

Dynamic Descaler®

Vacuum Pumps

Cleaning instructions: Follow these instructions to remove water scale, lime, mud and rust from the casting, rotor, hub, cones and associated piping of your equipment:

1. Write down the “before” amp readings, cfm at vacuum capacity and the vacuum in inches of mercury.
2. Take the unit out of service.
3. Remove the bottom drain plug and allow all water to drain from the pump casing. Replace bottom plug after the unit is drained.
4. Break seal on water piping and attach a pumping discharge hose.
5. Remove top plug and attach return hose between there and the recirculation bucket.
6. Insert “blanks” in flanges of discharge and suction piping.
7. Add prescribed quantity of *Dynamic Descaler* into the circulation loop.
8. In some instances, additional water may be required to maintain circulation.
9. Tighten vacuum pump and seal packing to minimize leakage.
10. After 15 minutes of *Dynamic Descaler* circulation, turn pump rotor 90 degrees by pulling on the drive belts or jacketing the starter switch.
11. Every 15 minutes thereafter, turn rotor 90 degrees to assure a thorough cleaning of interior part of the pump, including hub and rotor.
12. Continue the circulation of *Dynamic Descaler* for at least two hours or until the foaming stops. Lack of foam indicated depleted or clean equipment.
13. After several hours of circulation time, with intermittent turning of the rotor, the pump should be clean and rotor should turn freely.
14. Shut off the circulating pump and add flush water to the recirculation bucket.
15. Disconnect return hose and run to drain.
16. Restart circulation pump and flush until water runs clear.
17. Disconnect pump and all hoses. Remove all the “blanks” in the flanges and reconnect all piping.
18. Open seal water valve, start the vacuum pump and operate for 10-20 minutes to thoroughly flush the pump. During this time adjust the seal water rate to the manufacturer’s recommendations. Also readjust the packing compression to the correct setting.
19. Return the pump to service.
20. After the unit has stabilized, write down the “after” amp reading, cfm at vacuum capacity and vacuum in inches of mercury.
21. Compare the “before” and “after” readings to determine the effectiveness of *Dynamic Descaler* cleaning. Record all information for future reference to schedule next preventative maintenance cleaning.

Nash Vacuum Pumps	
HP	Gallons of <i>Dynamic Descaler</i>
8	5
10	7
15	8
25	8
30	13
45	18
60	23
80-120	27
125-155	50
160-225	60
230-325	85
350-450	110
500-700	170
700+	205

Nash Premier 2000 Pumps	
HP	Gallons of <i>Dynamic Descaler</i>
550	170
600	210
650	310
750	420
825	530
1175	975

