



Wedeco Spektron industrial UV disinfection system





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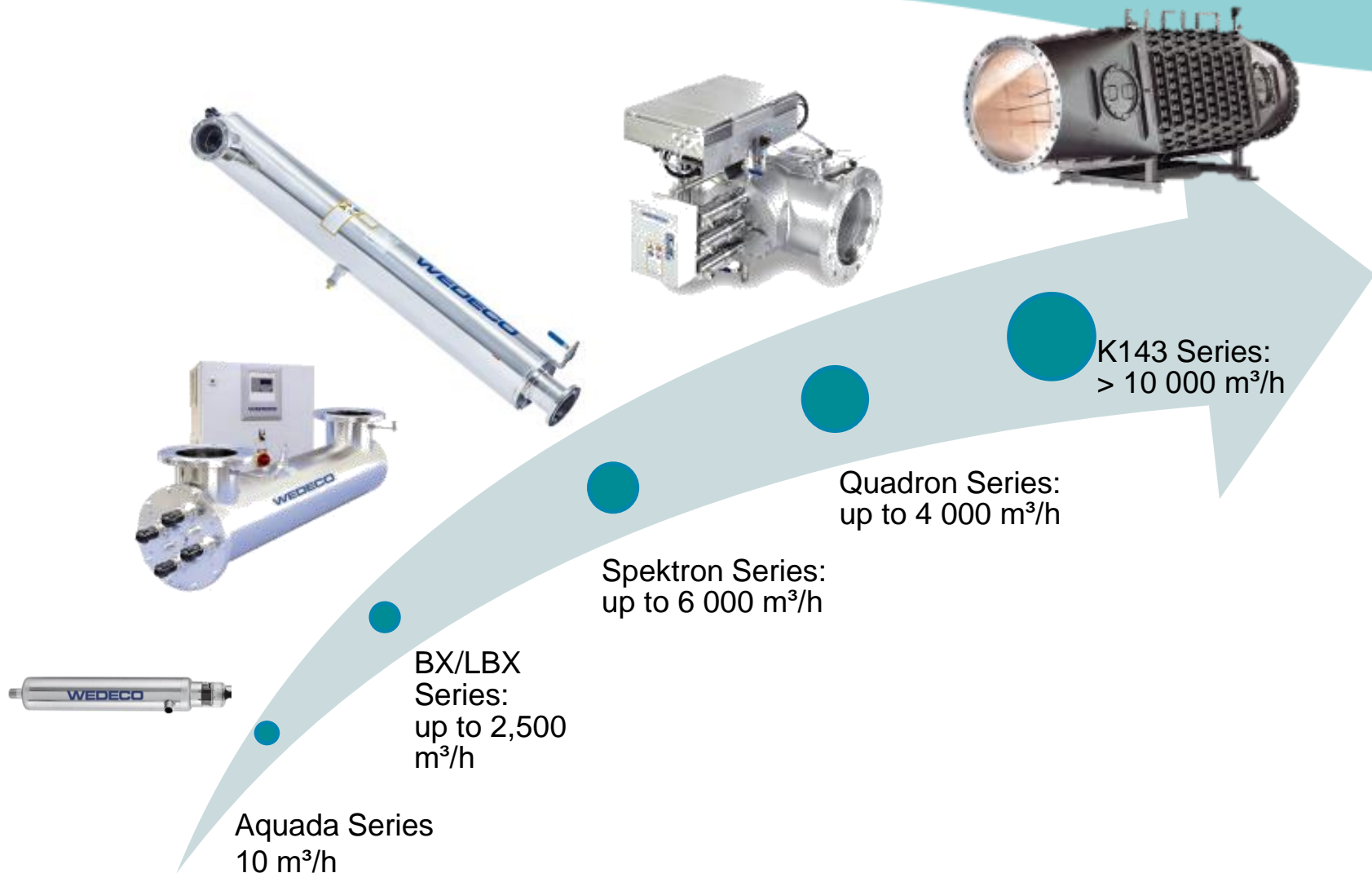
Overview

Spektron i UV disinfection systems are closed vessel reactors that deliver environmentally sustainable disinfection for water to be used for industrial purposes.

