



Phileas® Control²

Control range

Safety and control of large volumes 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 H₂O₂ 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 5 L canisters, weight sensor under each canister

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

Sensor H₂O₂, 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 800 m³*

Device flowrate 3000 mL/hr

Size (L x W x H) 976 x 830 x 485 mm

Weight 39 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/m³ dose (Marketing Authorisation)

** Microdrop Technology: micro drops resulting from the centrifugation

PERFORMANCE

- Microorganisms reduction by 4, 5 and 6 log₁₀ 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 H₂O₂, non-corrosive, respectful of installations.
- Security: disc protections 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.
- **H₂O₂ 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