



June 30, 2020

Sarah Mate, Director – Community Services  
Parkland County  
53109A SH 779  
Parkland County, AB  
T7Z 1R1

Sarah;

Below are the requests and approvals Administration presented to Yellowhead County Council for projects planned for the Evansburg Arena in 2020 as well as the operational contribution to PARS.

Please note that these requests are outside of the previous cost-share request for the multi-purpose room renovation submitted in March. Final invoicing for this project should be provided to you by end of July.

Requests have been itemized as operational and capital:

	<u>Yellowhead County</u>	<u>Parkland County 2021 Cost Sharing</u>
<b><i>Operational Expenditures:</i></b>		
PARS operational funding	\$ 210,000.00	\$ 105,000.00
General operations/maintenance <i>*incl. facility inspections, lifecycle maint, service agreements, alarm monitoring, etc.</i>	\$ 35,500.00	\$ 17,750.00
<b>Total Expenditures</b>	<b>\$ 245,500.00</b>	<b>\$ 122,750.00</b>
<b><i>Capital Expenditures:</i></b>		
Snow Removal (contingency)	\$ 40,000.00	\$ 20,000.00
Toilet Replacement	\$ 5,200.00	\$ 2,600.00
Vent Seal Roof Repair	\$ 5,100.00	\$ 2,550.00
Water Fountains x2	\$ 7,200.00	\$ 3,600.00
<b>Total Expenditures</b>	<b>\$ 57,500.00</b>	<b>\$ 28,750.00</b>

If you have any questions, please do not hesitate to call.

Sincerely,

Crystal McNernie  
Parks/Rec Supervisor



June 16, 2020

Ms. Sarah Mate  
Director, Community Services  
Parkland County  
53109A Hwy 779  
Parkland County, AB  
T7Z 1R1

Dear Sarah

Enclosed please find the completed information from the Town of Drayton Valley for its 2021 Proposed Capital Projects for the Park Valley Pool. The Town of Drayton Valley has appreciated Parkland County's ongoing commitment to our community's recreation facilities. Currently, the Town of Drayton Valley is completing its capital projects identified for 2020, thereby improving the provision of services to our residents.

The Town of Drayton Valley is requesting funding assistance for the following 2021 capital projects:

**Park Valley Pool**

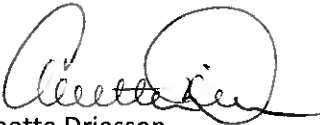
- a) Secondary Disinfection Total Cost Estimate: \$35,902.40  
The attached Capital Project Sheet outlines the proposal to purchase and install a secondary disinfection method to the Park Valley Pool. This method introduces ultraviolet (UV) light and enhances the bather experience by improved air quality. It also reduces damage to the building structure by reducing the corrosive nature of chloramines. Extending the life expectancy of the structure is critical until such time that a new Aquatic Centre is built.
  
- b) New Aquatic Facility Total Cost Estimate: \$21,241,319.00  
The Town of Drayton Valley approved the Integrated Project Delivery Validation Report for a new Aquatic Facility early this year. The Validation Report provides certainty that the Aquatic Centre can be built within the identified budget and to include the elements identified by the community. A Business Case has been submitted to Parkland County, requesting Parkland County's continued commitment to its residents utilizing recreation facilities within its neighbouring municipalities.

The Town of Drayton Valley is not submitting proposed capital projects to Parkland County for the Omniplex/MacKenzie Conference Centre at this time. The Town is undertaking a complete structural assessment of the Omniplex facility and will notify Parkland County of any anticipated capital projects. It is understood that any future capital projects may be impacted by Parkland County's capital budget timeline.

The Town of Drayton Valley respectfully requests approval from Parkland County for funding assistance with the proposed 2021 capital projects.

Should further information be required on these initiatives, please do not hesitate to call me at (780)514-2232.

Sincerely,

A handwritten signature in black ink, appearing to read 'Annette Driessen', with a large, stylized loop at the end.

Annette Driessen  
Director of Community Services

AD/ca

## CAPITAL PROJECTS FOR 2021

**Project Name:**

Secondary Disinfection

**Department:**

Park Valley Pool

**Estimated Gross Cost:**

\$ 35,902.40



How was the project figure arrived at?

