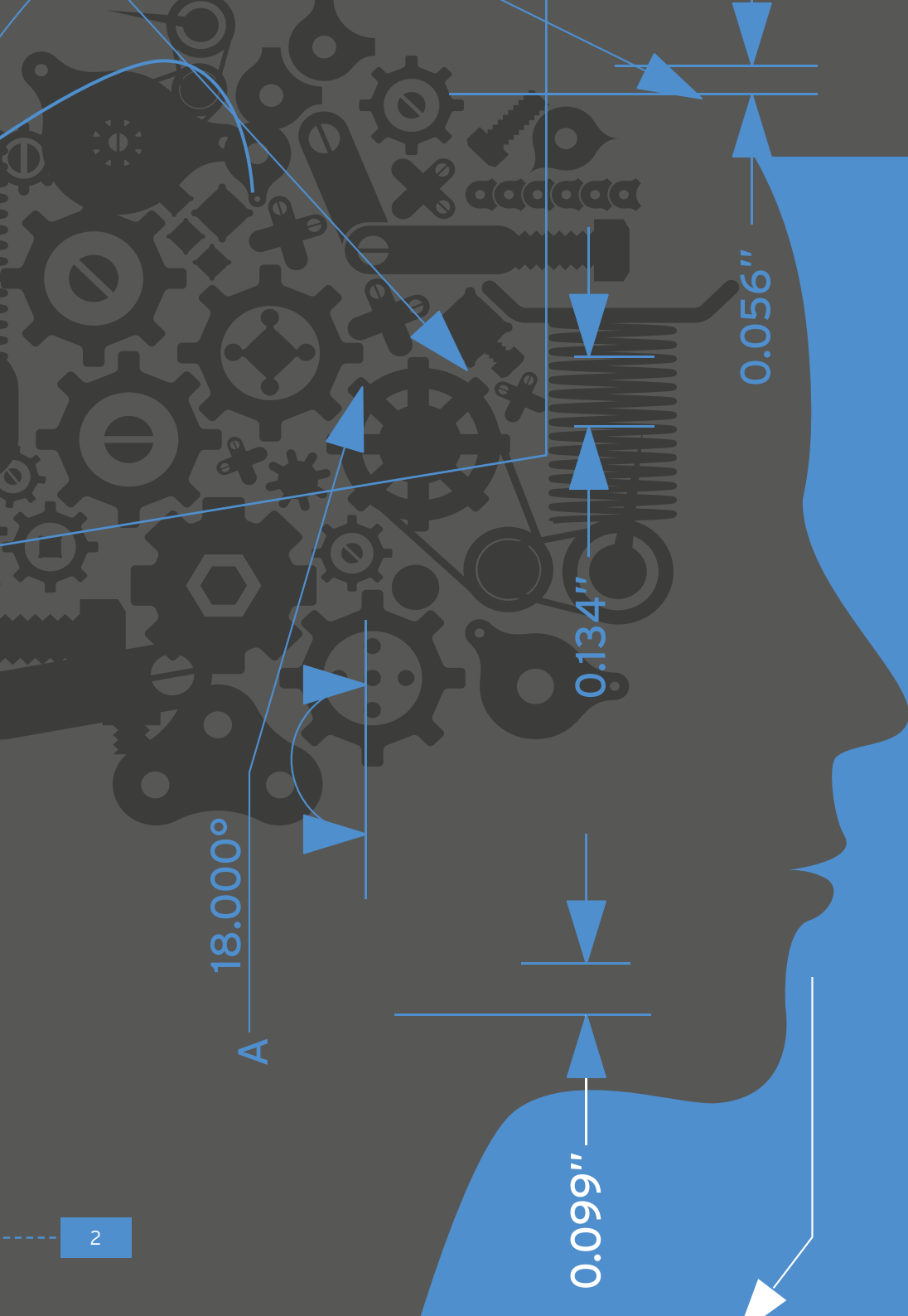


amtech®



# Portable biodecontamination system



**AM Instruments** offers systems, facilities and equipment for cleanrooms.

**AM Tech** manufactures standard and custom-made products through a careful analysis of the customer's requests and special needs.

Our team can offer solutions even for unusual and complex dimensions, functions and layouts, thanks to the support of the highly modern design and production processes.

From the design to the project, to its realisation, **AM Instruments** provides a professional, competent and proactive approach.

AM Instruments offers post-sales assistance and services among the most qualified on the market through its multifunctional laboratory equipped with classified work areas for maintenance, repair and calibration of the instruments.

Zherox® b-pack is the new AM Instruments system for biodecontamination.

A lightweight, portable system applying the Zherox HPE innovative technology.  
Safe and user-friendly with validated effectiveness.

