

# Technical Information

# PureFlow 200 inline filter box

SUSTAINABLE SOLUTIONS FOR YOUR COMFORT

**NEW**

## Technical Information



INTERNATIONAL 2026

Valid from 1st of January 2026

**YOUR AIR IS A CHOICE, WHAT WILL YOU CHOOSE?**

# PureFlow 200 Filter box

## DESCRIPTION

The inline filter box is manufactured from EPP (Expanded Polypropylene), a material known for its excellent thermal and sound insulation properties. Thanks to this innovative material, the filter box does not require any additional insulation, reducing installation costs and simplifying system integration. Quick and easy filter replacement



### PureFlow 200

Solution for ventilation systems with and without heat recovery

The filter box can accommodate up to three filters. To ensure high filtration of the incoming outside air, the combination of filters can be used. As pre-filter **ISO Coarse 75% / MERV 8** filter should be used. An **ePM 1 60% (F7) / MERV 13** filter or a **Carbon 250g F7 (ePM2.5 65%)** filter can be installed as additional in different combinations.

**Filters are not in scope of delivery of filter box.**

Filters must be replaced every 6 months, depending on the quality of the outside air.

## PureFlow 200 Usage Across Different Room Types

Space Category	ISO Coarse 75% Applications	F7 ePM1 60% (Minipleat) Applications	Carbon 250g F7 (ePM2.5 65%) Applications
Industrial	<ul style="list-style-type: none"> <li>• Primary filtration in factories</li> <li>• Welding fume pre-filtration</li> <li>• Woodworking dust collection</li> </ul>	<ul style="list-style-type: none"> <li>• Cleanroom pre-filters</li> <li>• Pharmaceutical manufacturing</li> <li>• Electronics assembly</li> </ul>	<ul style="list-style-type: none"> <li>• Chemical processing areas <ul style="list-style-type: none"> <li>• Paint booth exhaust</li> <li>• Solvent handling zones</li> </ul> </li> </ul>
Commercial	<ul style="list-style-type: none"> <li>• Shopping mall air handlers</li> <li>• Parking garage ventilation</li> <li>• Warehouse make-up air</li> </ul>	<ul style="list-style-type: none"> <li>• Office building AHUs</li> <li>• Hospital general areas</li> <li>• University classrooms</li> </ul>	<ul style="list-style-type: none"> <li>• Hotel kitchens</li> <li>• Fitness center air</li> <li>• Casino smoking areas</li> </ul>
Residential	<ul style="list-style-type: none"> <li>• Apartment building intake air <ul style="list-style-type: none"> <li>• Window unit pre-filters</li> <li>• Basement ventilation</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Luxury condo central air</li> <li>• Allergy-sensitive homes</li> <li>• Post-construction cleanup</li> </ul>	<ul style="list-style-type: none"> <li>• Home theaters</li> <li>• Plant grow rooms</li> <li>• Pet grooming areas</li> </ul>
Healthcare	<ul style="list-style-type: none"> <li>• Laundry room exhaust</li> <li>• Service corridor ventilation</li> <li>• Morgue air handling</li> </ul>	<ul style="list-style-type: none"> <li>• Patient room supply air</li> <li>• Laboratory backup filtration</li> <li>• Pharmacy storage</li> </ul>	<ul style="list-style-type: none"> <li>• Sterile processing <ul style="list-style-type: none"> <li>• Autopsy rooms</li> </ul> </li> <li>• Oncology treatment areas</li> </ul>

# PureFlow 200 Filter box

## FILTER BOX USAGE ACROSS DIFFERENT ROOM TYPES

Space Category	ISO Coarse 75% Applications	F7 ePM1 60% (Minipleat) Applications	Carbon 250g F7 (ePM2.5 65%) Applications
<b>Food Service</b>	<ul style="list-style-type: none"> <li>Dry storage ventilation</li> <li>Walk-in cooler air</li> <li>Loading dock make-up air</li> </ul>	<ul style="list-style-type: none"> <li>Dining area recirculation</li> <li>Bakery air supply</li> <li>Packaging areas</li> </ul>	<ul style="list-style-type: none"> <li>Deep fryer exhaust</li> <li>Trash compactor rooms</li> <li>Brewery fermentation</li> </ul>
<b>Transportation</b>	<ul style="list-style-type: none"> <li>Train station platforms</li> <li>Airport baggage areas</li> <li>Bus depot ventilation</li> </ul>	<ul style="list-style-type: none"> <li>Aircraft cabin air</li> <li>Cruise ship staterooms</li> <li>EV battery rooms</li> </ul>	<ul style="list-style-type: none"> <li>Airport smoking lounges</li> <li>Ship galleys</li> <li>Vehicle paint shops</li> </ul>