☒ Estimate

☐ Quote

**Project Funding:**

Tax Funded	Previously Approved	Grants & Donations	Reserve	Cost Sharing
\$ 17,951.20	\$	\$	\$	\$ 17,951.20

**PROJECT DESCRIPTION (include grant or donation sourcing, if applicable):**

The proposed capital project is to provide Park Valley Pool with a secondary disinfection method for the pool water by adding ultraviolet light (UV). This UV Generator is small, more efficient and has the ability to reduce chlorine resistant pathogens. UV light will also reduce combined chlorine levels in pool water, which improves air quality. It will enhance bather experiences and will help to reduce damage to the building structure due to corrosive nature of chloramines.

Installing UV light into our existing piping will be quite easy as to this generator can be installed vertically or horizontal, only taking up 8" of piping. All maintenance can be performed from one side, one button push calibration for operators with plug and play lamps for increased safety.

**CONSEQUENCES OF NOT DOING PROJECT IN 2021:**

Each year certain pathogens become more chlorine resistant making water related illnesses harder to treat. It then becomes more costly for facilities to operate based on chlorine disinfection only.

**DOES THE PROJECT FALL UNDER ONE OF THE FOLLOWING PRIORITY CATEGORIES?**

☐ Legislated/Regulatory Duty

☒ Safety Requirement

☐ Contractual Obligation

☒ Quality of Life

Approved:

Deferred to:

*Remember: Economic Development + Social Development = Quality of Life*



# COMMERCIAL AQUATIC SUPPLIES

A Division of DB Perks & Associates Ltd

Phone: 604-980-2812  
Toll Free: 1-800-663-5905

Fax: 604-980-0196  
E-Mail: jim@comm-aquatic.com

#108-2411 Dollarton Hwy,  
North Vancouver, BC V7H0A3

## Quotation

To: Park Valley Pool  
5030 - 48<sup>th</sup> St Drayton Valley AB T7A 1E1

Attn: Lana Holmes

PHONE:

EMAIL:

LHOLMES@DRAYTONVALLEY.CA

QUOTATION DATE: Feb 26 / 2020

SALESPERSON: Jim

Estimated shipping date: 2-3 weeks ARO

F.O.B. Drayton Valley

Shipped Via: truck

Terms: Net 30

Quantity	Description	Price Each	Extension
1	ETS Wafer UV System 4" WF-115-4N Rated at 361gpm @ 100% output Comes with 30' cables. Plumbing and electrical by others		24289.00
1	ETS Wafer UV System 6" WF-216-6N Rated at 810gpm @ 100% Comes with 30' cables. Plumbing and electrical by others		31939.00
1	Freight to Destination		349.00
	** Plus applicable taxes **		

We are pleased to submit the above quotation for your consideration. Should you place an order, be assured it will receive our prompt attention. This quotation is valid for 30 days. Thereafter it is subject to change without notice.

By:

Accepted:

Date:

Sign and return copy when ordering

Thank You!!



**eVOQUA**  
WATER TECHNOLOGIES

# **Wafer™ UV Generator Competitive Advantage**

## **Quick Reference Guide**



**TRANSFORMING WATER. ENRICHING LIFE.**

©2020 Evoqua Water Technologies

## Introducing The Wafer™

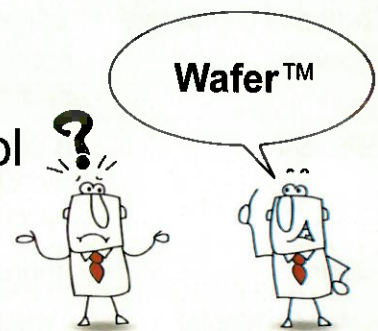
The Wafer™ UV, part of the legendary ETS-UV™ product family, is a radical new UV disinfection generator designed for the commercial aquatics market and intended to replace the existing ECF range of products





## Why The Wafer™?

- Builds on historical ECF success
- Smaller installation envelope/footprint
- Enhanced & more efficient power control
- Simpler & quicker to maintain
- Better performance
- Increased safety





# Value Proposition

## WAFER™ UV GENERATOR

Reduces Combined Chlorine	Wafer UV generators reduce combined chlorine levels in pool water. This helps improve air quality, enhances bather experience & reduces damage to building structures due to the corrosive nature of chloramines.
Efficient	A properly sized Wafer UV generator can reduce chlorine resistant pathogens by >99.9% per each pass through the reactor. This helps reduce infectivity risk for crypto-related events.
Clear	Improves the clarity of pool water by helping reduce overall organic loading.
Safer & Simpler	TwistLok™ plug & play connectors facilitate maintenance for service personnel, & ensure safe connection/disconnection of lamps.
Efficient	The new CFD design has created a more efficient system.
Compact	The Wafer has one of the smallest installed lengths on the market, ensuring it can be installed in tight spaces, increasing design flexibility & creating more possibilities for applying UV in even the tightest of mechanical rooms.

