nuaire

POSITIVE INPUT VENTILATION (PIV)

CREATING A HEALTHY INDOOR ENVIRONMENT

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NUAIRE'S **PEDIGREE**

Proud to Build British

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

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.

Our people are at the heart of Nuaire, we have more than 400 experienced staff based at our headquarters, with a further 65 technical sales engineers throughout the UK and Ireland.

MADE IN
GREAT BRITAIN

Based in South Wales, our factory covers 18,000m², allowing us to manufacture almost all of our products on site; from small bathroom fans to large air handling units.

In recent years Nuaire has invested millions of pounds into a new manufacturing plant to supports its plans for growth.

"Our manufacturing facility is approximately 4 x the size of the Wembley pitch"

Nuaire's technical application team can offer expert advice and support to help you make the right choice in your ventilation strategy. Providing a simple, quick selection or offering advice on compliance with the very latest building regulations and environmental issues, we are here for you every step of the way.

GETTING IT RIGHT FROM THE START

housebuilder product awards 2014 winner

Advice On Compliance and SAP Q

Stay ahead of the latest building regulations and make the best product and fabric choices.

Over 65 Sales Staff

Field and office based staff to support you at every stage.

Gold Star Aftercare

Our comprehensive product warranty and dedicated after sales support gives you peace of mind.

The Full Service

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

POSITIVE INPUT VENTILATION (Alternative Systems)

NUAIRE **INVENTED PIV** OVER 40 YEARS AGO

Nuaire's alternative approach to continuous mechanical ventilation is Positive Input Ventilation (PIV).

Invented by Nuaire and installed in thousands of dwellings each year, PIV can be a more cost-effective and simple to install ventilation solution, whilst still meeting building regulations.

From this...

It has become the UK's most popular alternative method of low energy, cost-effective ventilation.

THE ALTERNATIVE METHOD FOR BUILDING REGULATIONS

...to this

PIV How does it work?

CREATES A HEALTHY LIVING ENVIRONMENT

Significantly improves indoor air quality by removing indoor air pollutants such as carbon monoxide and keeping out external pollutants such as traffic fumes and pollen.

NO NEED TO OPEN WINDOWS TO VENTILATE

Clean, fresh air is continuously drawn in through the lofts natural leakage points, passed through the filters and fed into the property via a central hallway diffuser.

MOISTURE AND CONDENSATION ARE DRIVEN OUT

The filtered air gently pressurises the home from inside out, forcing out the stale air.

Nuaire invented **PIV** over 40 years ago!

1966 Nuaire 41

1979 Nuaire original Drimaster Condensation Unit

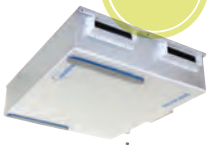
1984 Nuaire Opus Fans

1990 Nuaire Genie Fans

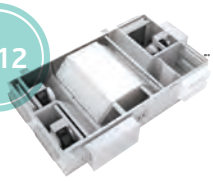
1992 Nuaire Drimaster

2005 Nuaire MRXBOX95 Heat Recovery

2010 Nuaire Low Profile MVHR



2012 Nuaire Airepod



2013 Nuaire Ductmaster Thermal

2014 Nuaire dMEV

2014 Nuaire Cyfan

2015 Nuaire Q-Aire

2016 Drimaster-ECO

1st

OUR REPUTATION IS BASED ON PROVEN ACHIEVEMENTS

1st to introduce the Positive Input Ventilation strategy

1st to develop MVHR and MEV systems

1st to offer REVIT compatible BIM files

1st to provide a free design service to customers

Nuaire offers solutions for homes with a loft, without a loft and even three-storey homes.

The simple installation of Drimaster is fully compliant to building regulations and only requires minimal maintenance.

For homes without a loft, the Flatmaster product is compact and can be fitted in a convenient location, such as a utility cupboard or hallway.

PIV systems are proven to be effective units in significantly reducing radon gas levels in affected areas.

The system works by gently supplying fresh, filtered air into the property. This process changes the airflow direction within the dwelling to force the air contaminated by radon out of the home.

PIV technology is also proven to help allergy and asthma sufferers by guaranteeing filtered, quality indoor air.

Averaging approximately 0.16 watts/l/s, with solar gains up to 550kw/hr/year, PIV is an ideal low power ventilation solution.

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE No 00/3727

The FLATMASTER Range

FOR PROPERTIES WITHOUT LOFT SPACE

Low cost ventilation for properties with no loft space. The unit is designed to take fresh air from outside, clean the air and discharge it into the central hallway via a system of ducting.

The dwelling's internal air discharge grille is usually installed at a high level in a central location within the hallway, although discharging the air down the length of the hallway (away from the front door) should also prove acceptable. Unit performance may be enhanced if an existing heat source can warm the discharged air, e.g. by locating the discharge grille above a radiator.

FLAT2000L/FLAT2000R

The unit is designed to take fresh air from outside, clean the air, warm it (if fitted with a heater) and discharge it into the central hallway via a system of ducting. The dwelling's internal discharge grille is usually installed at a high level in a central hallway, although discharging the air down the length of the hallway (away from the front door), should also prove acceptable.

Unit performance may be enhanced if an existing heat source can warm the discharged air, e.g. by locating the discharge grille above a radiator.

