

GENERAL CLEANING PROCEDURE FOR PNEUMATIC MICROFLUIDIZER PROCESSORS

Part One -

1. Using distilled water or water for injection, flush the unit via the priming valve with the machine cycling at the lowest possible air or liquid pressure. (Use the appropriate cleaning solution if distilled water or water for injection is not feasible.)
2. Flush should continue until the distilled water or water for injection is free of product.
3. Close priming valve, increase pressure to 5kpsi and flush through the process piping, interaction chambers, and auxiliary process module. Flushing should continue until the distilled water or water for injection is free of product.
4. Using the appropriate cleaning solution, repeat steps 1-3.
5. With the Interaction chamber replacement tube and or replacement module installed, begin flushing the unit as outlined in steps 1-4. The tube, in place of the interaction chamber, will allow for greater flow through the process piping and heat exchanger.
6. The final flush should be done using 70% isopropyl alcohol repeating steps 1-3.
7. All external surfaces must be cleaned with the appropriate cleaning solution.

Note: The following items should be cleaned separately:

- Cooling coil
- Process pressure gauge
- Interaction chamber

See Part Two for instructions regarding the cleaning procedures of these items.

Part Two -

The cleaning procedure for the interaction chamber, cooling coil, and process pressure gauge is as follows:

1. If a process pressure gauge is supplied, remove it from the gauge block.
2. From the tools and spares kit, install a plug in place of the pressure gauge.
3. Remove cooling coil from cooling jacket for sonicating.
4. Sonicate process pressure gauge, cooling coil, and interaction chamber with the appropriate cleaning solution.
5. Reinstall cooling coil with jacket on to the unit.
6. With the replacement module installed begin flushing the unit as outlined on page one. The replacement module will allow greater volumes of liquid to pass through the process piping and cooling coil.
7. The interaction chamber and process pressure gauge should not be reinstalled on to the unit.

If a sonicating bath is not an option, the alternative is to flush the unit using the replacement module 14.8040.

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