formerly Aquionics, Berson, Hanovia and Orca GmbH

PROLINE WW IL

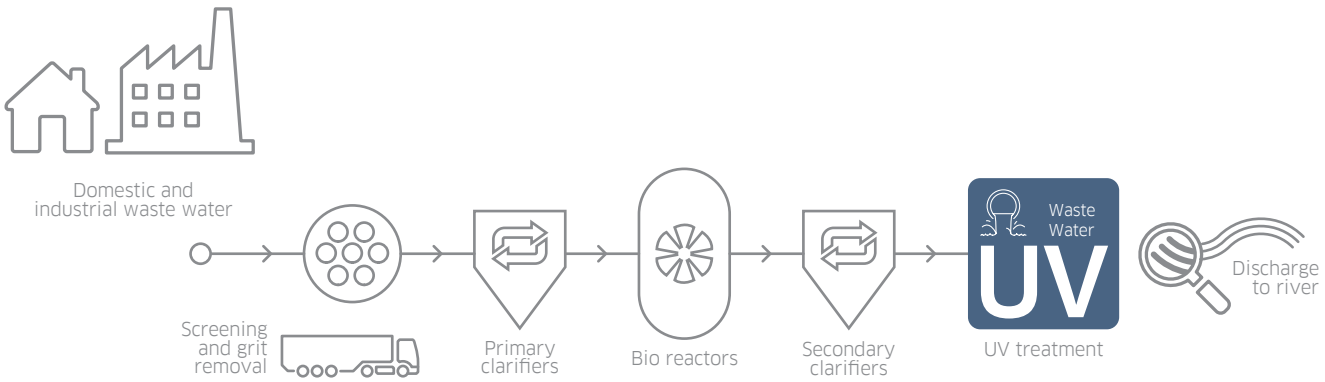
UV TREATMENT FOR WASTE WATER

Our **ProLine WW IL** UV systems for UV treatment of waste water are suited to low UVT applications and can be deployed after clarifiers, sand filters and membranes.

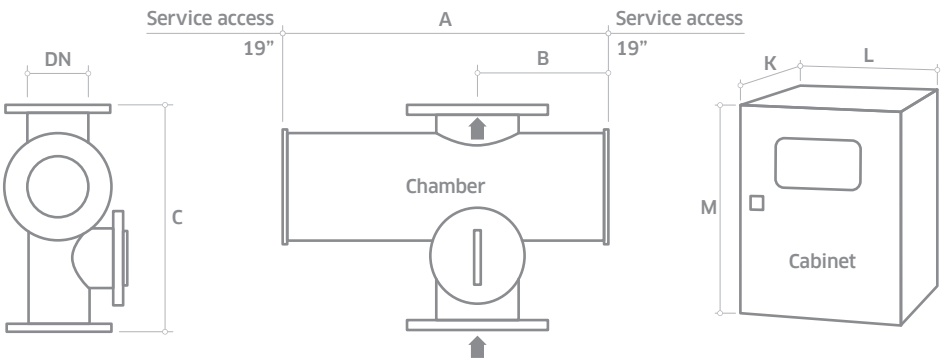
The ProLine WW IL are compact medium pressure lamps systems and are intended as a cost effective treatment for standard discharge applications.

Application Optimized UV for Waste Water

POTENTIAL LOCATION OF THE PROLINE WW IL™ IN WASTE WATER TREATMENT PLANT PROCESS



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
INTELLIGENCE		
Dry DVGW approved UV sensor measuring active wavelengths	Continuous verification of performance with real time dose reading and in-built low dose warning	Easy to monitor
Flow meter input	Dose reading based on actual flow conditions when meter is connected	Accurate UV dose reading guaranteed under wide range of operating conditions
OPTIMIZATION		
UV waste water treatment	UV treatment for standard discharge applications	Suited to low UVT waste water after clarifiers, sand filters or membranes
Designed for municipal and industrial reuse and waste water applications	Flanged connections, high standard internal finish	Designed to international standards
	Automatic wiper (quartz cleaning)	Self cleaning to maintain performance
	*Ultrawipe (chemically enhanced wiper)	Clean quartz sleeves despite high fouling potential
INTEGRATION		
Compact design	Can be retrofitted to existing process	Easy integration
*Option		



* Allow dimension L in front of cabinet for door opening and panel access.

** M dimension includes the space for the cabinet mounting brackets but you need to allow space below the cabinet for cable entry and access (minimum of 9.8").

*** CC: Control cabinet, PC: Power cabinet

[a] Attention: the optional cabinet with A/C is bigger. Ask for dimensions.

All dimensions are approximate for clearance purposes only. We have a policy of continuous product development, exact drawings are available on request. All specifications are subject to change without notification. Your distributor or our account manager can advise on correct sizing and specification requirements.

