



Champion[®]

The Dishwashing Machine Specialists

SPECIFICATIONS MODEL BDW-1-HD

BARREL AND DRUM WASHER - HEAVY DUTY

DESIGN AND OPERATION

Batch type operation designed to wash containers with a maximum size of 24" dia. x 36" high. After the cabinet is loaded and the door is closed, the short, medium or long wash cycle is selected then which initiates a 150° F. recirculating detergent wash followed by a 180° F. freshwater sanitizing rinse. The sanitizing rinse water flows into the recirculated wash tank for reuse and freshening causing excess water to overflow to drain. A buzzer and unload light indicate cycle completion. The door is then reopened for unloading and reloading for the next cycle. Booster heaters maintain proper operating temperatures.

CABINET

35 1/4" wide x 33" deep x 70" high (97 1/2" overall clearance, 100 3/4" with gas heated rinse tank). Door Opening: 26 1/2" wide x 40" high. Wash Chamber: 24" wide x 24" deep x 36" high. Constructed of #16 gauge, #304 STAINLESS STEEL with a #3 finish. All seams are tig welded. Seams, where needed for watertight construction, are continuously welded. All other seams are stitch welded for strength. All welds are cleaned inside, cleaned and buffed outside. Optional continuous welds in lieu of stitch welds available.

DOOR

Front-loading, hinged door design for easy loading and unloading. Door is double skinned for added strength and interlocked with safety switch to prevent machine operation while door is open. Constructed of #16 and #18 gauge, #304 STAINLESS STEEL with a #3 finish.

RECIRCULATING WASH TANK

Constructed of #14 gauge, #304 STAINLESS STEEL, heated by a 6 KW electric immersion heater (infrared gas, live steam or steam coil options are available). Complete with low water protection, automatic fill, 1 1/4" NPT overflow connection, 1 1/4" gate drain valve, thermometer, pressure gauge and is thermostatically controlled. 30 gallon tank capacity (24 if gas heated), sloped to drain.

WASH PUMP

Closed coupled centrifugal wash pump, bronze fitted with cast iron casing. Complete with 7 1/2 H.P. ODP motor (optional TEFC or wash down duty motors available). 208/240/480 or optional 575 volt, 1 or 3 phase, 60 cycle. Rated for 120 gallons per minute at 35 to 45 PSI. Optional STAINLESS STEEL wet end available.

ROTATING WASH HUB ASSEMBLY	Water driven, STAINLESS STEEL spray arm assemblies with STAINLESS STEEL jets, removable end caps and hand operated quick release mechanism for easy cleaning and reassembly. Optional protruding spray nozzle and loading rack available for bung hole barrel applications.
FILTRATION	Five (5) perforated STAINLESS STEEL baskets mounted above water line for easy removal and cleaning without emptying the tank.
SANITIZING RINSE TANK	Constructed of #14 gauge, #304 STAINLESS STEEL, heated by 12 KW electric immersion heaters (infrared gas or steam coil options are available). Complete with thermometer, pressure gauge and is thermostatically controlled. Uses 5.6 gallons per 30 second cycle and has a 10 gallon capacity.
RINSE PIPING	#304 STAINLESS STEEL tubing with brass compression fittings and full cone rinse jets. Optional STAINLESS STEEL fitting and jets are available.
EXTERNAL RINSE HOSE	Externally mounted rinse hose with spray gun for easy cleaning and maintenance of machine.
STEAM EXHAUST VENT	Steam exhaust vent 6 3/4" I.D. consisting of #16 gauge rolled collar, for 6" PVC pipe connection, welded to the top of the machine. Machine pre-wired with control timer for the addition of a fan.
OPTIONAL EXHAUST FAN	Draft inducer fan side mounted on exhaust duct to extract excess steam after sanitizing rinse cycle. 1/40 H.P. ODP motor, 110 volt, 1 phase, 1550 RPM, rated for 250 CFM at .05" static pressure. Optional fan with STAINLESS STEEL housing and blade with 1/2 H.P. 3 phase motor is available.
CONNECTIONS	Water Inlet: 3/4" NPT, 120° F. Drain: 1 1/4" NPT Overflow: 1 1/4" NPT Steam Option: 1/2" NPT or (2) 1/2" NPT with optional steam heated rinse tank Steam Condensate: 1/2" NPT or (2) 1/2" NPT with optional steam heated rinse tank Gas Option: 1/2" NPT or (2) 1/2" NPT with optional gas heated rinse tank Electrical: Single-point connection.
UTILITIES	See attached Utility Chart for service requirements specific to various combinations of wash and rinse heating. Calculations are based on a room temperature of 72° F.
ELECTRIC HEATED WASH TANK, ELECTRIC HEATED RINSE TANK	240 Volt - 1 Phase, 106 Running Amps, 150 Amp Minimum Service Breaker 208 Volt - 3 Phase, 72 Running Amps, 90 Amp Minimum Service Breaker 240 Volt - 3 Phase, 63 Running Amps, 80 Amp Minimum Service Breaker 480 Volt - 3 Phase, 32 Running Amps, 40 Amp Minimum Service Breaker 575 Volt - 3 Phase, 28 Running Amps, 35 Amp Minimum Service Breaker

