



## DUAL RINSE CLEANING CART

**Neptech Inc.** manufactures a high-quality Flexotherm™ Dual Rinse Cleaning Cart to help keep all equipment completely clean. Our dual rinse cleaning cart is the most efficient method available for flushing contaminants from emissions testing components.

### FEATURES

- Versa Mount Dual Head 4.6 CPM Air Driven Pump
- 1250 Watt Immersion Fire Rod Heaters
- Dual Display Digital Temperature Controllers
- 15 amp Circuit Breakers
- 316 Stainless Steel NPTF Drain Ball Valves with Locking Handles
- 1/2" (0.0127 m) Inner Diameter Stainless Steel Braided Teflon Hoses
- Developed and tested by leading OEM at world-class test-facilities

### TECHNICAL INFORMATION

<b>Pump Type</b>	Dual Head 4.6 GPM Air Driven Pump
<b>Power</b>	120 VAC
<b>Tank Size</b>	5-Gallon (18.927 liters) Stainless Steel Tanks
<b>Heater</b>	1250 Watt Immersion Heater
<b>Strainers</b>	Bronze Y-Strainers with #60 mesh

### SPECIFICATIONS

- Frame constructed of Heavy Duty Steel
- 5" (0.127 m) casters
- Heavy Duty Power Cord with Strain Relief
- Compressed Air
- Liquid Level Indicators
- Circulates heated Alconox (liquid or powder)

## DUAL RINSE CLEANING CART

### Operating Instructions:

The System is comprised of 2 identical subsystems—**CLEAN and RINSE**.

The same instructions apply to both. Any variations are noted below.

1. Close the System Tank Drain Valve(s)
2. Fill System Tank(s) with appropriate fluids (Mid level on Sight Glass is ideal)
3. Rinse Tank—Distilled Water to prevent any mineral deposits from forming.
4. Clean Tank—Distilled Water with appropriate amount of Liquinox. (1.25 oz. / gal) (9.36 g / L)
5. Determine system component(s) to be cleaned. Avoid flowing liquids through critical components. Consult your instrumentation department as required for approval prior to connecting the DRC2.
6. Connect the system components to be cleaned to the Cleaning Solution / Rinse **Supply & Return** fittings on the DRC2. Use inter-connect tubing as required.
7. Connect the Compressed Air Supply to the DRC2.
8. Turn on the “System” Toggle Valve to start the desired dual headed pump. (Clean / Rinse). The selected fluid will begin to circulate through the system to be cleaned and will return to the DRC2 Tank.
9. Add fluid as required to maintain level within the sight glass range. Do not apply power to the heating elements if fluid is not visible
10. Connect the AC Power Cord and turn on the appropriate Circuit Breaker, only after you have confirmed an adequate fluid level.
11. Confirm that the Temperature Controller set point is correct; do NOT exceed 140°F (60°C). (Unit will take approximately 30 minutes to heat up, time will vary depending on the amount of fluid in the total system and the starting temperature).
12. Determine Clean / Rinse / Purge Times based on size & condition of components being cleaned. (See estimates at end of document)
13. When the Cleaning Cycle has been completed, turn off the associated Toggle Valve & Heater Circuit Breaker.
14. Disconnect the DRC2 **Supply line** from the component being cleaned and route/insert it to the Tank fill port. This will allow you to turn the Toggle Valve back on and allow the pump to draw the remaining fluid from your system without pushing addition solution out to the component being cleaned. Run pump for a few minutes to drain as much fluid as possible back to the Tank.
15. Disconnect the Component(s) being cleaned from the **Cleaning Solution Return Port** and connect Component(s) being cleaned to the **Rinse side Supply & Return ports** of the DRC2.
16. Repeat the Process using the Heated Distilled Water Rinse side, typically for 2 Hrs.
17. When the Rinse Cycle has been completed, disconnect the DRC2 in the same manner as the “Cleaning” process, draining as much fluid as possible back to the Tank.
18. Connect Dry Nitrogen to your test system and purge for approximately 2 hours or until completely dry.
19. Reconnect all Test System component(s) as originally configured and resume testing
20. Estimated circulation & purge times (actual time will vary based on size and condition of system being cleaned).
21. Circulate Cleaning Fluid (Liquinox Solution) for approximately 4 hours
22. Circulate Rinse Fluid (Distilled Water) for approximately 2 Hours

### CAUTION:

**DO NOT USE flammable solvents.**

**AVOID use of EXTENSION CORDS.**

**This system will draw approx. 20 amps when both heaters are on.**

**If an extension cord is required, USE, at the least, a 10 GAUGE CORD to handle the current.**

### PREVENT WATER DAMAGE

**Isolate/disconnect critical instrumentation, transducers, pumps, valves, etc. to prevent water damage.**