



Wedeco PureTube

CLEAR AND EFFECTIVE UV DISINFECTION SOLUTION FOR ULTRA CLEAN WATER

Wedeco's PureTube is designed to meet highest standards of production in the cosmetic, pharmaceutical, semi-conductor and other industries. It has proven to eliminate even resistant pathogens such as e.g. Adenovirus, to destroy residual ozone and to efficiently deliver ultra clean water.

The Wedeco PureTube brings a range of benefits especially in demanding environments under the strictest hygienic requirements.



Peace of mind

The pure inline design, allowing water to flow through a glass reactor, enables PureTube to ensure:

- No obstacles or dead zone that hinder drainage or cause stagnant water.
- Sanitizable up to 144 °C. (Lamps and sensor are thermally isolated from water or steam).



Safe elimination of pathogens and residual ozone

Wedeco PureTube inactivates bacteria, pathogens and other microorganisms. Following the US EPA UVGDM standards, it is designed for removal of resistant pathogens and viruses, ensuring pathogen-free process water. High dose design makes the system ideal for by-product-free elimination of residual ozone.



Uniquely designed for efficient performance

The inline principle arranges the UVC lamps around a central quartz sleeve, resulting in:

- Lowest possible head loss by straight flow without any reactor inserts.
- Evenly distributed UVC irradiation throughout the complete reactor chamber without shadowing or dark spots.
- High-efficiency reflectors, leading edge lamp technology and computer-based optimization deliver high UVC dose even at dimmed levels.



Safe and easy installation or retrofitting

The inline design assures a compact installation. With available adapters, PureTube can easily refurbish existing systems without changing the piping, or requiring additional pumping.



Operational simplicity

UV system management is made easy through several integrated and optional controls. The Wedeco UV system's sensor-controlled OptiDose feature monitors operating conditions in real time, including flow, UV transmittance, and UV intensity, while process data can easily be accessed using the EcoTouch controller with HMI and integrated configurable alarm outputs. It offers optional SCADA connectivity, to enable overall process control.



Data-driven insights

For smarter management of UV systems and other plant assets, Xylem Avensor's digital service enables real-time and remote 24/7 monitoring and support in order to maintain system availability and optimal runtime. It sends alerts and data-driven insights to any device connected to your system, offers product documentation, and uses a private cellular network to safeguard data integrity and security.



Reduce operational cost

The Ecoray® lamp and ballast technology assures 60% longer lamp life compared to conventional low- or medium pressure UV lamps. The sensor controlled OptiDose system monitors operating conditions in real time, with its proven control logic providing optimal UV dosage even in dimmed mode, hence effectively reducing energy consumption.



WEDECO
a xylem brand

Wedeco PureTube

| PureTube | 60 | 80 | 100 |
|--|--|--|--|
| UV Transmittance, Flowrate | | | |
| Max flow [m³/h] | 25 | 49 | 102 |
| UVT range @ 1cm | 80 - 99% | 80 - 99% | 80 - 99% |
| UV Lamps and Monitoring Systems | | | |
| Lamp technology | Ecoray® LPHO | Ecoray® LPHO | Ecoray® LPHO |
| Power per lamp (W) | 220 | 220 | 350 |
| Lamp life (hours) | 14000 | 14000 | 14000 |
| Sensors | 1 or 2 | 1 or 4 | 1 or 4 |
| SensorType | SO20206 (DIN 19294) | SO20206 (DIN 19294) | SO20206 (DIN 19294) |
| Dimmable | Yes | Yes | Yes |
| No of lamps | 2 | 4 | 4 |
| Reactor | | | |
| weight [kg] | 29 | 30 | 38 |
| Overall reactor length (mm) | 837 | 837 | 1107 |
| Process connection size (DN) | 80 | 80 | 100 |
| Process connection type (standard) | 11864-2 | 11864-2 | 11864-2 |
| Process connection type (optional) | TriClamps | TriClamps | TriClamps |
| Pipe extensions to match WEDECO ME units | optional | optional | optional |
| Pressure rating (bar) | PN 10 | PN 10 | PN 10 |
| Materials in contact with water | Quartz glass, ASTM 316 L / 1.4404 | Quartz glass, ASTM 316 L / 1.4404 | Quartz glass, ASTM 316 L / 1.4404 |
| Protection class | IP55 | IP55 | IP55 |
| Electrical Cabinets | | | |
| Electrical standards | CE | CE | CE |
| Ballast type | electronic, high efficiency, variable output | electronic, high efficiency, variable output | electronic, high efficiency, variable output |
| Common outputs | System status, lamp status, alarm messages, process values | System status, lamp status, alarm messages, process values | System status, lamp status, alarm messages, process values |
| SMART Integration | SCADA Avensor connectivity option | SCADA Avensor connectivity option | SCADA Avensor connectivity option |
| Signal interfaces | Profibus, Profinet, Modbus, Ethernet IP | Profibus, Profinet, Modbus, Ethernet IP | Profibus, Profinet, Modbus, Ethernet IP |
| Operator interface | EcoTouch | EcoTouch | EcoTouch |
| Max ambient air temperature [°C] | 35°C | 35°C | 35°C |
| Supply voltage | 1 L/N/PE, 230 V +/-10%, 50-60Hz (TNS, TN-C net) | 1 L/N/PE, 230 V +/-10%, 50-60Hz (TNS, TN-C net) | 1 L/N/PE, 230 V +/-10%, 50-60Hz (TNS, TN-C net) |
| Standard Cable Length (m) | 25 | 25 | 25 |
| Power consumption (kW) | 0.55 | 1.01 | 1.40 |
| Cabinet Rating / Protection class | IP55 | IP55 | IP55 |

Výhradní zastoupení pro Českou a Slovenskou republiku:

DISA s.r.o.

Barvy 784/1, CZ 638 00 Brno

T: +420 548141217(211)

www.disa.cz | info@disa.cz

DISA PLUS s.r.o.

Kasárenská 2050, SK 911 05 Trenčín

T: +421 326420750

www.disaplus.sk | info@disaplus.sk

