barrel as shown.



- Once you have the complete tool inside the barrel, it should look like the image.

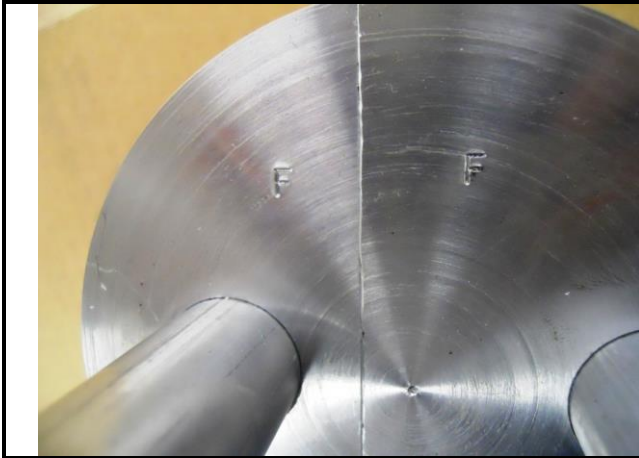


STEP 6

- To remove the bump, always start by tapping the top side of the fixture with a rubber mallet until it stops.



- Then tap the bottom of the tool alternating between the top and bottom tool. Continue until tool travels through the entire barrel. Check the barrel to see if the bump is removed. Repeat steps (4-6) until all the bumps have been removed.



NOTE: Bump Fixtures must be kept together as sets to work properly each set or pair has a letter on top to show its corresponding side.



STEP 7

- Make sure that there are no stains, damage, or discoloration in the barrel flange or faceplate mounting bolts.



STEP 8

- Spray sanitizer inside barrels, as shown. Wipe Dry.

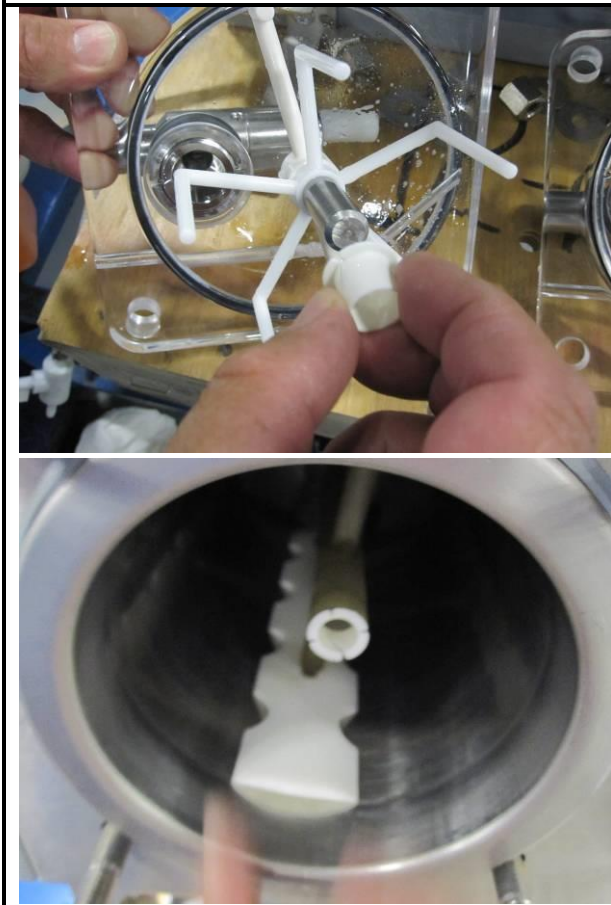
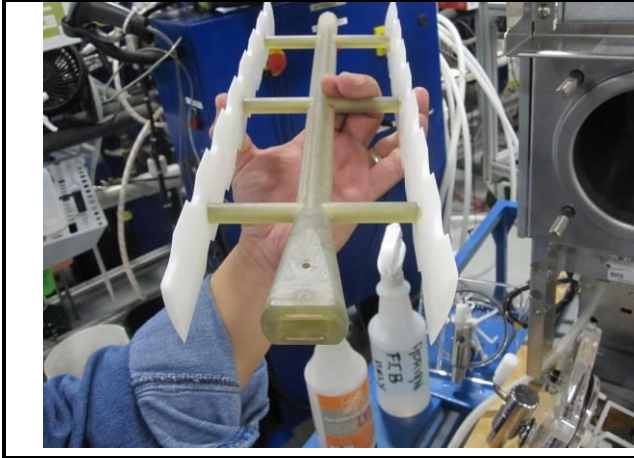


STEP 9

Spray sanitizer on Body Beaters and Blade Scrapers and dry them.

STEP 10

Install the Blade Scrapers in correct position on the Body Beater.



STEP 11

Remove Bushing from Shaft and attach it to Body Scraper as shown. Insert so blades are at 6 o'clock and 12 o'clock position.



STEP 12

Install Face Plates. Verify Spinner does not block Blades. Insert spinner at 3 o'clock and 9 o'clock to prevent interference.



STEP 13

Using permagun, seal the inlet and outlet of the evaporator.

Barrel must sit in OFF mode for 24 hours to allow internal moisture to dry out. Communicate this to customer before arrival to avoid multiple calls.



Using RTV, place enough over permugum to create a seal on the inlet and outlet of the evaporator.