Wedeco LBX Series

THE IDEAL UV SOLUTION WHEN WASTEWATER IS UNDER PRESSURE

WEDECO

a xylem brand

Certified to meet industry and national standards. Customized to meet yours.

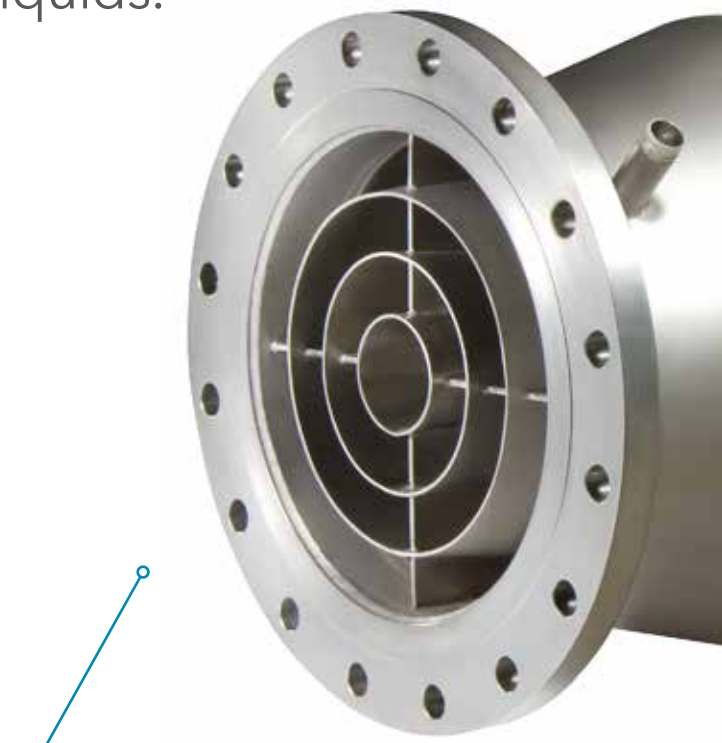
The Wedeco LBX Series is a thousand times proven, energy efficient solution for the disinfection of pressurized wastewater, surface water, process water and other low UV transmittance liquids.

Validated performance for applications from water to water reuse

LBX systems have been extensively tested to meet the U.S. Environmental Protection Agency's UV Disinfection Guidance Manual (USEPA's UVDGM 2006) and the National Water Research Institute (NWRI) guidelines, including the most stringent California Title-22 Water Reuse standards. The extensive validation envelope allows for proven disinfection performance over a wide range of UV transmittance (UVT) and a variety of target organisms including Adenovirus.

Highest efficiency and adaptability for various municipal and industrial treatment schemes

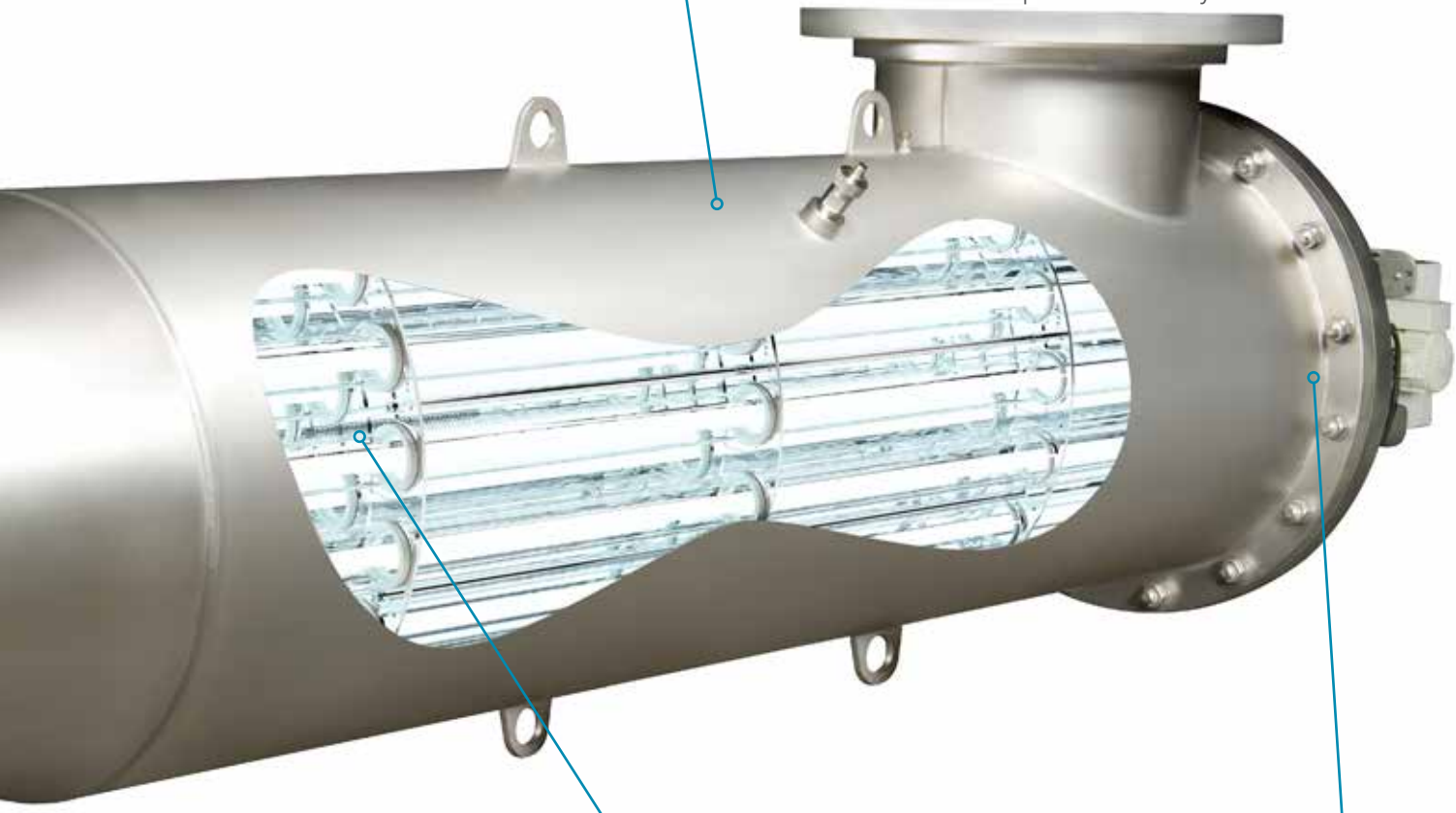
For improved economy and maximum sustainability LBX units employ Wedeco's low-pressure, high-output (LoHi) amalgam Ecoray® UV lamps. With numerous sizes for a wide range of flow rates and extensive options including alternative flange connectors and reactor shapes, cabinet types, various control modes, chemical free wiping system, and SCADA communications, the LBX Series is easily customizable to match specific site requirements.