# Features & Benefits

FEATURE	BENEFIT
Optimized hydraulic design	Efficient operation
Smaller installed footprint	Provides installation flexibility to meet customer needs
Vertical or horizontal installation	Flexibility for installers
Smaller/lighter control systems	Easier to locate/install
More flexible power band (30-70%)	Potential power savings by utilizing dose pacing
TwistLok™ connection plug & play and seals interface	Safer for operators; simpler & more reliable maintenance
PulseLok automatic wiper	Simple to commission; repeatable & accurate
Validated & NSF-50 listed* (*currently listed under atg UV Technology)	3 <sup>rd</sup> party approvals provide product confidence
Spectra 3 controller	Data logging, remote web monitoring, high quality engineered control systems

# Flyer & Technical Data Sheet

## NEPTUNE-BENSON WAFER™ UV DISINFECTION GENERATOR

### NEW PRODUCT RANGE DESIGNED SPECIFICALLY FOR THE AQUATICS INDUSTRY

The Wafer™ generator differs from any other UV generator currently on the market with a unique UV chamber that offers the most compact UV disinfection generator available today. At about one-third of the size of comparable UV offerings, and with a significantly reduced maintenance footprint, the Wafer generator delivers an easy to install and retrofit solution that won't take up a lot of room at all.

Not only does the Wafer UV generator represent the most compact UV solution available on the market, it features a highly optimized generator design and leading power electronics technology making it one of the most efficient and highest performing generators on the market. The Wafer generator is designed to provide 99.9% inactivation of virus-resistant microorganisms such as Cryptosporidium and Giardia.

Generators will also benefit from the inclusion of the Spectra™ control system as standard which includes a wide range of features such as data logging, monitoring, process, manual, and programmable safety. A key safety protocol includes variable power stepping from 100% to 30% at no extra cost, a feature operators use to optimize the operational power of their system to match filter status and pool operating schedules.

In addition, the Spectra™ controller features a reactive boost function that automatically operates the lamps at maximum power from a combined alarm signal, when teamed with a suitable chlorine controller. This is a feature specifically designed for swimming pool applications to break down problematic chloramines as soon as they are detected, significantly improving water quality and eliminating the cause of stinging, chemical stinging, and burning eyes, skin and material corrosion.

THE WAFER UV DISINFECTION GENERATOR OFFERS A COMPACT UV TREATMENT SOLUTION FOR CAPABILITIES OF 50 M<sup>3</sup>/HR - 700 M<sup>3</sup>/HR IN A SINGLE HIGH OUTPUT UV GENERATOR



### PERFORMANCE AND INSTALLATION

- Smaller installation footprint
- More compact electrical installation
- More efficient and enhanced power control
- Higher performance
- Longer life span and less on
- Increased safety
- Modularity



