

# Affordable Automated, No Touch Airborne Decontamination



Validated Efficacy  
Bactericidal, Sporicidal,  
Virucidal & Fungicidal  
according to European standards

- Compliant with European standards for airborne disinfection 2017
- Does NOT contain silver nitrate

## the NEW Nocospray 2

Ticking all the boxes for Infection Control and Decontamination procedures

- ✓ Eliminates public enemies such as:
  - MRSA (*Methicillin-resistant Staphylococcus aureus*)
  - *Clostridium difficile*
  - Norovirus
  - CPE (*carbapenemase-producing Enterobacteriaceae*)
- ✓ Validated to Norm NF T 72-281 (2014) utilising hydrogen peroxide technology
- ✓ Low purchase cost  
Incredible value in its field
- ✓ Easy to use – setting by touchpad
- ✓ Lightweight (6KG) and portable
- ✓ Safe use around all electrical equipment
- ✓ Remote Control Deployment  
safe activation from outside target area
- ✓ Tracking Technology  
Records diffusion activity to software
- ✓ Versatile target room volume range  
10-1000m<sup>3</sup>
- ✓ Economical operational cost  
Minimal chemical consumption
- ✓ Quick process time
- ✓ Sensibly priced service & maintenance
- ✓ Non corrosive, No residue.



# the best just got better





**OXY'PHARM®**

Bacteria, Spores, Fungus and Viruses  
Pathogens, often resistant to antibiotics, offer numerous challenges to most environments and in many cases survive manual and mechanical cleaning processes where eradication is rarely assured.

In order to combat this, with validated efficacy to all the above, we introduce the Oxypharm System...

...a new generation of Automated Air and Surface  
Decontamination  
utilising the Nocospray/Nocolyse concept.

- Nocospray (the diffusion appliance)
- Nocolyse (range of chemicals)

enabling the self-destruction of bacteria with no creation of germ resistance.

Totally Bio products, totally safe for the environment.

### **Nocospray**

Developed around a heating and ionizing turbine that transforms and emits the Nocolyse disinfectant into a non-corrosive, non allergenic, Biodegradable gas – with no residue.

Capacity: 10 – 1000m<sup>3</sup>



### **Nocolyse Disinfectant**

A liquid containing 6 or 12% Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>) in distilled water for general use.

### **Nocolyse Food**

A liquid containing 8% Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>) in distilled water for use in areas which come into contact with food.



## Propulsion

The Nocolyse is nebulised to form a gas which is propelled by the Nocospray turbine at 80m/sec at 37°C. The emitted gas comprises particles no greater than 5µ (microns) ensuring a slow and perfectly uniform sedimentation with no humidity.

There is no formation of volatile organic compounds due to the rapid decontamination of the gas which leaves nothing behind once it has acted.

## Activity

The combination of speed and temperature ionizes the emitted particles and degrades the peroxide into highly oxidizing free radicals with a very short life span.

The Oxypharm concept brings maximum simplification to surface and air disinfection via a 3 stage process:

- High Speed diffusion – Desiccation of Nocolyse forming a dry fog
- Ionization of free radicals – increase of the bacterial effect
- Catalytic action of silver atoms – 1ag+ ion attracts 1,000,000 OH- ions
- Nocolyse Food has a different mechanism in the ionization phase relying on metallic impurity present in the atmosphere, trace elements in bacteria and/or metal structures within the treated room

## Which initiate two actions:

- 1.) Change of the permeability of the bacteria membrane
- 2.) Self destruction of the bacteria

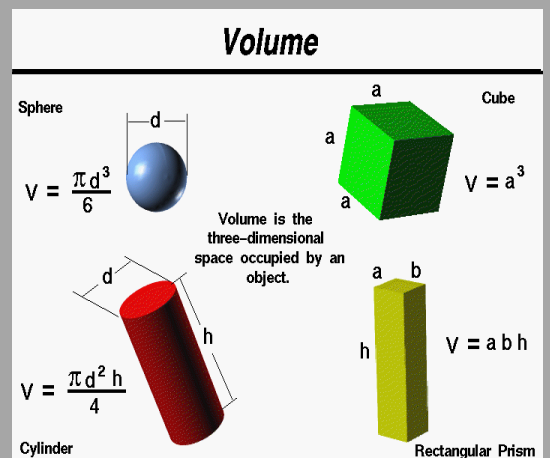
Despite the scientific complexity required for disinfection –  
Oxypharm is extremely easy to function and does not require external operative support.