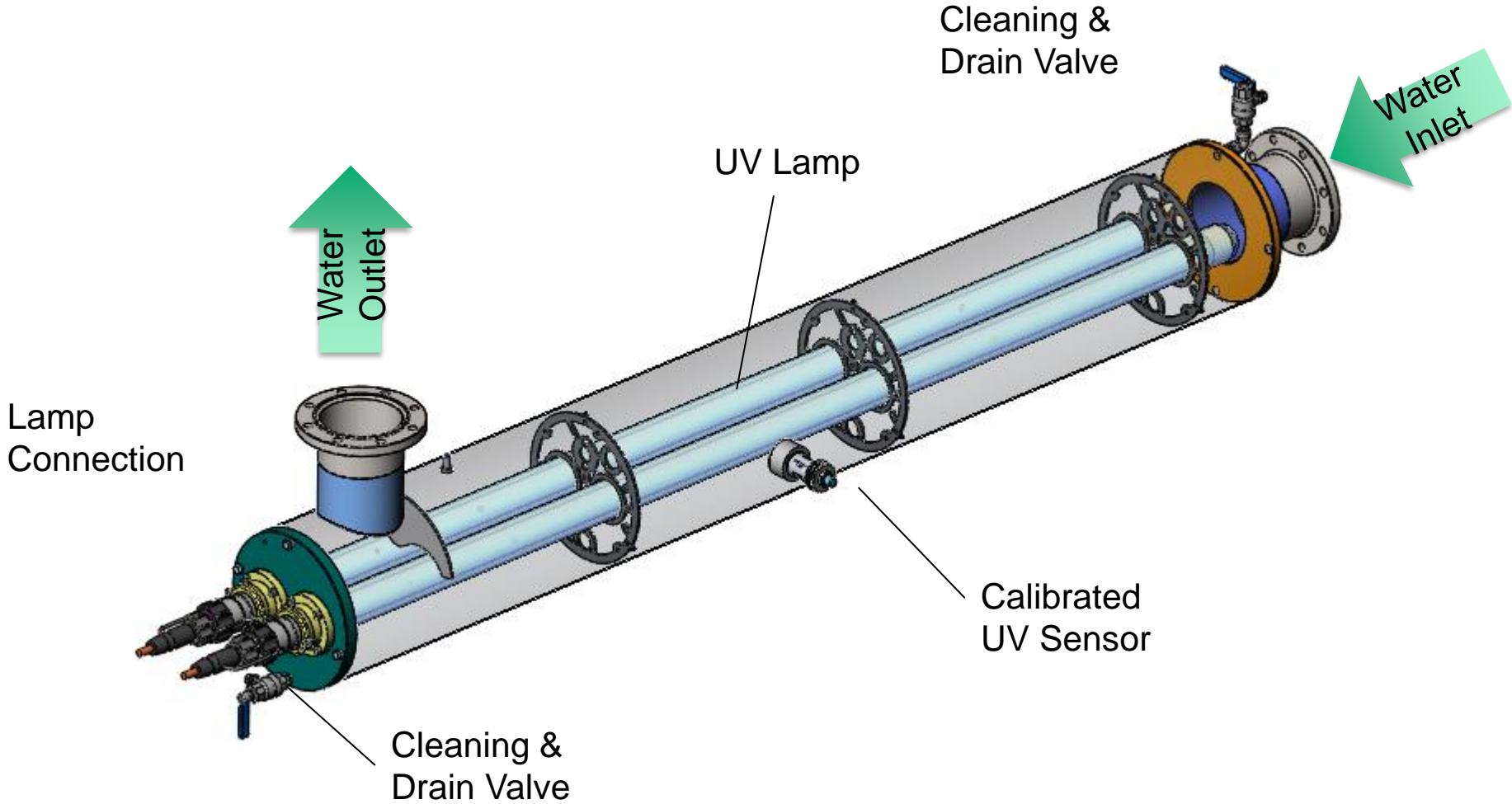
It is dedicated for process or product water in the food and beverage industry, the pharmaceutical industry or for processes in microelectronics and any other industry with higher demands on water quality.