Maximize Flexibility
Alternative shapes and flanges maximize the flexibility to fit in site-specific arrangements. L shape units also feature the patented OptiCone flow diverter that optimizes hydraulics no matter of inlet piping conditions.

Save Energy
UV sensor-based OptiDose™ closed-loop UV control allows energy savings up to 20% by adjusting the output to match water quality and flow in real time. This avoids over dosage and reduces overall operating cost without compromising disinfection performance.

Simplify Operation
The unique EcoTouch controller unifies all sensor signals, alarms, SCADA connectivity and OptiDose closed loop control to maximize operator usability.



Improve Performance
Exclusive Ecoray Technology perfectly matches UV lamps and ballasts to deliver the highest efficiency, longer lamp life, shorter warm-up time and excellent dimming mode properties to do the job. More stable and sustainable by reduced mercury content, Ecoray lamps are an environmentally friendly choice that can help reduce your carbon footprint.

Reduce Costs
The automatic wiping system maintains maximum sleeve transmittance resulting in peak efficiency. By keeping the sleeves clean, the system uses less energy and lowers operational costs.

Wedeco LBX Series FLEXIBLE SOLUTIONS TO FIT YOUR SPECIFIC NEEDS

LBX Series - System Specification								
Model #	**90**	**120**	**200**	**400**	**550**	**850**	**1000**	**1500**
Standards	CE, UL, cUL							
Flow Rate (m^3/h / GPM)**	83 / 365	127 / 559	216 / 951	347 / 1528	536 / 2360	717 / 3157	911 / 4011	1346 / 5926
Bioassay Tested	Yes *	N/A		Yes *	N/A	Yes *		
UV Lamps and Monitoring System								
Power Per Lamp (W) Approx.	315							
Number of UV Lamps	4	6	10	16	24	32	40	60
Lamp Certification	3rd Party on Aging and UV-C Output							
UV Intensity Monitoring	Germicidal, ÖNORM Compliant							
Dose Pacing (Variable Power)	Optional							
Individual Lamp Monitoring	Yes							
UV Reactor								
Protection Class	IP 65 / NEMA 4X							
Automatic Wiping System	Optional							
Reactor Material	Stainless Steel 1.4404 / 1.4435 (ASTM 316L)							
Flange Sizes	DN 150 / ANSI 6"		DN 200 / ANSI 8"	DN 250 / ANSI 10"	DN 300 / ANSI 12"	DN 400 / ANSI 16"		DN 500/ ANSI 20"
Reactor Shape	U or Z					L	U or Z	L
Reactor Length (MM / Inch) Approx.	1530 / 60		1540 / 61			2400 / 95		
Operating Pressure (Bar/ PSI), Max.	16 / 232	10 / 145						
UV System Contol Cabinet								
Controller	EcoTouch or PLC							
Common Outputs	System Status, Lamp Status, Alarm Messages, Process Values							
Bus Communication	Yes							
Protection Class	IP 54 / cUL Type 12 (4X Optional)							
Supply Voltage (V / V / Hz)	CE: 400/230 +/- 10%, 50 Hz (TN-S Net) cUL: 480/277 +/- 10%, 60 Hz (5 Wire WYE; L1,L2,L3,N,GND)							
Power Consumption (kW) Approx.	1.72	2.38	3.7	5.69	8.33	11.19	13.84	20.57

* Compliant with NWRI and UVDGM protocol

** UV Dose according to the "point source summation" method: 40 mJ/cm^2; UVT = 65% per 1 cm at the end of the lamp lifetime.

WB031-896846 • Wedeco LBX Brochure • 10/2015 • NACT

xylem
Let's Solve Water

Xylem, Inc.
14125 South Bridge Circle
Charlotte, NC 28273
Tel 704.409.9700
Fax 704.295.9080
855-XYL-H2O1 (855-995-4261)

Wedeco is a brand of Xylem, whose 12,000 employees are addressing the most complex issues in the global water market.

www.xylem.com/treatment

© 2015 Xylem, Inc. All rights reserved. Wedeco is a trademark of Xylem Inc. or one of its subsidiaries.