## WAFER™ DATA SHEET

GENERATOR	WF-100-3	WF-100-4	WF-100-5	WF-100-6	WF-100-8	WF-100-10	WF-100-15	WF-100-20	WF-100-30
Capacity	100 M <sup>3</sup> /HR	100 M <sup>3</sup> /HR	100 M <sup>3</sup> /HR	100 M <sup>3</sup> /HR	100 M <sup>3</sup> /HR	100 M <sup>3</sup> /HR	100 M <sup>3</sup> /HR	100 M <sup>3</sup> /HR	100 M <sup>3</sup> /HR
UV Chamber Specification									
UV Chamber Material	Quartz	Quartz	Quartz	Quartz	Quartz	Quartz	Quartz	Quartz	Quartz
UV Chamber Length	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm
UV Chamber Diameter	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm
UV Chamber Volume	0.0785 m <sup>3</sup>	0.0785 m <sup>3</sup>	0.0785 m <sup>3</sup>	0.0785 m <sup>3</sup>	0.0785 m <sup>3</sup>	0.0785 m <sup>3</sup>	0.0785 m <sup>3</sup>	0.0785 m <sup>3</sup>	0.0785 m <sup>3</sup>
UV Chamber Power	100 W	100 W	100 W	100 W	100 W	100 W	100 W	100 W	100 W
UV Chamber Voltage	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC
UV Chamber Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
UV Chamber Current	0.43 A	0.43 A	0.43 A	0.43 A	0.43 A	0.43 A	0.43 A	0.43 A	0.43 A
UV Chamber Power Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
UV Chamber Efficiency	100%	100%	100%	100%	100%	100%	100%	100%	100%
UV Chamber Lifetime	10,000 hours	10,000 hours	10,000 hours	10,000 hours	10,000 hours	10,000 hours	10,000 hours	10,000 hours	10,000 hours
UV Chamber Warranty	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years
UV Chamber Maintenance	Low	Low	Low	Low	Low	Low	Low	Low	Low
UV Chamber Installation	Easy	Easy	Easy	Easy	Easy	Easy	Easy	Easy	Easy
UV Chamber Operation	Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple
UV Chamber Control	Spectra™	Spectra™	Spectra™	Spectra™	Spectra™	Spectra™	Spectra™	Spectra™	Spectra™
UV Chamber Safety	High	High	High	High	High	High	High	High	High
UV Chamber Compliance	CE	CE	CE	CE	CE	CE	CE	CE	CE
UV Chamber Certification	UL	UL	UL	UL	UL	UL	UL	UL	UL
UV Chamber Approval	AS/NZS	AS/NZS	AS/NZS	AS/NZS	AS/NZS	AS/NZS	AS/NZS	AS/NZS	AS/NZS
UV Chamber Standard	ISO 9001	ISO 9001	ISO 9001	ISO 9001	ISO 9001	ISO 9001	ISO 9001	ISO 9001	ISO 9001
UV Chamber Quality	High	High	High	High	High	High	High	High	High
UV Chamber Reliability	High	High	High	High	High	High	High	High	High
UV Chamber Durability	High	High	High	High	High	High	High	High	High
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UV Chamber Power Factor	High	High	High	High	High	High	High	High	High
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UV Chamber Lifetime	High	High	High	High	High	High	High	High	High
UV Chamber Warranty	High	High	High	High	High	High	High	High	High
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UV Chamber Maintenance	High	High	High	High	High	High	High	High	High
UV Chamber Installation	High	High	High	High	High	High	High	High	High
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UV Chamber Certification	High	High	High	High	High	High	High	High	High
UV Chamber Approval	High	High	High	High	High	High	High	High	High
UV Chamber Standard	High	High	High	High	High	High	High	High	High
UV Chamber Quality									