Overview: Wedeco UV Systems for Drinking Water

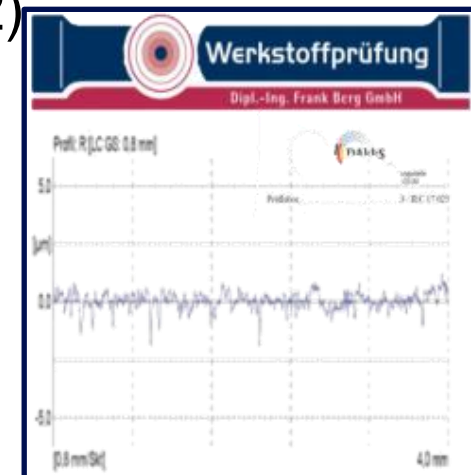
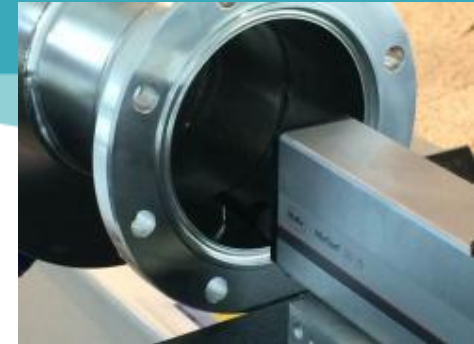


Principle of UV Reactor



Product: Spektron industrial

- Sizes: Spektron 2i – 90i (CE)
- Surface finish: E-polished, inner surfaces $<0.8 \mu\text{m}$ incl. roughness measurement acc. DIN EN ISO 11 562
- Connections: aseptic flanges (DIN 11864-2)
- 3.1 certificate (material source of supply)
- FDA-compliant seals (optional NSF61)



Ra $< 0.8 \mu\text{m}$ ✓

CIP resistant sensor

During cleaning/sanitation processes the lamps have to be switched of. The UV-Sensor is resistant up to **90°C** for **30 minutes**.

For higher temperatures of longer sanitation processes the UV sensor has to be dismantled. This is easy to be done without using any tools:



Hygienic connections



For higher hygienic requirements in the industrial segment the Spektron-i is equipped with Hygienic flanges according to DIN 11864-2 or Tri Clamp connections.

Power Supplies & Control Cabinet

- Compact cabinet - houses all UV system components
 - IP 65 standard rating
 - EcoTouch control unit
 - Passive cooled
 - Safety switch
 - Stainless Steel (304)
 - Ambient temperature: 40 °C / 104 °F
 - All common BUS connections available
 - Profibus DP, Ethernet IP, Modbus TCP



Control 4 System

UL conformity on request

Power Supplies & Control Cabinet

- Local / off / remote switch
- Customer hardwired signals available
 - UV Dose/Intensity in 4-20 mA
 - Volt-free contacts for:
 - System running
 - High priority alarms
 - Low priority alarms
- Optional customer inputs
 - Flow signal via 4-20 mA
 - Remote on/off (230V or Volt Free)
 - UV transmittance
- SCADA for remote monitoring and control
 - System status
 - Alarm messages
 - Process values



All sensor signals, alarms, SCADA connectivity, and OptiDose closed loop control are unified in the unique EcoTouch controller for maximum operator usability.

Maintenance & Safety

- Fast & simple lamp replacement
 - No need for special tools
 - No need for dewatering
 - Easy plug connectors
 - Easy lamp handling
 - Maximum 2 min per lamp



Installations

Customer: Octapharma

- System: 2 x Spektron 30i;
2 x Spektron 50i
- Flow: 35 m³/h
- Design: 1200 J/m² for Ozone
destruction in water
- Installation: 2016





Reference Spektron Industrial v ČR a SR

Spektron 90i:	Mattoni (2018)
Spektron 15i:	Bioveta (2019)
Spektron 15i:	Imunomedica (2019)
Spektron 15i:	Hameln SK (2019)
Spektron 50i:	PepsiCo CZ (2020)
Spektron 50i & Spektron 90i:	Evonik Fermas SK (2020)
Spektron 5i:	MercaChem (2020)
Spektron 2i:	GMProject (2021)
Spektron 10i & Spektron 15i:	Bioveta (2021)
Spektron 30i:	GEA & Pivovar Svijany (2021)
Spektron 90i:	Mattoni HU (2021)



Reference Spektron Industrial v ČR a SR

Spektron 2i:	Hameln SK (2022)
Spektron 30i & Spektron 50i:	Mattoni (2022)
Spektron 50i:	Denwel Budvar (2022)
Spektron 15i:	Pilsner Urquell (2023)
Spektron 15i:	Evonik Fermas SK (2023)
Spektron 5i:	Phar Service Zentiva (2023)



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