INDOOR AIR QUALITY FOR WELL-BEING, SUSTAINABILIT AND EFFICIENCY ENERGY.

Recomendado nor:





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Pradditive



ABOUT IBPA®

IBPA[®] is the technology based on ventilation standards for the **improvement of indoor air quality** through low-range non-dielectric electrostatics, which is integrated into the building existing HVAC system for air pathogens removal.

CHARACTERISTICS :

- Applicable to tertiary buildings, new or retrofit, with fix or variable (VAV, DVC) mechanical ventilation.
- Improves indoor air quality for energy savings in the HVAC system and decarbonization.
- 100% European and American ventilation standards and presence of people compatible.
- · Zero ozone or by-products production.

AIR PATHOGENS:

- · Particulate matter
- Mould and Spores
- · Viruses and Bacteria
- · VOC's
- · Odour and Gases

IBPA®, the first energy saving measure in a building:



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IBPA, Calidad de Aire Interior para la Sostenibilidad y Eficiencia Energética en edificios terciarios.

IBPA®: Solution for AIR QUALITY and WELL-BEING.



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We spend most of our lives inside buildings and this makes us especially sensitive to the high concentrations of environmental pathogens present in them, which are largely responsible for the daily aggressions, oxidative stress, which our body and immune system suffer.

The reduction of environmental pathogens, by means of a correct filtration **with IBPA®**, means a greater well-being:



÷, Improves rest and cellular regeneration.



Improves cognitive performance and productivity.

of

respiratory,





Strengthens the immune system.



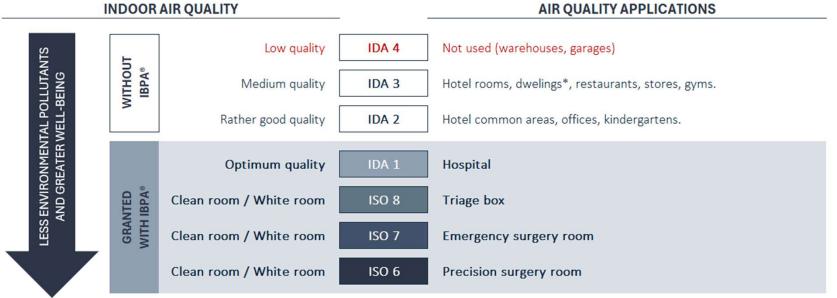


IBPA®, Calidad de Aire Interior para la Sostenibilidad y Eficiencia Energética en edificios terciarios.

IBPA®: Relationship between environmental pathogens with AIR QUALITY and WELL-BEING.

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Increasing building air quality with IBPA[®] reduces environmental pathogens and brings it in line with air used in healthcare facilities, so improves oxidative stress and the well-being of occupants:



* Dwellings are not classified by IDA's, which are exclusive for tertiary buildings; this chart represents their equivalence for information purposes only..





IBPA®: The SUSTAINABILITY AND DECARBONIZATION solution.



Improves the building indoor air quality and efficiency energy, optimizing the minimum and continuos ventilation outdoor air-flow rates, reducing primary energy consumption in:

Heat + Ventilación + Air Conditioning

1st Building energy consumption



- S. **Reduces the construction budget**, in new buildings and rehabilitation projects, by optimising ventilation air-flow rates and building thermal loads, so the size and power and cost of the whole HVAC system.
- ÷, Increases the value of the building, being a guarantee of obtaining the LEED, WELL, BREEAM or DGNB certifications maximum score.





IBPA®: The EFFICIENCY ENERGY solution.





- European standards: Optimized ventilation outdoor airflow rates based in UNE-EN-13799:2008 and UNE-EN-16798-1:2020, 'Percieved Air Quality Method'.
- Sec. Normativa Americana: Optimized ventilation outdoor airflow rates based in ASHRAE 62.1, 'Indoor Air *Quality Procedure'*. LEED, WELL and BREEAM recognized method.



Technology specifically recommended by:





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IBPA®, Calidad de Aire Interior para la Sostenibilidad y Eficiencia Energética en edificios terciarios.

IBPA®: The SUSTAINABILITY solution.



- Buildings account for 36% of the total energy consumed in the world.
- **HVAC** is the largest energy consumption, accounting for 55% of a building's total GHG emissions, on average.
- **Improving indoor air quality** means **at least an 11% reduction in global emissions** and up to 21%. IBPA® makes it possible.

2

SDG targets, achievable with IBPA®:

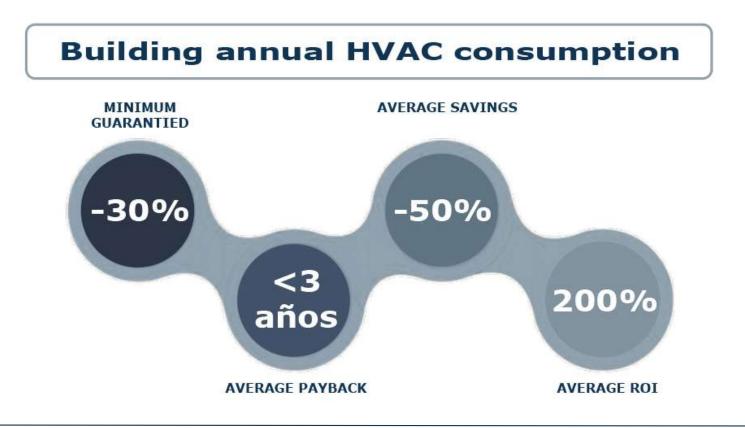




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IBPA® in figures.



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IBPA®

BUSINESS CASES

4* Boutique hotel in Madrid. Clínic Hospital Torathic and Respiratory Unit in Barcelona.

