



Solutions for Disinfection and Oxidation

OVERVIEW OF WEDECO UV AND OZONE PRODUCTS

WEDECO





a xylem brand

Performance, reliability and energy savings







Leveraging the experience of more than 250,000 systems installed worldwide, Xylem’s Wedeco brand is a global leader providing reliable, chemical-free, and environmentally friendly water and wastewater treatment technologies, including ultraviolet (UV) disinfection and ozone oxidation systems. Wedeco systems accommodate customers’ individual requirements in the most efficient manner, whether for eliminating microorganisms in wastewater, disinfecting public drinking water, or treating process water for industrial purposes.

Xylem offers a range of advanced wastewater and water solutions to help operators around the world achieve their required water effluent quality while delivering optimal performance, reliable operations and substantial energy savings no matter what industry or application. Working with customers, Xylem listens, learns, and adapts to local environments, ensuring the best possible design customized to meet all specific needs.

UV Systems for Wastewater

Series / Flow Rate Capacity	Applications	Certification	Description	
TAK Smart Series Max. 1,000 m ³ /h (6.5 MGD)	<ul style="list-style-type: none"> Disinfection in open channels Biologically treated wastewater Aquaculture Process water Wastewater reuse 	USEPA validated	Packaged open channel UV system incl. Wedeco Ecoray® lamps arranged parallel to the flow with optional channel in stainless steel for a “plug and play” installation.	
LBX Series Max. 2,100 m ³ /h (13.5 MGD)	<ul style="list-style-type: none"> Biologically treated wastewater Process water Drinking water with low UV transmittance Wastewater reuse Sugar syrup Ballast water Advanced oxidation process 	USEPA, NWRI validated; NSF61 certified	Stainless steel reactor with tightly packed multiple Wedeco Ecoray® lamps arranged parallel to the flow.	
TAK55 Series Over 10,000 m ³ /h (> 60 MGD)	<ul style="list-style-type: none"> Disinfection in open channels Wastewater Wastewater reuse Aquaculture 	USEPA, NWRI validated	UV modules with Wedeco Ecoray® lamps arranged parallel to the flow, designed for installation in concrete channels.	
Duron Series Over 10,000 m ³ /h (> 60 MGD)	<ul style="list-style-type: none"> Disinfection in open channels Wastewater Wastewater reuse Aquaculture Stormwater overflows 	USEPA, NWRI validated	UV modules with Wedeco Ecoray® lamps vertically inclined at 45° including an integrated automatic lifting device designed for installation in concrete channels.	

UV Systems for Drinking Water or Process Water

Series / Flow Rate Capacity	Applications	Certification	Description
Aquada Series Max. 13 m ³ /h (59 GPM)	<ul style="list-style-type: none"> • Drinking water for private homes, schools, farms, hotels, hospitals, etc. • Air conditioning systems • Aquaculture (fresh water) 	WRAS certified	Single lamp UV system in electropolished stainless steel vessel. 
BX Series Max. 530 m ³ /h (3.4 MGD)	<ul style="list-style-type: none"> • Private and municipal drinking water supply • Process water for industrial use • Food and beverage • Aquaculture (fresh water) • Swimming pools 	WRAS certified	Stainless steel reactor with multiple Wedeco Ecoray® lamps arranged parallel to the flow. 
Spektron Series Max. 4,150 m ³ /h (26.5 MGD)	<ul style="list-style-type: none"> • Private and municipal drinking water supplies • Process water for industrial use • Food and beverage • Aquaculture (fresh water) • Swimming pools • Advanced oxidation process 	USEPA, DVGW, ÖVGW, SVGW validated; WRAS, NSF61 certified	Stainless steel reactor with OptiCone™ flow diverter and single or multiple Wedeco Ecoray® lamps arranged parallel to the flow. 
Quadron Series Max. 4,000 m ³ /h (25.4 MGD)	<ul style="list-style-type: none"> • Municipal drinking water supplies • Aquaculture (fresh water) • Advanced oxidation process 	USEPA, DVGW validated; WRAS, NSF61 certified	Stainless steel reactor with OptiCone™ flow diverter and multiple medium pressure UV lamps arranged perpendicular to the flow. 
K Series Over 11,000 m ³ /h (>70 MGD)	<ul style="list-style-type: none"> • Municipal drinking water supplies • Advanced oxidation process 	USEPA validated; WRAS, NSF61 certified	Stainless steel reactor with multiple rows of Wedeco Ecoray® lamps arranged perpendicular to the flow. 
ME Pharma Series Max. 100 m ³ /h (450 GPM)	<ul style="list-style-type: none"> • Purified water systems in pharmaceutical industry • Process water and fully deionized water for industrial uses • Disinfection and residual ozone destruction 		Quartz glass reactor with Wedeco Spektrotherm® lamps arranged outside of the quartz sleeve including special reflectors (positive irradiation geometry). 
B-PE / BX-PE Series Max. 415 m ³ /h (2.6 MGD)	<ul style="list-style-type: none"> • Sea water • Corrosive media • Aquaculture • Thermal springs • Swimming pools 		Polyethelene (HDPE) reactor with multiple Wedeco Spektrotherm® or Ecoray® lamps arranged parallel to the flow. 
TE Series	<ul style="list-style-type: none"> • Prevention of bacteria growth in water tanks • Headroom disinfection in storage tanks • Air and surface disinfection 		Single Wedeco Spektrotherm® lamp system for installation in tanks. 

