



# THE BULLDOG 2.0

## The BULLDOG 2.0 Keg Washing and Filling Machine



Now with EZ Touch  
Screen Controls.

The **BULLDOG 2.0 Keg Washing and Racking Machine** produces 30 to 40 single opening, half-barrel kegs per hour, and can be programmed through a selector switch to accommodate all sizes of kegs.

The **BULLDOG 2.0** is of stainless steel construction. Although keg handling is manual, all processes are PLC monitored and controlled. The **BULLDOG 2.0** can be configured to suit any desired process regimen, and a range of optional equipment is available to suite various applications.

The **BULLDOG 2.0** is available in three different assemblies:

**MODEL A** Uses steam to sterilize the kegs and includes a heated detergent tank with pump, keg temperature monitoring.

**MODEL B** Uses a chemical sterilant, and includes a heated detergent tank with pump, sterilant tank with pump.

**MODEL C** Washes and Sterilizes Only

The operator begins the cleaning procedure by coupling two keg tappers and placing the keg, valve down, on the machine table. The operator then presses the **start** button. While processing continues as per the desired program, the **washer cycle complete** lamp will turn off, indicating that the correct procedure is being carried out.



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All liquid flows are monitored by individual conductivity probes. Washes are pulsed for optimum cleaning.

The following is a typical cleaning and sterilizing procedure:

- De-pressurization
- Air purge until empty
- Cold water wash
- Detergent wash
- Cold water rinse
- Sterilization

After complete sterilization, the keg is CO<sub>2</sub> purged and pressurized, and is ready for filling.

All processes are monitored and controlled by a programmable logic controller (PLC) which will automatically reject a keg if the cleaning and sterilizing process is not carried out correctly. If an individual keg is rejected, the two blocking valves to the keg are shut and the other keg will continue the process.

Once the washing is completed the **washer cycle complete** lamp will illuminate. If a keg has been rejected automatically or via the manual reject button, the relevant **process complete** lamp will not light up.

The racking procedure is initiated when the operator places the washed and sterilized keg, valve up, on the floor and couples up the keg racking tapper. The operator then presses the **start racking** button and **racker cycle complete** lamp goes out. Both beer valves open and filling begins. The CO<sub>2</sub> in the keg is bled off against a CO<sub>2</sub> back pressure valve to ensure a quiet fill.

Once the filling is complete, both beer valves are closed and the start **racker cycle complete** lamp illuminates. The racking process is complete, and the finished keg can now be uncoupled. Racking can be stopped at any time by pressing the **racking** button.

Please call us if you require additional information on the **BULLDOG 2.0 Keg Washing and Filling Machine** or any of our other products.

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## BULLDOG 2.0 Services

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### MODEL A

SUPPLY	PRESSURE	FLOW RATE	CONSUMPTION
Beer	35 - 45 PSI	30 GPM	20 GPM
CO <sub>2</sub>	25 - 35 PSI	60 CFM	6.2 CFM
Water	40 - 50 PSI	31 GPM	4 GPM
Machine Air	60 - 80 PSI	3 CFM	2 CFM
Purge Air	25 - 40 PSI	45 CFM	8.3 CFM
Steam	15 - 50 PSI	120 lbs/Hr	100 lbs/Hr

### MODEL B / MODEL C (Cleaning Only)

SUPPLY	PRESSURE	FLOW RATE	CONSUMPTION
Beer	35 - 45 PSI	30 GPM	20 GPM
CO <sub>2</sub>	25 - 35 PSI	60 CFM	10 CFM
Water	40 - 50 PSI	31 GPM	4 GPM
Machine Air	60 - 80 PSI	3 CFM	2 CFM
Purge Air	25 - 40 PSI	45 CFM	8.3 CFM

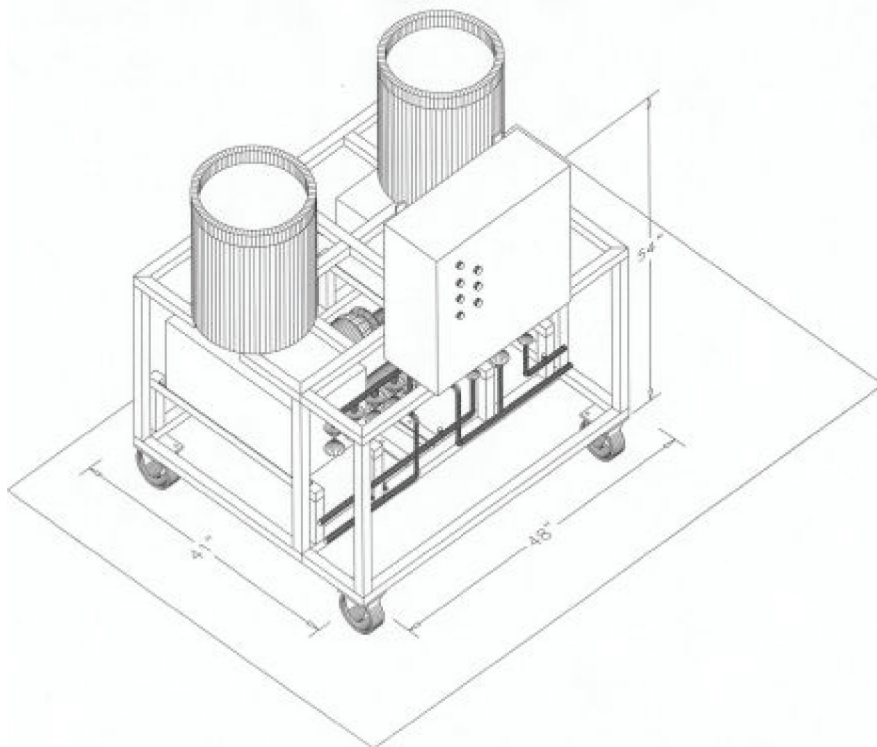


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## ELECTRICAL

One Electrical Line required for each of the following:

- |                               |         |                            |
|-------------------------------|---------|----------------------------|
| 1. Emersion Heater            | Voltage | 220 VAC or 460 VAC 3 Phase |
|                               | Power   | 3 KW                       |
| 2. Pumps 2HP                  |         | 208-230/460 VAC 3 Phase    |
| On/Off Switches c/w Overloads |         | 5.6 - 5.4 / 2.7 amps       |
|                               |         | 50/60 Hz                   |
| 3. Panel                      |         | 110 VAC @ 5 amps           |
|                               |         | 220 VAC @ 2.5 amps         |



**Brewing & Beverage**  
MACHINERY SERVICE INC