PURITY TECH

Advanced Lung-Gard®

PATENTED MADE IN ITALY

PURITY TECH technology is a new **filtering system** consisting of an **antiviral, antibacterial, and anti-pollution fabric all in One**.

Air management in enclosed spaces is essential to **prevent the spread of viruses and bacteria and to remove polluting gases** from outside.

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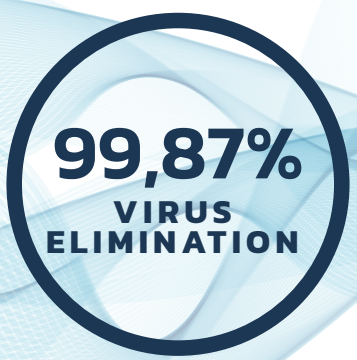
0.0 FABRIC TREATMENT

- **Coating AZM:** The air contact surface is treated with an innovate technology; the AZM coating allows the direct transfer of molecules towards the fabric, without environmental impact.

- **Positive Ion Plasma:** The process generates a positive Ion Plasma that, when accelerated, forces the antiviral atoms to transfer to the surface of the tissue.

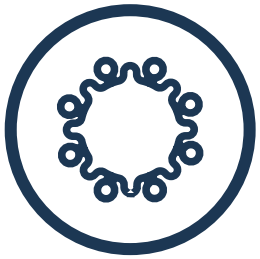
The treatment gives the tissue virucidal characteristics such as to obtain an international certification virus abatement by up to 99,87% (ISO 18184:2019)



1.0 WHY CHOOSE PURITY TECH



Can be combined with any filtration, simply by replacing or matching the inside of started filters with **Purity Tech Technology**



Reduces viruses on the surface treated by the AZM coating **within minutes after contamination**



The use of **Purity Tech** technology allows for the elimination of bacteria present in the air.

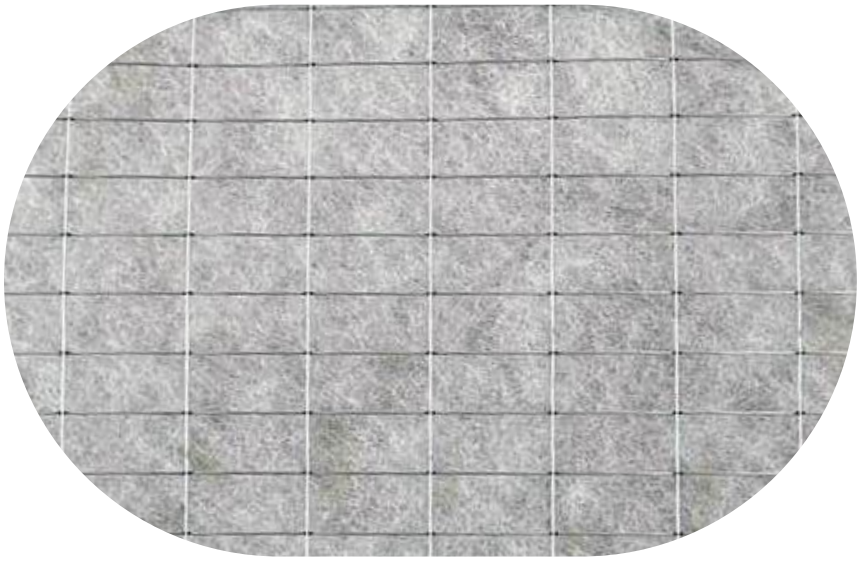


The use of **Purity Tech** technology allows for the reduction of most atmospheric pollutants that are harmful to human health.

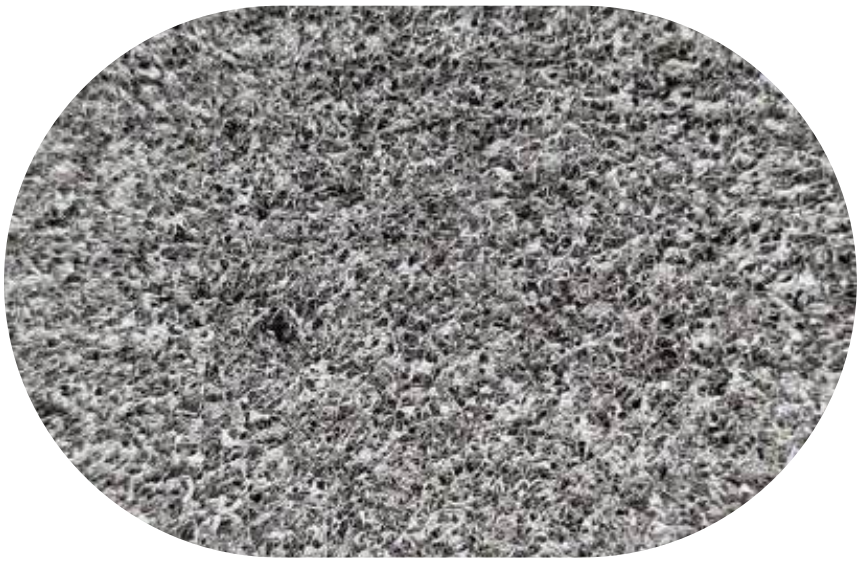
Activated carbon in **Purity Tech** plays a key role as a **humidity regulator**. By keeping humidity **levels low**, the risk of mold and fungus growth, **organisms closely associated with humid environments**, is proportionally reduced.

