

# AquaChem, Inc

*Water Management Solutions  
For the  
Professional Vehicle Wash*



Water is a universal solvent and an essential ingredient to the **Washing Equation**, along with Chemistry, and Mechanical Action.

The **Professional Vehicle Wash Operator** is challenged to manage this resource, of **Water**, for both increasing Expense and Regulations as the Economy evolves.

**AquaChem**, recognizes and understands these challenges and is a Solutions Driven Organization that provides the Professional Wash Operator with Alternatives.

The **Solution** for the **Operator** comes in the form of: Knowledge, Equipment, Application Experience to manage this Resource, **Water** to Assist the Professional Wash Operator to Attain the result of a **Consistently Clean, Dry, and Shiny Vehicle** with Managed Use of the Resource of **Water**.

#### Water Management Solutions Benefits Include:

- Reduction & Control of Water & Sewer Costs
- Reduction of Utility Impact Fees
- Compliance with Government Mandates
- Creating an Environmentally Friendly Facility

#### Contact AquaChem for:

Solutions, Advice, Site Drawings or Layouts

### Technology Engineered Water Recovery Equipment

- Pressure Driven use of a VFD
- PLC Logic and Display Control
- Advanced Oxidation Treatment for Elimination of Chemistry and Odor
- Stainless Steel Construction
- Pre-plumbed and Pre-wired
- Easy to Install and Operate

### Time Proven Water Treatment Equipment

- High Efficiency Reverse Osmosis
- R/O Concentrate Reuse
- Site Specific Water Treatment



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# AquaChem Water Recovery Systems

SPECIFICATIONS	
Model Designation	Ozone Series
Maximum Output (GPM)	40 to 200 (US) Gallons per Minute
Process Pump	Continuous Duty Rated, Self Priming, Bronze Impeller, SS Shaft
Motor Operating Voltage	208-230 Volts, 3/0 Phase, 60 Hz or 460-480 Volts, 3/0, 60Hz
Dimensions	48" WIDTH X 76" TALL X 24" DEEP
Construction	Stainless Steel and Brass Components
EXTERNAL AIR, PLUMBING, WATER, TANKING REQUIREMENTS (Not provided with Recovery Unit)	
Air Input	8.0 CFM @ 100 PSI, Terminate to Unit Air Regulator
PVC Plumbing	(2) 2" PVC SCH 80 Suction Lines from Final Reclaim Tank
	(1) 2" Output Line to Vehicle Wash Equipment
	(1) 1" PVC Ozone Re-circulation Return Line to First Reclaim Tank
	(1) 3" Drain Return Line for Backwash to Mud-pit or Trench
Water	1.5" Fresh Water Connection
Clarifier Tanks	Minimum of 3,500 Gallons, Baffled Type
ELECTRICAL REQUIREMENTS	
Pump Motor and Variable Frequency Drive (VFD)	208/230 Volt or 460/480 Volt, 3/0 Ph 60 HZ to System Disconnect via Home Run from Breaker in Electrical Service Panel
Logic Controller ( PLC )	120 VOLT Single Phase, 20 Amp Breaker
FILTRATION COMPONENTS	
Debris Trap	8" Stainless Steel Removable Basket
Process Filtration	Stainless Steel Element and Housing, 25 Micron Absolute Process Rating, Self Cleaning based upon System initiated Air Purge
ODOR CONTROL PRETREATMENT COMPONENTS	
Method	Ozone with Optional Advanced Oxidation Protocol
Ozone Generation Type	Low Frequency Corona Discharge w/ Oxygen Generated Feed Gas
Daily Ozone Production	$\frac{3}{4}$ Pounds per Day, Standard; Upgradeable to meet requirements
System Introduction Method	Injector, 99% Gas Transfer to Liquid, Optional Contact Chamber
Treatment Method	Continuous Gas Transfer coupled with Water Re-circulation

