

## UV DISINFECTION SYSYTEM







### **EOL-H SERIES**<sup>®</sup> LOW PRESSURE HORIZONTAL OPEN CHANNEL TYPE



reduce operation & maintenance cost



Simple and easy maintenance by nnovative design from long field experience



Motor driven automatic wiper mechanism presents reliable and accurate cleaning of quartz sleeves eliminating the requirement of manual cleaning





- Primary, secondary wastewater
- Industrial effluent
- Irrigation
- · Water-reuse, grey water

#### **BENEFITS**

- Expandability by modular design
- Real time dose & flow pacing
- Motorized automatic wiper mechanism with proven reliability and performance
- (pneumatic cylinder wiper mechanism also available on request) Energy-efficient low-pressure, super high-output amalgam lamps reduce operation & maintenance cost. Either 240watt lamp or 320watt lamp is available depending on site condition and system design
- CFD modeled design and field tested performance
- Minimum maintenance requirement
- User friendly interfaces and control features
- Meaningful monitoring

#### STANDARD SPECIFICATION

Module Specification Material Lamp Type / Input power per lamp Cleaning System Water Level Control(Optional) **Operating Water Temperature** 

#### Material

Protection Rating

#### Controller

Voltage / Frequency **Operating Temperature** 

#### (PSP) ام

Ballast Type

#### STS304/STS316/STS316L

Low Pressure, Amalgam / 240Watts or 320 Watts Electric Motor-driven Automatic Wiper Mechanism with Limit Switches ALC(Counterbalanced Level Control Gate) or Motorized Weir Gate or Fixed Weir +5℃ - +45℃

Painted Steel, STS304, STS316 IP54/NEMA 4

## 220V-480V, 50/60Hz

+0°C - +50°C

Variable output electronic ballast

## **EOL-V SERIES**<sup>®</sup>

#### LOW PRESSURE VERTICAL OPEN CHANNEL TYPE



Intelligent electronic ballast enables the system to maintain the desigr dose regardless of changing flow rate or wastewater quality



- Primary, secondary wastewater
- Industrial effluent
- Irrigation
- Water-reuse, grey water

#### **BENEFITS**

- Expandability by modular design
- Small footprint
- Real time dose & flow pacing
- Motorized automatic wiper mechanism with proven reliability and performance (pneumaticcylinderwipermechanismalsoavailableonrequest)

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• Energy-efficientlow-pressure, super high-output amalgam lamps reduce operation & maintenance cost. Either 240watt lamp or 320watt lamp is available depending on site condition and system design • CFD modeled design and field tested performance

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- Minimum maintenance requirement
- User friendly interfaces and control features
- Meaningful monitoring

#### STANDARD SPECIFICATION

Module Specification	
Material	Pa
Lamp Type / Input power per lamp	Lo
Cleaning System	El

Water Level Control(Optional) **Operating Water Temperature** 

Material Protection Rating

Controller Voltage / Frequency **Operating Temperature** 

Ballast Type

ainted Steel, STS304, STS316 ow Pressure, Amalgam / 240 Watts or 320 Watts ectric Motor-driven Automatic Wiper Mechanism with Limit Switches ALC(Counterbalanced Level Control Gate) or Motorized Weir Gate or Fixed Weir +5°C - +45°C

Painted Steel, STS304, STS316 IP54/NEMA 4

220V-480V, 50/60Hz +0°C - +50°C

Variable output electronic ballast



Innovative part designs promise reliable performance Every part of the system is designed to perform, which has been proven in over 600 currently operating sites.

#### (R) **ECM SERIES** MEDIUM PRESSURE CHAMBER TYPE







UV intensity monitor provides highly accurate measurement of UV intensity within the chamber and transmit the signal to control for dose pacing and customer use

#### APPLICATIONS

- Drinking water disinfection
- Industrial water mains supply disinfection
- Process water disinfection
- Aquaculture/Aquaria
- Swimming pool/Spa
  Photolysis applications-TOC removal for UPW process
- AOP process

#### **BENEFITS**

- Small footprint and easy installation
- Real time dose & flow pacing
- · Motorized automatic wiper mechanism with proven reliability and performance
- Medium-pressure, high-output lamps enable large treatment capacity with compact size
- CFD modeled design
- Minimum maintenance requirement
- User friendly interfaces and control features
- Meaningful monitoring
- Fully automated operation
- State-of-the-art workmanship
- Wide spectral output for photolysis applications
- Irrelevant to water temperature

#### STANDARD SPECIFICATION

Lamp Type / Input power per lamp Cleaning System (where applicable)

