



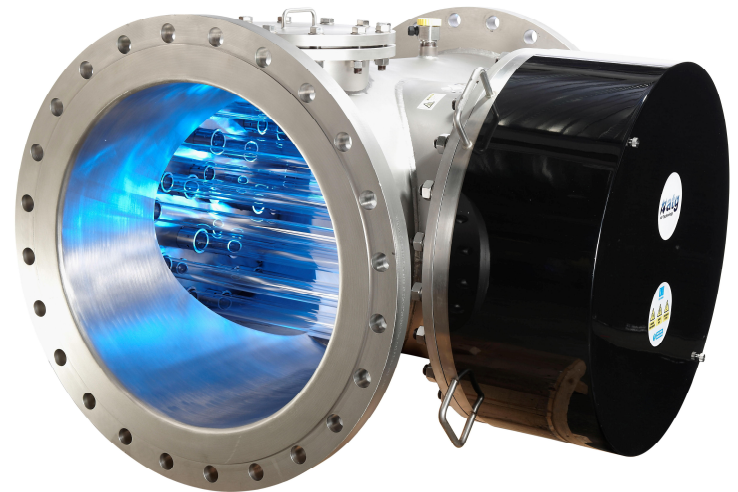
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WATER TECHNOLOGIES

DRINKING WATER REFERENCES

ATG Evoqua: World leading manufacturer of UV disinfection systems

- Global Business, Part of the Evoqua Water Technologies Group
- Supplying UV Systems since 1981
- 100% Design & Manufactured in the UK
- +35 Years experience in Drinking Water UV Disinfection
- >10,000 UV Installations worldwide
- ISO 9001, 14001 & 18001 Certified Manufacturer



ATG Evoqua: Example Large Flow, UV Disinfection Drinking Water Sites



Sutton & East Surrey Water

15,000 m³/hr Drinking Water

Red Hill WTW - London, UK



Bristol Water

11,100 m³/hr Drinking Water

Barrow WTW – Bristol, UK



Irish Water

15,700 m³/hr Drinking Water

Stillorgan WTW, Ireland

Large Flow, UV Disinfection Drinking Water Sites examples

Client	Location	UV Model	Validation	Flow Rate	Date
United Utilities	UK	SX	US EPA UVDGM	8,334 m3/hr	2020
Northumbria Water	UK	WF	US EPA UVDGM	5,625 m3/hr	2020
Irish Water	Ireland	SX Range	US EPA UVDGM	4,450 m3/hr	2019
South Staffordshire Water	UK	UVLX Range	US EPA UVDGM	2,737 m3/hr	2019
South Staffordshire Water	UK	UVLX Range	US EPA UVDGM	15,000 m3/hr	2018
South West Water	UK	SX Range	US EPA UVDGM	5,000 m3/hr	2018
Severn Trent Water	UK	UVLX	US EPA UVDGM	3,750 m3/hr	2018
Thames Water	UK	UVLX	US EPA UVDGM	4,300 m3/hr	2018
Thames Water	UK	UVLX	US EPA UVDGM	2,737 m3/hr	2017
Portsmouth Water	UK	UVLX	US EPA UVDGM	4,166 m3/hr	2017
United Utilities	UK	SX	US EPA UVDGM	5,000 m3/hr	2016
United Utilities	UK	SX	US EPA UVDGM	15,000 m3/hr	2016
Bristol Water	UK	UVLX	US EPA UVDGM	11,100 m3/hr	2016
South Staffordshire Water	UK	UVLX	US EPA UVDGM	10,000 m3/hr	2015
Irish Water	Ireland	SX	US EPA UVDGM	15,700 m3/hr	2015
Sutton & East Surrey	UK	SX	US EPA UVDGM	15,000 m3/hr	2010