ALL DOC

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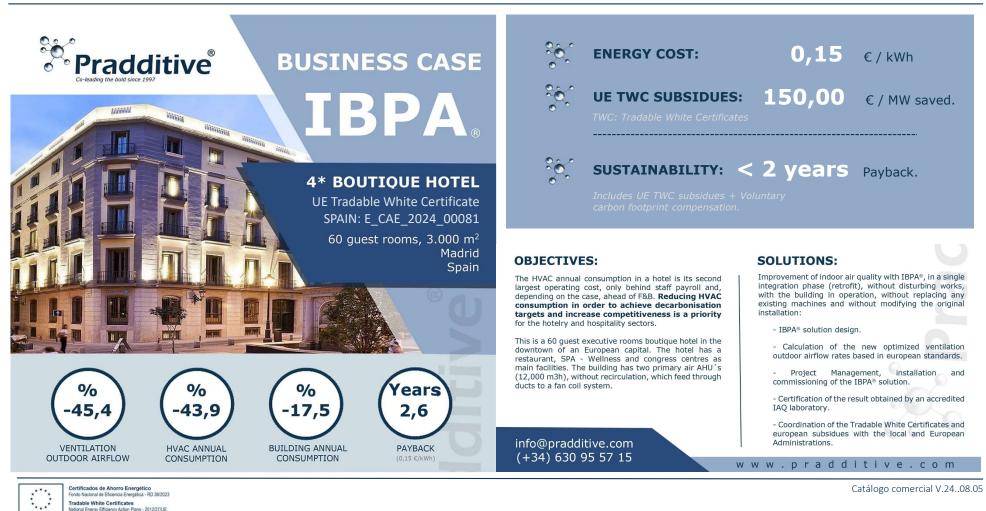


DGNB





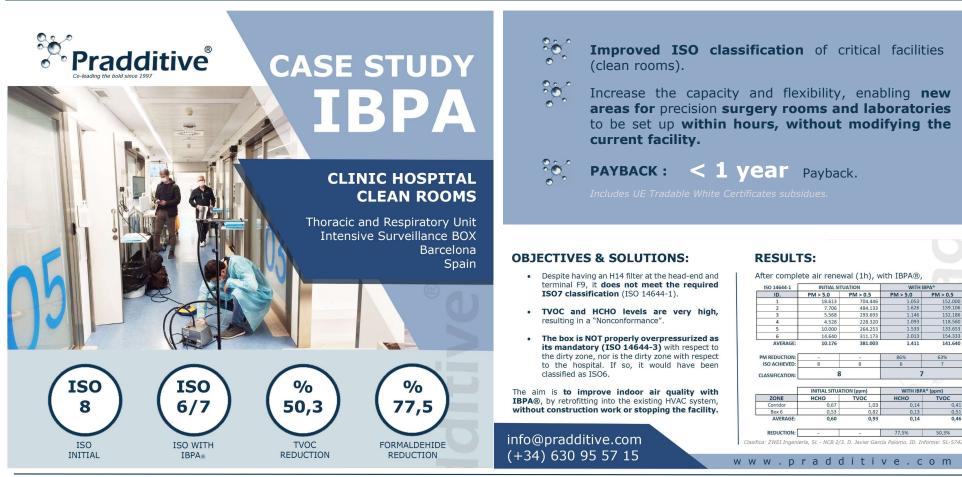






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WITH IBPA

1.053

1.626

1.146

2.013

1.411

нсно

77,5%

0.9

WITH IBPA* (ppm)

PM > 5.0 PM > 0.5

132.186

154.333

141.640

63%

TVOC

50,3%

0.46

CONTACTO:



www.pradditive.com

Rendimiento HVAC/R Eficiencia Energética Calidad de aire interior

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Co-leading the bold since 1997:



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TRAINING IBPA® Selection of air purification

technologies

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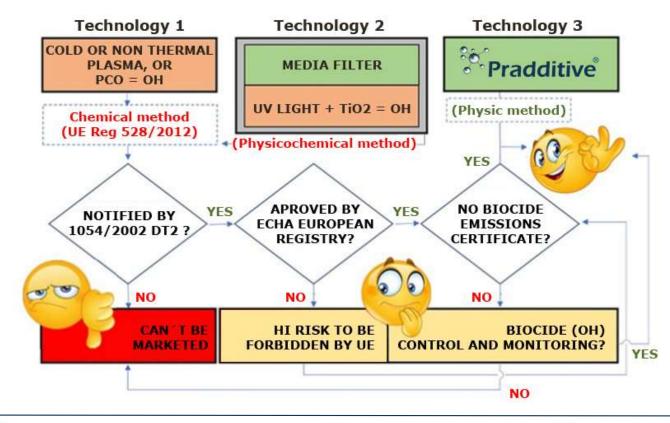


DGNB



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TRAINING: Regulatory compliance of air purification systems in TERTIARY BUILDINGS (EUROPE)



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IBPA, Calidad de Aire Interior para la Sostenibilidad y Eficiencia Energética en edificios terciarios.

TRAINING: Suitability of air purification systems in TERTIARY BUILDINGS..



- Physical action equipment is not restricted by European and American regulations.
- Chemical or physicochemical actionequipment. They can never come into direct contact with people.

DOCUMENTATION TO BE REQUESTED:



- ZERO-OZONE GENERATION CERTIFICATION.
- NO BY-PRODUCTS GENERATION CERTIFICATION.

WARNING:



Certifications must always be carried **out in an accredited laboratory, in accordance with current regulations, in an airtight chamber and on the equipment marketed**. Not on its components, independently.