MODEL NUMBER	MAX POWER (KW)	NO OF LAMPS	DIMENSIONS (INCHES)								APPROX WEIGHT (LB)	
			Chamber				Cab.	Cabinet (fan cooled)[a]			Chamber	Cabinet
			A	B	C	DN	No***	K*	L	M**	Empty	Fan cooled
ProLine WW IL 100	1.8	2	30.7	12.2	15.7	4	1	13.84	31.5	49.02	93	170
ProLine WW IL 250	5.6	2	30.7	12.2	21.3	6	1	13.84	39.37	56.89	121	286
ProLine WW IL 400	11	4	30.7	12.2	18.3	6	1	13.84	39.37	56.89	121	286
ProLine WW IL 1000	11	4	30.7	12.2	23.6	8	1	13.84	39.37	56.89	176	286
ProLine WW IL 1250	16.5	6	30.7	12.2	23.6	8	1	13.84	47.24	49.02	176	300
ProLine WW IL 4500	26	6	35.3	14.5	31.5	14	1	26.09	47.53	83.05	375	683
ProLine WW IL 5000	35	8	35.3	14.5	31.5	14	1	26.09	47.53	83.05	375	683
ProLine WW IL 7500	52	12	35.3	14.5	31.5	14	1 CC	26.09	31.77	78.98	375	396
							1 PC	26.09	47.53	83.05		793
ProLine WW IL 14000	52	8	41.4	17.6	35.4	20	1 CC	26.09	31.77	78.98	573	396
							1 PC	26.09	47.53	83.05		793
ProLine WW IL 15000	52	12	41.4	17.6	35.4	20	1 CC	26.09	31.77	78.98	573	396
							1 PC	26.09	47.53	83.05		793
ProLine WW IL 16000	78	12	41.4	17.6	35.4	20	1 CC	26.09	31.77	78.98	573	396
							2 PC	26.09	47.53	83.05		793
ProLine WW IL 18000	117	18	41.4	17.6	35.4	20	1 CC	26.09	31.77	78.98	595	396
							3 PC	26.09	47.53	83.05		793

UV CHAMBER

Material:	StSt 316L / 1.4404
Internal finish:	< 0.8 µm Ra, welds ground out, electropolished and passivated
External finish:	Brushed to K280, electropolished and passivated
Process (mating) connections:	Flange ANSI 150
Drain connection:	NPT
Air vent connection	NPT
End plate:	Removable end plate
Inspection hatch:	Removable plate (except WW IL 100)
Degree of protection:	IP54 equivalent to NEMA 12
Wiper:	Automatic (electrically driven)
Lamps:	Medium pressure
Quartz Sleeves:	Pure quartz (F200)
Number of Lamps:	See table above
Expected lamp life:	10,000 hours
Temperature sensor:	Yes
UV sensor:	Dry DVGW compliant UV sensor (one per UV chamber)
Working fluid temperature:	33.8°F to 140°F
Hydrostatically pressure tested:	Yes
Chamber mounting:	Flow horizontal or vertical (lamps horizontal only)
Operating pressure:	145 psi (positive pressure only)
Seals:	EPDM, ADI free, EC 1935/2004, FDA 21 CFR 177.2600 approved

OPTIONS

Document Support Pack
Cabinet: Stainless steel 304
Cabinet: Stainless steel 304 with air conditioning (41°-122°F), NEMA 4X (IP66), Excl. 277V 1L+N, 2L & 3L, relative humidity <95% non-condensing*
Cabinet: Stainless steel 316 with air conditioning with sloping roof (41°-122°F), NEMA 4X (IP66), Excl. 277V 1L+N, 2L & 3L, relative humidity <95% non-condensing*
Operation and Maintenance manual and printed Installation and Commissioning manual in Chinese, English, French, German & Spanish
Flange options: PN16, JIS, Table 'E'
Lead length: 65.6 and 95.1 ft
In-field UV reference sensor kit
Bleed: valve with BSP connection or NPT if ANSI flange
Water level sensor: Full water detection UV chamber
Water leak detection: Detects water leaks from quartz sleeve

OPTIONS (CONTINUED)

Quartz sleeve F240 (reduces performance)
Ultrawipe (for WW IL 250-18000)
UV Touch™ controller (AB850 plc & Touchscreen)

CABINET (CONTROLLER UVTOUCH - AB850 PLC & TOUCHSCREEN)

Material:	Polyester coated carbon steel, RAL 7035
Degree of protection:	NEMA 12 (IP54)
Supply voltages:	IL 100 - 1250: 208V 3Ph 240V 1P+N 220V 1PH +N 277/480V 3P+N IL 4500 - 18000: 480V 3Ph
Operating temperature range:	41°F to 95°F
Relative humidity:	<85% non-condensing
Cooling fans:	Yes
Interconnecting cable:	32.8 ft
Variable power:	Stepless variable power (70% reduction from maximum ballast power)

***CC: Control cabinet, PC: Power cabinet Attention: the optional cabinet with A/C is bigger. Ask for dimensions.

HMI/CONTROL

Display:	Allen Bradley Panelview HMI, 7" Color Touch Screen
Operating menu:	3 levels (2 with password protection)
Fault finding:	Event log

CUSTOMER OUTPUTS

4-20 mA passive output:	UV dose, ballast power
VFC outputs:	Standby in remote, system standby, system cooling down, any trip, any warning, UV dose failure, system ready, wiper failure, lamp failure, full water level detection water leak, water temperature warning, water and cabinet temperature alarm

CUSTOMER INPUTS

4-20 mA active or passive inputs:	Flow meter and transmittance meter
VFC inputs:	Remote stop/start, remote clear message, remote wipe, remote set power high

CUSTOMER COMMUNICATIONS PORT

Ethernet

APPROVALS

CE marked, UL 508A

* See sales drawings for dimensions

ProLine WW IL

Also available in our Waste Water product range...

PROLINE PQ WW AL

Range of amalgam products with NWRI validation for waste water reuse

PROLINE PQ WW IL

Range of medium pressure products with NWRI validation for waste water reuse

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