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## Veltia - New Generation Hand Dryer

### Optional - Hygienic Features

#### Odour Elimination

**The Problem:** Prior to the VELTIA the only way to eliminate bad scents in washrooms was by the introduction of perfumes/fragrances that mask the smell by omitting a stronger odour.

**The Solution:** The VELTIA is the first and only hand dryer in the world capable of eliminating bad odours by the introduction of a patented gel by Johnson & Johnson that literally “Kills” bad scents.

#### Bad Scents:

Volatile molecules that come off different materials and are held by our olfactory system produce the scents we detect.

Emitter agents of bad scents are mainly: biological processes such as organic products, degradation (wastes, remainders, etc, mainly by bacterial action), industrial, storage and transformation of residues.

Those scents we define as “Bad” contain atoms of: Sulphur and/or Nitrogen often with double link structure: Marcapthane, amines, terpens and, of course the SKATOL present in excrement. These are the smells we reject for the bad impressions they cause on us.

In those places where VELTIA is often installed bad scents are particularly unpleasant and a high moisture environment boosts them. Because of these reasons the manufacturer decided to include a high value feature in the Veltia: Olfactive Silence (Zero Smell - Gel).





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## **Olfactive Silence: Odour elimination**

The volatile elements that compose unpleasant scents are highly reactive especially with oxygen; ozone and free radicals. It is the reaction with these elements that cause unpleasant odours. They oxidise and chemically reduce; changing the olfactory sensation they produce.

Zero Smell, the gel that has been designed for the VELTIA, reacts actively with unpleasant smell molecules neutralizing them in a very efficient way with a long lasting effect.

Zero Smell - Gel, releases neutralizing active agents according to air temperature and flow, linearly and slowly. When these agents are in contact with unpleasant smelling molecules they react chemically, neutralizing mutually.

If you alter the chemical reaction these gases become almost odourless and it is the great volatility of these active agents that allows a high effectiveness since the odour elimination is done on a Gas-to-Gas basis. With the appropriate disposition you have got an elimination rate over 90% of unpleasant scent volumes.

Zero Smell - Gel is effective enough to be used to fight corrosive contents in the air, such as sulphuric acid from water treatment plants or sewerage networks.

Zero Smell - Gel works for long periods of time (3 to 4 months) and it is effective even after getting wet.

Moreover, Zero Smell - Gel is safe to use and is kind to the environment. It is easy to handle and it can be treated as a domestic waste.



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## Sanitary Protocol

Historically, hand dryers have had a limited participation in the hand drying market. In many cases this is due to sanitary implications of operating with hot air in high moisture environments, whilst in many other areas it is because of the way they operate: Low efficiency, slow action, risk of being burnt, slip hazards caused by water dripping on floor, etc.

The innovative concept of VELTIA makes it immune to these problems because it does not use hot air to dry hands; therefore there is no cooperation with bacteria reproduction and no risk of getting burnt because there are no hot areas on the dryer. In addition to this the water is collected in a drip tray underneath the dryer and no waste is generated.

It is because of this immunity that the manufacturer decided to include these features on the VELTIA dryer to make it compatible with the most stringent sectors e.g. hospitals, food, pharmaceutical industries, etc; with this in mind Veltia introduced the following concepts:

- Clorivelt - antibacterial tablet
- SaniVelt - NDP Air Total Disinfection - antibacterial spray

## SaniVelt - Cloramina T: Disinfection & Anti- Incrusting

### Features and Benefits of Clorivelt

- 1 Antibacterial tablet that helps to eliminate bacteria and fungus
- 2 Completely biodegradable
- 3 Non- corrosive or polluting
- 4 Selective and oxidizing action against micro organisms
- 5 Includes anti - calcereous agent that reacts with any calcium in the water and takes out the lime content
- 6 Eliminates calcareous sediments

See tech specs of **Clorivelt** in Appendix A

### Features and Benefits of SaniVelt - NDP AIR: Total Disinfection

- 1 A disinfectant spray that helps to eliminate bacteria and fungus.
- 2 Eliminates odours fast and efficiently
- 3 Inhibits enzymes and coenzymes vitals for micro organisms
- 4 Non -corrosive or polluting
- 5 Does not damage the ozone layer
- 6 Non- flammable

See tech specs of **SaniVelt - NDP Air Total Disinfection** in Appendix B

- Environmental: 02-20/40-02796
- Alimentary: 02-20/40-02796 HA
- Veterinary: 0184-P
- Authorization for domestic use



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## Appendix A Clorivelt Tech Specs

Clorivelt is a biocide agent with a high anti-bacteria, anti-fungus and anti-algae action. Very effective against a wide range of micro organism, such as:

### Bacteria

- Escherichia coli
- Salmonella
- Pseudomonas
- Vibrio cholerae
- Tubercle Bacillus
- Lactic Acid bacteria
- Clostridium
- Klebsiella
- Staphylococcus
- Streptococcus
- Enterobacter
- Etc

### Fungus

- Aspergillus
- Cladosporium
- Microsporum
- Penicillium
- Etc

### Viruses

- Hepatitis B
- HIV
- Poliovirus
- Etc

Additionally, it includes products with high anti-incrusting capability to avoid lime accumulation.

**This product is certified to be used against Legionella.**

### Application

Pills of gradual dissolution located into the Hand Dryer drain. Every pill contains 500 mg of active materials



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## Appendix B Sanivelt - NDP Air Total Tech Specs

- SaniVelt - NDP Air Total elaborated from N-Duopropenide (NDP).
- NDP® is a micro-biocide compound that causes deactivation of enzymes and coenzymes vitals for all pathogen microorganisms.
- The active principle is a mixture of four quaternary ammonium iodides with cationic and non ionic tensio-actives with synergic properties very well differentiated from traditional quaternary ammonium compounds
- The exclusive formulation of Sanivelt - NDP Air Total contributes absolutely to eliminate pathogen agents offering an environment free from harmful microorganisms avoiding bad scents due to bacteria decomposition. This can be achieved from only a few spray actions.

## Applications

Home, kitchens, offices, schools, hotels, labs, collective transports (Seats), freezers, supermarkets, washrooms, Telephones, Restaurants, medicals and veterinarian's.





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## Composition

Ingredients	Concentration
N-Duopropenide	0.46 %
Isopropyl Alcohol	48 %
Excipient & propellant (Propel 45) csp	100 %

## Physical and Chemical properties

State at Room temperature	Liquid (NDP+ Isopropyl Alcohol) - Gas (propellant)
Pressure	20°C: 5 kg/cm <sup>2</sup> 50°C: 8 kg/cm <sup>2</sup>
Flammability	Inflammable
PH	3.5 - 4.5
Weight	NDP + Isopropyl Alcohol: 125g Propellant: 128g
Other material Interaction	Does not attack most used materials in general industry
Environmental interaction	Does not damage the ozone layer
Product sedimentation does not stain surfaces	