



DABO Sentinel Air Quality & Pathogen Control Platform

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1The Challenge – Indoor Air Contamination

Pathogens (bacteria, viruses, spores) circulate through HVAC systems, threatening occupants and increasing maintenance and energy costs.

Traditional filters and ionizers have limited biocidal efficacy and require frequent replacement.



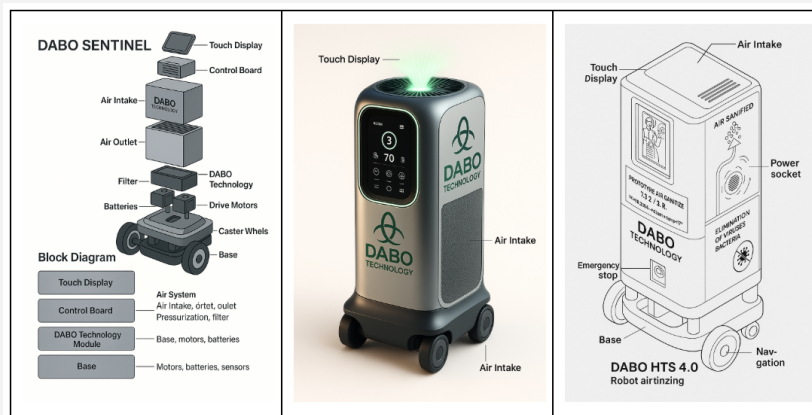
Mockup

2The Solution – DABO Sentinel Technology

Patented Italian innovation combining **UV-C radiation** with a **synchronized magnetic field**, enhancing the molecular disruption of pathogens while maintaining energy efficiency.

Integrable as:

- retrofit module for existing HVAC ducts
- OEM component for new ventilation or smart building systems



Dabo HTS – Sanificazione dell'Aria per Ambient Ospedalieri ad Alto Rischio



- Filtrazione Magnetica Avanzata
- Sistema IoT di Monitoraggio Continuo
- Prototipo Testato in Laboratorio
- Brevetto Registrato

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3Key Features

- Sealed **UV-C chamber** with controlled air flow
- **Dynamic magnetic coil** for enhanced microbial inactivation
- **Digital dose control** via integrated sensors
- **API / OPC-UA / Modbus** interface for network integration
- **Zero ozone**, no chemical residues
- Designed for **continuous 24/7 operation**

4 Benefits

Technical	Operational	Environmental
>99.9% microbial reduction	Easy integration into ducts or air modules	No consumables, low energy
High UV-C dose uniformity	Plug-&-play OEM module	Sustainable & maintenance-light

5Intellectual Property & Recognition

- **Italian Patent n. 102021000018947** – Extension in progress
- **Tianjin Binhai Talent Festival 2025 – International Innovation Award (3rd Prize)**

6Contact

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