## COMPARISON OF VENTILATION FILTER COMBINATIONS

### DETAILED COMPARISON TABLE FOR VENTILATION FILTER OPTIONS

Filter element	ISO Coarse 75%	F7 ePM1 60% (Minipleat)	Carbon 250g F7, ePM2.5 65%
Large Particles >10 µm	 Dust, sand, hair, ash	 Dust, ash	 Do not filter
Medium Particles 1-10 µm	 Partial (25% omitted)	 Mould spores, pollen	 Do not filter
Fine Particles 0.3-1 µm	 Do not filter	 PM2.5, bacteria, several viruses	 Do not filter
Ultrafine Particles <0.3 µm	 Do not filter	 Partial (COVID-19, aerosol)	 Do not filter
Chemicals (VOC, gases)	 Do not filter	 Do not filter	 Odours, formaldehyde, ozone
Fumes and aerosols	 Do not filter	 Smoke particles	 Partial (smoking smoke)

 Complete filtration



Partial filtration



Not filtering or not effective

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## COMPARISON OF VENTILATION FILTER COMBINATIONS

Recommended types of use

Application	ISO Coarse 75%	ISO Coarse 75% + F7 ePM1 60%	ISO Coarse 75% + Carbon Filter (250g)	ISO Coarse 75% + F7 ePM1 60% + Carbon Filter (250g)
Industrial premises	✓ Good	✓ Perfect	⚠ For large particles only	✓ Comprehensive protection
Hospitals/ laboratories	✗ Insufficient	✓ Mandatory	✗ Insufficient	✓ Perfect solution
Living areas	⚠ Basic level	✓ Good	⚠ For odours only	✓ Best air quality
Kitchens/ restaurants	✓ For large particles	✗ Insufficient	✓ Efficient	✓ Comprehensive protection

## DETAILED COMPARISON TABLE FOR VENTILATION FILTER OPTIONS

Filter element	ISO Coarse 75%	ISO Coarse 75% + F7 ePM1 60%	ISO Coarse 75% + Carbon Filter (250g)	ISO Coarse 75% + F7 ePM1 60% + Carbon Filter (250g)
Large Particles >10 µm	✓ 75% retention	✓ ~99% retention	✓ ~99% retention	✓ ~99% retention
Medium Particles 1-10 µm	⚠ 25% retention	✓ ~95% retention	⚠ 25% retention	✓ ~95% retention
Fine Particles 0.3-1 µm	✗ Do not filter	✓ ~60% retention	✗ Do not filter	✓ ~60% retention
Ultrafine Particles <0.3 µm	✗ Do not filter	⚠ Partially retained	✗ Do not filter	⚠ Partially retained
Chemicals (VOC, gases)	✗ Do not filter	✗ Do not filter	✓ Efficient adsorption	✓ Efficient adsorption
Smells	✗ Do not filter	✗ Do not filter	✓ Good retention	✓ Good retention
Bacteria and larger viruses	✗ Do not filter	✓ Partially retained	✗ Do not filter	✓ Partially retained
Fumes and aerosols	✗ Do not filter	✓ Particle retention	⚠ Partial adsorption	✓ More complete protection

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## COMPARISON OF VENTILATION FILTER COMBINATIONS

### PARTICLE CATEGORIES & EXAMPLES

Particle Type	Specific Examples	Common Sources
Large Particles >10 µm	Dust, sand, pet hair, plant matter, large ash particles, insect debris	Construction sites, forests, agricultural areas
Medium Particles 1-10 µm	Mold spores, pollen, larger bacteria, industrial dust	Damp areas, urban environments, factories
Fine Particles 0.3-1 µm	PM1 fine dust, smoke particles, some bacteria, plant spores	Road traffic, combustion processes
Ultrafine Particles <0.3 µm	Viruses (flu, COVID-19), some aerosols, metal nanoparticles	Disease transmission, metalworking, vaping

