



# Phileas® Control

Control range

Safety and control in  
GMP environment



## EFFICIENT AND SAFE DISINFECTION IN THREE STEPS

### 1 | Diffusion

Microdrop phase

Microdrop Technology®\*\*:  
Biocide is sprayed in micro-droplets, forming a non-wetting fog that covers all accessible and non-accessible surfaces, with excellent distribution.

### 2 | Contact time

Vapor phase

Evaporation of small droplets on contact with surfaces. Penetration of the biocide into the microbial cell and irreversible lethal action (full biocide spectrum).

### 3 | Aeration

Low H<sub>2</sub>O<sub>2</sub> concentration: fast ventilation.

PHILEAS  
BY DEVEA

## Technical characteristics

### Maximum safety

**Pre-start safety** Disc protection sensor, notification if biocide quantity is insufficient

**Biocide tanks** 2 x 2 L canisters, weight sensor under each canister

**RFID Reader** biocide data (batch no., minimum durability date)

**Sensor** H<sub>2</sub>O<sub>2</sub>, temperature and humidity (Vaisala) optional

### Integrated process

**Modbus Communication** RJ45 connection

**Industrial PLC** Siemens screen

### Traceability, data integrity

**Audited compliant 21CFR Part 11 and GMP Annex 11** operator identification at start-up, profiles and associated rights, audit trail

**Diffusion reports** in pdf, with compliance confirmation

**Treated volume** up to 300 m<sup>3</sup>\*

**Device flowrate** 1200 mL/hr

**Size (L x W x H)** 650 x 800 x 1000 mm

**Weight** 30 kg, 4 steering wheels

**Mains socket** CE conformity

**Minimum maintenance** robust equipment

Autonomous Airborne Surface Disinfection (ASD) device, with patented technology of non-wetting fog using the centrifugation technique. In compliance with EN 17-272 standards. Marketing Authorisation AMM N° FR-2019-0071 obtained with disinfectant O2SAFE7.4®.

### PERFORMANCE, SAFETY & EASE OF USE FOR THE FOLLOWING APPLICATIONS ACTIVITY SECTORS:

- Pharmaceutical industry, animal research laboratory
- Controlled access zones, aseptic production zone

\*according to the calculation tank capacity / 12mL/m<sup>3</sup> dose (Marketing Authorisation)

\*\* Microdrop Technology: micro drops resulting from the centrifugation

## PERFORMANCE

- Microorganisms reduction by 4, 5 and 6 log<sub>10</sub> depending on target (*Geobacillus stearothermophilus* spores)
- Effectiveness validated by Marketing Authorization N°FR-2019-0071 and in compliance with EN 17-272 standards
- **Siemens PLC**, touch interface and industrial environment
- Preventive maintenance contract: performance assurance for every disinfection

## SAFETY

- **Operator safety**: no handling of biocide, full use of canisters
- Safety of **cleanroom equipment and materials**: treatment with low concentration of H<sub>2</sub>O<sub>2</sub>, non-corrosive, respectful of installations.
- Security: disc protection removed before diffusion
- Security: absence or insufficient quantity of biocide before diffusion.
- Bright visibility (LEDs on dispensing modules, illuminated panels behind canisters)
- Operator identification on the equipment
- Easy, automatic programming, reducing the risk of errors
- Compact equipment, limiting the need for cables during disinfection cycles

## EASE OF USE

- Simple centrifugation technology, easy maintenance
- Robust, reliable equipment
- Easy operator training
- Equipment designed for easy cleaning, maintenance and storage
- Durability

## INTEGRATION & TRACEABILITY

- **Ethernet connection** (RJ45 port), modbus communication with PLC and building management system data integration, communication with HVAC, doors, etc.
- **H<sub>2</sub>O<sub>2</sub> sensor**, temperature and hygrometry (Vaisala - optional): additional cycle compliance data
- Weight sensor under each canister: integration of diffusion data

### Traceability, data integrity:

- Diffusion report signed compliant, audit trail
- Equipment audited in compliance with GMP Annex 11 and 21CFR Part 11
- **RFID reader**: batch number and minimum durability date of biocide reported on the report, without risk of data entry error

## WHY CHOSE DEVEA?

- Biodecontamination expertise recognized in the most demanding sectors
- Range of products and services adapted to all configurations
- Market Authorization issued

### Devea Biodecontamination Services offer:

- Qualifications (IQ, OQ)
- Cycle development, protocol, support & performance qualification
- Training
- Disinfection service provision
- Annual preventive maintenance contract
- Biological and chemical indicators supply
- After-sales service & equipment diagnostics within 48 hours
- Designed, manufactured and maintained in France



# CONTACT