

 COMMERCIAL

WATER RECLAMATION



 **WATER
CONTROL**
Where NATURE & SCIENCE meet.™ 

CONCEPT TO COMMISSIONING: WATER RECLAMATION MADE SIMPLE

WATER CONTROL IS YOUR ONE-STOP PROVIDER FOR CUSTOM-BUILT WATER RECLAMATION SYSTEMS.

With over 45 years of experience in specialty water treatment solutions, we have the technical knowledge, expertise, and equipment needed to get your non-potable water recycling project off-the-ground. From initial site analysis, to 3D design, spec-writing, and on-site commissioning, our team of qualified technicians will ensure that every detail is addressed. This is water reclamation made simple!

SYSTEM OVERVIEW

- Packaged, skid-mounted, turnkey water recycling systems simplify installation and maintenance
- Ultraviolet, Ozone, or Chemical treatment systems protect quality of water being delivered to fixtures/equipment and in storage tank
- Sensors and actuated valves ensure that only safe, sanitary recycled water is delivered – and that a backup supply is readily available when this is not possible
- Advanced Programmable Logic Controller (PLC) with Human-Machine Interface (HMI) and Building Automation System connectivity provides versatile control and monitoring

WATER RECLAMATION SYSTEMS <small>(Note: Larger systems available upon request.)</small>								
Model*	Delivery Flow Rate (GPM)	Max Discharge Pressure (PSI)	Dimensions (in) (L X W X H)	Voltage/Phase	Max Amp Draw**	Pump HP	Connection Sizes (in)	Weight (lb) (Estimated)
WCC-RW-___-20	20	100	72 X 20 X 76	460 / 3	4.5	3	1 1/4	700
WCC-RW-___-40	40	100	74 X 24 X 76	460 / 3	7	5	1 1/2	900
WCC-RW-___-80	80	100	84 X 29 X 76	460 / 3	12	10	2	1150
WCC-RW-___-120	120	100	96 X 32 X 80	460 / 3	18.5	15	3	1700
WCC-RW-___-160	160	100	126 X 34 X 82	460 / 3	18.5	15	3	1900

* Insert desired disinfection system type: "CL" for chemical injection, "OZ" for ozone or "UV" for ultraviolet.

** Values represent maximum electrical draw. Actual max amp draw may be lower, based on disinfection type.

WATER CONTROL SELECTS HIGH-QUALITY COMPONENTS FROM LEADING TECHNOLOGY PARTNERS, THEN CUSTOM-FABRICATES THEM INTO COMPLETE, "PLUG-AND-PLAY" PACKAGES THAT REQUIRE SIMPLE WATER, DRAIN, AND ELECTRICAL CONNECTION. WE THOROUGHLY TEST THE OPERATION AND INTEGRITY OF EACH OF OUR SYSTEMS PRIOR TO DELIVERY.



STANDARD ASSURE IQ™ CONTROLLER

- Programmable Logic Controller
- Animated HMI Touchscreen
- Component Status and Setpoint
- Multiple User Logins
- Electronic Maintenance Reminders
- BAS Integration (BACnet and Modbus ready)
- Trending Information
- System Alarms
- Extreme Versatility for Various Operation Requirements

STANDARD FEATURES ON ALL WCC-RW SYSTEMS

- Ultraviolet, ozone, or chemical (sodium hypochlorite) disinfection with monitoring (UV Dosage or ORP) and fail-safe alarm protection
- Monitored, easy-to-change filters
- Variable speed pump with ultra-efficient, electronically-commutated (ECM) motor (up to 15 Hp*)
- Storage tank level monitoring
- Tank recirculation/treatment system to counter stagnation and biological growth
- Fresh water bypass mechanism for connection to potable or municipal reclaimed water supply**
- Sensors and alarms for protection from blockages, broken pipes, chemical shortages, and more
- Submersible pump enable/disable control for suction lift applications
- Auxiliary power and controls for optional dye/chemical injection
- In-tank accessories including check valves and suction line strainers
- Single-point, 480V/3-phase electrical connection

*Pump motors above 15 Hp to include standard, integral VFD's

**Backflow protection required, per local code

SYSTEM OPTIONS

AVAILABLE CONFIGURATIONS:

- UV disinfection with up to 3 monitored lamps
- Ozone (OZ) disinfection with up to 60 g/hr injection and ORP control
- Sodium Hypochlorite (CL) disinfection with up to 1.585 gal/hr injection and ORP control
- "Recirculation-only" (RC) packages (delivery by separate booster pump)
- Auxiliary tanks and injector pumps for addition of residual disinfectant or dye
- Self-backwashing filters in lieu of standard bag filters



WCC-RW-UV-40



Storage Tanks

STORAGE TANKS AVAILABLE FROM WATER CONTROL:

- Above-ground polyethylene (HDPE) up to 10,000 gallons
- Below-ground polyethylene (HDPE) up to 2,500 gallons
- Below-ground reinforced fiberglass up to 50,000 gallons
- Above-ground galvanized with PVC lining, up to 70,000 gallons

ADDITIONAL COMPONENTS AVAILABLE FROM WATER CONTROL:

- Pre-filters (vortex, sieving, and mechanical separators)
- Backflow prevention equipment (Reduced Pressure Zone assemblies and air-gap systems)
- Packaged booster pumps (for higher-demand or higher elevation projects)
- Submersible pumps, controls, and accessories for suction-lift applications



Pre-Filter



THE WATER CONTROL DIFFERENCE

- Easy-to-use system sizing questionnaires
- 3D (Revit®) renditions for every system
- Custom AIA Division 22 specifications
- Detailed project submittals
- Project-specific installation diagrams
- Intuitive, adaptable controls
- Complete, customized 'Operation and Maintenance' manuals



UV System Installation



Customized 'Operation and Maintenance' Manual



WCC-RW-0Z-160 Revit® Rendition



Typical System Installation

We have team members throughout the US and Canada who are ready to serve you. Contact your local sales representative or our Technical Support Department at: 1-866-405-1268 or techsupport@watercontrolinc.com