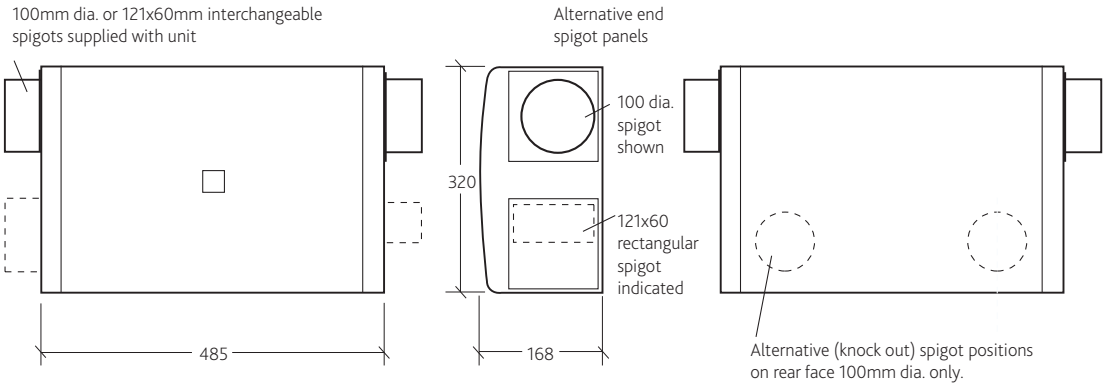
Additional heat when required

If additional heating of the incoming air is required, e.g. during very cold weather, the integral heater can be used to distribute filtered, warmed air throughout the property.

Technical

DIMENSIONS (mm) & UNIT WEIGHT

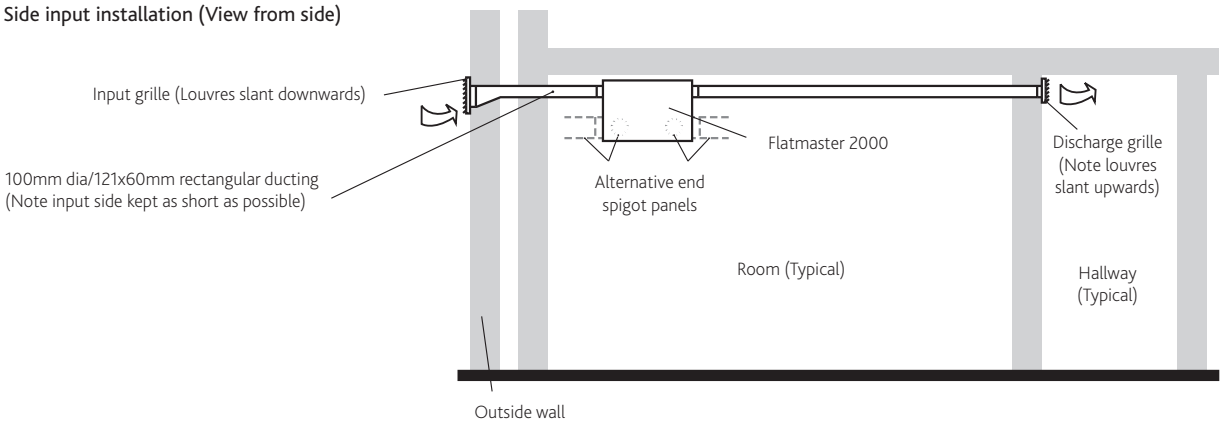
WEIGHT: Flatmaster: 4.7kg Flatmaster 2000: 5.2kg



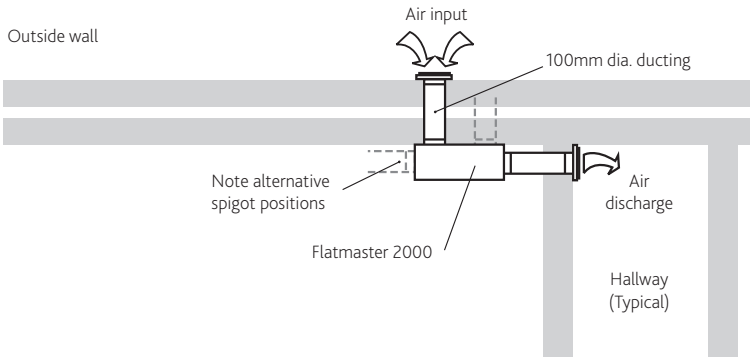
Typical Installation

INSTALLATION OPTIONS

Side input installation (View from side)



Rear input installation (View from above)



(If the heater option is required, the wiring should be connected to the appropriate terminal on the PCB).

Electrical Details

	Voltage	Consumption
FLATMASTER	230V 1ph 50Hz	Speed 1 1.5W(max)
		Speed 2 8W(max)
		Speed 3 13W(max)
FLAT2000L/FLAT2000R	230V 1ph 50Hz	Heater 300W(max)

Wiring

Please note the electrical connections to the unit should be carried out by a qualified electrician.

With the PCB cover removed, pull the PCB forward to gain access to the Earth post behind. Connect Earth cable to Earth post next to the grommet hole. Slide PCB into slot and connect the mains supply L and N to the terminal block.

The unit should be wired in accordance with current IEE regulations.

A remote boost switch comes as standard with the FLAT2000L and FLAT2000R models. This must be wired directly in to the unit and can be used to control the fan with the choice of "Normal" or "Boost" functionality.

Please note this boost switch does not come as standard with the FLATMASTER model, but can be ordered separately under part number 779891.

FLATMASTER PIV Product Selector

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Feature	**FLATMASTER**	**FLAT2000L/FLAT2000R**
For properties without lofts		
Integral heater		
Manual boost switch provided - when additional ventilation is required, i.e. cooking odours		
Controls/commissioning at unit		
5 year warranty