### CHEMICAL SUBSTANCES & GASES

Substance Type	Specific Examples	Common Sources
VOCs	Formaldehyde, benzene, toluene, xylene	Paints, furniture, cleaning products
Harmful Gases	Ozone (O <sub>3</sub> ), sulfur dioxide (SO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> )	Exhaust fumes, industrial emissions

### BIOLOGICAL AGENTS

Agent Type	Specific Examples	Common Locations
Bacteria	Staphylococcus, Streptococcus, Legionella	Hospitals, humid areas, AC systems
Larger Viruses	Influenza (~0.12µm), COVID-19 (~0.1µm)	Public spaces, transportation

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## COMPREHENSIVE OVERVIEW OF VENTILATION FILTER CAPABILITIES

### SMOKE & AEROSOLS

Type	Specific Examples	Common Sources
Smoke	Tobacco smoke, combustion particles, wildfire smoke	Smoking areas, roads, fires
Aerosols	E-cigarette vapor, spray particles, cosmetic mists	Indoor spaces, beauty salons

### PRACTICAL IMPLEMENTATION GUIDE

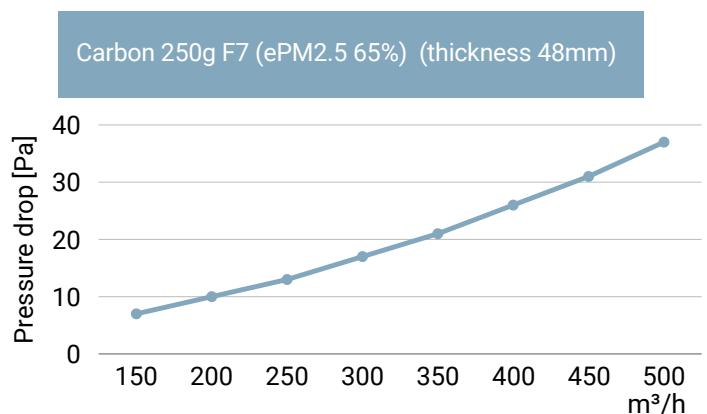
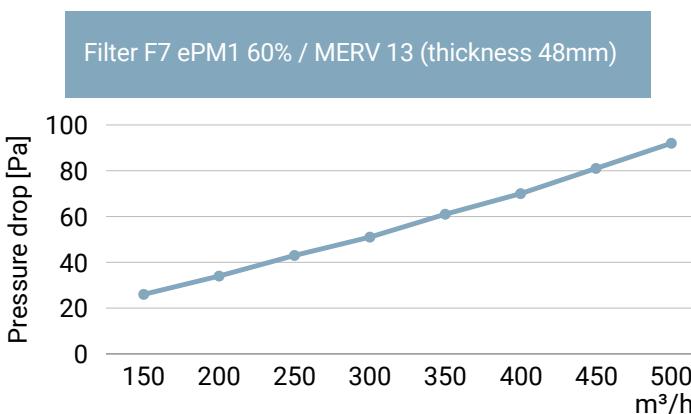
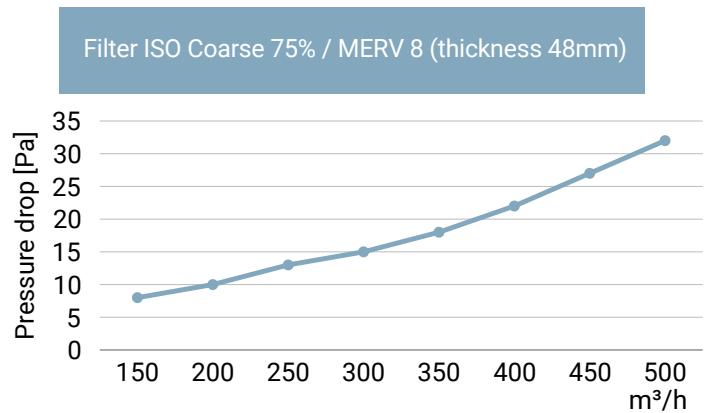
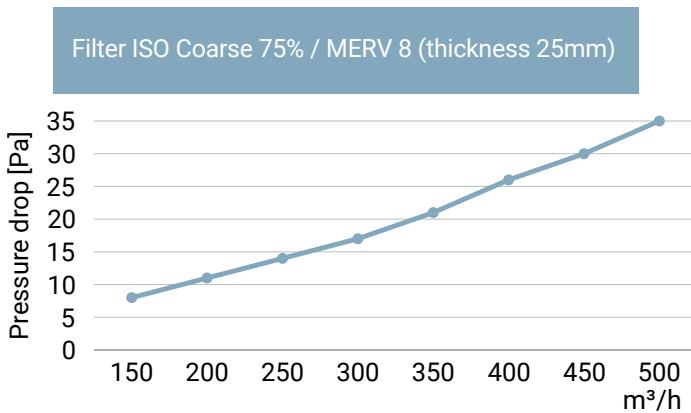
Environment	Recommended Setup	Why This Works	Real-World Example
Urban Apartment	ISO + F7 + Carbon	Combats pollution and odors	High-rise near traffic
Allergy Household	ISO + F7	Removes allergens	Child's bedroom
Industrial Kitchen	ISO + Carbon	Handles grease and odors	Restaurant exhaust system
Medical Lab	All Three Filters	Complete protection	Virology research facility