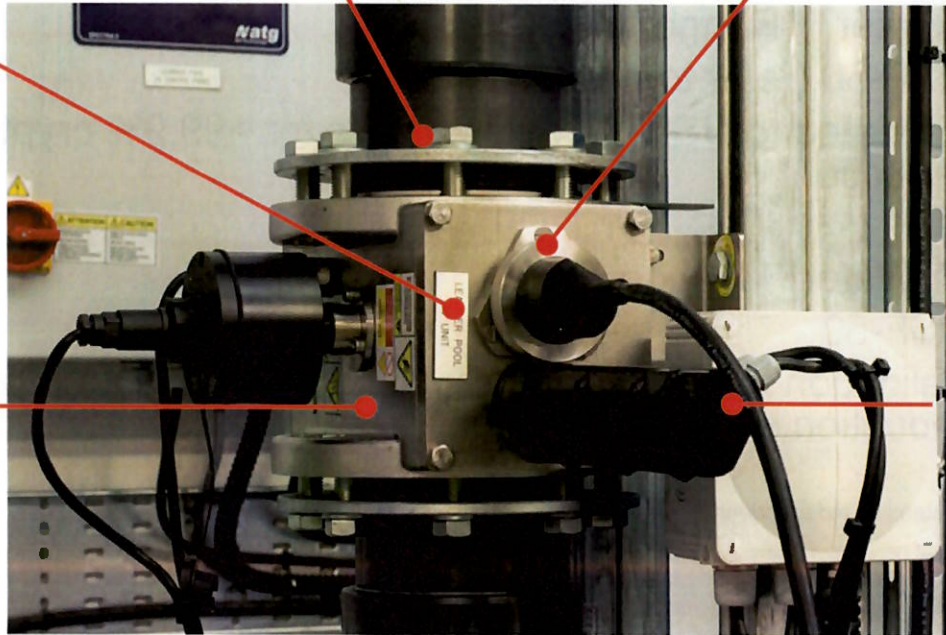
# Product View

Maintenance access from one end

Short compact unit for easier installation; vertical or horizontal

TwistLok™ plug & play with mechanical interlock & improved quartz seal compression =  
Safer, improved reliability & faster maintenance

3<sup>rd</sup> party validated



PulseLok wiper removes need for limit switches, smaller & easier to maintain, high reliability & simple calibration

## Certified & Validated

- 3-8" Wafer™ Range
  - NSF-50 (refer to next slide)
  - Validated to USEPA requirements for >99.9% crypto reduction\*
- 10-12 Wafer™ Range
  - NSF-50
  - Validation to USEPA requirements for >99.9% crypto reduction expected by April 2020\*



\* Testing conducted by independent 3<sup>rd</sup> party laboratory

# NSF-50 Certification

## atg UV Technology Ltd.

Genesis House, Pemberton Business Cntr  
Richmond Hill Wigan, Lancashire  
WN5 8AA  
United Kingdom  
44 194 221 6161  
[Visit the company's website](#)



Facility : Lancashire, United Kingdom

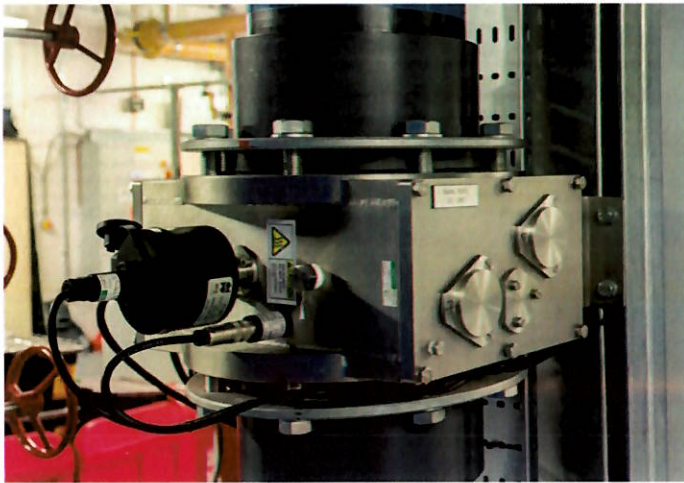
### Ultraviolet Light Process Equipment

Trade Designation	Maximum Flow Rate (gpm)	Disinfection	End Use
UV Generators <sup>[1]</sup>			
WF 115-3-N	220	Supplemental	Pool or Spa/Hot Tub
WF 115-4-N	346	Supplemental	Pool or Spa/Hot Tub
WF 125-6-N	616	Supplemental	Pool or Spa/Hot Tub
WF 215-6-N	860	Supplemental	Pool or Spa/Hot Tub
WF 215-8-N	1100	Supplemental	Pool or Spa/Hot Tub
WF 225-8-N	1673	Supplemental	Pool or Spa/Hot Tub
WF 230-10-N	1981	Supplemental	Pool or Spa/Hot Tub
WF 430-12-N	3082	Supplemental	Pool or Spa/Hot Tub

[1] Product has met the requirements of NSF/ANSI 50, Annex B.1: Disinfection Efficacy for the >= 3 log reduction of *Enterococcus faecium* (ATCC #6959) and *Pseudomonas aeruginosa* (ATCC #27313).  
This product is intended for supplemental disinfection and should be used with registered or approved disinfection chemicals to impart residual concentrations in accordance with state and local regulations.  
This product has not been evaluated to the cryptosporidium inactivation requirements of NSF/ANSI 50.

## Innovative Chamber

Simpler to design into mechanical rooms with limited space...



