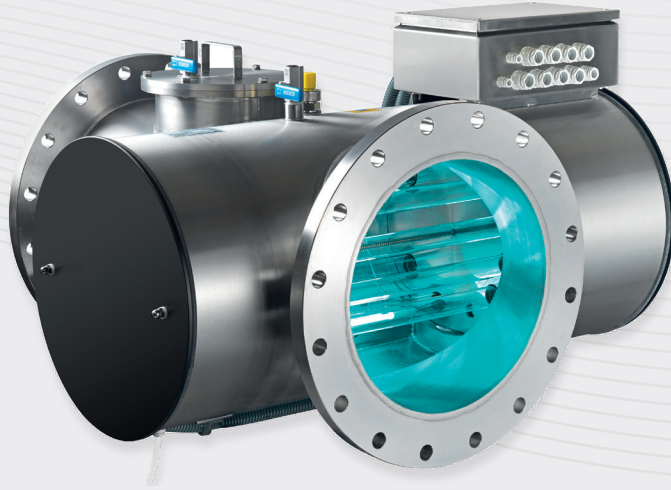




PROLINE PQ WW IL

**NWRI VALIDATED
UV TREATMENT FOR
WASTE WATER REUSE**

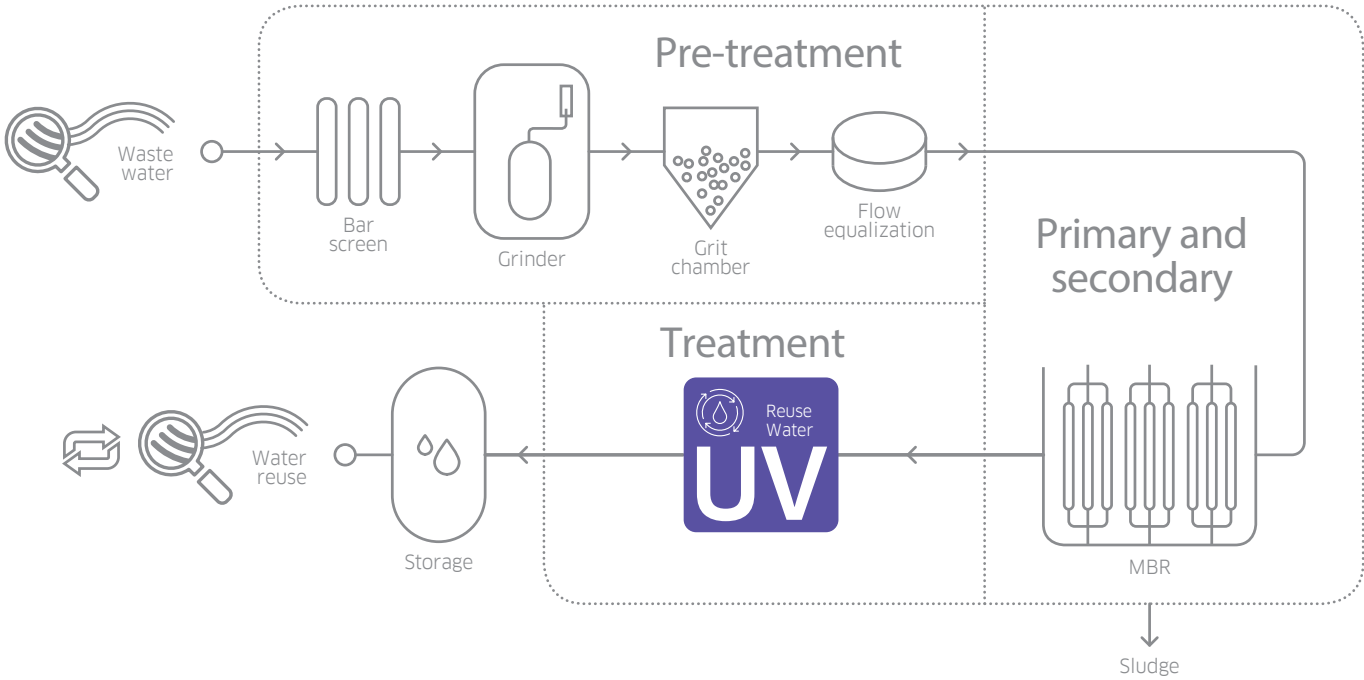
Our **ProLine PQ WW IL** range of Waste Water Reuse UV solutions have been protecting people and the environment from harmful contamination. UV offers a working substitute for chlorination while preventing potentially harmful by-products.