Ozone Systems

Series / Flow Rate Capacity	Applications	Description
WEL Series 0 - 4 g/h of O ₃ (0 - 0.2 PPD)	<ul style="list-style-type: none"> Disinfection of ultrapure water in the pharmaceutical, cosmetics and semiconductor industries 	Ozone production by means of electrolysis directly in the water flow. 
Modular Series 2 - 6 g/h of O ₃ (0.1 - 0.3 PPD)	<ul style="list-style-type: none"> Disinfection of drinking and process water Elimination of taste and odor Oxidation of iron and manganese Food and beverage 	Small ozone system housed inside a cabinet with fixed production capacities. 
Modular HC Series 0.2 - 8 g/h of O ₃ (0 - 0.42 PPD)	<ul style="list-style-type: none"> Disinfection of drinking and process water Elimination of taste and odor Oxidation of iron and manganese Food and beverage 	Small ozone system housed inside a cabinet with adjustable production capacities. 
GSO Series 3 - 400 g/h of O ₃ (1 - 21 PPD)	<ul style="list-style-type: none"> Disinfection of drinking and process water Elimination of taste and odor Oxidation of iron and manganese Food and beverage Laminating and coating 	Compact ozone system completely assembled within a cabinet with adjustable production capacities. 
OCS Systems 0.2 - 200 g/h of O ₃ (0 - 10.5 PPD)	<ul style="list-style-type: none"> Disinfection of drinking and process water Elimination of taste and odor Oxidation of iron and manganese Aquaculture Food and beverage Advanced oxidation process 	Skid mounted system including the ozone generator inside a cabinet, pump and injection system including piping, valves and monitoring. 
SMO Series 406 - 1,100 g/h of O ₃ (21.4 - 58 PPD)	<ul style="list-style-type: none"> Disinfection of drinking and process water Wastewater (municipal/industrial) Elimination of taste and odor Oxidation of iron and manganese Laminating and coating Aquaculture Advanced oxidation process 	Ozone system inside an air conditioned cabinet with automatic process control. Available as skid mounted and containerized version. 
SMO evo Series 438 - 23,800 g/h of O ₃ (15.5 - 1,440 PPD)	<ul style="list-style-type: none"> Disinfection of drinking and process water Wastewater (municipal/industrial) Elimination of taste and odor Oxidation of iron and manganese Breakdown of pesticides, pharmaceuticals and other microcontaminants Laminating and coating Advanced oxidation process 	Ozone system using Wedeco's Effizon®evo2G electrodes with automatic process control for maximum efficiency. Available as skid mounted and containerized version. 
PDO evo Series 6,100 - 277,000 g/h of O ₃ (395 - 14,421 PPD)	<ul style="list-style-type: none"> Disinfection of drinking and process water Wastewater (municipal/industrial) Elimination of taste and odor Oxidation of iron and manganese Breakdown of pesticides, pharmaceuticals and other microcontaminants Pulp bleaching Ozonolysis Advanced oxidation process 	High capacity ozone system using Wedeco's Effizon®evo2G electrodes for maximum efficiency with automatic process control. Available as skid mounted and containerized version. 