



SPECIFICATION

LIGO Aqueous Parts Washer

APPROVALS	DATE	REV	DCN NO.	BY	CHECK	DCC	DATE
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DCC RELEASE							

Requirements

General

- Washer shall be a front loading machine.
- Maximum overall dimensions: 84x84” by 126” in height
- The exterior of the machine shall be insulated to limit thermal hazards and radiation loss.
- Washer will be installed on an existing concrete floor.
- Unit shall be powered with 480 volt, 3-phase.
- An 8” port shall be provided for possible exhaust provisions.
- Washer shall meet applicable safety and electrical codes.
- Washer shall fail safe in the event of loss of utilities.
- Washer shall be compatible with Liquinox detergent (pH 8.5).

Wash Chamber

- Minimum chamber load capacity: 36x36” by 50” in height and 500 lbs in weight.
- The wash chamber shall be constructed of stainless steel, as corrosion inhibiting chemicals will not be used.
- Other materials used in the assembly, such as gaskets, shall be selected to minimize particulate.
- No lubrication is permitted within the fluid path of the washer, or in the chamber.
- Machine shall include base model parts rack.
- The machine shall utilize rotating wash/spray arms and/or rotating turntable, or other mechanism to maximize spray coverage of parts.

Wash Controls

- Washer shall have controls for wash and rinse cycles, and display for wash and rinse temperatures.
- Unit shall have a heated wash tank for a water based solution.
- Wash tank and rinse tank heaters shall be adjustable from 150 deg F to 190 deg F.
- Cycle durations shall be adjustable from 1 minute to 30 minutes.



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Pumps and Plumbing

- All plumbing shall be stainless steel to the extent possible.
- Wash water shall be recirculated.
- Unit shall have a separate heated rinse tank for non recirculating fresh water (possibly deionized water) cycle.
- Wash cycles shall be driven by a pump of 7.5 HP - 15 HP, with flow rates in the range of 100-250gpm.
- Rinse cycle shall be driven by a dedicated pump with flow rates in the range of 10-20gpm.
- All tank fill and drain operations may be manual.
- Wash tank shall have a minimum capacity of 65 gallons.
- Rinse tank shall have a minimum capacity of 20 gallons.
- All rinse and wash water shall be filtered and/or strained.
- Recycled wash water shall be filtered with a 10 micron filter.
- Rinse water shall be filtered with a 1 micron filter.
- Spray headers shall be configured to maximize coverage to all surfaces of parts.

Optional Features

- Forced hot air Drying System
- Spray gun for manual rinse
- Additional racks
- Multiple wash/rinse cycle control