



THE
Q-AIRE
RANGE



Improving Air Quality

Nuaire is a market leader in the design and manufacture of fans and ventilation systems. We put our energy into efficient ventilation so you don't waste yours.

With concerns over rising air pollution, Indoor Air Quality (IAQ) has quickly become a serious subject for the building industry. As such, an Air Quality report must now be produced at planning stage, making this issue one that cannot be ignored.

Nuaire are committed to overcome the issues associated with air pollution by continuing to develop innovative products to keep air pollution out of the home and protect those in polluted areas to safeguard not only their homes, but their health.

With an increasing focus on Indoor Air Quality, particularly in urban areas where high levels of NO₂ are being measured, higher levels of filtration are required to meet the World Health Organisation (WHO) guidelines.



Technical Advice

Compliance on SAP PCDB. Stay ahead of the latest building regulations and make the best product and fabric choices.



The Full Service

Help with product selection, detailed parts lists and fast delivery ensure you meet your deadline and budget.



Bespoke Design

Services providing a simple, quick selection or offering advice on compliance with the very latest building regulations and environmental issues.



Proud to
Build British

*Our people
are at the heart of Nuaire; we have more than*

**400 experienced staff
based at our headquarters,**

*65 technical sales engineers
throughout the UK and Ireland.*

Nuaire is a British company that designs and manufactures innovative ventilation products for the residential and commercial sectors. We are proud to be recognised for our expertise, commitment to innovation and the outstanding quality of our products and customer service.

Q-AIRE

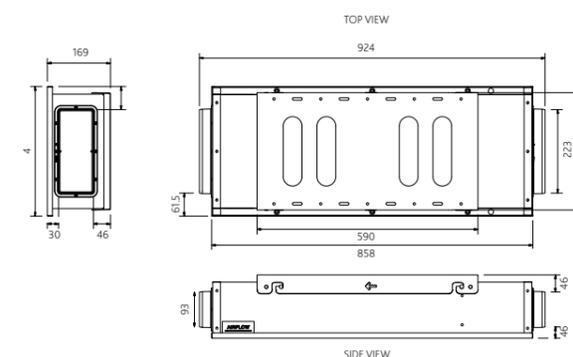
IAQBOX

Nuaire's IAQBOX range offers solutions for urban areas where air pollutants such as NO₂, Carbon Dioxide and other dangerous Particulate Matter need to be filtered before outdoor air enters the property. These specifiable products will refine traditional filtration and ensure that Air Quality planning obligations are met.



IAQBOX-S

Dimensions (mm) - IAQBOX-S Unit



Features and benefits

- ▶ High levels of filtration – Up to 99.5% NO₂ filtration
- ▶ Low resistance – MVHR system are not affected
- ▶ Low profile – Flexible installation
- ▶ Carbon filter – Unique single cell design or innovative double size unit with multi-spigot option
- ▶ Pre filters available – Increased Particulate Matter filtration
- ▶ Separate hook in bracket to aid installation

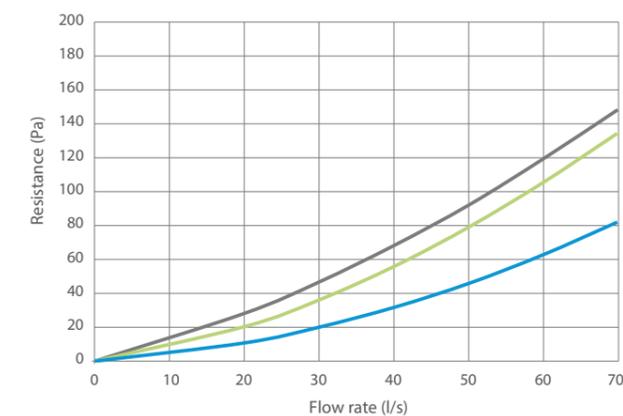
Removes up to **99.5%** of harmful NO₂ and 75% of Particulate Matter (PM2.5)

The IAQBOX-S offers a unique approach in carbon filtration by using a single carbon filter cartridge to filter & clean polluted outdoor air that MVHR systems bring in to properties.

There is a choice of PM2.5 or PM10 pre-filters to further enhance the filtration of polluted outdoor air, before it enters the property.

To specify the IAQBOX-S with or without fitted pre-filters, choose from the following codes in the table opposite.

AIR RESISTANCE TEST IAQBOX-S



● IAQBOX-S-PM2.5 - Carbon filter with PM2.5 pre filter
 ● IAQBOX-S - Carbon filter with PM10 filter
 ● IAQBOX-S - Carbon filter only

	IAQBOX-S	IAQBOX-S-PM10	IAQBOX-S-PM2.5
NO PRE-FILTER	✓		
PM10 PRE-FILTER		✓	
PM2.5 PRE-FILTER			✓

IAQBOX-D

The IAQBOX-D is Nuaire's unique offering, showcasing a double width unit which allows a larger volume of airflow to pass through the carbon filter resulting in some of the lowest resistances on the market.

This unit also comes with the option of 2 outlet spigots, reducing system pressure and resistance by decreasing the number of duct runs needed to feed to all supply rooms.

