Offering extra protection against external NO_2 pollutants

The Titon Trimbox NO_2 Filter® reduces Nitrogen Dioxide (NO_2) which is predominately produced by exhaust gases from diesel engines.

Due to this pollution arising in cities and urban areas there is a need to implement mitigation measures to improve the indoor air quality (IAQ). The Trimbox NO_2 Filter® is an effective means of reducing high NO_2 to an acceptable mean annual concentration level of 40µg/m³.

In addition to outstanding NO_2 reductions, the Titon Trimbox active carbon filters also absorb sulphur dioxide, hydrogen sulphide, hydrogen chloride, ammonia odours, volatile organic compounds and solvents.

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Features & Benefits

- **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 F7 filter can be installed to further improve indoor air quality**
- **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_2 reduction at pre filter concentrations of ≈ 200µg m³**
- **Effective silencer**
- **Third party tested for both NO_2 and Acoustic reductions**
- **G4 filter reduces 100% of PM10/35% of PM2.5 particles**
- **F7 filter reduces up to 95% of PM2.5 particles**

Acoustic Data

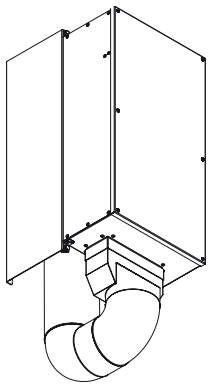
Independently tested at SRL, report reference C/23276/TO5 to BS EN ISO 7235:2009

Description	Octave Band (Hz) Static Insertion Loss, dB							
	63	125	250	500	1000	2000	4000	8000
Unit One (3 filters)	6.5	7.6	4.9	8.6	16.1	26.8	32.9	36
Unit Two (4 filters)	6.1	6.8	5.6	10	18.5	35.3	35	39.8

Nitrogen dioxide filtration and unit pressure drop

(Based on nitrogen dioxide pre filter concentrations of ≈ 200µg m³)

Airflow rate (l/S)	Filter pressure drop (Pa)	Concentration reduction (%)
Unit One (3 filters)		
29	31	97.6
80.3	134	97.9
Unit Two (4 filters)		
45.3	50	98.1
80.6	106	97.5



Standards

Third party tested for both NO_2 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
World Health Organisation WHO

Specification

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

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

Weight:

Unit One (3 Filters) - 17 Kg
Unit Two (4 Filters) - 20 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 G4 synthetic filters as standard, 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: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations

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

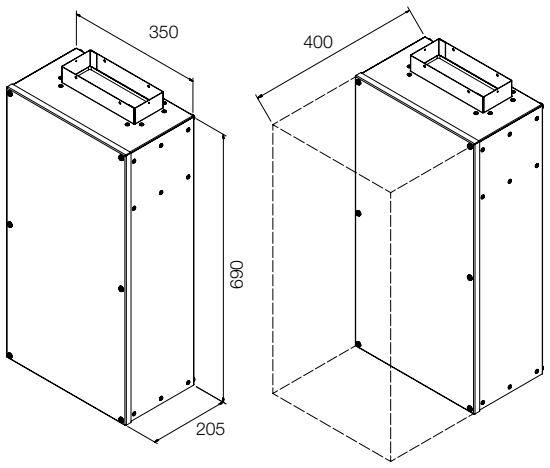
Product Codes

UNIT ONE:
TP550 220 x 90, **TP552** Ø160, **TP554** Ø150

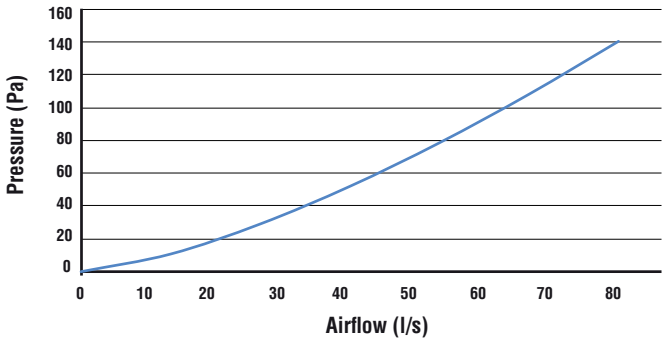
UNIT TWO:
TP551 220 x 90, **TP553** Ø160, **TP555** Ø150

Removable insulation jacket: 220x90mm ports - XP9910248
150 or 160mm ports - XP9910305

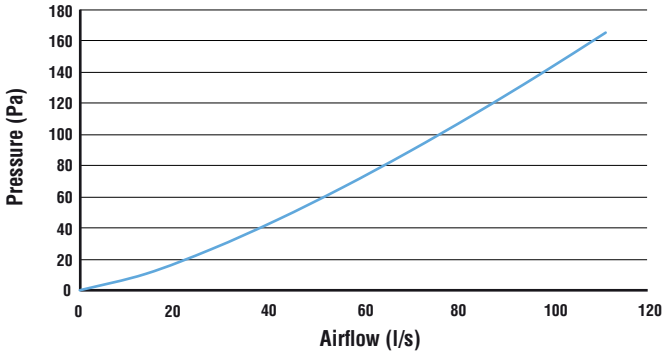
F7 pre filter (G4 standard in units) - XP2010121



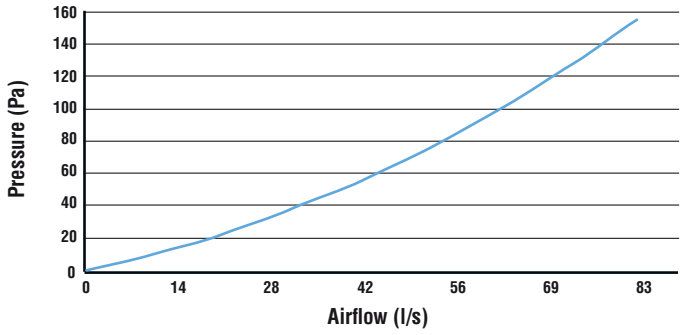
Resistance - Trimbox NO_2 Filter - G4 Prefilter, Unit One



Resistance - Trimbox NO_2 Filter - G4 Prefilter, Unit Two



Resistance - Trimbox NO_2 Filter - F7 Prefilter, Unit One



Resistance - Trimbox NO_2 Filter - F7 Prefilter, Unit Two