

WAREWASH



PRESENTED BY



WAREWASH



- Warewash definition: cleaning and sanitizing dishes, utensils, bowls, and other kitchen items that come in contact with food products



MANUAL DISH WASHERS



DISH WASHER



BAR GLASS WASHER



COMMERCIAL DISH WASHER

HIGH TEMP WASHERS



- Single Tank HIGH TEMP Dishwashers
 - Usually has ~22" x 22" rack
 - Cleaning cycle: 45s wash, 3s delay, 15s rinse
 - Wash: 80-100L hot water ~140-160°F (60-70°C)
 - Rinse: ~7L of 180+°F (82+°C) from **hot water booster** applied at ~20psi pressure for 15-20s gives **HIGH TEMP SANITIZING**
 - Rinse water drops into wash tank to be re-used, causing overflow + removal of fatty residue
 - Detergent dispensing into wash tank is monitored by a **conductivity probe**
 - Rinse agent dispensing is a preset volume

HIGH TEMP WASHERS



- Conveyor HIGH TEMP Dishwashers

- Wash several racks continuously on a conveyor in separate compartments
- No finite cycle: wash pump and conveyor run continuously when it is ON
- Wash up to 200 racks per hour, using ~400 US Gal water/hour
- Wash: hot water ~140-160°F (60-70°C)
- Rinse: 180+°F / 82+°C from **hot water booster** applied at ~20psi pressure for 15-20s gives **HIGH TEMP SANITIZING**
- Rinse water drops into wash tank to be re-used, causing overflow + removal of fatty residue – 50% of rinse water is captured by wash tank + reused
- Detergent dispensing into wash tank is monitored by a **conductivity probe**
- Rinse agent dispensing is a preset volume

LOW TEMP WASHERS



- Single Tank LOW TEMP Dishwashers
 - Usually has ~22" x 22" rack
 - Cleaning cycle: 45s wash, drain opens, flush with fresh water, drain closes
 - Wash: 80-100L hot water ~140°F (60°C)
 - Rinse: ~7L of 140°F (60°C) hot water + rinse aid + **CHLORINE SANITIZER**
 - Rinse water drops into wash tank and is used as wash water for the next cycle
 - Detergent dispensing into wash tank is a **preset volume**
 - Rinse agent dispensing is a preset volume

COMPARISON



HIGH TEMP DISHWASHERS

- Reuse wash water
- Reuse rinse water
- Heater on wash tank
- Hot water booster for sanitizing rinse
- Increased \$\$\$ on energy bill
- Produce steam + require canopy



LOW TEMP DISHWASHERS

- Drain wash water
- Reuse rinse water
- Use fresh hot water every wash
- Chemical sanitizer in rinse
- Increased \$\$\$ on chemicals
- No steam, no canopy required



MANUAL DISH



- PINK LIQUID DISHWASH (J431)
 - Pink liquid detergent with a lavender scent
 - High-foaming, excellent for greasy dishware

- LEMON LIQUID DISHWASH (J432)
 - Yellow liquid detergent with a lemon scent
 - High-foaming, gentle on hands



SUDS



FOR MANUAL DISH WASHING
→ EXCELLENT



IN A DISHWASHER
→ TERRIFYING



PRESOAK



- **PINK CHLORINATED SANITIZER (J414)**
 - Phosphate-based, alkaline, chlorinated presoak
 - Powder blend



- **SILVER PRESOAK N.C. (J415)**
 - Chlorine-free, phosphate-free, alkaline presoak
 - Powder blend
 - **SAFE TO USE** with silver utensils



PRESOAK



- **D-STAIN (J477)**
 - Phosphate-free, alkaline, oxygen bleach presoak
 - Powder blend
 - Excellent for stain removal from plastic dishware
- **LIQUID WAREWASH PRESOAK CL (J413)**
 - Phosphate-free, alkaline, chlorinated presoak
- **LIQUID WAREWASH ENZYME PRESOAK (J565)**
 - Phosphate-free, non-corrosive, mild alkaline presoak
 - Protease enzymes for difficult proteinaceous stains



POWDER DETERGENTS



- OSTRO-BRITE (J412)
 - Phosphate-free, very alkaline, highly chlorinated detergent

- DL-50 MACHINE DISHWASH (J410)
 - Phosphate-free, alkaline, moderately chlorinated detergent

LIQUID DETERGENTS



DO NOT WASH ALUMINUM COOKWARE WITH CAUSTIC WAREWASH DETERGENTS!