## THE NEW BOUNDARIES OF BIODECONTAMINATION

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efficacy  
SAFETY  
rapidity  
PORTABILITY



# THE SYSTEM

Zherox® b-pack is a battery-powered portable device for surfaces biodecontamination.

b-pack contains a sanitiser tank and includes a TLP® diffuser equipped with HPE ionising technology.

HPE technology provides for the ionisation of the sanitising liquid molecules, ensuring an excellent diffusion while boosting the disinfectant efficacy. Control electronics grants optimal battery management.

The status LED on the diffuser indicates the charge level and the operating phase.

The aluminium alloy frame and the ABS body make the unit light and ideal for frequent use. The ergonomic diffuser allows continuous use, avoiding operator fatigue.

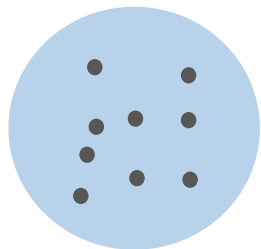
The 5-litre tank and the battery with a up to 3 hours duration guarantee high autonomy.



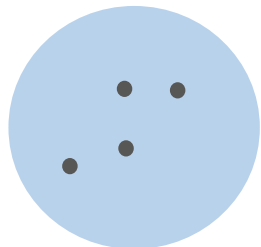
TECHNICAL DATA	
Weight	7 kg
Dimensions	59 x 42 x 28 cm (h x l x p)
Tank capacity	5 L
Voltage	12 VDC
Battery life	2h (continued use) 3h (intermittent use)
Charging time	4 h
Accessories	charger/back up battery

**Biocidal Solution: Pharmaclean® Solution**  
Hydrogen peroxide blend with bactericidal, fungicidal, sporicidal and virucidal activity.

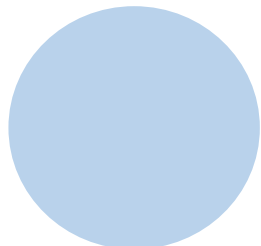
# HPE TECHNOLOGY



SANITISATION  
2 LOG 10<sup>-2</sup>



DISINFECTION  
5 LOG 10<sup>-5</sup>



STERILISATION  
6 LOG 10<sup>-6</sup>

A <8% hydrogen peroxide solution is diffused through a nozzle, creating a mist of micro drops which, passing through a high voltage electromagnetic field, undergo an ionisation process. The resulting solution has a high concentration of hydroxyl radicals and reactive oxygen species (ROS) capable of damaging microorganisms through protein, carbohydrate and lipid oxidation. The micro drops can reach even the most difficult areas, ensuring complete coverage of all surfaces.

## EFFICACY

The efficacy and the distribution of the biodecontamination solution are guaranteed when passing through the ionising energy source. This source consists of an electromagnetic field that increases the oxidising effect of the solution by 50% while reducing cycles duration.

## MATERIAL COMPATIBILITY

Maximum material compatibility: the solution used has a concentration 4 times lower (<8%) than VHP systems (35%) and has no risk classifications. It's not explosive, it's not flammable, and it's not corrosive.

ROS irreversibly damage microorganisms (including spores) guaranteeing the complete sanitisation of environments and surfaces.

# BIODECONTAMINATION SERVICE

## RAPID AND EFFECTIVE INTERVENTIONS WITH A SPECIALISED TEAM



### APPLICATIONS

- pharmaceutical industry
- research and laboratories
- biotech
- hospitals and healthcare
- offices

### SERVICE

- interventions that can be programmed overnight, during weekends and holidays to avoid interfering with regular production cycles
- dedicated study of the area to optimise and customise the biodecontamination process
- possibility of executing dedicated risk assessments
- preliminary inspection of the areas to be biodecontaminated performed by our specialised technical team (on request)
- security of the areas to be treated and monitoring during the process phases
- release of a technical report certifying each phase of the biodecontamination cycle

### ADVANTAGES

- achievement of microbial killing up to 6-Log
- microbial killing even in the most critical and difficult to reach areas
- high material compatibility (glass, PVC, laminates, sensitive electronics and metals, such as stainless steel and aluminium)
- use of sanitising solution with low H<sub>2</sub>O<sub>2</sub> concentration
- odourless sanitising solution
- rapid sanitisation times
- no conditioning of the premises required
- no presence of residues after treatment
- service easily integrated with cleaning procedures
- technical staff trained for the safety of the area

### SAFETY

- no residue left and no cleaning required at the end of the process
- the sanitising agent decays in water and oxygen
- low concentration = no corrosive
- sealing of the areas with a special cleanroom tape



zherox®  
b-pack

