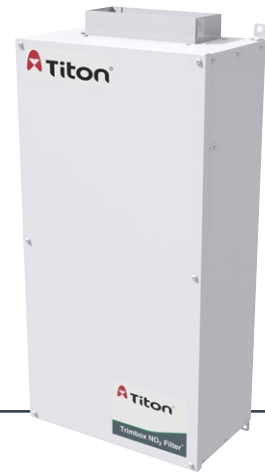


# Trimbox NO<sub>2</sub> Filter<sup>®</sup>

Offering extra protection against external NO<sub>2</sub> pollutants



## Description

Trimbox NO2 Filter<sup>®</sup>

## Product Codes

220 x 90 - **TP550**

Ø160 - **TP552**

Ø150 - **TP554**

## Filters

ISO ePM1 55% (F7) pre filter - **XP2010121**  
(ISO Coarse 60% (G4) standard in units)

## Removable insulation jacket

220x90mm ports - **XP9910248**

150 or 160mm ports - **XP9910305**

Behind unit duct mounting kit - **TP558**

## Standards

Third party tested for both NO<sub>2</sub> and acoustic reductions based around the standards currently in place for health as specified by the World Health Organisation and the European Union.

Testing references:

COSHH - Workplace exposure limits

COMEAP - Government guidance regarding health of air pollution

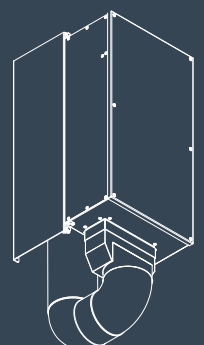
WHO - World Health Organisation



## Features

- Effective in reducing pollutants in the home, improving Indoor Air Quality (IAQ) and reducing the risk of Toxic Home Syndrome
- Low pressure drop
- Low cost
- Optional ISO ePM1 55% (F7) filter can be installed to further improve indoor air quality
- Independently tested by BRE
- Small compact design
- Compatible with Titon's range of MVHR units
- Fully lined box to reduce duct bound noise and condensation
- The unit can be installed in both intake air and supply ducting
- 98% NO<sub>2</sub> reduction at pre filter concentrations of  $\approx 200\mu\text{g m}^{-3}$
- Effective silencer
- Third party tested for both NO<sub>2</sub> and Acoustic reductions
- ISO Coarse 60% (G4) filter reduces 100% of PM10/35% of PM2.5 particles
- ISO ePM1 55% (F7) filter reduces up to 95% of PM2.5 particles

Behind unit duct mounting kit available



## Specification

**Dimensions:** 350mm wide x 690mm high (excluding ports) x 205mm deep

**Port Dimension:** 220mm x 90mm, Ø150mm, Ø160mm

**Weight:**  
17 Kg  
Insulation Jacket - 2.8 Kg

**Finish:** White Paint

**Materials:**  
Housing: Zintec sheet steel housing, powder coated white.

Internals: Zintec sheet steel.

Pre-Filter: Grade ISO Coarse 60% (G4) synthetic filters as standard, ISO ePM1 55% (F7) optional.

Active Carbon Filter: Honeycomb matrix constructed filter filled with granular active carbon.

**Internal Insulation:** Closed cell foamed nitrile rubber, class 'O' fire rating.

**Duct Ports:** Plastic.

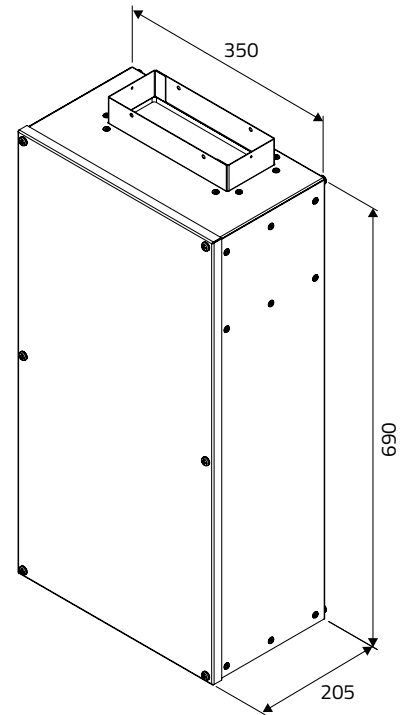
**Installation:** To be installed accordance with the relevant and applicable building regulations.

These units can be installed either vertically or horizontally.

**Maintenance:** Service and filter cleaning/ replacement subject to local environment – see product manual.

**Accessories**  
Replacement pre-filters and active carbon filters.

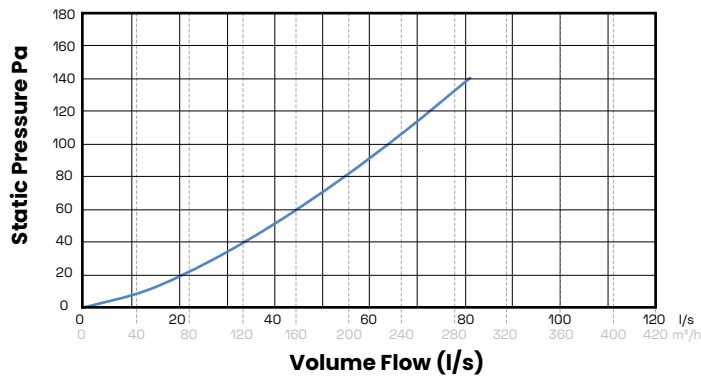
## Drawing & Dimensions



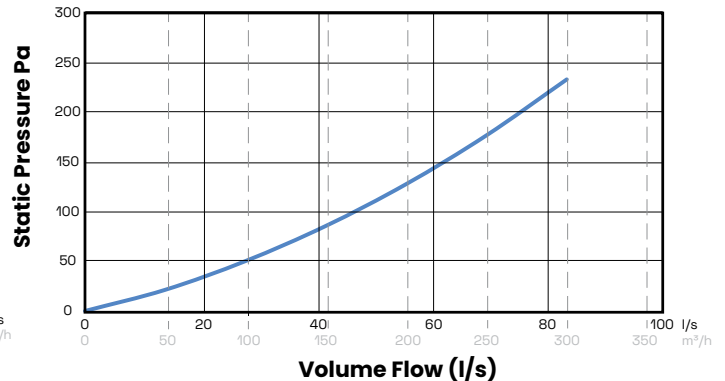
Dimensions in mm

## Resistance – Trimbox NO2 Filter®

ISO Coarse 60% (G4) Prefilter



ISO ePM1 55% (F7) Prefilter



## Nitrogen dioxide filtration and unit pressure drop

(Based on nitrogen dioxide pre filter concentrations of  $\approx 200\mu\text{g m}^{-3}$ )

Airflow rate (l/s)	Filter pressure drop (Pa)	Concentration reduction (%)
<b>Unit One (3 filters)</b>		
29	31	97.6
80.3	134	97.9

## Acoustic Data

Independently tested at SRL, report reference C/23276/T05 to BS EN ISO 7235:2009

Description	Octave Band (Hz) Static Insertion Loss, dB							
	63	125	250	500	1000	2000	4000	8000
<b>Unit One</b>	6.5	7.6	4.9	8.6	16.1	26.8	32.9	36

All data is third party tested at BRE and Sound Research Laboratories (SRL) Ltd.