

## SPECIFICATIONS

### “DOUGLAS” MODEL VBW-1000-E ECONOMY VAT/BUGGY WASHER WASH AND SANITIZING SYSTEM

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**DESIGN AND  
OPERATION**

Designed for batch type operation where one (1) vat is loaded into support brackets mounted on the door. The gear motor actuated door is raised and inverted 180° within the cabinet by the open/closed switch. The cycle start button is then pushed which initiates a 160° F. recirculating detergent wash and then a final sanitizing rinse at 180° F. The final sanitizing rinse water flows back into the the wash tank to freshen it. The excess water then overflows to drain. The door is then reopened by holding the open/close door switch. Booster heaters maintain proper operating temperatures.

**OPTIONAL  
SAFETY CAGE**

The safety cage prevents machine door operation when the cage doors are not in the closed position. Also with this feature, after the bin has been loaded and the cage doors have been closed, the start button is pushed which activates the complete cycle. This includes the machine door closing, wash, sanitizing rinse and the door returning to the open position for unloading. A separate open/close machine door switch is also provided for manual override, operational only when the cage doors are in the closed position.

**GENERAL  
CONSTRUCTION**

The cabinet is constructed of #12 gauge, type #304 STAINLESS STEEL with a #3 finish. Door is doubled skinned and constructed of #12 and #14 gauge, type #304 STAINLESS STEEL with internal bracing for maximum strength. The machine is protected from operating unless the door is in the closed position. Base frame constructed of 2” x 2” x 3/16” structural STAINLESS STEEL angle. All seams tig or mig welded and continuous. All welds are cleaned inside, cleaned and buffed outside.

**RECIRCULATING  
WASH TANK**

Recirculating wash tank heated by electric or steam coil, thermostatically controlled, low water protected, complete with 3/4” NPT automatic fill system, 1 1/2” NPT overflow connection, 2” STAINLESS STEEL gate drain valve, thermometer and liquid filled pressure gauge. Wash tank capacity 120 gallons, sloped to drain.

**WASH PUMP**

Close coupled centrifugal wash pump with STAINLESS STEEL casing and impeller. Complete with 15 H.P. wash down duty motor, 208/230/460 or optional 575 volt, 3 phase, 60 cycle. Rated for 170 gallons per minute at 70 PSI.

**FINAL  
SANITIZING RINSE**

Fresh sanitizing rinse delivers 6 gallons per 30 second cycle at 20 PSI flow. 180° F. sanitizing rinse water supplied to unit by customer or optional 20 gallon rinse tank heated by electric or steam coil. If booster heater is required, the water supply temperature is 120° F. minimum.

**SPRAY  
PIPING SYSTEM**

One (1) rotating hub with extended arms to wash the inside and outside of the vat driven by a 1/60 H.P. TENV gearmotor. Wash and final rinse constructed of STAINLESS STEEL piping, fittings, high velocity “V” wash and full cone rinse jets.

**FILTRATION**

A filter basket located in an exterior tank on the left side of the machine, easily cleaned without having to empty the wash tank.

<b>STEAM EXHAUST VENT</b>	Steam exhaust vent 6 3/4" inside diameter, consisting of #14 gauge, rolled STAINLESS STEEL collar, bolted to the top of machine. Machine pre-wired with control timer for the addition of an exhaust fan.
<b>OPTIONAL EXHAUST FAN</b>	STAINLESS STEEL exhaust fan mounted on washer to extract steam after rinse cycle. 1/2 H.P. wash down duty motor, 208/230/460 or optional 575 volt, 3 phase, 60 cycle, 1725 RPM, rated for 260 CFM @ .83" static pressure.
<b>ELECTRICAL PANEL AND CONTROLS</b>	Electrical control panel is UL listed, NEMA 4X STAINLESS STEEL with Square "D" components. Optional panel disconnect switch also available. Complete with motor starters, 120 volt control circuit, remote control button panel with lighted "POWER ON" switch, "START" and "STOP" buttons, "RUN" indicator light, "OPEN/CLOSE" door switch, and short, medium and long "WASH CYCLE SELECTOR" switch. Complete recirculating wash, final sanitizing rinse and dwell/fan cycles initiated by pushing the "START" button. Wash and final rinse cycle times are adjustable.
<b>OTHER FEATURES</b>	Adjustable STAINLESS STEEL legs for leveling machine.
<b>CONTAINER SPECIFICATIONS</b>	Designed for 400 and 600 pound STAINLESS STEEL V-Edge dump buggies measuring 26" wide x 27 1/2" deep x 28 1/2" or 37 1/2" high. Other design variations available for different container sizes.
<b>DIMENSIONS</b>	Washer Cabinet Dimensions: 54" wide x 54" deep x 78" high Overall Dimensions: 84" wide x 68 1/4" deep (96 1/2" with door open) x 89 1/2" high
<b>CONNECTIONS</b>	Electrical: Single-point connection Wash Tank Water Inlet: (1) 3/4" NPT, 120° F. Final Rinse Water Inlet: (1) 1" NPT, 180° F. Water Inlet w/Optional Booster Heater: (1) 1" NPT, 120° F. Drain: (1) 2" NPT Overflow: (1) 1 1/2" NPT Steam Option: (1) 3/4" NPT @ 60 PSI max.
<b>SERVICES</b>	Electric Heated: 208 Volt, 3 Phase, 99 Running Amps, 125 Amp Service Breaker 240 Volt, 3 Phase, 91 Running Amps, 125 Amp Service Breaker 480 Volt, 3 Phase, 47 Running Amps, 60 Amp Service Breaker 575 Volt, 3 Phase, 38 Running Amps, 50 Amp Service Breaker  Steam Heated: 208 Volt, 3 Phase, 49 Running Amps, 70 Amp Service Breaker 240 Volt, 3 Phase, 46 Running Amps, 60 Amp Service Breaker 480 Volt, 3 Phase, 24 Running Amps, 30 Amp Service Breaker 575 Volt, 3 Phase, 20 Running Amps, 25 Amp Service Breaker  Steam Consumption: 75 lbs. per hour for recirculating wash tank 80 lbs. per hour for optional final rinse booster heater  Please add the following amps to those above for an optional electric heated rinse tank (66.6 at 208 volt, 60 at 240 volt, 30 at 480 volt, or 24 at 575 volt) and/or exhaust fan (2.1 at 208 volt, 1.8 at 240 volt, .6 at 480 volt, or .33 at 575 volt) and recalculate service breaker size, which should be at least 125% of total running amps.