**Operating Water Temperature** 

#### STS304/STS316/STS316L Medium Pressure / 1.2kW to 24kW per lamp Electric Motor-driven Automatic Wiper Mechanism with Limit Switches +5°C - +65°C PN16, DN, ANSI 150, JIS, KS 10bar/15bar

Painted Steel, STS304, STS316 IP54/NEMA 4

PLC 220V-480V.50/60Hz +0°C - +50°C

Variable output electronic ballast



**OUVAOP SYSTEM** 

Voltage / Frequency Operating Temperature

#### Power Supply Panel (PSP)

Ballast Type

Material

Connections Working/Test Pressure

Material

Controller

**Protection Rating** 





#### APPLICATIONS

- Ballast Water Treatment for vessels
- Drinking water disinfection
- Industrial water mains supply disinfection
- Process water disinfection
- Aquaculture/Aquaria







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- Small footprint and easy installation
- Minimum head loss by in-line design
- Real time dose & flow pacing
- Motorized automatic wiper mechanism with proven reliability and performance
- Medium-pressure, high-output lamps enable large treatment capacity with compact size
- CFD modeled design
- Minimum maintenance requirement
- User friendly interfaces and control features
- Meaningful monitoring
- Fully automated operation
- State-of-the-art workmanship
- Irrelevant to water temperature
- IMO(International Maritime Organization) approved performance and reliability

#### STANDARD SPECIFICATION

#### Material

Lamp Type / Input power per lamp Cleaning System (where applicable) **Operating Water Temperature** Connections Working/Test Pressure

Material

Protection Rating

Controller

Voltage / Frequency **Operating Temperature** 

Power Supply Panel (PSP) Ballast Type

STS304/STS316/STS316L Medium Pressure / 1.2kw to 24kW per lamp Electric Motor-driven Automatic Wiper Mechanism with Limit Switches +5℃ - +65℃ PN16, DN, ANSI 150, JIS, KS 10bar/15bar

Painted Steel, STS304, STS316 IP54/NEMA4

PLC 220V- 480V, 50/60Hz

+0°C - +50°C

Variable output electronic ballast







Motor driven automatic winer mech



Temperature sensor prevents system damage and ensures user's safety

## ECL/ECL-P SERIES<sup>®</sup> LOW PRESSURE CHAMBER TYPE / LOW PRESSURE AXIAL FLOW TYPE

# 570



Simple and reliable control by Microprocessor board



State of the art workmanship and innovative design to perform while low capital cost

## NCL-P SERIES NEOTEC DV NEOTEC UV

#### **APPLICATIONS**

- Drinking water
- Process water
- Primary, secondary wastewater
- Industrial effluent
- Water-reuse, grey water
- Photolysis applications-TOC removal for UPW process
- AOP process

#### BENEFITS

- Small footprint and easy installation
- Motorized automatic wiper mechanism with proven reliability and performance
- Energy-efficient low-pressure, high-output lamps reduce operation & maintenancecost
- CFD modeled design
- Minimum maintenance requirement
- · User friendly interfaces and control features
- Simple operation
- State-of-the-art workmanship
- Long lamp life expectancy
- Meaningful monitoring
- · Models for photolysis application available

#### **STANDARD SPECIFICATION**

Chamb Material Lamp Type Cleaning System (where applicable)

**Operating Water Temperature** Connections Working/Test Pressure

Surface Finish

Material **Protection Rating** 

System Control P Controller Voltage / Frequency Operating Temperature

Ballast Type

Low Pressure, high output or Amalgam Electric Motor-driven Automatic Wiper Mechanism with Limit Switches . +5℃ - +45℃ PN16, DN, ANSI 150, JIS, KS, TRICLAMP 10bar/15bar Electro-polished and passivated

Painted Steel, STS304, STS316 IP54/NEMA 4

MICROPROCESSOR 120V-230V, 50/60Hz +0°C - +50°C Electronic ballast

#### NCL-P SERIES(Axial Flow Typ

STS304 / STS316 / STS316L Low Pressure, high output or Amalgam Pneumatic Automatic Wiper Mechanism . +5℃ - +45℃ PN16, DN, ANSI 150, JIS, KS, TRICLAMP Electro-polished and passivated

Painted Steel, STS304, STS316 IP54/NEMA4

#### ON/OFF

120V-230V, 50/60Hz +0°C - +50°C Electronic ballast

5bar/7bar



NCL SERIES





#### 본사

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○ 경기도 안산시 단원구 엠티브이1로163번길 15

#### 제 2<del>공</del>장

○ 충청남도 당진시 석문면 산단3로4길 22

#### 제 3공장

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