



PP30 Filtration Clean & Check

NOTICE: See Site Specific Safety section

For a list of all parts of the Power Pallet including a list of parts, definitions and all other useful information see the *PP30 Component Reference* document

All tasks should be performed after every 140 run hours

Check/Replace: Filter bags



Image 1

1. **CAUTION** Before opening up the filter make sure that you are in a well ventilated area and are wearing proper PPE
2. Disconnect all gas lines, air servo wire, and pressure tubes connected to the filter (Image set 2)



Image set 2

3. Remove bag slapper handle (Image 3)



Image 3

4. Remove the filter lid and filter vessel (Image 4)



Image 4

5. Remove the bag slapper (Image 5)



Image 5

6. Undo wing nuts and remove old bags and rings (Image set 6)



Image set 6

7. Put bags into waste disposal according to site procedures
8. Take new bags and coat inside with CCC particulate
9. Put bags back on with rings and wing nuts
10. Install bag slapper filter vessel and filter lid and all gas and air lines

Replace: Polishing Filter

1. Remove Vband clamp and pull out old polishing filter
2. Check if the metal mesh flame arrestor is dirty, clean if necessary with alcohol
3. Install with new filter

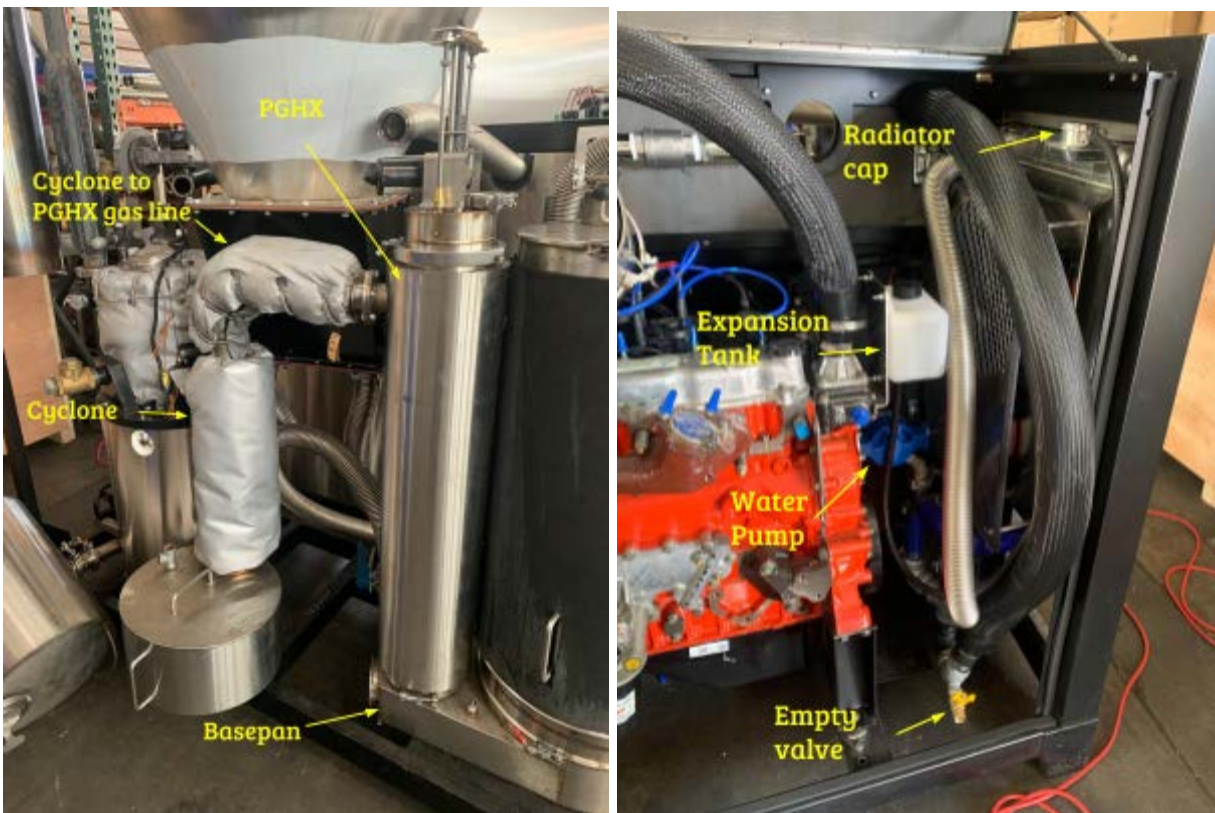


Check basepan for condensate or particulate build up

1. Remove the 4" sani clamp and cap at the base of the basepan
 - a. Make sure to keep a pan below to catch any condensation that might have built up in the basepan
2. Use a flashlight to check for soot or char build up inside the basepan
3. If there is material in the base pan- scrape it out and dispose of it as waste according to site specifications.



Cleaning systems, reactor to filtration



Set up tasks

1. Empty Coolant system by opening Empty Valve
2. Remove all 1.5" sani clamps from coolant system to PGHX
3. Remove 6" sani clamp from base
4. Remove bolts at Cyclone to PGHX corrugated tube
5. Disconnect all electrical connections
6. Remove Cyclone Collection Can (CCC) and Cyclone to PG HX corrugated tube

Clean PGHX

7. Set up PGHX Cleaning Heater
 - a. Place base support on a flat surface
 - b. Sani clamp PGHX Cleaning Heater to base support with 6" gasket and sani clamp
 - c. Confirm outlet supports 120V and nameplate wattage of heater
8. Add a cup of 90% isopropyl alcohol
9. Place PGHX on top of PGHX Cleaning Heater
10. Tighten all sani connections
11. Bolt cap to gas in port on PGHX
 - a. Make sure there's a gasket



12. Turn PGHX Cleaning Heater to 150 setting on the dial
13. Let sit for 1 hour
 - a. **CAUTION: PGHX Metal will get hot and can burn you.**
14. After the 1 hour plug the PGHX motor and sensors in. Keep the wires away from any metal surface to avoid damaging the insulation
15. Press the PGHX button on the DSE (Insert image of PGHX button)
16. If the PGHX moves and gets stuck try to press the PGHX button a few time to get it to move up and down
 - a. The PGHX motor can overheat if this is done to much so if its sticking a lot try letting the PGHX cleaning heater run another 20 mins and try again
17. Once PGHX is actuating fully shut off the PGHX Cleaning Heater and let the PGHX cool down for 30 mins
18. Once cool, undo the sani clamp and move PGHX back to the basepan.
19. Secure all sani connections and fill up coolant system

Clean cyclone insides from base with scraping bar

1. Remove cyclone collection can
2. Place collection pan beneath cyclone
3. Insert scraping bar from below
4. Scrape deposits from interior surfaces
5. Dispose of waste in accordance with site specifications

Clean Cyclone to PG HX corrugated tube

1. Remove both sani clamps and remove tube
2. Keeping tube over collection pan, use scraping bar to remove deposits from the inner walls of the tube
3. Dispose of waste in accordance with site specifications