ACTIVECOATING
by MURSALLGROUP

FACT SHEET
AIR PURIFICATION TECHNOLOGY

BREATHE IN CLEAN AIR.

ACTIVECOATING by MURSALLGROUP

QUICK FACTS

Technology:	Based on photocatalysis technology, ACTIVE COATING uses artificial and natural light to decompose harmful substances in indoor air and on surfaces. ACTIVE COATING is used to coat window panes and walls in rooms!
Application area:	inside schools, nurseries, kindergartens, nursing homes, hospitals, doctor's surgeries, offices, government agencies, hotels, restaurants, private houses etc.
Products:	PURAIR for window panes Product warranty: 30 years and PURWALL for walls.
Removes harmful substances:	coronavirus strains, fine dust, ultra-fine dust, bacteria, germs, mould spores, allergens, odours
Effectiveness:	up to 99.9 percent
Tested by:	TÜV Süd, TROPOS Institute, HTL, FTZ, HygCen

	ACTIVECOATING by MURSALLGROUP	HEPA filter systems	UV-C filter systems
Removal of all relevant harmful substances	Yes	No	No
Maintenance & service expense (e.g. filter replacement)	No	Yes	Yes
Operating costs (such as electricity etc.)	No	Yes	Yes
Operating noise	No	Yes	Yes
Space requirements	No	Yes	Yes
Extremely high CO_2 emissions	No	Yes	Yes
Use of resources	Low	High	High
Production of hazardous waste (filter)	No	Yes	Yes

Conclusion:
Only Active Coating guarantees the removal of relevant harmful substances in indoor air and is the most sustainable and cost-effective solution thanks to the photocatalysis technology.

*Test reports and certificates available for download

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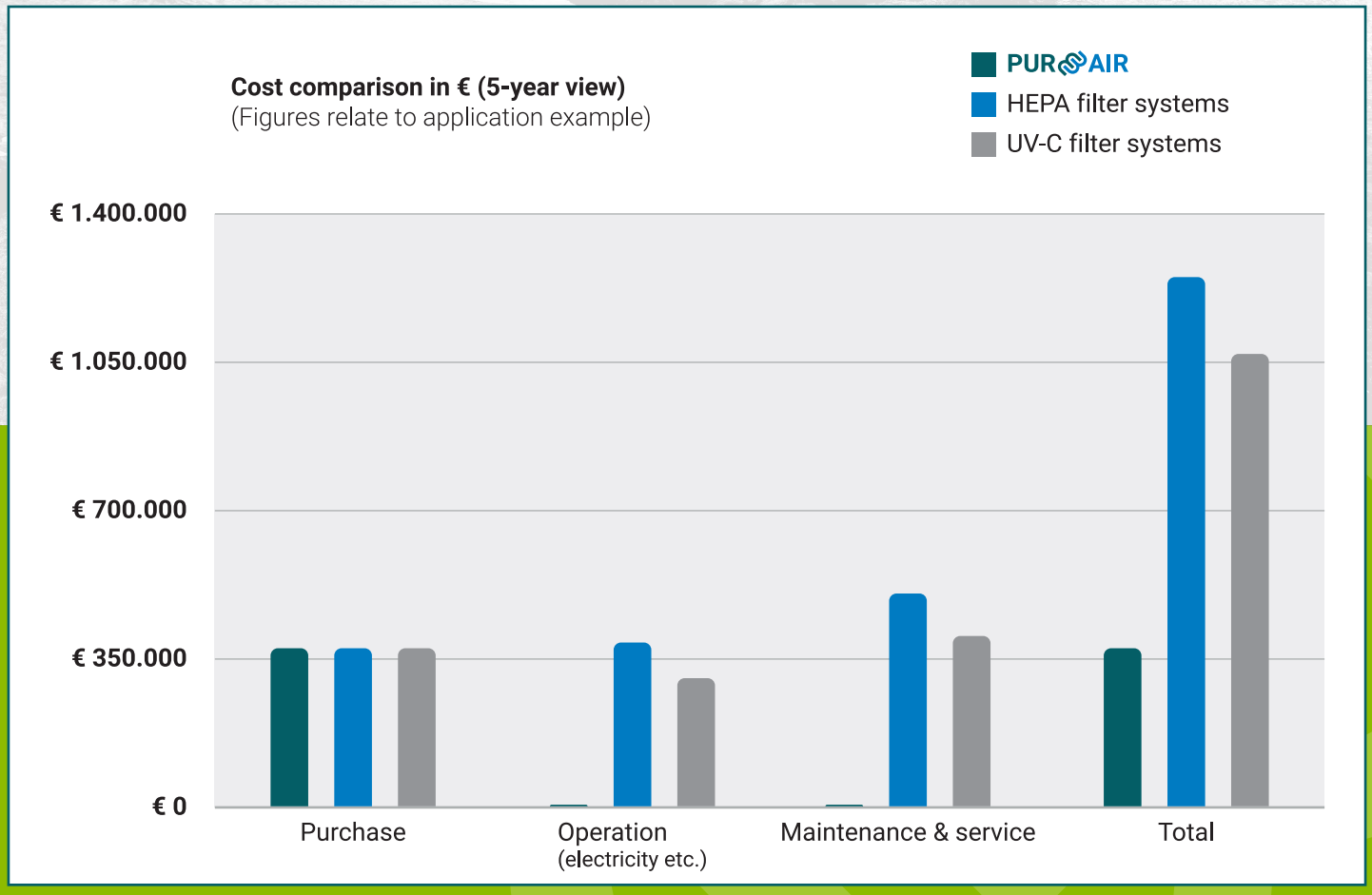
ACTIVE COATING PURAIR - COST COMPARISON

