



CLOSED LOOP WATER SYSTEMS INC.

Product Bulletin

CLOSED LOOP WATER TREATMENT SYSTEMS



*Environmentally Safe, Economical
and Efficient Recycling of Rinse Water*

Closed Loop Water Treatment Systems

Closed Loop Water Systems are used for removing organic and inorganic contamination from water through continuous recirculation. This is accomplished by passing effluent rinse water through carbon beds to remove organics followed by ion exchange to remove the inorganic impurities.

When used with an ultrasonic cleaning system, spray system or overflow rinse system, the rinse water flows into the CLWS process sump. The water is then pressurized and sent through the purification system at a controlled flow with visual monitoring and automatic mechanical controls. Water losses from dragout and evaporation are automatically added to the system using tap water feed.

CLW Systems are provided ready for interconnection to cleaning and rinse systems. A stainless steel constructed skid is provided along with all controls, pump, plumbing and stainless steel canisters designed for both ion exchange resins and activated carbon. Canisters are designed for easy maintenance of the exchange resin and carbon. The system has been developed for high temperature rinse water compatibility - 140°F on 3 and 6 GPM systems, and 120°F on 1.5 GPM system.

System Features:

- Water purity or > 10 MegOhm attainable
- 1.5, 3.0 and 6.0 gallons per minute (GPM) systems available (larger custom sizes available upon request)
- Automatic water makeup with 5 micron prefilter
- Deionized water immersion heater
- Digital temperature controller
- Resistivity monitor
- Quick disconnect fittings on stainless steel canisters
- 140° F compatible stainless steel skid, pump, plumbing, filter housing and sump reservoir (3 and 6 GPM systems)
- 120° F compatible CPVC plumbing and filter on 1.5 GPM system
- 30 PSI attainable spray pressure (3 and 6 GPM systems only)

Options:

- UV sterilizer system (3 and 6 GPM systems only)
- Spare canister tanks
- Resin catch baskets
- Signet analog flow meter and totalizer (3 and 6 GPM systems only)
- Electropolishing

Specifications:

| Dimensions | 1.5 GPM | 3.0 GPM | 6.0 GPM |
|------------------|----------|----------|---------|
| Length | 3'4" | 4'6" | 5'7" |
| Width | 3'6" | 3'6" | 3'6" |
| Height | 4'5" | 5'7" | 5'7" |
| Weight (approx.) | 800 lbs. | 1100 lbs | 1200lbs |

NOTE: Larger custom sizes available upon request.

Electricals

Voltage: 240 VAC/3 Phase (other voltages available)
Frequency: 50/60 kHz

Consumables

Carbon: Acid washed activated carbon > 1000 iodine
Ion exchange resins: Gel resins with type 1 anion, semiconductor grade
Filter: 5 micron (nominal)

Plumbing Requirements

Feed water: 1/2" FNPT
Return: 1" CPVC
Drain: Required



For more information call **1-800-867-5560**

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