

Ultraviolet Sterilizers **Commercial & Industrial**



Quality Through Innovation

Excalibur Water Systems Inc.
142 Commerce Park Dr,
Barrie, ON L4N 8W8

P: (705) 733-8900
TF: 1 (877) 733-8999
contact@excaliburwater.com
www.excaliburwater.com

Excalibur Water Systems Inc.

COMMITTED TO CLEAN, SAFE WATER

- Canadian manufacturer, dedicated to UV technology, established 2011
- Designs, engineers and assembles all products in-house
- Solutions offered for residential, commercial and municipal applications
- Products sold in more than 55 countries, installed base of 200,000+ systems

Simple way of operating:

1. Manufacture a reliable product
2. Listen to our valued customers
3. Deliver a cost effective system
4. Support our distribution
5. Turn around any service issues within 48 hours



**WHOLE
HOME**



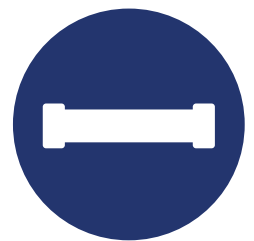
**LIGHT
COMMERCIAL**



**INDUSTRIAL &
MUNICIPAL**

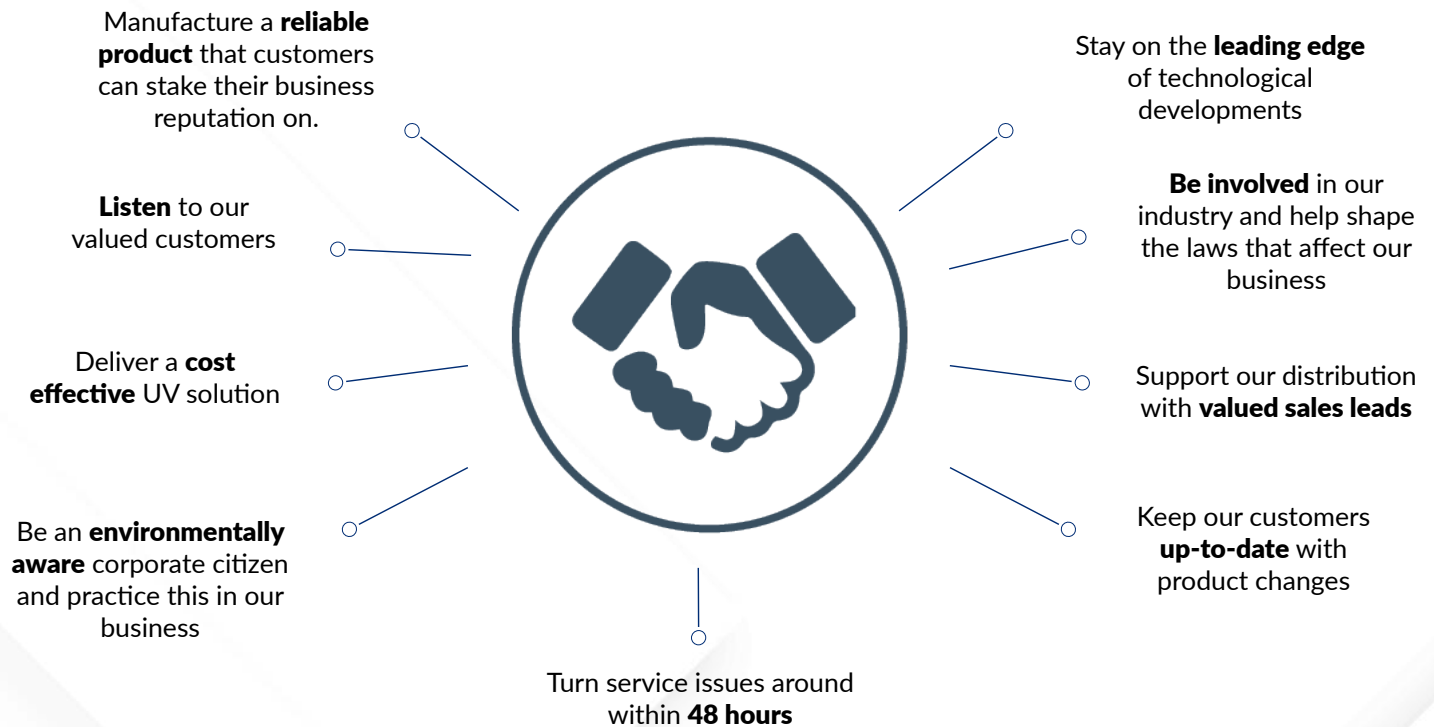


**NSF
VALIDATED**



**UV
LED**

OUR PROMISE TO CUSTOMERS



PRODUCT SOLUTIONS

With product solutions for whole home, light commercial, commercial/industrial and municipal, Excalibur Water Systems provides a “one-stop” solution for all your disinfection needs.



LIGHT COMMERCIAL

Light Commercial disinfection solutions designed for applications such as apartment buildings, senior facilities, health care facilities, campgrounds, restaurants and other similar applications.

Six systems in flow rates of 35, 55, 85, 110, 140 and 175 GPM.

The RAINIER product line comes in flow rates for a range of different applications:

1. Normal/cold water situations needing a 30 mJ/cm² dose at 95% UVT water
2. Hot Water applications with a 30 mJ/cm² dose at 75% UVT water
3. LOW UVT applications with a 30 mJ/cm² dose at 50% UVT water
4. TOC applications with a 150 mJ/cm² dose at 98% UVT water

Available in 2 versions:

- RAINIER 5.0 : Controller with LED display for remaining lamp life, total running hours, audible & visual lamp failure, remote-on and solenoid connectors