- Installed length between flanges under 8" – ½ that of conventional UV units
- Vertical or horizontal installation
- Maintenance access from one side of unit



# High Performance Electronic Ballasts

## “EB” Advantages

- Smaller, lighter & more electrically efficient
- Improved lamp power control: Variable 30-100%
- Wider voltage/frequency range\*
- Improved power factor
- Simplified control panel build
- Simplified commissioning & maintenance



\* Refer to technical data sheet for details on supported voltages & frequencies. Wafer™ voltage ranges designed to cover most customer requirements as standard.

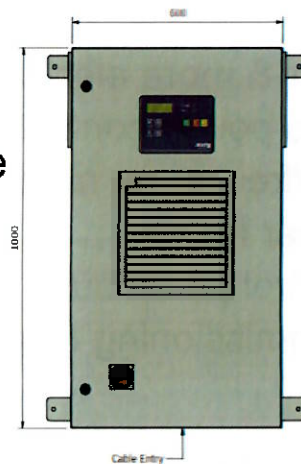
# Redesigned Control Panel

## Optimized layout

- Smaller & lighter
- Consumes less wall space
- Weighs less for installers

## Spectra 3 Controller

- Membrane HMI
- Web connectivity



ECF-215-6  
(165 lbs)



WF-215-6  
(77 lbs)

# Sizing Chart

PIPE	MODEL	LAMPS	POWER	POWER SUPPLY	BREAKER	GPM*	
						60 mj/cm2	40 mj/cm2
3"	WF-115-3-N	1 x 1.5 kW	1.5 kW	1 Ph + E 208/220/230/240V (50/60Hz)	20 A	211	242
4"	WF-115-4-N	1 x 1.5 kW	1.5 kW	1 Ph + E 208/220/230/240V (50/60Hz)	20 A	361	396
6"	WF-125-6-N	1 x 2.5 kW	2.5 kW	1 Ph + E 208/220/230/240V (50/60Hz)	30 A	616	660
6"	WF-215-6-N	2 x 1.5 kW	3.0 kW	1 Ph + E 208/220/230/240V (50/60Hz)	30 A	810	880
8"	WF-215-8-N	2 x 1.5 kW	3.0 kW	1 Ph + E 208/220/230/240V (50/60Hz)	30 A	1,012	1,100
8"	WF-225-8-N	2 x 2.5 kW	5.0 kW	1 Ph + E 208/220/230/240V (50/60Hz)	32 A	1,386	1,540
10"	WF-230-10-N	2 x 3.0 kW	6.0 kW	3 Ph + E 380/400/415/440/480V (50/60Hz)	30 A	1,980	2,200
12"	WF-430-12-N	4 x 3.0 kW	12.0 kW	3 Ph + E 380/400/415/440/480V (50/60Hz)	40 A	3,080	3,520

\* 60 mj/cm2 Calc (NSF) & 3 log Crypto | 40 mj/cm2 Calc & 3 log Crypto

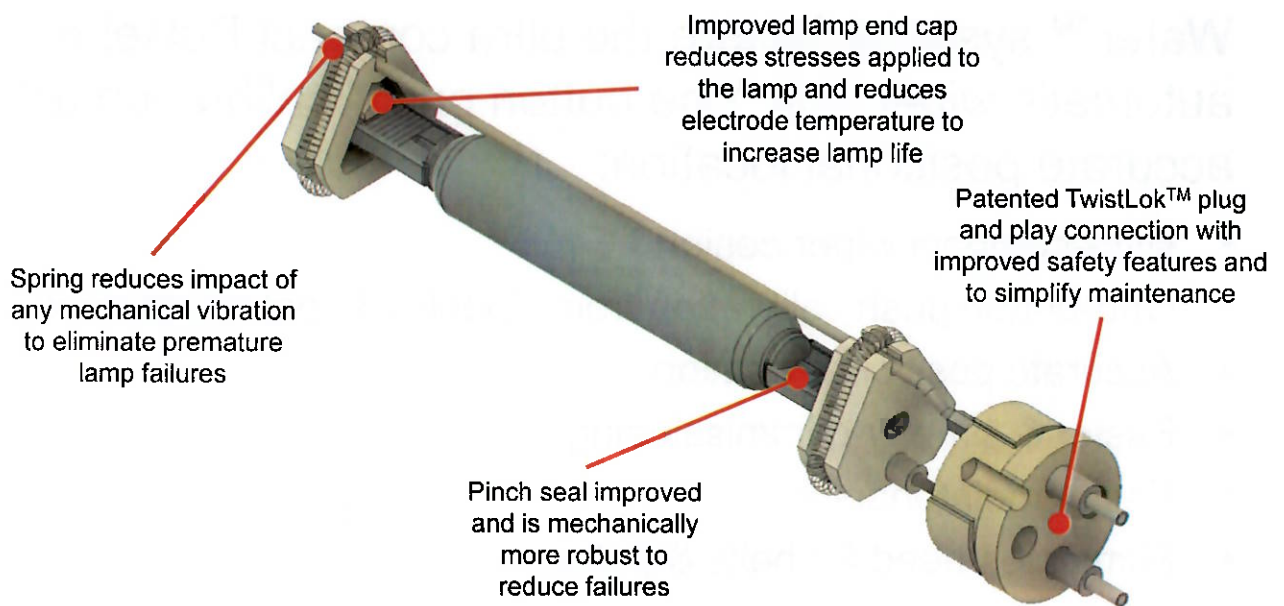
Testing conducted by independent 3<sup>rd</sup> party laboratory to confirm minimum inactivation equivalent of 3 log (99.9%) cryptosporidium parvum in accordance with US EPA UV DGM.