INFRARED GAS HEATED WASH TANK, ELECTRIC HEATED RINSE TANK

240 Volt - 1 Phase, 81 Running Amps, 110 Amp Minimum Service Breaker
208 Volt - 3 Phase, 54 Running Amps, 70 Amp Minimum Service Breaker
240 Volt - 3 Phase, 48 Running Amps, 60 Amp Minimum Service Breaker
480 Volt - 3 Phase, 25 Running Amps, 35 Amp Minimum Service Breaker
575 Volt - 3 Phase, 22 Running Amps, 30 Amp Minimum Service Breaker
Gas Consumption: 35,000 BTUs per hour. Supply pressure: minimum 7" w.c. for natural, 11" w.c. for propane and 14" w.c. maximum.

INFRARED GAS HEATED WASH TANK, INFRARED GAS HEATED RINSE TANK

240 Volt - 1 Phase, 31 Running Amps, 40 Amp Minimum Service Breaker
208 Volt - 3 Phase, 21 Running Amps, 30 Amp Minimum Service Breaker
240 Volt - 3 Phase, 19 Running Amps, 25 Amp Minimum Service Breaker
480 Volt - 3 Phase, 11 Running Amps, 15 Amp Minimum Service Breaker
575 Volt - 3 Phase, 9 Running Amps, 15 Amp Minimum Service Breaker
Gas Consumption: 80,000 BTUs per hour. Supply pressure: minimum 7" w.c. for natural, 11" w.c. for propane and 14" w.c. maximum.

STEAM HEATED WASH TANK, ELECTRIC HEATED RINSE TANK

240 Volt - 1 Phase, 81 Running Amps, 110 Amp Minimum Service Breaker
208 Volt - 3 Phase, 54 Running Amps, 70 Amp Minimum Service Breaker
240 Volt - 3 Phase, 48 Running Amps, 60 Amp Minimum Service Breaker
480 Volt - 3 Phase, 25 Running Amps, 35 Amp Minimum Service Breaker
575 Volt - 3 Phase, 22 Running Amps, 30 Amp Minimum Service Breaker
Steam Consumption: 34 lb. per hour at 15 PSI minimum

STEAM HEATED WASH TANK, STEAM HEATED RINSE TANK

240 Volt - 1 Phase, 31 Running Amps, 40 Amp Minimum Service Breaker
208 Volt - 3 Phase, 21 Running Amps, 30 Amp Minimum Service Breaker
240 Volt - 3 Phase, 19 Running Amps, 25 Amp Minimum Service Breaker
480 Volt - 3 Phase, 11 Running Amps, 15 Amp Minimum Service Breaker
575 Volt - 3 Phase, 9 Running Amps, 15 Amp Minimum Service Breaker
Steam Consumption: 80 lbs. per hour at 15 PSI minimum

EFFECTIVE DATE

June 11, 2021