- RAINIER 6.0 : Controller with LED display for remaining lamp life, total running hours, audible & visual lamp failure, remote-on, continuous UV monitoring in addition to lamp status monitoring, 254nm Teflon based UV sensor with 4-20mA output and solenoid connectors
- RAINIER systems come standard with 316L stainless steel reactors
- Reactors are designed & manufactured to ASME pressure vessel standards
- RAINIER controller has modular electronics with LED display for remaining lamp life, total running hours, audible & visual lamp failure, remote-on and solenoid ready
- Low pressure high-output coated amalgam UV lamps (LP-AM) with a 12,000 hour life



INDUSTRIAL & MUNICIPAL

Excalibur's Commercial product line is split into both UV monitored and non-monitored products with flow rates of 404 USGPM to 700 USGPM (rated at a 30 mJ/cm² dose at 95% UVT).

The Municipal product line includes the following features:

- 316L stainless steel reactors with flanged end plate for easy disassembly
- Designed & manufactured to ASME pressure vessel standards
- Drain ports for convenient reactor draining
- ¼" Sample ports on risers for ease of sampling
- "Easy-off" lamp connector with integral lamp sealing capabilities
- Electronic control circuits with LCD display for lamp age
- 304 stainless steel control panels
- Lamp age counter
- Low pressure amalgam coated UV lamps for increased power density and uniform UV output throughout rated lamp life of 12,000 hours
- 10 Year limited warranty on UV reactors



TEMPERATURE MANAGEMENT



TRV (temperature relief valve)

- Thermal bleed valve activates when water temperature reaches 32-35°C (90-95°F)
- All 316L stainless body (lead free brass on actual thermistor)
- Fully automatic design
- Comes with 10' of drain line
- Available in 4 sizes (½", ¾", 1" & 1 ½")



COOLING FAN

- Independent, constant on cooling option
- All 304 stainless body
- 70,000 hour life, high quality ball bearing design
- 90-264V (47-63Hz.), available in a variety of cord configurations
- Available in 3 ½" & 4" sizes

