

# VIRALSAFE®

BY CTM

## BULPREN FILTER

**EASILY ADD SAFETY TO YOUR EXISTING AIR VENTILATION  
HELPS KILL BACTERIA AND VIRUSES**

### THE NEW STANDARD IN AIR FILTRATION

Our revolutionary ViralSafe Bulpren filter can easily be fitted as a pre- or post-filter in any air conditioner, ventilation machine, heat pump and air purifier that circulates air. The material is thin and easy to form into any shape or dimension to provide bacteria and virus killing properties to your air flow. Due to the low flow resistance of the material, high powered equipment is not needed and does not require changes to existing units.

The ViralSafe Bulpren filter can be fitted in hospitals, shopping centers, office entrances, waiting rooms, restaurants, children's daycare centers, schools, grocery stores, elevators as well as the air conditioner in any home.

### VIRALSAFE BULPREN FILTER KILLS GERMS ON EVERY PASS

Resulting in less and less harmful substances over time.



### FITS YOUR EXISTING EQUIPMENT

- Helps kill bacteria and viruses
- Easy to install
- Cost effective
- Low air resistance
- No need for expensive equipment

#### ACTIVE INGREDIENT

The product's active ingredients are silver & metal hybrids.

| VIRALSAFE FILTER                     | VSF60 (PPI60) | VSF100 (PPI100) |
|--------------------------------------|---------------|-----------------|
| Density (ISO845, kg/m <sup>3</sup> ) | 26-30         | 50-56           |
| Compression (ISO3386, kPa)           | 2-4           | 4-6             |
| Elongation (ISO1798, %)              | >350          | 400             |
| Tensile Strength (ISO1798, kPa)      | >200          | 240             |
| Cell diameter (micron)               | 440-520       | ≤400            |

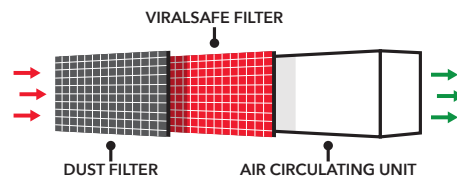
| PRESS. MEASUREMENT 100M <sup>3</sup> /h | 120M <sup>3</sup> /h | 140M <sup>3</sup> /h |
|---|----------------------|----------------------|
| VSF60 (PPI60 / 5mm)                     | 39Pa                 | 53Pa                 |
| VSF100 (PPI100 / 6mm)                   | 68Pa                 | 105Pa                |

The area of the tested material is D160mm, ie approx. 200cm<sup>2</sup>. The results include the pressure drop in the housing.

#### INSTALLATION, CLEANING & REPLACEMENT

The ViralSafe Bulpren filter is recommended to be installed behind the dust filter, to reduce the service interval.

The recommended filter replacement interval is 3-6 months. Replacement interval depends on various factors, including amount of dust and air moisture. Please consult your sales representative for more information.



### SURFACE TEST RESULTS

#### VIRUSES

- Murine Norovirus
- RSV
- SARS CoV-2
- SARS CoV-2 ISO 21702
- SARS CoV-2 B.1.1.7 (UK variant)
- H1N1 (influenza A / swine flu)
- H5N8 (bird flu)

<60sec. 96,7%  
30 sec. 95% 60 sec. 96%  
60 sec. 97%  
Acquired  
60 sec. 97%  
30 sec. 91% 60 sec. 93%  
30 sec. 87% 60 sec. 90%



#### BACTERIA

- Listerine monocytogenes
- Salmonella SPP.
- Bacillus cereus
- Staphylococcus aureus
- Escherichia coli
- MRSA AT CC 43300

<10 min. 100%  
<10 min. 100%  
<10 min. 99,9%  
<10 sec. 99,9%  
<10 sec. 99,9%  
10 min. 99,9%, ISO 22196:2011