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

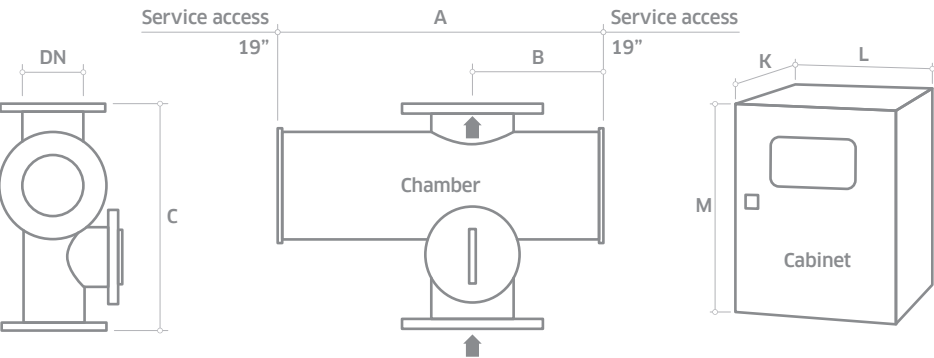


Application
Optimized UV for
Waste Water Reuse

POTENTIAL LOCATION OF THE PROLINE PQ WW IL™ IN A DECENTRALIZED TREATMENT SYSTEM



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	Protects the environment from harmful microbiological contamination	No chemicals
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 *Option	Can be retrofitted to existing process	Easy integration



- * 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
 - * Attention: the optional cabinet with A/C is bigger. Ask for dimensions.
 - b NWRI bioassay with approval per CA DDW
- 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 PQ WW IL 250	5.6	2	30.7	12.2	21.3	6	1	13.84	39.37	56.89	121	286
ProLine PQ WW IL 400*	11	4	30.7	12.2	18.3	6	1	13.84	39.37	56.89	121	286
ProLine PQ WW IL 1000	11	4	30.7	12.2	23.6	8	1	13.84	39.37	56.89	176	286
ProLine PQ WW IL 1250	16.5	6	30.7	12.2	23.6	8	1	13.84	47.24	49.02	176	300
ProLine PQ WW IL 4500	26	6	35.3	14.5	31.5	14	1	26.09	47.53	83.05	375	683
ProLine PQ WW IL 5000	35	8	35.3	14.5	31.5	14	1	26.09	47.53	83.05	375	683
ProLine PQ WW IL 7500	52	12	35.3	14.5	31.5	14	1 CC	26.09	47.53	78.98	375	396
							1 PC	26.09	31.77	83.05		793
ProLine PQ WW IL 16000 ^b	78	12	41.4	17.6	35.4	20	1 CC	26.09	47.53	78.98	573	396
							2 PC	26.09	31.77	83.05		793
ProLine PQ WW IL 18000 ^b	117	18	41.4	17.6	35.4	20	1 CC	26.09	47.53	78.98	595	396
							3 PC	26.09	31.77	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
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 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), relative humidity <95% non-condensing*
Cabinet: Stainless steel 316 with air conditioning with sloping roof (41°-122°F), NEMA 4X (IP66), relative humidity <95% non-condensing*
Operation and Maintenance manual and printed Installation and Commissioning manual in Chinese, English, French, German and Spanish
Flange options: PN16, JIS, Table 'E'
Cable length: 65.6 ft and 95.1 ft
In-field UV reference sensor kit
Bleed: Valve with BSP connection or NPT if ANSI flange
Ultrawipe
Water level sensor: UV chamber full water detection
Water leak detection: Detects water leaks from quartz sleeve
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:	PQ IL 250 - 1250: 208V 3Ph 240V 1P+N 220V 1PH +N 277/480V 3P+N
	PQ 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

Modbus RS 485 serial RTU for SCADA connection, Ethernet

APPROVALS

CE marked, NWRI validated (PQ WW IL 400, PQ WW IL 16000 and PQ WW IL 18000 are certified to NWRI 2012 Guidelines with a 3rd party bioassay), UL508A

* See sales drawings for dimensions



ProLine PQ WW IL

Also available in our Waste Water product range...



Range of amalgam
products with NWRI
validation for waste
water reuse



Range of compact
medium pressure
products for waste water
treatment

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