

TECHNICAL SUPPORT MATERIAL

Routine and Preventative Maintenance

To De-lime and Dump & Fill Dishwasher

ADS recommends installing a water softener rather than repeated de-liming procedures, which erodes the metal of the machine over time.

DE-LIME SWITCH—The de-lime switch is placed inside of the control box to avoid unauthorized operations. Because of potential hazards resulting from the combination of chlorine with acid solution, only authorized trained individuals should be allowed to de-lime a commercial dishmachine.

INSTRUCTIONS FOR USING THE DE-LIME FEATURE are first empty all water out of the machine by removing the drain ball from the seated position. After all water has emptied out, replace the drain ball and fill the machine with fresh water. Turn on the de-lime switch to operate the pump motor. Repeat this first step again by removing the drain ball, then refill and turn on the de-lime switch. This will flush the machine, refill again and this time add the de-lime acid. READ THE DIRECTIONS ON THE CONTAINER FOR CORRECT CONCENTRATION OF THE CHEMICAL. TYPICAL CONCENTRATION LEVELS 1:20 to 1:60.

Turn the de-lime switch on again and let it run long enough to return the inside of the machine to the appearance of shiny metal surfaces. It is best to de-lime more often with milder acid solutions than waiting until there is heavy build up of white minerals, then trying to remove the build up with very strong acid concentrations. Using too strong of an acid solution (such as Hydrochloric or Muriatic) or running it for very long periods of time will erode the metal of the impeller because it is spinning in the acid solution. It can also damage the welds and surface metals.



De-lime switch in control box



Warning decal about mixing chemicals



Impeller damaged from high acid solution

For Conveyor machines or High Temp, drain water out, turn off the dispenser, add fresh water to the tank. Add in solution of de-lime agent (typically 1:20 to 1:60 ratio) then place a rack in the machine upside down to activate pumps. It is best to de-lime more often with milder acid solutions.

For ET-AF Undercounters, for machines with no factory installed de-lime switch, there is a white plug-style Molex connector on the cam timer going to the timer motor, disconnecting this connector will allow a technician to run the machine without starting the normal cycle. IMPORTANT: In addition, they must physically rotate the timer to a place during the wash when no chemical is injected into the tank.

At this point they must empty the chlorinated water in the tank, flush the tank with fresh water and refill with fresh, chemical free, water before starting this process. Add in solution of de-lime agent (typically 1:20 to 1:60

ratio) then turn on the master switch and let the machine run for 2-5 minutes. Afterwards, the de-lime agent must be dumped and flushed before returning to service. The cautions and recommendations above apply to the Undercounter machines as well. NOTE: Undercounters used as glass washers are often located in areas adjacent to public settings, making the hazardous gas caution all the more important for safety.