



TAK 55 Smart™ UV System

THE MOST COST-EFFECTIVE SOLUTION FOR
WASTEWATER DISINFECTION USING UV LIGHT

WEDECO
a xylem brand

Ready to use UV disinfection for small treatment plants

The WEDECO TAK 55 Smart UV system makes the disinfection of low wastewater flows as easy and cost-effective as possible, without any compromise in quality or flexibility.

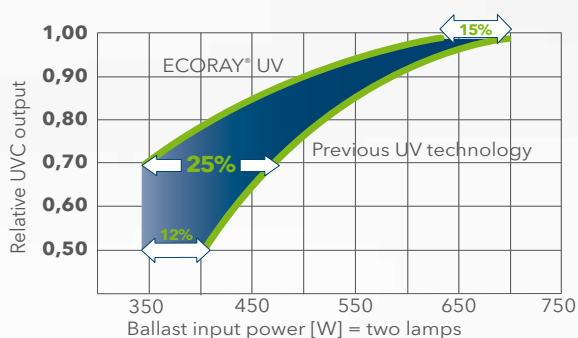
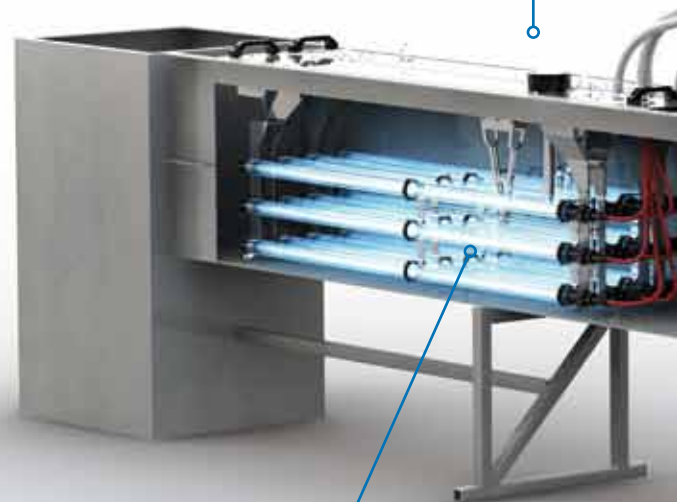
Similar to its big brother the TAK 55, 'TAK Smart' systems feature the same UV lamp configuration and set of common equipment options. Fully preassembled including the disinfection channel, it is available in ten sizes and can be customized with different types of channel material, single or double UV bank arrangement, an optional automatic wiping system, various cabinet designs as well as sophisticated UV monitoring & control features.

Equipped with WEDECO's latest ECORAY® high intensity low pressure (Hi-Lo) UV lamps and ballasts, the system provides reliable performance while minimizing energy consumption. Their low lamp count, coupled with the long service life of ECORAY lamps, results in exceptionally low maintenance costs.

To meet the highest UV disinfection standards, the system has been extensively tested in line with the latest IUVA protocol for the disinfection of secondary treated effluents. It even meets the most stringent validation requirements as outlined in the US EPA UVDGM 2006.

Altogether, the TAK 55 Smart is the perfect fit for small effluents of varying wastewater qualities: from sewer overflows to tertiary wastewater reclamation.

Optional second UV bank setup provides duty/duty or duty/standby operation for non-stop disinfection performance.