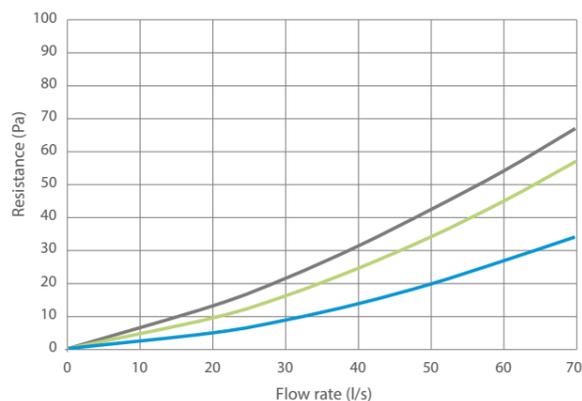


	IAQBOX-D	IAQBOX-D-PM10	IAQBOX-D-PM2.5
NO PRE-FILTER	✓		
PM10 PRE-FILTER		✓	
PM2.5 PRE-FILTER			✓

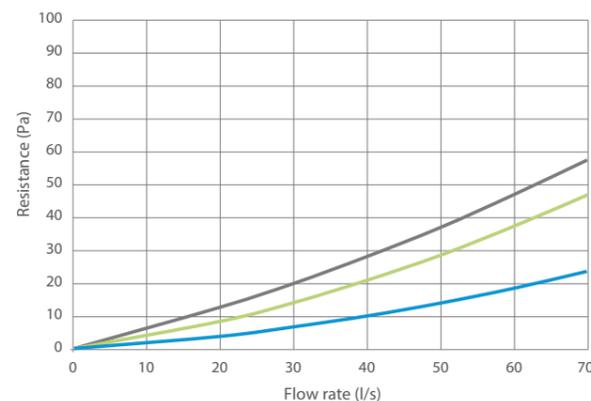
There is a choice of PM2.5 or PM10 pre-filters to further enhance the filtration of polluted outdoor air, before it enters the property. To specify the IAQBOX-D with or without fitted pre-filters please choose from the above codes.

AIR RESISTANCE TEST

IAQBOX-D - 1 Spigot fitted

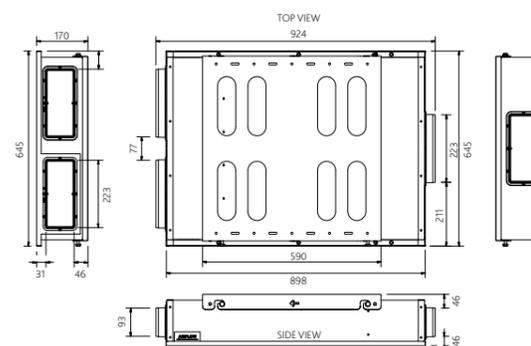


IAQBOX-D - 2 Spigots fitted



● IAQBOX-D - Carbon filter with PM2.5 pre filter | ● IAQBOX-D - Carbon filter with PM10 pre filter | ● IAQBOX-D - Carbon filter only

Dimensions (mm) - IAQBOX-D Unit



Consultant Specification

IAQBOX-S and IAQBOX-D

The IAQBOX-S and IAQBOX-D (plus pre-filter variant codes) comprise the Q-Aire IAQBOX range and shall be manufactured in sheet metal, with an integral foam lining to reduce noise & provide internal sealing. Each inline filter shall have the ability to have an optional PM10 or PM2.5 pre-filter inserted into the filter box to be capable of additional particulate filtration; particularly from diesel vehicle fumes.

The IAQBOX shall come complete with a removable mounting bracket.

The double size IAQBOX-D range of units have the option to be configured using a single or double spigot on the outlet. Double spigot on the outlet shall provide lower air resistance and further ducting options.

The IAQBOX shall come complete with a plastic construction carbon filter, containing two 30mm (approx.) beds of activated carbon pellets providing a large surface to filter the airflow. The filters shall be easily removed and replaced when required. The filter shall have a minimum efficiency of between 96% and 99.5% effectiveness in the removal of Nitrogen Dioxide.

The unit efficiency shall be confirmed and independently verified by a BRE (Building Research Establishment) test method and the information shall be provided by the filter manufacturer for approval.

The activated carbon shall have the following minimum qualities:

Bulk density	kg/m ³	480 (+/-5%)
Nominal diameter of cylindrical pellets	mm	4.0
Nominal length of cylindrical pellets	mm	8.0
Moisture content (approx.)	%	3
Crush strength (minimum)	kg	2
Removal capacity for Cl2 of own weight	%	10
Minimum design efficiency	%	99.5
Typical air velocity	m/s	0.3 - 2.5
Suitable for relative air humidities	%	10 - 95
Temperature range	°C	-20 - +51

The unit shall be suitable for 220x90mm ducting.

The unit shall be installed in conjunction with the manufacturer's installation and maintenance guidelines.

The unit shall be offered with a 5 year warranty; 1 year parts and labour, remaining years parts only. This warranty is void if the equipment is modified without authorisation, is incorrectly applied, misused, disassembled or not installed, commissioned and maintained in accordance with the details contained in the I&M manual and general good practice.

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