### MAINTENANCE REQUIREMENTS

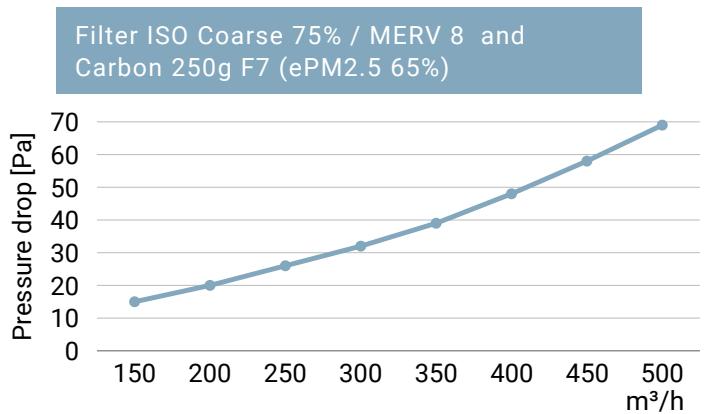
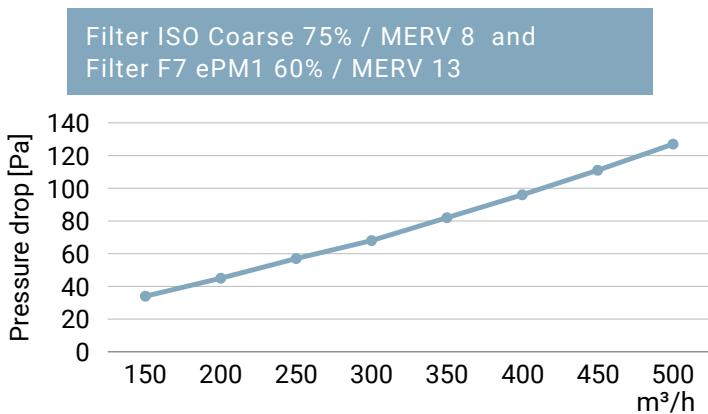
Filter Type	Replacement Frequency	Special Considerations
Filter ISO Coarse 75% / MERV 8	Every 3-6 months	Check monthly in dusty environments
Filter F7 ePM1 60% / MERV 13	6-12 months	Monitor pressure drop
Carbon 250g F7 (ePM2.5 65%)	6-12 months	Replace when odors return