LIQUID DETERGENTS



- E-20 LIQUID MACHINE DISH (J430)
 - Phosphate-free, caustic, non-chlorinated detergent
 - Excellent for hard water conditions
 - Go-to detergent for greasy dishware
 - Ostrem's top-selling warewash detergent

- E-9 LIQUID MACHINE DISH (G542)
 - Phosphate-free, very caustic, non-chlorinated detergent
 - Excellent for extra greasy dishware
 - Poor in hard water conditions; use with soft water only

LIQUID DETERGENTS



- E-5 LIQUID MACHINE DISH (J429)
 - Phosphate-free, very caustic, chlorinated detergent
 - Excellent for greasy dishware and stain removal (ie. Coffee)
 - Poor in hard water conditions; use with soft water only

- E-8 BAR GLASS CLEANER (J440)
 - Phosphate-free, very caustic, non-chlorinated detergent
 - Bar glass washers



BAR GLASS WASHERS



- Heated wash tank
- Wash water is collected and reused
- Cold rinse water
- Require **CHEMICAL SANITIZER** in rinse

- 3 TYPES:

- CONVEYOR
- ROTATING PLATFORM
- UNDER COUNTER



SANITIZERS



- K-10 L F OSTRO DINE (J478)
 - Stand alone rinse aid and Iodine-based sanitizer – 12 ppm
- OSTRO SAN (J465)
 - Quat-based sanitizer – 200 ppm
- LIQ CHLORINE 6% SANITIZER (J437 6%)
 - Chlorine-based sanitizer – 200 ppm



BAR GLASS WASHER

RINSE AIDS



- ALL TEMP RINSE (J441)
 - Promotes quick drying without spotting
 - Used in the final rinse cycle
- ALL TEMP ECONO RINSE (J439)
 - Economical version of J441
- K-10 LF OSTRO DINE (J478 K-10LF)
 - Stand alone rinse aid and iodine-based sanitizer – 12 ppm

NO RINSE AID



WITH RINSE AID

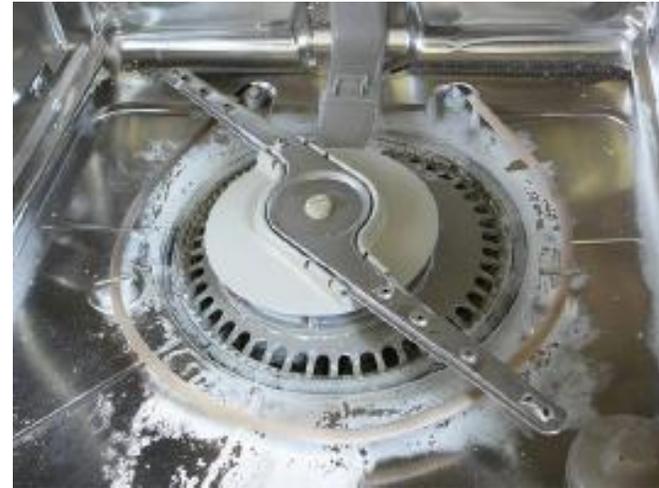


DESCALERS



- M-37 DESCALER (J435)
 - Lactic acid-based descaler

CaCO₃ scale



- DESCALER (J434)
 - Hydrochloric (muriatic) acid-based descaler
 - Stronger than M-37

KITCHEN CLEANERS



- LEMON TREE (J464)
 - Quat-based cleaner-disinfectant-bactericide-fungicide
 - General purpose cleaner for food contact surfaces
 - D.I.N. registered product
- NBC-500 (J445)
 - High foaming, alkaline degreaser for grease removal
- ENZYME CLEANER AND DEODORIZER (J484)
 - Bacterial + Enzyme-based cleaner for mopping floors and deodorizing trash cans
 - Mop on floor and leave it wet overnight; enzymes continue to work
 - Enzymes break down fat, protein and carbohydrate

CAUSTIC CLEANERS



- **POWER FLUSH (G680)**
 - Alkaline and solvent-based all purpose degreaser
 - Ideal for routine degreasing of ovens, fryers and grills
- **K-20 OVEN CLEANER (J462) or HD GRILL CLEANER (J463)**
 - High foaming, caustic degreaser for grease and carbon removal
 - For Heavy Duty degreasing of ovens, fryers and grills
- **GREASE-STRIP GEL (G518)**
 - Similar to K-20, except viscous for increased dwell time



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