

AIR TREATMENT & VENTILATION SYSTEMS

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# ABOUT US

- **Leading player** in air treatment & ventilation systems!
- **Unique** company DNA: **Producer & Installer**
- Over 25 years of experience
- Situated in Tessenderlo – Belgium



# WHAT DO WE DO

ADVICE



PRODUCTION



INSTALLATION



AFTERCARE



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# WHAT **MORE** DO WE DO?

## INNOVATION



## DISTRIBUTION



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# WHAT **MORE** DO WE DO?



*A unique & innovative partnership  
to distribute probiotics through the  
ventilation system!*

# INDUSTRY EVOLUTION

20 YEARS AGO



- Basic Insulation
- Not Airtight
- Natural Airsupply



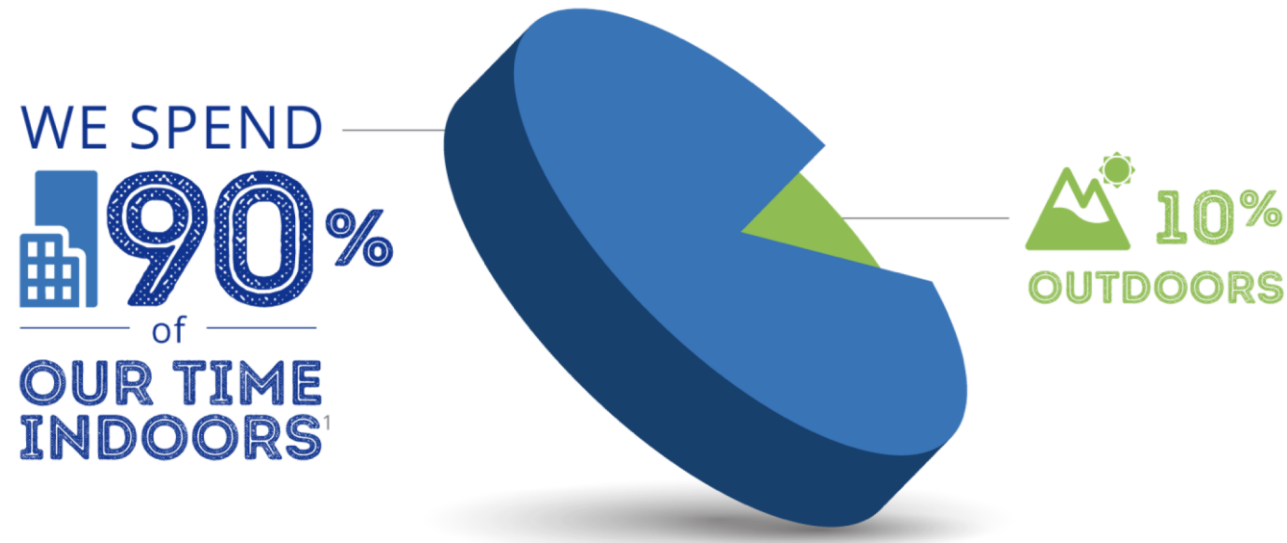
TODAY



- Top-Insulation
- Airtight
- Mechanical Airsupply

- Buildings have become significantly more **airtight** in recent years

# INDOOR GENERATION



- **85% - 90% of our time is spent indoors<sup>1</sup>**
  - At home, work, and public buildings (schools, malls, restaurants)
  - **More than half** of the body's intake during a lifetime is air inhaled in the home<sup>2</sup>



# INDOOR AIR QUALITY

- We are spending **more & more time** inside buildings, and these buildings have become **more & more tight**, but are often **not ventilated right...**
- This has a **profound impact** on the **Indoor Air Quality**, and as a result our generation is almost constantly exposed to potential **Indoor Air Pollution**
- **Some observations:**
  - Indoor Air Quality (IAQ) can be **two to five times** worse than outdoor air quality<sup>3</sup>
  - A person's reaction to poor IAQ often mimic colds, allergies, flus or other illnesses
  - To make matters worse: Those exposed for the longest periods are often those **most susceptible** to its effects – the young, elderly & chronically ill



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3. <https://www.epa.gov/indoor-air-quality-iaq/volatile-organic-compounds-impact-indoor-air-quality>

# SHINY ON THE OUTSIDE



# REALITY ON THE INSIDE



- Ductwork often **plagued** by biofilm, volatile organic compounds, mould, allergens & dust...