› ACTIVE COATING, HEPA & UVC FILTER SYSTEMS

„ACTIVE COATING“ is the most cost-effective solution for air purification as there are no follow-up costs after purchasing it!



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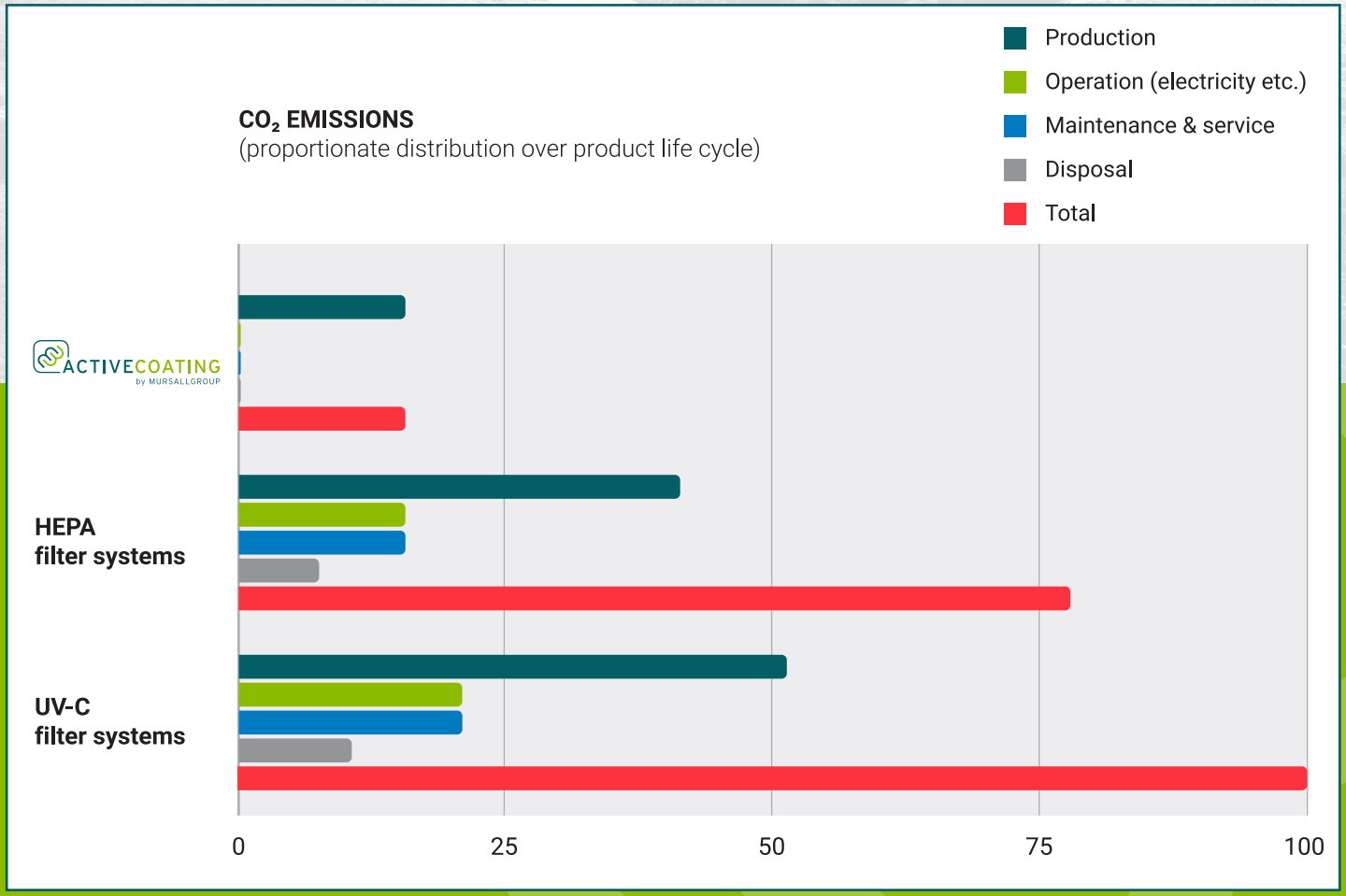
ACTIVE COATING
CO_2 EMISSIONS

