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# UVGERMI®

ULTRAVIOLETS DE HAUTE TECHNOLOGIE

*Specialist in  
UV technology for  
air treatment.*

● ○ ● MADE IN FRANCE

## GERMI R75 FILTER +

**Air purifier with UV disinfection and mechanical filtration** to fight viruses, bacteria, volatile organic compounds and fine particles.

> **Surface area treated:** 20 to 200 m<sup>2</sup>

### SOLUTIONS FOR:

- OFFICES, CHANGING ROOMS, WAITING ROOMS
- DOCTOR'S SURGERIES AND HOSPITAL ENVIRONMENTS
- FOOD AND PHARMACEUTICAL INDUSTRIES
- PUBLIC BUILDINGS



# TECHNICAL SPECIFICATIONS

## AIR FLOW

Adjustable range: 70 - 150 m<sup>3</sup>/h

## NOISE LEVEL

<40 dBA from 2 m at minimum speed

## POWER

**Power supply:** 230 V  
**Max power:** 100 W

## DIMENSIONS

**Height:** 1,196 cm  
**Diameter:** 260 cm  
**Depth:** 40 cm  
**Weight:** 22 kg

## ASSOCIATED PRODUCTS

75 W UV lamp **14000101**  
Particle filters (x5) **20000633**

## INTERFACE

**ON/OFF switch**  
**Speed selector**  
**Indicator light strip**  
(lamp service life):  
Blue < 8,000 h / Red > 8,000 h

## Removal of pathogens (*bacteria, viruses and mould*)

The results indicate very high effectiveness with 80 to 90% removal of Streptococcus Epidermis bacteria and similar removal of Aspergillus Niger mould.

The effectiveness is given for a single pass through the system. Air purifiers that remove more than 80% microorganisms are said to be effective.

Test results on at least two microorganisms can be extrapolated for other microorganisms using the lethal doses for each species. **The table opposite presents the removal rate in one pass for various microorganisms.**

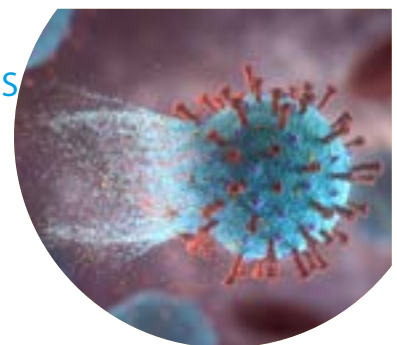
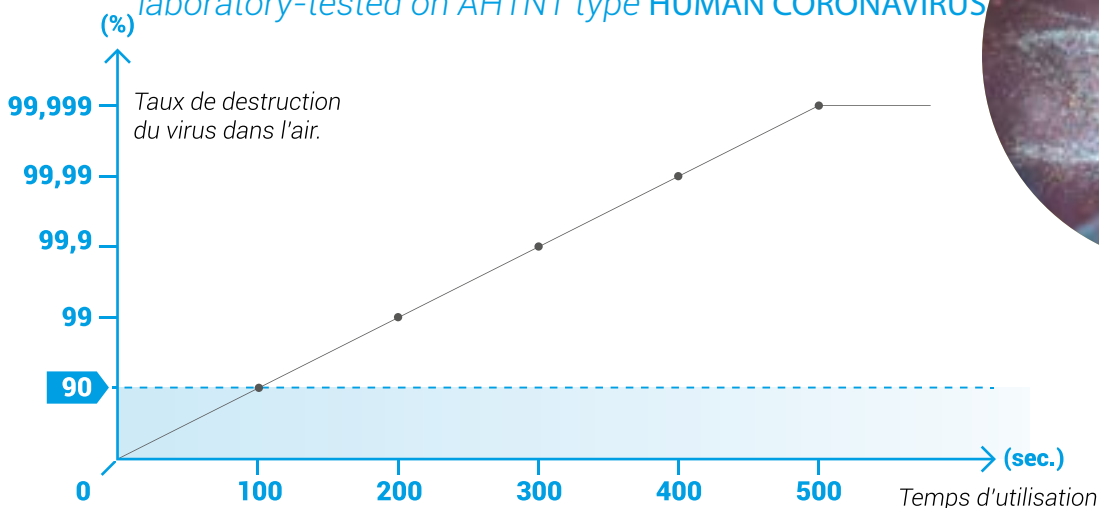
TYPE OF MICROORGANISM	REMOVAL RATE FOR EACH PASS THROUGH THE REACTOR (%)
Influenza Virus	75
E. Coli	75
Salmonellae	32-80 *
Bacilli	22-99 *
Streptococcus	85
Staphylococcus	74-86 *
Legionellae	38-99
Aspergillus	80
Hepatis	61

\* The device, when operating continuously, will guarantee a large number of passes and removal close to 99%.

**MORE THAN 90% REMOVAL ON HUMAN CORONAVIRUS TESTED IN AN INTERNATIONAL BIOMEDICAL RESEARCH CENTRE**  
(Report on demand.)

## Effectiveness of UVGERMI technology

*laboratory-tested on AH1N1 type HUMAN CORONAVIRUS*



## Removal of Volatile Organic Compounds (VOCs)

As well as causing unpleasant smells, VOCs in ambient air are known to be toxic for humans, some being identified as carcinogenic.