Medium Flow, UV Disinfection Drinking Water Sites examples

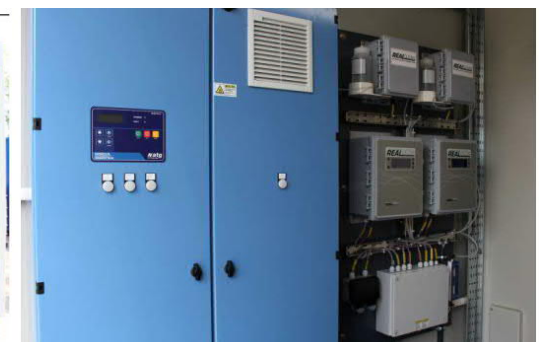
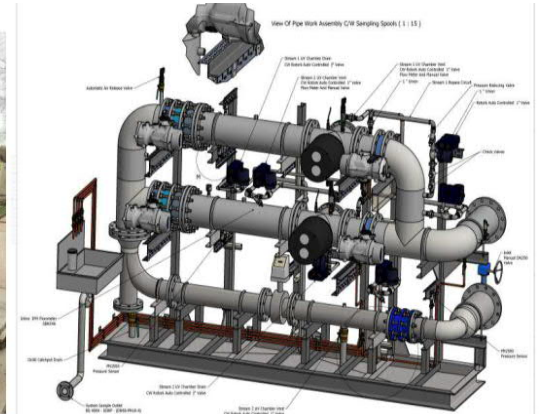
Client			Location	UV Model	Validation	Flow Rate	Date
Affinity Water - West Hyde	UK	SX-635-16	2	6 x 3.5 kW	US EPA UVDGM	1,200 m3/hr	2013
Affinity Water - Batch Work	UK	SX-635-16	2	6 x 3.5 kW	US EPA UVDGM	1,200 m3/hr	2013
Jersey Water - Kings Mill	UK	SX-635-16	2	6 x 3.5 kW	US EPA UVDGM	1100 m3/hr	2013
United Utilities - White Bull	UK	SX-635-16	2	6 x 3.5 kW	US EPA UVDGM	3,000 m3/hr	2015
United Utilities - Broughton	UK	SX-635-16	2	6 x 3.5 kW	US EPA UVDGM	3,000 m3/hr	2015
Jersey Water - Augres	UK	SX-635-16	1	6 x 3.5 kW	US EPA UVDGM	1,000 m3/hr	2014
South East Water	UK	SX-635-16 Container	1	6 x 3.5kw	US EPA UVDGM	1219 m3/hr	2017
United Utilities - Lancaster	UK	SX-635-16	1	6 x 3.5 Kw	US EPA UVDGM	748 m3/hr	2018
United Utilities - Quarry Hill	UK	SX-635-16	1	6 x 3.5Kw	US EPA UVDGM	707 m3/hr	2018
South Staffordshire Water - Hinksford	UK	SX-635-16	1	6 x 3.5Kw	US EPA UVDGM	1200 m3/hr	2018
Portsmouth Water - Eastergate	UK	UVLX-16800-20	2	16 x 800 Watts	US EPA UVDGM	917 m3/hr	2017
Portsmouth Water- Westergate	UK	UVLX-16800-20	2	16 x 800 Watts	US EPA UVDGM	917 m3/hr	2017
Southern Water	UK	SX850-20 + PLC	1	8 x 5.0 Kw	US EPA UVDGM	1248 m3/hr	2017
Southern Water - Beauport	UK	SX-850-20	2	8 x 5.0 kW	US EPA UVDGM	1,250 m3/hr	2018
South East Water - Poverty Bottom	UK	SX-425-10	2	4 x 10 kW	US EPA UVDGM	600 m3/hr	2019
United Utilities - Barnacre	UK	SX-635-16	1	6 x 3.5 kW	US EPA UVDGM	1,200 m3/hr	2015
Biwater – Roodeplaat	South Africa	ECL-1430-20	2	14 x 3.0 kW	N/A	2,500 m3/hr	2005
Southern Water – Balsdean WTW	UK	UVM-78-10	3	1 x 7.8 kW	N/A	1,417 m3/hr	2003
Southern Water – Carisbrooke WTW	Isle of Wight	UVM-78-10	4	1 x 7.8 kW	N/A	958 m3/hr	2003