The process comprises two phases:

- Emission time
- Contact time

Simply calculate the volume of the room to be treated, enter this on the Nocospray and commence the procedure.

The total time of procedure is dependent upon the size of room and if the disinfection process uses preventative or curative treatments



The use of the time indication door chart should be utilised warning of the process taking place and giving clear instruction when the room is safe to enter.

Sealing the main exit door and the wearing of appropriate PPE by the operator is mandatory – see operational instructions

## The Nocolyse range comprises 2 core disinfection processes

- Preventative
- Curative

### • Preventative – **Nocolyse**

Daily disinfection utilising a 6% H<sub>2</sub>O<sub>2</sub> concentration

typical procedure time for 50m<sup>3</sup> room:

emission time – 3 minutes

contact time – 30 minutes

total procedure – 33 minutes

Emission times calculates pro rata at 3 minutes  
per 50m<sup>3</sup> room space

Disinfection consumption = 1ml/m<sup>3</sup>

### • Curative – **Nocolyse One Shot**

Ad hoc 'impact' effect utilising a 12% H<sub>2</sub>O<sub>2</sub> concentration

typical procedure time for 50m<sup>3</sup> room:

emission time – 9 minutes

contact time – 2 hours

total procedure – 2 hours 9 minutes

Emission times calculates pro rata at 9 minutes  
per 50m<sup>3</sup> room space

Disinfection consumption = 3ml/m<sup>3</sup>

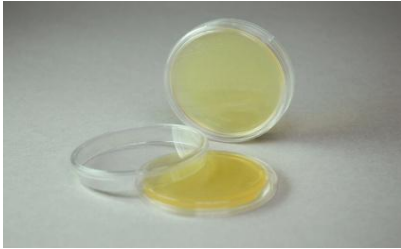
**Nocolyse Food** may be used as both a Preventative and Curative treatment – as 1ml/m<sup>3</sup> (preventative) and 3+ml/m<sup>3</sup> (curative) – see validation papers as guide

**Contact time remains consistent irrespective of emission time or room size**



**OXY'PHARM®**

# A Quality Monitoring Kit is available to be used in conjunction with the disinfection process



## Nocobox

Contact boxes to take samples from surfaces both pre and post disinfection process.

Results obtained within 48 hours.



## Nocotest

Colour metric strips to check the disinfection process has been distributed evenly within the room treated.

Ideal for first time processes especially if room configuration includes additional annex e.g. En suite bathroom

# A Hydrogen Peroxide Detector Should be used for all disinfection processes



- Portable & Lightweight
- No need to enter treated room to take measurements
- Sensor in room communicates with hand held (or wall mounted) device outside
- Operator monitors H<sub>2</sub>O<sub>2</sub> concentration on external device via remote control
- Small and compact – 190 x 252 x 88mm



Impressive log reduction efficacy in accordance with the French Norm

\* The European Biocidal Regulation (BPR) use this standard to test airborne surface disinfection systems

### Nocolyse Neutral

NF T 72-281 Study 15-1823 *Clostridium difficile* NCTC 13366  
6 day analysis at 1ml/m<sup>3</sup>

### Nocolyse One Shot

NF T 72-281 Study 15-1780 *Clostridium difficile* NCTC 13366  
NF T 72-281 Study 15-1780/2 *Bacillus subtilis* (spore) CIP 52.62  
NF T 72-281 Study 15-1780:-

Bactericidal activity:

*Pseudomonas aeruginosa* CIP103467  
*Staphylococcus aureus* CIP 4.83  
*Enterococcus hirae* CIP 58.55  
*Escherichia coli* CIP 54.127

Fungicidal, Yeasticidal activity:

*Candida albicans* DSM 1386  
*Aspergillus brasiliensis* CBS 733.88

Sporicidal activity:

*Bacillus subtilis* (spores) CIP 52.62

Micobactericidal activity:

*Mycobacterium terrae* ATCC 15755

### Nocolyse Food

NF T 72-281 Study 15-799:-

Bactericidal activity:

*Pseudomonas aeruginosa* CIP103467  
*Staphylococcus aureus* CIP 4.83  
*Enterococcus hirae* CIP 58.55  
*Escherichia coli* CIP 54.127

Fungicidal, Yeasticidal activity:

*Candida albicans* DSM 1386  
*Aspergillus brasiliensis* CBS 733.88

Sporicidal activity:

*Bacillus subtilis* (spores) CIP 52.62  
*Clostridium difficile* (spores) NCTC13366

Micobactericidal activity:

*Mycobacterium terrae* ATCC 15755  
*Mycobacterium avium* ATCC 15769