The achievement of this technology is done in a completely sustainable and sustainable way. Green in line with international standards that promote the recyclability of the products used

STANDARD FILTER WITH INSIDE POLYPROPYLENE



FILTER WITH PURITY TECH TECHNOLOGY



2.0 A DECISIVE STEP FORWARD COMPARED TO TRADITIONAL FILTER SYSTEMS

Today, air conditioning and ventilation filters mainly focus on removing dust. **Purity Tech**, on the other hand, introduces an **innovative approach**: not only does it reduce dust, but it also significantly reduces the most dangerous gaseous pollutants and **certifies the reduction of viruses and bacteria in the air**, offering a direct benefit in terms of **public health**.

DISTINCTIVE FEATURES:

- **Proven effectiveness:** physical-chemical tests certify the actual pollutant reduction capacity in less than a month.
- **Simple maintenance:** Easy cleaning even in very dusty environments without loss of effectiveness.
- **Flexible replacement:** normally every six months, adaptable to local requirements.
- **Universal compatibility:** Can be installed on all systems that already have a traditional filter.

STRATEGIC OPPORTUNITY:

- Local production of filters, reducing import costs.
- Strengthening the country's technological and industrial autonomy.
- High communicative value: showcasing concrete innovation developed in-house strengthens reputation and image.

In summary, **Purity Tech** represents a double victory:

- **Health and environment** – an effective, certified, and recognized system.
- **Leadership and international reputation** – ability to tackle global challenges with local technology.

The project is therefore not only a profitable investment, but also an opportunity to leave a tangible and lasting impact.

3.0 WHERE PURITY TECH FILTERS HAVE BENEFITS



HOME

Purity Tech transforms your home into a safe and healthy place by **eliminating bacteria, viruses, and invisible pollutants**. Breathe cleaner air every day and protect your family's health without sacrificing the comfort of your home.



OFFICE

In **shared spaces**, air quality makes all the difference. **Purity Tech** reduces the spread of pathogens and improves concentration, **ensuring a healthier, more productive, and comfortable working environment for everyone**.



NURSERIES AND DAYCARE CENTERS

In places where children grow up, clean air is a priority. **Purity Tech** naturally **eliminates bacteria and viruses**, creating a **safe and protected space for children every day**.

3.1 WHERE PURITY TECH FILTERS HAVE BENEFITS



SCHOOLS AND UNIVERSITIES

Purity Tech technology ensures that students and teachers enjoy purer air that is free from harmful agents. A **healthy environment** promotes learning, **serenity**, and constant attendance in the classroom.



AIRPORTS

In high-traffic areas, **Purity Tech** is the answer to ensuring safety and air quality. Its **bactericidal and antiviral effectiveness** helps create safer environments for travelers and staff.



SHOPPING CENTER

Purity Tech protects customers and operators by improving air quality in crowded indoor spaces. **Cleaner air** means a more pleasant, safer, and **sustainable experience for everyone**.

4.0 HOW TO INSTALL A PURITY TECH FILTER

Purity Tech filters are custom-made to the dimensions requested by the customer, ensuring maximum compatibility with any system.

Installation is quick and intuitive: it can be carried out directly by internal staff—as is done with normal domestic air conditioner filters—or by the technical department of more complex structures such as shopping centers or airports.

No complex operations, no system downtime: just efficiency, practicality, and cleaner air in a matter of minutes.



5.0 COMPARISON BETWEEN AC FILTERS AND PURITY TECH

CATEGORY	STANDARD FILTER	HEPA	ACTIVATED CARBON	ELECTROSTATIC	PURITY TECH
Dust block	★★☆☆☆	★★★★☆	★★☆☆☆	★★★☆☆	★★★★★
Block PM10 / PM2.5	★☆☆☆☆	★★★★★	★☆☆☆☆	★★☆☆☆	★★★★★
Bacteria block	No	95–99%	No	Partial	99%
Virus block	No	Partial	No	No	Certificate
VOC/odor blocker	No	No	Yes	No	Medium-high
Anti-pollutant chemicals	No	No	Partial	No	Complete
Humidity reduction	No	No	No	No	Yes
Air flow decrease	Low	High	Middle	Low	Very low
Average duration	30 days	3–6 months	2–3 months	6–12 months	6 months
Operating cost	Low	High	Middle	Middle	Long-term low
Compatible existing AC	Yes	Modifications	Yes	Yes	Perfectly

FEATURE	PURITY TECH PERFORMANCE
Antiviral	Certified antiviral coating
Antibacterial	99% elimination
Particles	Excellent PM10/PM2.5
VOC	High removal
Humidity	Anti-moisture
Airflow	Minimal loss
Lifespan	6 months

5.1 COMPARISON BETWEEN AC FILTERS AND PURITY TECH

ENVIRONMENT	OTHERS	PURITY TECH
Apartments	Medium	Excellent
Villas	Medium	Excellent
Offices	Medium	Excellent
Hotels	Low–Medium	Excellent
Schools	Medium	Antiviral Excellent
Hospitals	High only with HEPA	Hospital-grade

FEATURE	DESCRIPTION
Concept	Combined HEPA+Carbon+Antiviral+Anti-moisture
Benefits	Max protection + long lifespan
Compatibility	Works on any AC
Technology	Patented Italian coating

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www.puritytech.me