Drum Washers - Barrel Washers

SRS Engineering’s automatic enclosed medium sized drum washer unit, the DW-Series (Drum Washer) and DWC-Series (Drum Washer/Crusher) are designed to clean larger containers including various sized 30 and 55 gallon drums, barrels, and overpaks, as well as handle small containers such as pails, buckets, jars, lids, and any other specialty parts contaminated with a wide variety of solvent or aqueous based materials. The DW-Series (Drum Washer) and DWC-Series (Drum Washer/Crusher Combination) both feature corrosion resistant, high pressure pumps and spray nozzles which can remove even the most difficult residues from the containers. The high impingement jet spray technology can even eliminate cured resins and paints. A vapor tight lid is typically used to ensure vapor containment. Interlocked lid, secure sensors, and ground proving switches are standard features to ensure maximum operator safety.

SRS Engineering’s DW-Series Drum Washers are designed for:

- 85 Gallon Overpak Washing
- 55 Gallon Drum and Barrel Washing
- 44 Gallon Drum Washing
- 200 Liter Drum Washing
- 30 Gallon Drum Washing
- Pail Washing
- Bucket Washing
- 20 Liter Tin Washing
- Lid Washing
- Including other Various Other Small Containers that the PW Series can wash.

Both units have an easy to use, set up menu that provide the operator with the ability to program a wash and rinse cycle into the PLC microprocessor logic controller allowing the system to operate automatically. The controller monitors a series of relays and contacts to verify proper liquid levels, flows, pressures, container security and proper grounding, before starting the cycle. Any fault condition is diagnosed and clearly displayed on the control panel to ensure operator safety and ease of operation. The system automatically shuts off in the event of a fault condition or at the end of the cycle.

The cleaning liquid used in the primary wash cycle can also be recirculated to an external containment reservoir, tank, or built in sump tank to minimize the volume required. The rinse can then be disposed off site, recycled, or returned to a dirty wash tank as make-up (commonly used in Closed-Loop System configurations).
DW-Series Features and Options:

- Washes Interior and Exterior Surfaces
- Solvent, Caustic, Sanitizer, and Water washing
- Explosion Resistant, ATEX, and Zone 0 models available
- Electric or Pneumatically operated
- Stainless or Carbon steel (Mild Steel) construction
- Triple Rinse applications
- Automated Drum Loading Systems
- Nitrogen or CO2 Purging
- Single, dual, tri, quad, and Conveyorized Configurations
- Specialty wash racks
- Exhaust system
- Drying
- Heated Drying
- VOC Containment

Additional Features and Options:

- Heated or Non-Heated built in sumps
- Optional Lid Racks
- Optional Multi-part racks
- Conveyorized Options
- Custom Door Options
- Solvent Applications
- Caustic Applications
- Water Applications
- Vapor Recovery
- Chamber & Container Purging
- Automated Loading Systems

These units can typically process around 200+ drums an hour saving you both time and labor costs!
Washing Operations

High pressure pumps are used to spray a wash solution to remove the most difficult residues. An advanced microprocessor control (PLC) unit verifies all safety parameters before initiating the pre-programmed cycles or sequences which can include but are not limited to wash, rinse(s), sanitize, purge, exhaust, and drying cycles. While the system is in operation the main control panel has an (HMI) which displays current system status.

The HMI displays:

- Present Cycle
- Time/Date Stamp
- Operator Fault Conditions
- Part Count
- Life Cycle of System
- Components Scheduled Maintenance Tasks
- Tag Alarms with Part Numbers
- Amount of Down Time Incurred

The wash systems are fully capable of displaying other information including desired customer information, tank temperature/levels, and other auxiliary equipment information pertinent to the functionality of the system.

Operating Control Systems

SRS' automatic systems are equipped with a Programmable Logic Controller (PLC). The user interface prompts the operator through comprehensive menus to set up the operating system functions. This enables the PLC to operate the system automatically while providing displayed current status information.

The PLC monitors system and auxiliary equipment sensors, flow rates, temperatures, fault conditions, and contacts to verify proper grounding, before initiating the start function.

Fault conditions are diagnosed and clearly displayed on the HMI, to ensure operator safety and ease of operation. The unit will systematically shut down in a fail safe mode in the event of a fault condition or at the end of the cycle.
<table>
<thead>
<tr>
<th>DCS</th>
<th>PLC</th>
<th>HMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABB Bailey INFI 90</td>
<td>Allen-Bradley SLC</td>
<td>Allen-Bradley - PanelView</td>
</tr>
<tr>
<td>ABB Fischer &amp; Porter DCI</td>
<td>Allen-Bradley PLC5</td>
<td>Rockwell - RSView, RSBatch</td>
</tr>
<tr>
<td>Allen-Bradley ProcessLogix</td>
<td>Allen-Bradley ControlLogix</td>
<td>Siemens - WinCC, OSx</td>
</tr>
<tr>
<td>Delta V</td>
<td>Allen-Bradley MicroLogix</td>
<td>Wonderware - InTouch, InTrack,</td>
</tr>
<tr>
<td>Fisher-Rosemount RS3</td>
<td>General Electric 90/70</td>
<td>InControl, InBatch, InSQL</td>
</tr>
<tr>
<td>Honeywell TDC/TPS Systems</td>
<td>Koyo DirectLogic</td>
<td></td>
</tr>
<tr>
<td>Honeywell Plantscape</td>
<td>Modicon Quantum</td>
<td></td>
</tr>
<tr>
<td>Honeywell Experion</td>
<td>Modicon 884/984</td>
<td></td>
</tr>
<tr>
<td>Siemens Simantic PCS</td>
<td>Siemens APT</td>
<td></td>
</tr>
<tr>
<td>Siemens Moore APACS</td>
<td>Siemens S7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mitsubishi</td>
<td></td>
</tr>
</tbody>
</table>
Building a **Greener Tomorrow**... for the Environment and Your Bottom Line!

---

**SRS Engineering Corporation**

25843 Jefferson Avenue, Murrieta, CA 92562
951.526.2239 • 800.497.5841 • fax 951.526.2441

www.srsengineering.com • www.srsbiodiesel.com