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## PRESSURE DROP

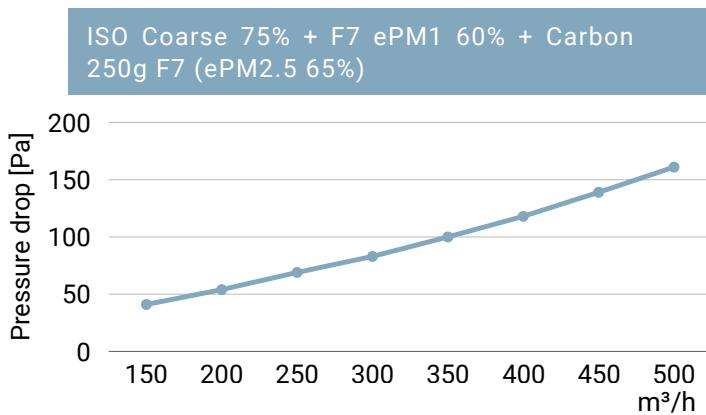


## FILTER COMBINATION PRESSURE DROP

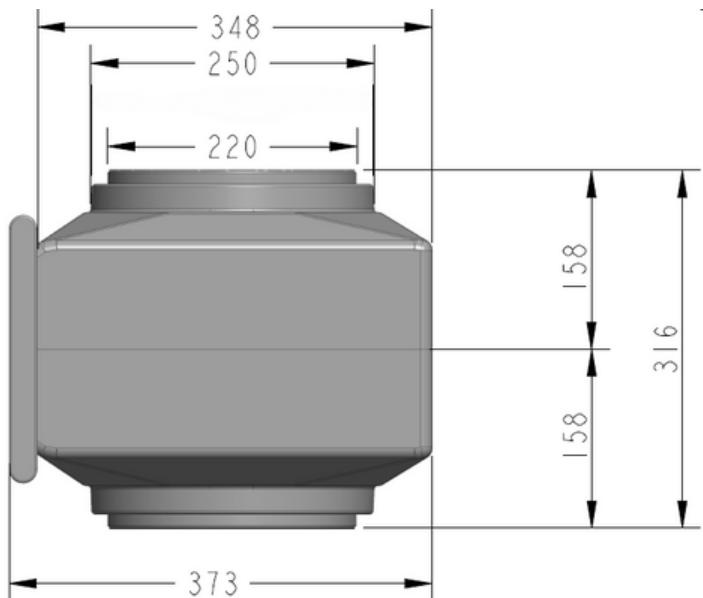
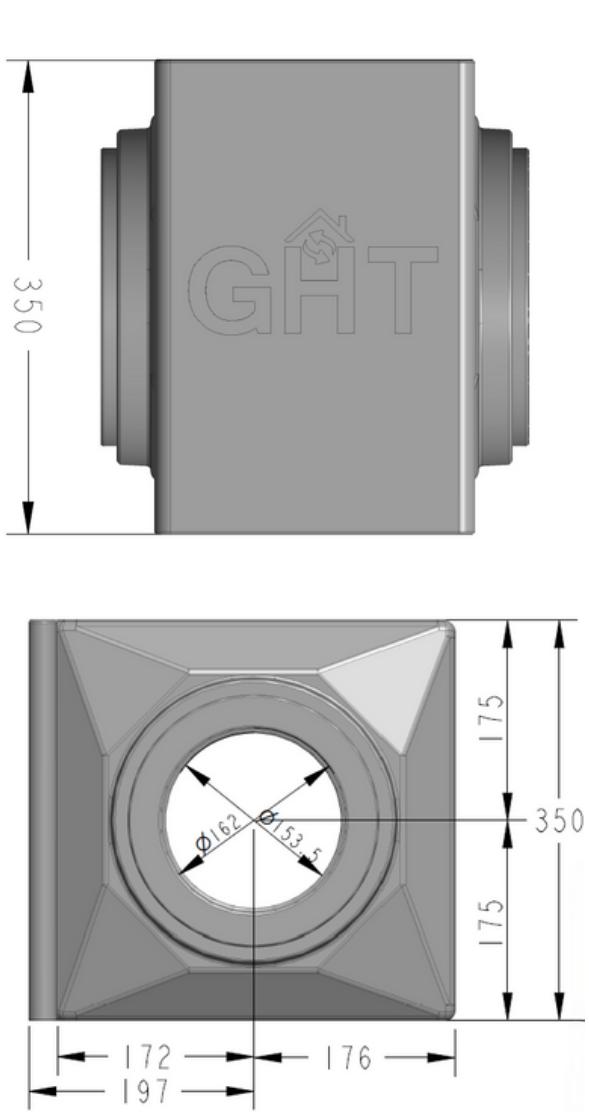


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## FILTER COMBINATION PRESSURE DROP



## DIMENSIONS [mm]



Duct connection adapters DN200/DN160  
Duct connection adapters 8"/6"



# Contacts

“GHT SOLUTIONS” Ltd

18; Block 19 Vincenti Bld, Strait Street, VLT 1432, Valletta, MALTA

[www.ghsolution.com](http://www.ghsolution.com)