Emergency, Rapid deployment UV references



Client	Location	UV Model	QTY	Validation	Flow Rate (MLD)	Lead time
United Utilities	UK	SX-225-8	1	USEPA UVDGM	4.8	2 weeks
United Utilities	UK	SX-225-8	1	USEPA UVDGM	4.8	4 weeks
United Utilities	UK	SX-635-16	2	USEPA UVDGM	72	4 weeks
United Utilities	UK	SX-635-16	2	USEPA UVDGM	72	3 weeks
United Utilities	UK	SX-1873-30	3	USEPA UVDGM	360	7 weeks
United Utilities	UK	SX-425-10	1	USEPA UVDGM	12	3 weeks
Severn Trent Services	UK	3 x Duty/Standby UVLX-16800-20 containerised UV plant & ICA container	3	USEPA UVDGM	84	6 weeks
United Utilities	UK	3 x Duty/Standby SX-1250-20 containerised UV plant & ICA container	3	USEPA UVDGM	55	4 weeks
Southern Water	UK	SX-635-16 Skid mounted UV plant	1	USEPA UVDGM	15	2 weeks
United Utilities	UK	SX-635-16 Duty Only containerised UV plant	1	USEPA UVDGM	15	3 weeks
United Utilities	UK	SX-425-10 Duty Only Containerised UV plant	1	USEPA UVDGM	9.1	4 weeks
United Utilities	UK	SX-425-10 Duty Only Containerised UV plant	1	USEPA UVDGM	6.5	5 weeks
United Utilities	UK	SX-425-10	1	USEPA UVDGM	8	2 weeks
United Utilities	UK	SX-425-10	1	USEPA UVDGM	6	2 weeks
United Utilities	UK	SX-225-8	1	USEPA UVDGM	3.9	2 weeks
United Utilities	UK	SX-225-8	1	USEPA UVDGM	3.9	2 weeks
Glan agua (Ire)	UK	SX-225-8	2	USEPA UVDGM	5	2 weeks
Southern Water	UK	SX-425-10 Duty Standby only Containerised UV plant	1	USEPA UVDGM	10	3 weeks
Southern Water	UK	SX-425-10 Duty Standby only Containerised UV plant	1	USEPA UVDGM	10	4 weeks

Containerised UV systems



ATG Evoqua: Post Filter Outlet, UV Installation Experience Examples

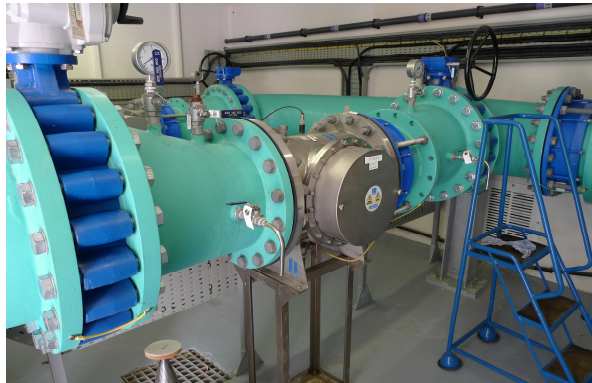


Northumbrian Water

5,625 m³/hr Drinking Water

Moss Wood WTW - London, UK

12 x WF UV System – Post Filter Outlet



United Utilities

8,334 m³/hr Drinking Water

Sutton & Huntington WTW – Lancashire, UK

22 x SX UV System – Post Filter Outlet



South Staffs Water

15,000 m³/hr Drinking Water

Hampton Load WTW, Staffordshire, UK

18 x UVLX UV System – Post Filter Outlet

**Largest UV Drinking Water Site in the UK*

Live Case studies

https://youtu.be/yOGCCa_gqSg

NorthEast UK – Mosswood Project

National Drinking water conference key-note speech and break out session.

You tube link above.



https://youtu.be/IHT_DGLMPEI

Central UK – Seedy Mill

Video in link above on large UV plant in Central England retrofitting Low pressure UV into existing plant.



ATG Evoqua: Highly Experienced in US EPA UVDGM Validation

- ✓ ATG Evoqua have +14 Years Experience with US EPA UVDGM Validation Standard.
- ✓ Experts in onsite validation to US EPA UVDGM, having project managed 35 x validation tests using bioassay validation with live surrogate microorganisms (MS2, T1) at specialist UV validation test centres over the last 14 years.
- ✓ Unrivalled inhouse expertise and experience in UV system design and performance testing to the Ultraviolet Disinfection Guidance Manual for the Final Long Term 2 Enhanced Surface Water Treatment Rule.





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THANK YOU