

AMERICAN DISH SERVICE

TECHNICAL SUPPORT MATERIAL

Routine and Preventative Maintenance

To Test Building Water Pressure

The following procedure tests building supply water to determine if there is adequate pressure to operate a Low-temp, batch-type dishmachine. (The pressure needed to operate a single tank Low-temp machine is approx 15 psi in the building supply line when filling) If there is no pressure gauge in the line, this procedure will demonstrate whether or not there is enough water flow to operate the dishmachine.



First: empty the water from the sump by lifting the drain ball. Place the drain ball back in the sump when the water is gone.



Second: While pushing the fill button, count the seconds it takes to refill the machine.



Third: The water level decal indicates the approx fill level. Release the fill button when this level is reached. Record the seconds it took to reach the fill level.

Fourth: If the machine has not filled during 20-seconds of time there is not enough flow to operate the equipment properly. No further machine adjustment will compensate for the low flow pressure to the machine. There are only 30-seconds total on the cam timer for the fill and recovery. By NSF standard, 10-seconds are needed for spraying of the rinse water, which means the water must return to the machine before 20-seconds.

Steps that can be taken to increase water flow to the machine are:

1 Run ¾" piping from the water heater tank to the dishmachine, with no "T" lines interrupting the dishmachine supply. **Warning: Tankless water heaters reduce line flow and pressure.**

2 Install a bladder tank to build pressure for water demand. Typically the tank would be sized two times the amount of water demanded. These are available with well-water supplies.

3 Install a slower cam timer with more seconds for fill. This is a limited option and only offers 5 to 10-seconds more time in the rinse, most of the seconds on a longer cam timer are in the wash cycle.

4 ADS offers a fill delay relay PN 088-1090 that stops the cam timer for a pre-determined length of time that can be set up to 21-seconds, then starts the cam timer after the fill delay.

(Note, this option reduces the output the machine significantly.)

All this being said, if the building takes longer than 50-seconds, using this test, to fill the machine none of the above steps will help. A plumbing contractor will need to be consulted.