# TRADITIONAL “SOLUTION”

- Commercial Cleaning, Disinfection Cleaners, Deodorisation, ...
- **Widely accepted, but major drawbacks:**
  - **UNSAFE:** Biocides are used to kill all micro-organisms
  - **LOW EFFICACY:** Resistance of the biofilm
  - **UNHEALTHY:** Odour control with air refreshers
- These products **simply don't work!** They kill both the good & bad bacteria, and actually make things worse by giving new bacteria a food source (known as the biofilm) ...



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# OUR SOLUTION - I



- In order to tackle an issue that affects millions of people we developed a **partnership** with the **leading player** in the probiotics industry:
  - **25 years** of experience in R&D and production
  - **Stabilized Probiotics:** Long Shelf-life
  - 100% **Natural(!)** micro-organisms
  - Best probiotics to battle and remove organic pollution
  - **Safe** for human & animal
  - No resistance → **sustainable**



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# OUR SOLUTION – II

- Together we harness the power of **good bacteria** to protect our environment (just like yoghurt for our body!)
- **Not yet widely accepted, but major advantages:**
  - **SAFE:** Creates a healthy & balanced microflora
  - **HEALTHY:** Protects indoor living spaces from air & surface contaminants
  - **EFFICIENT:** Ventilation perfectly distributes the probiotics
  - **EFFECTIVE:** Removes organic pollution by removing their food (the biofilm), without the biofilm there is no place for harmful germs to hide & hold dirt
  - **SUSTAINABLE:** 100% natural micro-organisms (no chemicals), safe for both human & animal

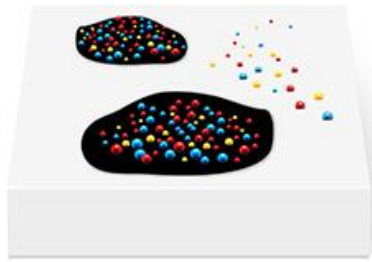


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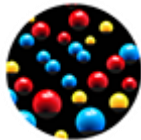
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# OUR SOLUTION IN THEORY

## BEFORE CLEANING



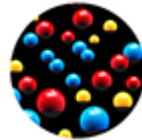
All surfaces are covered with dirt and bacteria. Some colonies of bacteria are even protected by biofilm.



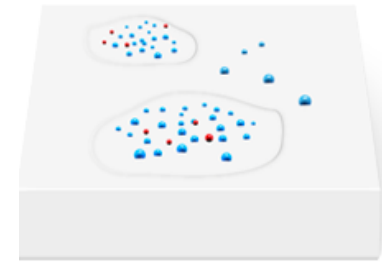
## TRADITIONAL CLEANING



Detergents and Disinfectants kill most living microorganism on the surface, good or bad. Bacteria protected by biofilm remain mostly intact.



## PROBIOTIC CLEANING



After **ventilating** with probiotics, the biofilm is consumed and harmful microorganism on the surfaces are reduced to the minimum.