UVGERMI technology has been selected for a **European collaborative research and development project** to study the improvement of air quality in aircraft.

Three byproducts were analysed in the treated air: it was proved that the device did not create **formaldehyde, ozone nor carbon monoxide**.

On the other hand, the CO<sub>2</sub> concentration in the treated air increased, due to the photocatalytic

oxidation and mineralisation of VOCs into CO<sub>2</sub>. This proves the effectiveness of the system: **pollutants are completely destroyed and transformed into CO<sub>2</sub>, a harmless molecule in the minute concentrations detected.**



## Fine particle treatment

The **GERMI R75 Filter +** is equipped with filters to trap PM1 fine particles (particle size below 1 µm).

As these particles can penetrate deep in the human respiratory system, they may cause respiratory and cardiovascular diseases.

The effectiveness of these filters defined according

to the requirements of **NF EN ISO 16890 standard**: "Air filters for general ventilation - Part 1: Technical specifications, requirements and classification system based upon particulate matter efficiency (ePM)" varies between 50 et 80%.

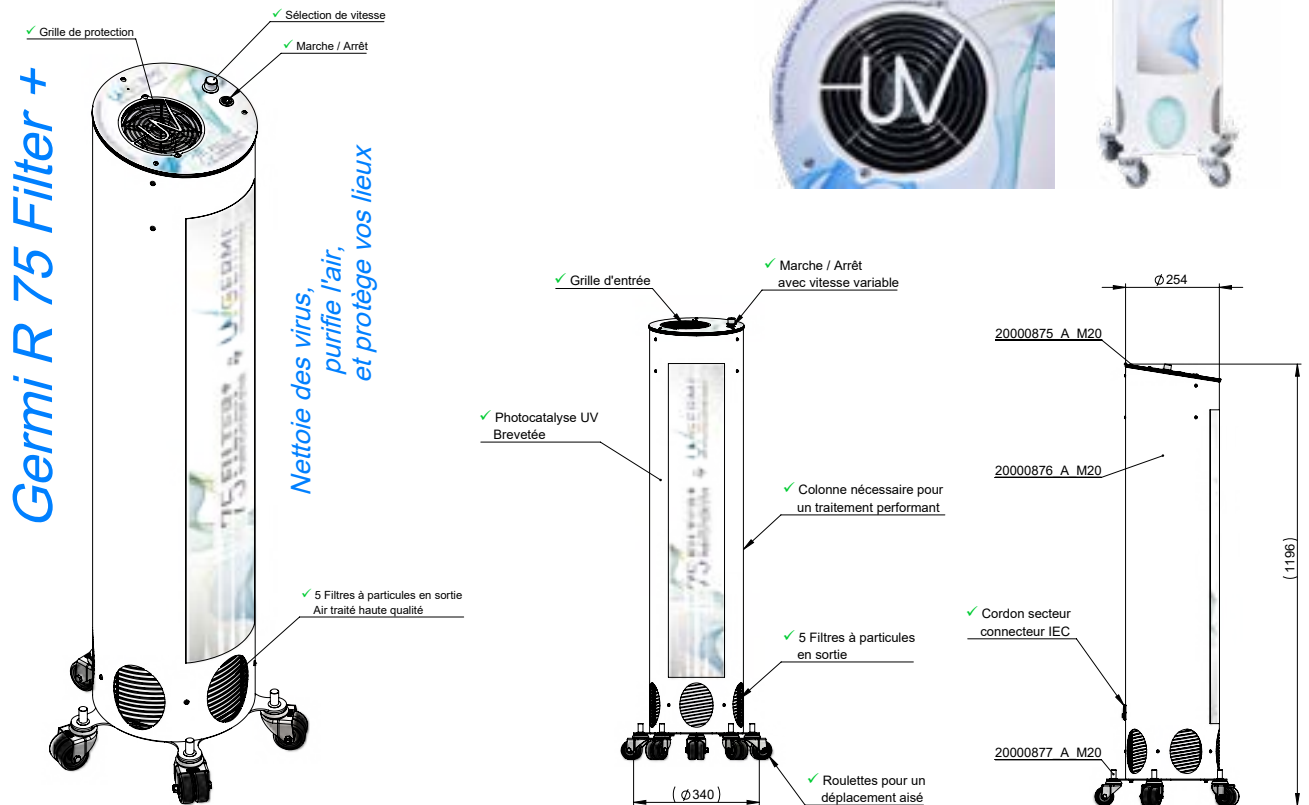
**ADEME**



Following various tests carried out by the ADEME (the French Agency for the environment and energy management), UVGERMI technology was qualified as the most efficient, ranking above 20 other devices using various techniques.

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## INSTALLATION - MAINTENANCE

The **GERMI R75 FILTER +** can be plugged into a standard 230 V socket. Maintenance is limited to the replacement of the UV lamp and particle filter. The UV lamp has a limited lifetime of up to 8,000 hours. After that, the disinfection and photocatalytic action are no longer guaranteed.

**UVGERMI®**  
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