› ACTIVE COATING, HEPA & UV-C FILTER SYSTEMS

„ACTIVE COATING“ focuses on sustainability and minimising CO_2 emissions, thus protecting our environment!



Take a look at the areas of application of Active Coating in the video.
Simply scan the QR code!

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APPLICATION EXAMPLE

With 1 litre of ACTIVE COATING PUR AIR, you can effectively coat a window area of around 3,000 m². This supplies a room area of approx. 24,000 m² with clean and healthy air.

For rooms in schools, day care centres, kindergartens, offices, hotels and restaurants, a ratio of 5 m² room area to 1 m² coated glass is recommended – i.e. around 15,000 m² with 1 litre.

A Trotec HEPA device can supply an area of 80 m² with fresh air. 188 devices are required and an investment of around € 375,000 plus 19% VAT in order to supply a room area of 15,000 m² with healthy breathable air. The investment sum for ACTIVE COATING PUR AIR is about the same. This can coat 3,000 m² of window glass.

For a room area of 8 m² and a room height of 2.5 metres, there should be a coated glass area of 1 m².
In this example, one litre of PUR AIR would still supply an area of approx. 15,000 m² with healthy breathable air.

188 filter devices have to be produced with high energy expenditure and high CO_2 emissions.
In addition, valuable raw materials and high-quality materials such as plastics, metals, circuit boards, elements for producing filters, copper cables and many more are consumed.

One filter device requires 0.75 KWh electricity for operation. 188 devices consume 141 KW electricity per hour. If these devices are in operation for 8 hours, they consume 1,128 KWh each day. This costs (calculated according to lower electricity costs in Austria) around 214 euros.

Per day, 8 hours of filtering, commercial electricity cost calculation (commercial is cheaper) results in electricity costs of about €78,000 per year.

If the electricity is not drawn from renewable energy sources, these devices emit immense amounts of CO_2 emissions.

Due to the high connected loads of the devices, there is the risk that the power grids in schools, day care centres and kindergartens will not allow for widespread use, not to mention the consumption and costs of filters.

Two filters are used in each device: a pre-filter for around €33 plus 19% VAT and a H14 high-performance filter according to EN1822 for around €235 plus 19% VAT.

The filters need to be replaced twice a year. There would be annual follow-up costs here of around €100,990 plus 19% VAT for filter replacement. Plus the costs of working time for replacement.

BREATH

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