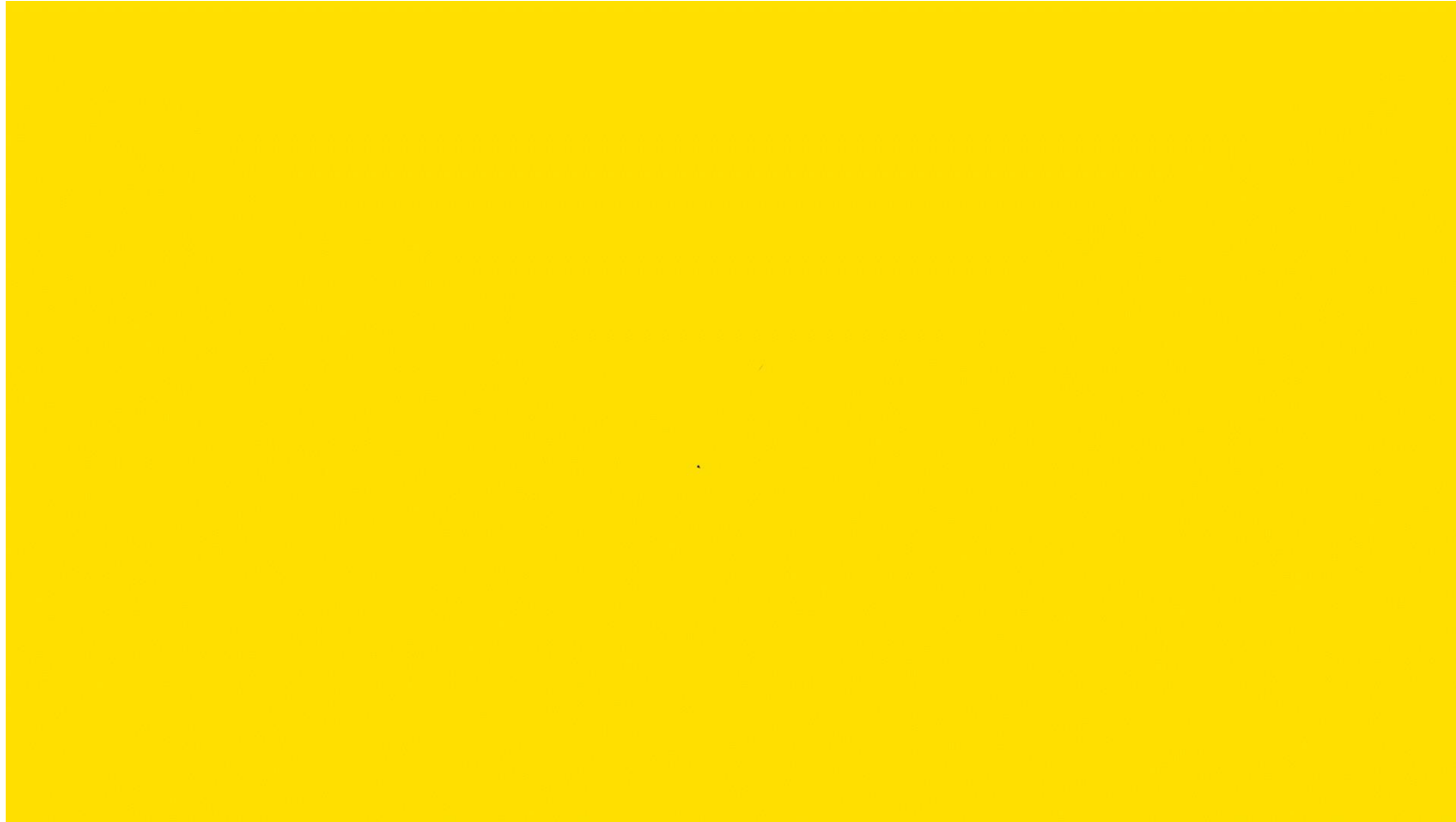
● Biofilm ● Dirt ● BadBacteria ● Probiotics



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# OUR SOLUTION IN PRACTICE



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# FINAL THOUGHTS

- Ventilating is not the same as cleaning!
- Our solution makes your living environment **clean, healthy & happy!**
- Distributing probiotics by air is the perfect intersection between **technology & biology:**
  - **24/7 distribution** – Automated process increases comfort & life quality
  - Brings the indoor environment (air & surface) back in **balance**
  - Energy **efficient**
  - **Quick & reliable** add-on installation
  - **Unique** distribution technology with **zero(!)** impact on air humidity



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# SAFETY & SCIENCE



[Tedtalk](#) – How bacteria communicate



[Tedtalk](#) – Sick Building Syndrome

# QUESTIONS?



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# APPENDIX - SAFETY & SCIENCE



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