



## The Ultima Series precision cleaning systems turntable style washers

**ULTIMA** systems - for the ultimate in  
precision cleaning!

The Ultima line of parts cleaning systems is for customers with the most stringent cleanliness requirements such as aerospace, pharmaceutical, medical, and cosmetic companies.

Seven (7) upgrades were combined into a package such that the package could be incorporated into any Purifier parts washer model. The result is a PURIFIER/ULT SYSTEM, the Ultimate Precision Cleaning System.





# Ultimate Precision Cleaning System

Today, there are over 15,000 Better Engineering aqueous cleaning systems like the Purifier /ULT's in service throughout the world. Established in 1960, Better Engineering pioneered the field of aqueous cleaning and continues to set the standard for precision cleaning machinery.

## The Purifier/ULT Systems

After working years with the large companies in the world to push the boundaries of water-based cleaning, Better Engineering had a mandate- design a STANDARD system that meets the most stringent cleanliness requirements, that defies improvement, and hence saves customers the cost and anguish of customizing a system. Seven (7) upgrades were combined into a package such that the package could be incorporated into any Purifier model. The result is a PURIFIER/ULT SYSTEM, the Ultimate Precision Cleaning System.

## Cleaning with Water..the Purifiers

Better Engineering's "Purifier" machinery is and has been the best selling line of industrial jet washers in the world. Using aqueous spray technology, parts are automatically cleaned with a recirculated detergent and water solution. The force of the spray jets in combination with the heat (130° - 180° F) and the chemical action of the detergent strip away oil, grease, carbon, etc. in 1 -15 minutes. Now, Better Engineering has set a whole new standard.

## Multi-Stage Cellular Cleaning

A "ULT" jet washer is the ideal cellular cleaning system. The parts are washed, rinsed and dried in one chamber and in one fully automatic cycle. The average cycle time is just 15-20 minutes. Now, you don't have to move your parts from tank to tank for precision cleaning.

## "ULT" Features

The features of the "Purifier" jet washers [see "Purifier" specification sheet) carry over to the "Purifier/ULT " systems except for the obvious upgrades outlined in this brochure and the floor pitch; on a ULT system, the tank floor has a straight 2" pitch from front to back (there is no 2" deep canal or diversion plate).

## Standard features & specifications

- Lifetime guarantee on the system's infrastructure
- All wetted parts including pumps, etc. are grade 304 stainless steel
- Two high-volume tanks... high volume wash & rinse stages
- Vertical (seal-less) pumps
- Automatic water level controls and auto fill
- Premium controls: PLC, 10" HMI, main disconnect, etc.
- Water level controls for each tank
- Full insulation; stainless steel cladding

## Optional features

- "ILS-11" Stainless steel strainer
- "ILF-22" Micron filtration system
- "RFB-22" Bag filter for ILF-22
- "EBL-11" or "EBL-22" End of cycle beacon lights
- "DSL-11" Locking door switch
- "PCS-22" Allen Bradley "Panelview 600" Processor
- "ARC-11" Non-recirculated automatic rinsing system
- "ARC-22" Recirculated automatic rinsing system
- "ASX-11" Steam exhaust blower
- "ASX-22" Stainless steel steam exhaust blower
- "DRP-11" Drip leg & anchor for ASX
- "SPB-11" or "SPB-22" Small parts baskets
- "ZXX" Upper tier basket
- Air drying systems (consult factory)

## Specifications

Model	Turntable Diameter	Working Height	Weight Capacity	Pumps (2) Each	Pump Output/ Each	Tanks (2) Size Each	Heat (per tank)
F-4000-ULT	40"	40"	1,500 lbs.	5.0 HP	100 GPM/60 PSI	140 gal.	18 kW
F-4000LX-ULT	40"	60"	1,500 lbs.	7.5 HP	150 GPM/60 PSI	140 gal.	18 kW
F-5000-ULT	50"	60"	2,500 lbs.	10P HP	150 GPM/60 PSI	175 gal.	27 Kw
F-6000-ULT	60"	60"	2,500 lbs.	15 HP	225 GPM/60 PSI	225 gal.	36 kW
F-7000-ULT	70"	60"	2,500 lbs.	15 HP	250 GPM/60 PSI	275 gal.	36 kW
F-8000-ULT	80"	60"	2,500 lbs.	20 HP	300 GPM/60 PSI	325 gal.	48 kW
RD-5000-ULT	50"	60"	2,500 lbs.	10P HP	200 GPM/60 PSI	235 gal.	36 kW
RD-6000-ULT	60"	60"	2,500 lbs.	15 HP	250 GPM/60 PSI	300 gal.	48 kW
RD-7000-ULT	70"	60"	2,500 lbs.	15 HP	250 GPM/60 PSI	350 gal.	48 kW
RD-8000-ULT	80"	60"	2,500 lbs.	20 HP	300 GPM/60 PSI	375 gal.	48 kW
Larger Sizes	Consult Factory						





# The 7 ULT Upgrades

1. **STAINLESS STEEL** On a ULT system, all wetted parts are type 304 stainless: cabinet, pumps spray nozzles, valves, etc.
2. **TWO INTEGRATED TANKS** A ULT system is really two jet washers rolled into one. There are two heated reservoirs, two pumps, etc. The high volume wash stage (100+ GPM) is followed by an equally powerful stage (100+ GPM).
3. **HIGH VOLUME RINSING** Essential to many applications, the high volume rinse stage can be automatically followed by an optional 3rd low volume rinse stage. Pneumatic “plungers” are choreographed with delay timers to keep these solutions segregated.
4. **DRYING (OPTIONAL)** After the wash and rinse stages, the parts are dried with a high velocity (15,000 ft./min.) blast of hot (typically 260° F) air. The machine has a “regenerative blower” and a heating system that has triple, no-fault protection.
5. **THE CONTROL SYSTEM** A ULT jet washer has a deluxe control system which is both comprehensive and user friendly. The standard system uses all relay logic and has external timers for each stage (wash, rinse, etc.) With the PCS-22 option, the timers and many of the lights and relays are replaced with an Allen Bradley Panelview 550 PLC with touch screen.
6. **ULT FEATURES** Many features which are optional on a Purifier are standard on a Purifier/ULT system:
  - Full cabinet insulation (1 “)
  - Main fused disconnect with panel lock-out
  - Emergency stop control and more...
7. **ULT SUPPORT** ULT customers enjoy the highest level of factory/dealer support:
  - Work with B.E.'s lab to prove the process
  - Two day training and run-off sessions at Better Engineering
  - Comprehensive documentation
  - Installation assistance by your local B.E. dealer

# Aqueous detergents



## Better Engineering Aqueous Detergents

These detergents are specially formulated to maximize cleaning performance and to protect your machine. These detergents, backed by “BE’s” chemistry department and factory test center, allow Better Engineering to offer customers a full service cleaning solution.

## benefits of “BE” chemistry

- Biodegradable – No VOC’S, non-flammable, and generally non-hazardous
- Lower pH’s – Generally safe on all metals
- Forces oils to the surface for easy skimming
- Low foaming – Designed for powerful spray washers and agitation
- Excellent rust inhibition
- Free-rinsing

## lab test services

### Engineering Test Lab & Machine Demonstration Center

Better Engineering has a complete engineering lab and machine demonstration center to test clean your parts. We feel that seeing is believing and that is why we invite you to visit our plant and test center in Baltimore, MD. See your parts get cleaned first-hand. Can’t make it to Baltimore? Send your parts and we’ll test clean them for you and return the cleaned parts with a detailed report of our process, the results, and the recommended machinery. Contact Us for additional information or to schedule your **FREE** parts cleaning test.