



***TDF C:01***

***ENGINEERING***

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# Hydrogen peroxide vapour decontamination machine TDP C01

Decontamination of closed volumes as rooms, car, buses, ambulances, containers or other spaces, requires a decontamination agent able to:

- Be effective on a large spectrum of virus and bacteria
- Reach every corner or receptacle of the volume under decontamination with uniformity of concentration
- Don't damage materials or components contained in the volume under decontamination
- Don't leave residuals dangerous for humans

Really a few numbers of decontamination agents has got all this features contemporarily. The best one, which compliance with the above-mentioned requirement has been demonstrated in decades of use, are the Vapours of Hydrogen Peroxide known also with the VHP acronym. Pay attention: not the nebulized or spray diffused hydrogen peroxide, which diffusion ability and decontamination efficiency are far lower than VHP and the corrosive action is higher a lot respect the VHP, but the true VHP.

**COVERS 100% OF THE VOLUME**  
TDP C01 diffuses the decontaminant as vapour. To use vapour instead spray means to assure a perfect distribution of the decontamination agent over any point of the volume under decontamination without need complex and costly diffusion systems



## TIME SAVING

The decontamination agent used and the technology used in the VHP TDP C01 allow to access the room after a short time, starting from 90 minutes after the start of the decontamination cycle

| <i><b>treated volume</b></i> | <i><b>t. decontamination</b></i> | <i><b>consumption</b></i> |
|------------------------------|----------------------------------|---------------------------|
| 1 m <sup>3</sup>             | 20 min.                          | 3 ml                      |
| 2 m <sup>3</sup>             | 20 min.                          | 7 ml                      |
| 10 m <sup>3</sup>            | 22 min.                          | 33 ml                     |
| 20 m <sup>3</sup>            | 23 min.                          | 66 ml                     |
| 50 m <sup>3</sup>            | 28 min.                          | 165 ml                    |
| 100 m <sup>3</sup>           | 37 min.                          | 330 ml                    |
| 150 m <sup>3</sup>           | 45 min.                          | 495 ml                    |

In the decontamination unit VHP TDP C01, Proclea concentrated tens of years of experience in the engineering and manufacturing of industrial TDP VHP system used in the pharmaceutical and biotech industries.

The decontamination unit VHP TDP C01 has been designed to obtain a very high decontamination efficiency in generic volumes and with the operation of not highly specialized personnel

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**NOT DANGEROUS  
FOR PEOPLES AND  
ENVIRONMENT**  
TDP C01 uses as decontamination agent the hydrogen peroxide. Thanks to this choice, after decontamination the sole residuals will be aqueous vapor in the air and oxygen. Two natural elements not dangerous for humans or environment

TDP C01 uses Sterile grade Hydrogen Peroxide supplied by Proclea in different concentrations and containers ready to use.

The Sterile grade assures the absence, in the decontamination agent, of pollutants, that you can find in the commercial or pharmacy sold peroxides, dangerous for the humans once settled on the surfaces.

The decontamination cycle, fully established and controlled by the on-board computer, has got a duration from 30 to 65 minutes depending of the volume under decontamination.

After that, the decontaminated room must be aerated in order to be accessed by humans.

Using VHP05-35SG as decontamination agent, the TDP C01 reaches a minimum reduction of the 99,99% of the bacteria and viruses present in the volume, namely a log4 reduction.

| <b>Material</b>       | <b>Compatibility</b> |
|-----------------------|----------------------|
| <i>Alloy</i>          | excellent            |
| <i>AISI 316</i>       | good                 |
| <i>Copper</i>         | low                  |
| <i>Polypropylene</i>  | good                 |
| <i>Neoprene</i>       | low                  |
| <i>Teflon</i>         | excellent            |
| <i>Polyethylene</i>   | excellent            |
| <i>Silicone</i>       | excellent            |
| <i>Natural rubber</i> | excellent            |
| <i>Tyvec</i>          | excellent            |
| <i>Glass</i>          | excellent            |

The values shown in the table refer to the resistance of the material in direct contact with the sterilizing agent

|                              |                            |
|------------------------------|----------------------------|
| <i>Empty weight :</i>        | 4,5 Kg                     |
| <i>Power supply :</i>        | 230 Vac / 50Hz             |
| <i>Absorbed Power :</i>      | 1000 W                     |
| <i>Noisiness :</i>           | 65 dB                      |
| <i>Sterilizing agent :</i>   | VHP05 / 35SG / 20SG / 10FG |
| <i>Max volume treatable:</i> | 175 m <sup>3</sup>         |