OPTIONAL EQUIPMENT MODULES

AVAILABLE ON 5.0/6.0 SYSTEMS

ULTRASONIC FLOW MODULE

- Allows for power dimming resulting in energy savings and a “greener” technology
- Accurate flow readings displayed on UV system.....available soon
- When coupled with UV sensor module (6.0 systems), displays true UV DOSE calculations.....available soon

No Mechanical Components

- No need for annual re-calibration due to component fatigue/wear
- Doesn't require periodic maintenance/cleaning

Longer lifetime

- Components are not affected by wear and tear, increasing lifetime

Wide Flow Range

- Able to detect very low and very high flow rates, while maintaining accuracy

Better Precision

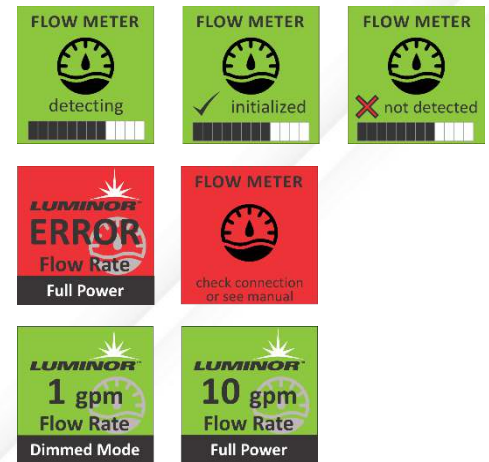
- Maintains its accuracy throughout its entire life
- Used in large industrial applications and water metering for its accuracy

Flow Sensitivity

- Able to detect very low flow rates and small changes within the flow rate

Secure Fail-safe

- A Fail-safe mechanism can be implemented in software if blockage or fouling affects the signal reading, as opposed to mechanical flowmeters which require an additional mechanical flow switch to act as a fail-safe mechanism which is still prone to fatigue/wear.



OPTIONAL EQUIPMENT MODULES

AVAILABLE ON 5.0/6.0 SYSTEMS

SOLENOID MODULE (MOD-SOL1)

- Allows for a solenoid connection on all Excalibur (5.0 & 6.0) products (will work on lamp failure only on 5.0 systems)
- Customer simply needs to purchase a NORMALLY CLOSED line voltage solenoid valve and affix the module's supplied bare lead cord to the solenoid valve
- Connect power cable to electrical outlet and the other lead to the "future-proof" expandability port on the controller



4-20 mA MODULE (MOD-420)

- Allows for a 4-20mA connection on all Excalibur (5.0 & 6.0) products
- This device will allow for a 4-20mA signal transfer of the UV output to a remote device such as a data logger or computer
- Simply plug into the IEP expandability port on the UV sensor module (or daisy chain to any other module used in the system)
- No wire is supplied with this system, however 16-22 AWG is required



REMOTE ALARM (DRY CONTACTS) MODULE (MOD-RAM)

- Allows for a remote connection on all Excalibur (5.0 & 6.0) products
- Allows for the remote installation of alarms, lights, PLC input, data logger, flow control, etc.
- Simply plug into the IEP expandability port on the UV sensor module (or daisy chain to any other module used in the system)
- Supplied with three screw terminals (NO, NC & common) to connect to the receiving end of the dry contacts
- As the distance required is unknown, no wire is supplied with the system, however 16-22 AWG is required



Why Choose EXCALIBUR?



Guaranteed repeat lamp sales with proprietary encrypted lamp keys and proprietary UV lamps, 100% replacement for Dealer/ Wholesaler (no aftermarket options whatsoever)



Fully upgradeable, no obsolescence when upgrading to a UV monitored option, simply plug-and-play



Less inventory, no need to stock both monitored and non-monitored options



Full color screen, modern technology controller (eliminates guesswork on what a potential problem may be, cuts down service calls)



Full Dealer customization available and NO extra cost



Full line of aftermarket parts for competitive systems, 100% backed by factory warranty



Best warranty in the business (10 years on reactors, 3 years on controllers, 1 year on lamps and sensors)



The definitive experts in the industry