

# PRODUCT SPECIFICATIONS

## Better Engineering's CYCLOJET Systems



MACHINE	CJ-2	CJ-4
Stainless (all wetted parts)	Yes	Yes
# of Baskets	2	4
Outside Basket Dim's	17.63 " L x 11.5" W x 6.12" H	
Inside Basket Dim's	15.5" L x 9.37" W x 4.25" H	
Wash Tank/Heat	100 G/18 kW	150 G/24 kW
Wash Pump	3 HP	5 HP
Rinse Tank/Heat	100 G/18 kW	150 G/24 kW
Rinse Pump	3 HP	5 HP
* Blower for Dry	5 HP	10 HP
* Air Heat System	12.8 kW	21 kW
* Ultrasonics (40 khz)	1,000 W	2,000 W
Power	460 V, 3 Phase	460V, 3 Phase
Load Height	40"	40"
PLC	Standard	Standard
Variable Speed Rotor	Standard	Standard

\* these features are optional

### Standard Features



#### Stainless Steel

All wetted parts are type 304 stainless steel: cleaning chamber, rotor, baskets, tanks, pumps, etc.



#### Multiple Tanks

The Cyclojets have two(2) large capacity solution tanks. Additional tanks can be added and the system can be equipped with a fresh rinse stage.



#### Patented Auto Latch

Cyclojet systems have the patented auto latch feature. This solved the most frequently encountered problem – a system jam due to operators mismatching baskets into the rotor.



#### Baskets or Fixtures

The Cyclojets are for small parts and large complex parts. While screw machine parts are typically put in covered baskets for tumbling, larger parts can be racked or fixtured so they orbit without tumbling.



#### Spray, Immersion, Sonics

These are independent stages that can be run in any order and for any duration. During an ultrasonic stage, the cleaning chamber is filled with the appropriate solution and pumping/rotation stops to avoid air bubbles. Every "X" seconds, the rotor turns 180 degrees to expose all the parts to the ultrasonic energy.



#### PLC Control System

The Allen Bradley "Panelview 550" PLC gives the operator unlimited cycle flexibility. Using the touch screens, cycles can be programmed, stages can be repeated and/or combined in any sequence.



## Options/Accessories



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**1) ADDITIONAL RINSE STAGES** There are two(2) additional rinse stages that can be ordered: 1) the "ARC-33" fresh water rinse stage...parts are spray rinsed with a low volume (approx. 3 GPM) of fresh water that is not recirculated, 2) the "ARC-66" recirculated rinse stage...low volume spray rinse recirculated from a 3rd. tank. The 3rd tank has a 50 gallon capacity and is all stainless steel including the pump (low water shut-off and auto fill is included).



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**2) DRYING STAGE** After the wash and rinse stages, the parts dried with a high velocity (15,000ft/min) blast of hot (typically 260 F) air. For drying, the machine is equipped with a regenerative blower (5 HP for CJ-2, 10 HP for CJ-4), a low watt density air heating system (12.8 kW for CJ-2, 21 kW for CJ-4), and a steam exhaust blower.



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**3) STEAM EXHAUST** A heavy duty steam exhaust blower (blower housing is cast aluminum) evacuates the steam before the wash chamber door is opened (already included with the "Dry Stage" option).

**4) ULTRASONICS** Ultrasonic transducers (1,000 watts for the CJ-2, 2,000 watts for the CJ-4) are added to the system. Parts can be ultrasonically cleaned during both the immersion wash and immersion rinse stages. The ultrasonic frequency sweeps between 39-41 kHz.



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**5) OIL SKIMMING** For skimming oils from a given tank, there are two options: **1)** the OSB-22 motorized belt skimmer. This skimmer has a stainless steel belt and is controlled with a 7 day/ 24 hour timer. **2)** the OWC-22 oil water coalescer. This stainless steel coalescing tank is rated for a 1 GPM flow and includes a floating skimmer head and a transfer pump.

**6) PARTICLE FILTRATION** Rosedale bag filter (hinged top and eye bolts) is installed on the pressure side of a given pump to trap suspended particles before they can be redeposited on the parts. Pressure gauges indicate when the filter bag (specify micron rating) has to be changed.



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**7) BEACON LIGHTS** A beacon light is mounted on top of the main electrical enclosure. The EBL-11 option is for a single color light. The EBL-22 option is for a 3 color beacon light.