3-8" Range available now! | 10-12" Range expected by 05/01/2020

## TwistLok® Lamps & Seals

- Makes maintenance easier and safer
- Mechanical safety interlock for lamp removal
- Simple faster plug & play lamp connection
- Improved seal arrangement for faster quartz maintenance with reduced risk of breakage

# Improved Lamp Design





## PulseLok Automatic Wiper

Wafer™ systems feature the ultra compact PulseLok automatic wiper with “one button push” calibration using accurate positional location:

- Ultra-compact wiper design
- One-button push calibration from Spectra 3 control interface
- Accurate positional location
- Faster & simpler commissioning
- Easier maintenance
- Eliminates need for belts & pulleys
- Eliminates removing parts for lamp maintenance

# Summary

- Key Objectives
  - Aggressively increase market share and expand our installed base
  - Establish specification, sizing and design early
  - Emphasize combined chlorine reduction
- Sales Channels
  - Use only the best manufacturer's reps and service contractors
- Our Pledge
  - Offer competitive pricing on projects where we are spec'd
  - Maintain reliable lead times and expedite parts orders
  - Continue to support all installations past and future





**eVOQUA**

WATER TECHNOLOGIES

**WIN TOGETHER.  
SUPPORT TOGETHER.  
PROFIT TOGETHER.**



**TRANSFORMING WATER. ENRICHING LIFE.**

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May 28, 2019

Sarah Mate-Director of Community Services  
Parkland County  
53109A SH 779  
Parkland County, Alberta  
T7Z 1R1

Dear Sarah:

This letter and attachments will serve to confirm the Parkland County 2018 operating contribution to the Town of Stony Plain for the Glenn Hall Centennial Arena and request for capital contribution to anticipated upcoming projects in 2020, 2021, 2022.

In 2018 the Glenn Hall Centennial Arena had an operating deficit of \$323,826.12 (breakdown attached). Also attached are the 2018/19 ice season user statistics which indicate that 38.86% of the ice users were Parkland County residents. Based on the funding formula in the agreement, the contribution from Parkland County is determined as follows:

“Operating Deficit for the previous year, times the percentage of Parkland Users to a maximum of \$99,088”

$$\$323,826.12 \times 38.86\% = \$123,989.09$$

Based on the cost share agreement the contribution from Parkland County for 2018 is **\$99,088**

Upcoming 2020 capital projects that are being submitted for approval (estimated approval December, 2019) are:

Ice Plant Compressor Overhaul (1)	\$10,000
Radiant Heaters	\$50,000

2021 capital projects	
Arena Kick Strip	\$9,000
Condenser	\$150,000
Water Pump Booster	\$14,000
Boiler	\$15,000

2022 capital projects	
Ice Plant Compressor Overhaul (1)	\$9000



I trust the information in this letter is satisfactory. Please feel free to contact me at 780 963 8594 or via e-mail at [d.carter@stonyplain.com](mailto:d.carter@stonyplain.com) if you have any questions or concerns.

Sincerely,

Darcy Carter  
Facilities Supervisor  
Community and Protective Services