



## ULTIMATE CHEMICALS HDF – HEAVY DUTY FLUSH PROCEDURES

### STEP 1

1. Record water pump pressure and all temps.
2. Shutdown/Remove Surge Tank Cap.
3. Drain coolant and dispose.
4. Remove Surge/Day Tank Caps.
5. Install 1" ball valve on each side of block underneath rail.
6. Fill with HDF (Ready to Use) until overflow from Surge/Day Tank.
7. Run Unit 168 hours to 336 hours.

### STEP 2

1. Shutdown/Remove Surge Tank Cap.
2. Power wash Surge Tank with STH - Surge Tank Hose (while still hot and full). Let particles overflow. (15-20 min)
3. Drain Flush via ball valve on each side of block underneath rail. (dispose)
4. Fill with HDF (Ready to Use) until overflow from Surge/Day Tank.
5. Run Unit 168 hours to 336 hours.

### STEP 3

1. Shutdown/Remove Surge Tank Cap.
2. Power wash Surge Tank with STH - Surge Tank Hose (while still hot and full). Let particles overflow. (15-20 min)
3. Drain Flush via ball valve on each side of block underneath rail. (dispose as you would old coolant)
4. (Rust Removal Flush – If needed)
  1. Fill with RRF - Rust Removal Flush and run 2 hours at temp. Drain Flush and dispose.
5. (Phosphate Removal Flush – If needed)
  1. Fill with PO4FIX - Phosphate Removal Flush and run 4 hours at temp. Drain Flush and dispose.
6. Fill with deionized water until overflow from Surge/Day Tank.
7. Run Unit until up to temperature and thermostats open.
8. Continue to pump in deionized water until overflow at the top from Surge/Day Tank and ball valves on other side. (2 x volume) overflow until clean.
9. Inspect water pump and replace thermostats.
10. Drain Unit / Fill with New Coolant\*

\*(Best Practice) Do not leave or run with water only.

\*(Fill with coolant mix and CRI – Corrosion Rust Inhibitor – recommended)