NEOTEC UV

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For World Class UV Technology

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For Water Treatment

UV Advanced Oxidation Process Mobile Pilot Skid



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Mobile LP/MP Pilot Plant Skid

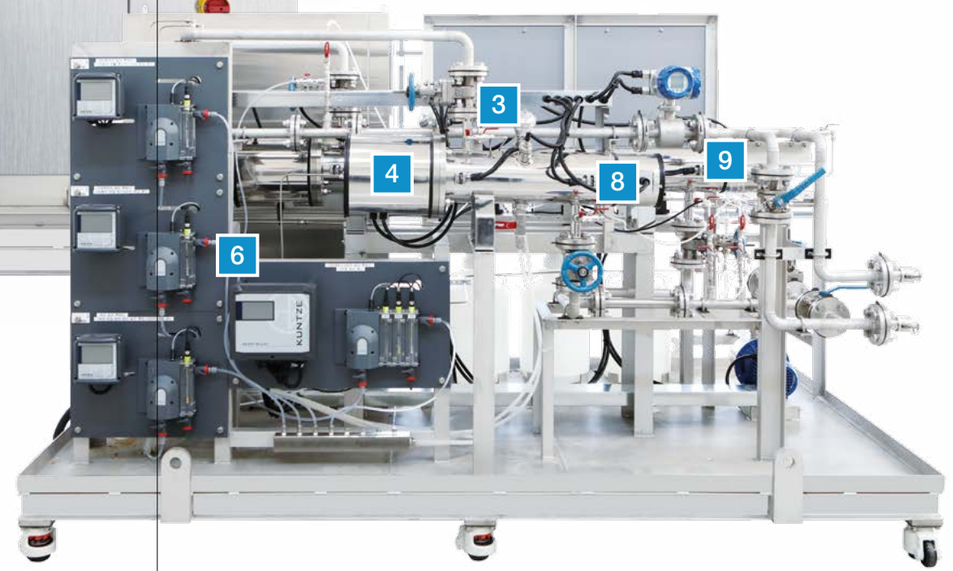
Suitable for Water Treatment

Skid Details

- UV Chamber Material : STS 316L
- Size : 1,500mm(W)x2,750mm(L)x1,700mm(H)
- Weight : 1ton
- Electrical Input : 220V 3Phase
- Operating Temperature : LP 5-45℃, MP 5-65℃ in Chamber)
- 4 Sampling ports installed (Inlet and outlet for both LP and MP)
- Static mixer installed behind oxidant dosing ports
- On-line UV Transmittance Monitor included
- Concentration analyzers for H_2O_2 and NaClO included
- UV Intensity sensors and Temperature sensor included
- Size for Inlet & outlet and main pipes : 25A







Applications

- Drinking Water
  (Geosmin, 2-MIB, NDMA, 1,4 Dioxane and etc)

Features

- Designed for on-site field testing of UV AOP systems
- Residual H_2O_2 quenching without activated carbon
- Supports real-time UV transmittance monitoring
- Compact design fits on a 1-ton truck for easy transport
- Possible to test with both LP and MP chambers
- Batch testing possible by internal circulation
- 100㎥/day capacity based on drinking water application
- Optimal test condition for wastewater by internal circulation
- Spiking test for drinking water application possible

1



On-line UVT Monitor
Supports real-time UVT Monitoring

2



Dosing Pump
Precise dosing of spiking samples and oxidants

3



Temperature Sensor
Water temperature measurement inside the chamber

4



MP UV Chamber
2kW MP UV Lamp applied

5



Ballast for MP UV Lamp
Electronic ballast for MP UV Lamp applied

6



Analyzers for H_2O_2 & NaClO
Real-time measurement of chemical concentration in water

7



Control System
Monitoring and controlling lamp output, UV intensity and flow rate

8



UV Intensity Sensor
Real-time monitoring of UV intensity in the chamber

9



LP UV Chamber
550W LP UV Lamp applied

10



Ballast for LP UV Lamp
Electronic ballast for LP UV Lamp applied