#### APPLICATION EXAMPLES

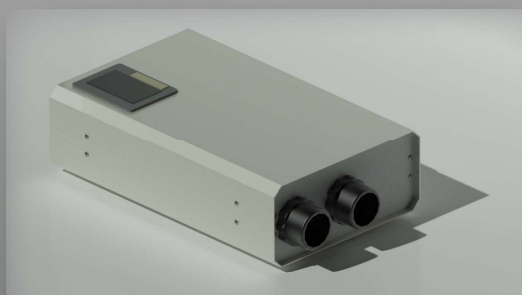
Proclea VHP TDO C01 can be used to decontaminate:

- Pharmaceutical industries
- Laboratories
- Surgery
- Medical offices
- Hospitals
- First aid departments
- Hospitals
- Ambulances
- Offices
- Markets
- Bus, trucks, cars
- Equipment and systems
- HVAC
- Containers....



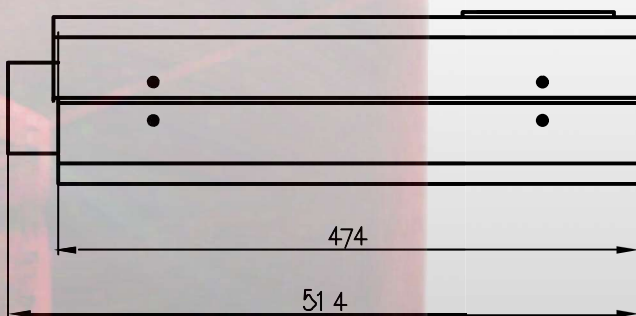
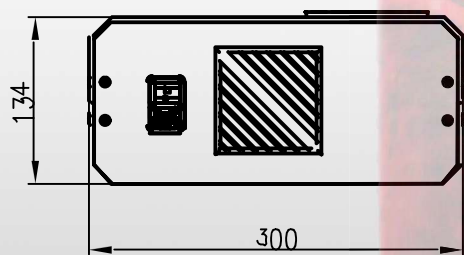
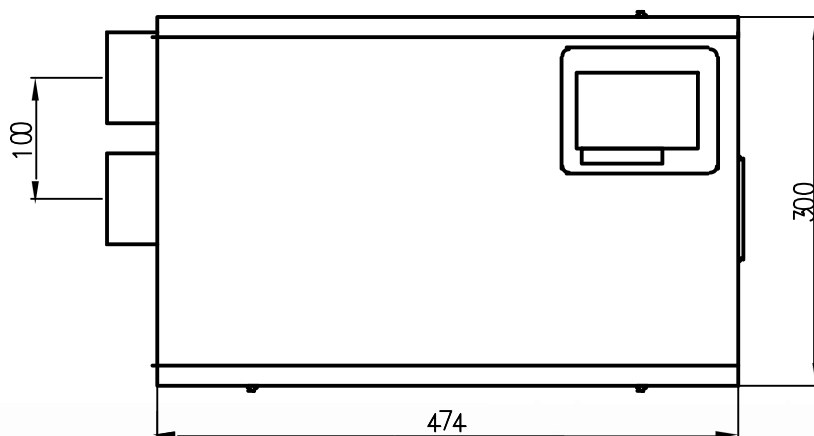
#### FLEXIBILITY

VHP TDP C01 offers a wide range of advantages for application flexibility and decontamination effectiveness despite the low investment cost. A small size, a light weight, the need of a small plug of 230V ac energy let simple the usage of TDP C01 in single or networked configuration for the decontamination of a max. of 175 m<sup>3</sup> per unit



| <b>Product</b>                       | <b>Ref. Code</b> |
|--------------------------------------|------------------|
| <i>TDP C01</i>                       | TDP C01          |
| <i>Direct print module</i>           | PRT-C01          |
| <i>Residual concentration module</i> | PPM-H2O2-0-500   |
| <i>Max concentration module</i>      | PPM-H2O2-0-2000  |
| <i>Catalizator module</i>            | CTL-C01          |
| <i>Industrial sterilizing agent</i>  | AGS-35 SG        |
| <i>Mid range sterilizing agent</i>   | AGS-20 SG        |
| <i>Daily care sterilizing agent</i>  | AGS-15 FD        |

## ***DIMENSION TDP C01***



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