

Options

# ***nWay-Decontamination***

***for Automated Incubators***

*LowContamination, AntiContamination, GermeSafe,  
GerminationSafe, LowGermination,*



Options

## General Informations

### nWay-Decontamination for Automated Incubators

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Automated Incubators having robotic installed inside the incubations chamber require special procedures for thorough decontamination for the robotics. Some of the issues are:

- Robotics cannot routinely be removed for decontamination
- Use non-contamination free materials
- Has structured surfaces
- Will not withstand autoclave temps without potential harm to components

#### What does nWay Decontamination do?

nWay Decontamination effectively eliminates or keep the incubation chamber free of unwanted germs, See [www.liconic.com](http://www.liconic.com) for complete list of contaminants, while avoiding harm to the sensitive parts of the robotics.

- Bacteria
- Fungi
- Viruses
- Cells

#### How does nWay Decontamination Work?

Heat will eliminate most biological species. In cases where the use of heat may be limited alternative decontaminating features must be used. A combination of such features will result in an extremely broad band decontamination solution. nWay Decontamination uses

- Deep UV-Radiation
- O3 Ozone
- Heat
- Steam Injection, which eliminates the need for water pan and standing water
- Copper Elements
- Light Transparent Mechanical Design

for maximum decontamination effectiveness. The unique combination of these elements make the nWay Decontamination best suited for automated incubators. While the UV radiation kills germs on the surfaces walls and germs airborne inside the incubations chamber mainly, Ozone reaches covered areas where light cannot penetrate.

For humidification only small amount of water are allowed since water will not allow UV-light to penetrate nor will Ozone considerably be absorbed by water. The use of ultrasonic evaporation is extremely critical since harmful germs present in the water used for humidification may merely be affected by the sonic dispersion and are evenly spread throughout the entire incubations chamber. Similar effects may result in arrangements where humidity is generated by blowing air on a water surface.

The presence of copper at critical locations acts as a toxic barrier for germs.

When moving to low-temperature incubation at room temperature and below active drying becomes necessary for free selection of the amount of humidity.

#### What are the Benefits of nWay Decontamination?

No need to empty the unit before de-contamination  
Fully enclosed procedure for worker protection  
Guaranteed full decontamination  
No need for human intervention

#### 4 Why nWay Decontamination in Conjunction with Automation

Although robotic access incubators eliminate human intervention and contamination, airborne pathogens can still find their way into unit. Using standard decontamination techniques the user will still need to clean all surfaces after using heat and thus the door is open during procedure, which will allow airborne pathogens to re-enter.

nWay protection will prevent this from occurring