PRODUCT SPECIFICATIONS

Better Engineering's DRUM WASHER Systems

Standard Features

Rotary Drums

Diameters: 12" - 48"
Flanged Sections: Sections bolt together.
Helix: Continuously welded (height and pitch as needed.)

Drum Supports and Drive

Support: The drum has machined bearing surfaces on the ends (and at other points depending on the length and load rating of the drum) that ride on stainless steel wheels. The wheels have sealed bearings.
Drive: The drum is positively driven with a chain. The drum sprocket is bolted on the unload end. The drive motor is variable speed (1-5 RPM's) and is protected by an electronic "smart drive" torque overload senor.

Spray or Immersion

In the wash and rinse modules, the customer can specify spray or immersion. In a spray module, the drum skin is completely perforated. In an Immersion module, water is still sprayed onto the parts but the drum skin is non-perforated in the immersion zone.

True Modular Construction

The systems are truly modular in that they can be expanded or changed without a torch or welder. The design provisions are as follows: a) the main wash, rinse and dry modules are mounted on a common skid and bolted together; b) the drum itself is bolted together in sections; c) wireways terminate at each module, etc.

Stainless Steel Construction

With few exceptions, all wetted parts are stainless steel (grade 304.) The metalwork, the drum, the pumps, the spray and dry manifolds, etc. are stainless steel.

Insulation/Stainless Cladding/ Stainless Finish

Wherever practical, the vertical surfaces are insulated or shielded. Insulated surfaces have 1" thick insulating material ("R" value of 4) which is then covered with stainless steel cladding. The exterior of the system has a natural stainless finish. Only components such as the control box, the motors and the base skid are painted.

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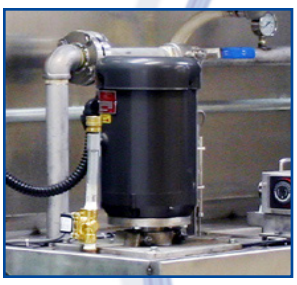
Features Continued

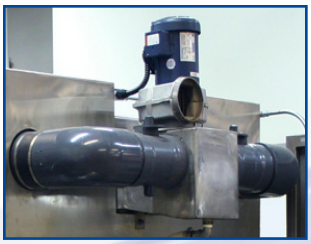


Solution Tanks / Sealess Pumps
Solution tanks have the following features: 1) vertical (seal-less) pumps with TEFC motors and single piece shafts, 2) water level sensors for "normal", "low level" and "high level" detection, 3) auto water fill, 4) large slide-out strainer basket that filters the water before re-entering the tank, 5) sloped tank floor and 6) large rear access cover.

Spray Chambers
Spray chambers have the following features: 1) hinged access doors on the front side of the canopy, 2) extended drain/buffer areas on both sides of the spray/immersion zone to prevent splash-out and cross-contamination, 3) inside flooring to force all water to enter the removable strainer/filter basket before re-entering the tank, 4) stainless steel spray manifolds.

Drying Modules
The drying modules use high volume air flow which is 95% recirculated to conserve energy and to avoid air blow-out. A small portion of the air (5%) is released to purge humidity. The air flow is generated by a centrifugal blower. An optional air heater can boost temperatures up to 250 degrees F. The inside floor is pitched to direct most of the water back to the previous spray module.

Central Control Station
The control and electrical systems are as follows: a) designed for 460V, 3ph, 60 Hz main power, b) central control panel with a built-in main fused disconnect, c) panel and wireway are Nema 12, d) 110 Volt controls, e) on/off switches and lights for each major device, f) digital thermostats for tank and air heaters, h) 7 day/24 hour timer for tank heaters, g) speed controller for the drum, etc.



Available Options
The available options include: 1) various filtration devices such as oil skimmers / coalescers and bag filters 2) gas or steam heat in lieu of electric heat, 3) steam exhaust systems, 4) PLC's, 5) automatic parts loaders, etc.

Validation Testing & Support Services
All drum washers have an official run-off requirement where customers are invited to the factory for thorough inspection and testing. Better Engineering also offers optional installation assistance and training.

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