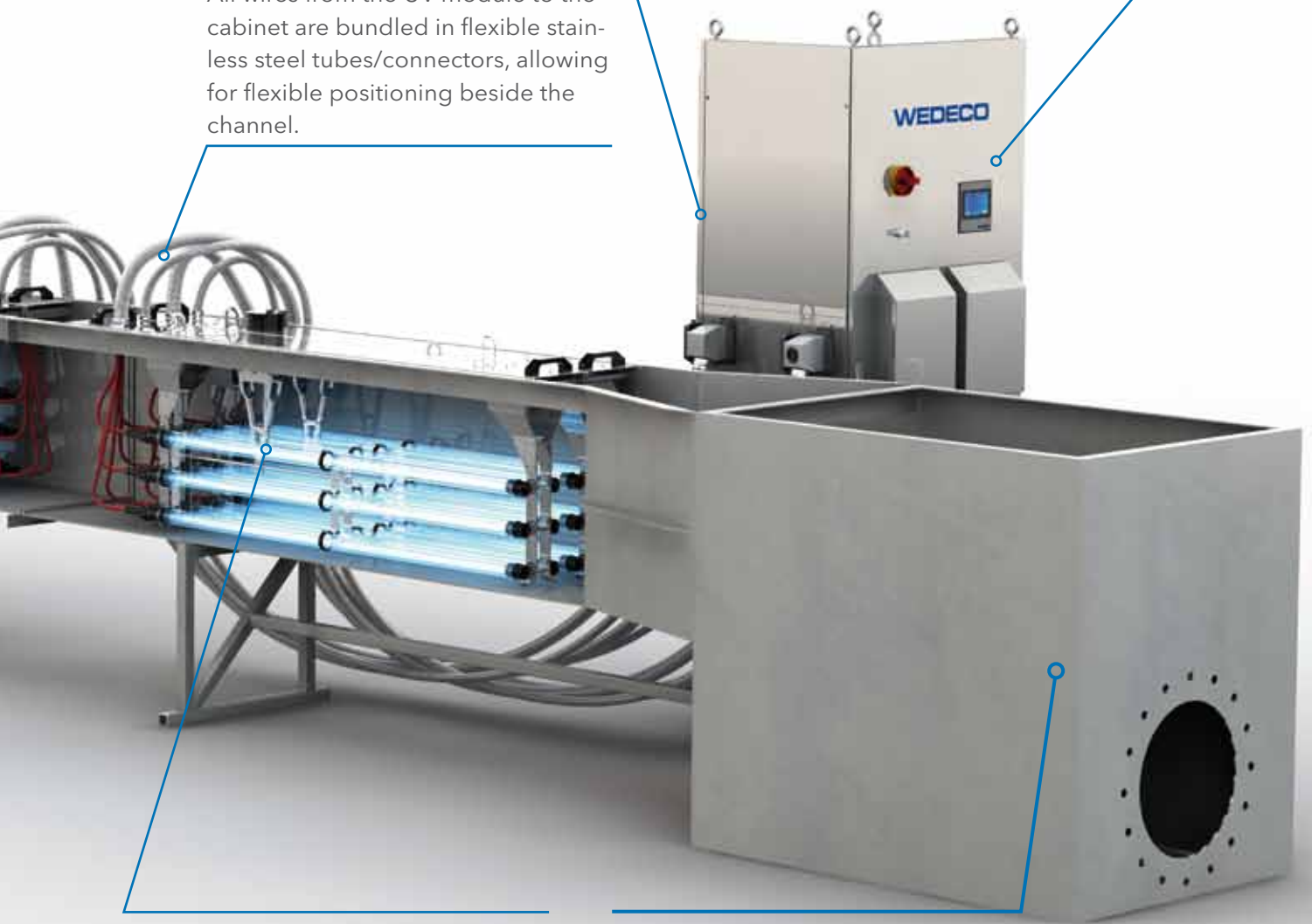


ECORAY UV lamps are more efficient, longer-lasting, more stable and more sustainable than previous WEDECO UV lamp technology. For minimized power consumption the lamps can be operated in dim mode, delivering the exact UV output required to meet the needs of various operating conditions.

Electronic components are housed in a separate cabinet, providing a high level of electrical security and ease of maintenance. For outdoor installations, Type 4X/IP66 rated cabinets (with A/C option) are available, thereby eliminating the need for a separate building.

The cabinet also features WEDECO's unique EcoTouch controller, unifying system dose, real time variable lamp power, lamp status, alarms, SCADA connectivity, and closed loop control with industry leading UV intensity sensors.

All wires from the UV module to the cabinet are bundled in flexible stainless steel tubes/connectors, allowing for flexible positioning beside the channel.



The excellent cleaning performance of the optional fully-automatic wiping system has been confirmed by independent institutions and significantly reduces the formation of deposits. The pneumatic driven wiping device works without chemicals and eliminates the need for regular manual cleaning.

Stainless steel or marine graded HDPE channels are an integral part of the TAK 55 Smart's scope. They are fully assembled, including a fixed outlet weir, for quick and easy connection to existing pipe work. Alternatively, the UV modules can be installed in classical concrete channels.

10 sizes, 340 customized solutions, 100% proven reliability

Features	TAK 55 Smart							
	1-1	2-1	3-1	2-2*	3-2*	4-2	4-3	4-4
UV Transmittance Range:	40 - 80%							
Flow rates	up to 1030 m³/h (6.5 MGD)							
UV Lamp type	ECORAY low pressure high output							
Power per lamp	315 W (Low-Pressure High-Output)							
Lamp certification	3 rd party on aging and UV-C output							
Number of banks	1 or 2 banks							
Number of lamps / modules**	2 / 1	4 / 1	6 / 1	8 / 2	12 / 2	16 / 2	24 / 3	32 / 4
UV Module protection class	IP 65 (NEMA 4X)							
Automatic wiping system	Mechanical wiping system (optional)							
UV Intensity Sensor	Optional							
Waterlevel Control	Finger Weir							
Electrical Control Cabinet								
Ballast type	Ecoray, electronic (constant or variable power output)							
Controller	WEDECO EcoTouch							
Outputs	UV dose (4 - 20 mA), Volt-free contacts for: System running, high priority alarm, low priority alarm							
Inputs	Remote ON / OFF (230V or volt-free) Water flow rate (4 - 20 mA)							
SCADA	System status Lamp Status Alarm messages Process values							
Installation Location	Indoor or Outdoor							
Panel Rating	Type 12/ IP 55 or Type 4X / IP 66							
Air Conditioning (AC)	optional							
Electrical Supply	3ph, 5 wire, 50/60 Hz							
Accessories								
Module stand, lifting crane, work platform, spare module								

* Optional high flow weir available

** per UV bank

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots
- 2) A leading global water technology company

We're 12,500 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to xylem.com.



WEDECO



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