FLATMASTER-PLUS

POSITIVE INPUT VENTILATION (PIV) SYSTEM

Wall-mounted PIV system
designed for homes without a loft.



PROUD TO BUILD BRITISH

We've been pioneers in new air technology since 1966. Our heritage is in the design and manufacture of fans and ventilation systems. We put our energy into efficient ventilation, so you don't waste yours.

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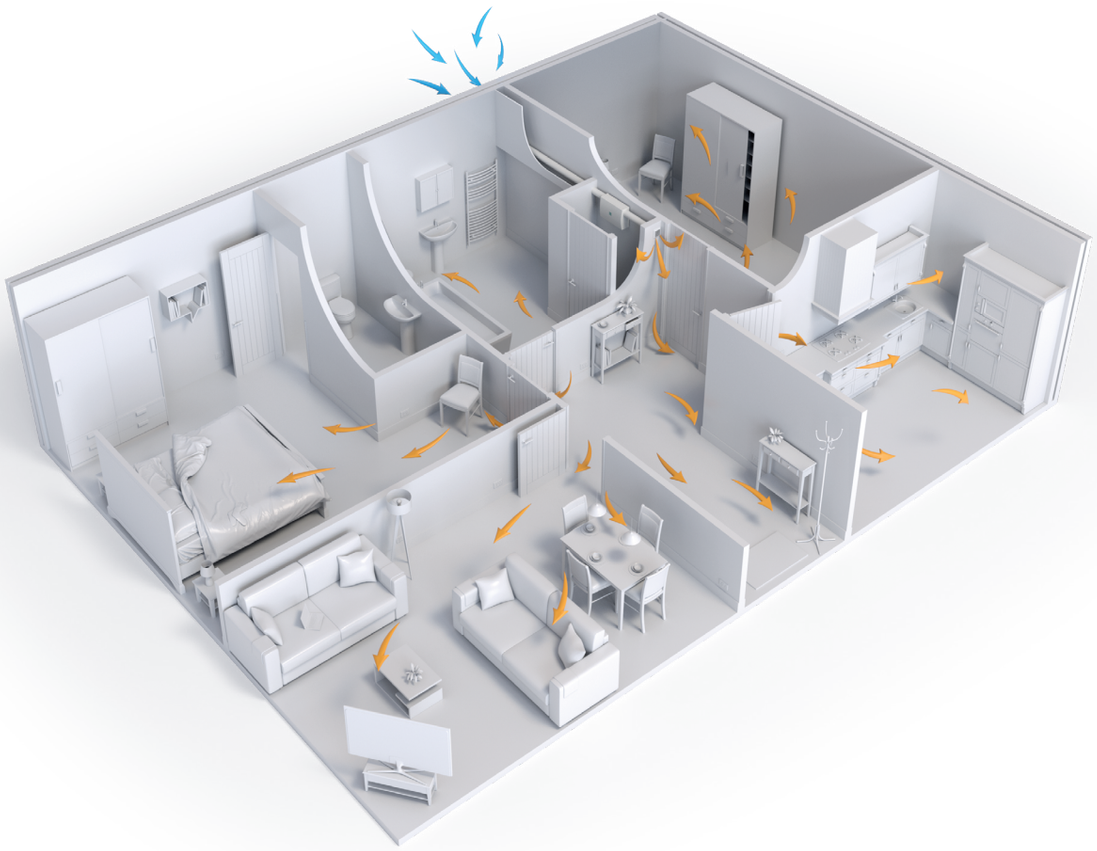


1

Homes Without a Loft Space

Designed for homes without loft spaces, offering a flexible installation solution that improves indoor air quality and efficiency.

2

Safer Living Environments

Our systems are designed to introduce filtered air into the home, helping to prevent condensation build-up. The result is a safer and more comfortable living space.

3

Improved Features

Upgraded unit controls.
More efficient heater controls.
Outlet grille as standard.
Non-handed heater, no requirement for a separate heater depending on how it's being handed.

4

High Performance

Nuaire's ventilation systems are engineered to the highest mechanical and electrical standards. We deliver reliable, compliant solutions that ensure the safety, performance and efficiency of your properties.

5

Compliance

At Nuaire, we support your housing compliance goals with ventilation solutions designed to meet and surpass regulatory standards.

POSITIVE INPUT VENTILATION
HOW DOES IT WORK?





The FLATMASTER-PLUS Positive Input Ventilation (PIV) system has been specifically designed to ventilate homes without lofts. The unit draws air directly from outside, which is then filtered to ensure that the ingress of allergens, such as pollen, is minimised.

The air is then gently dispersed into the home at a continuous rate. The filtered air entering the property creates a slight positive pressure that forces stale, damp air and pollutants out through the natural leakage points found in UK properties, old and new.

Positive Input Ventilation is a highly trusted, cost-effective and simple solution to ensure clean air flows freely throughout your home, making poor indoor air quality a thing of the past. PIV units are used for a few different reasons, including the displacement of indoor pollutants, as well as stagnant and humid air.

Nuaire's ventilation systems help keep properties in good condition at low running costs. They help prevent damp and mould, meet compliance standards and improve living conditions.

Helping Social Housing providers comply with Awaab's Law by reducing the risk of condensation, the primary cause of damp and mould growth in social housing.

FLATMASTER-PLUS FEATURES



Substantially Reduces Condensation

Helps reduce humidity in the air, reducing condensation dampness, and mould growth.

Healthy Living Environment

Removes both indoor and outdoor pollutants from the home, improving overall indoor air quality.

Ideal For Apartments

Designed to ventilate homes without lofts, the unit is compact and can be concealed in a convenient location.

Flexible Installation Options

The FLATMASTER-PLUS offers multiple installation options, including a rear spigot that allows ducting directly out of the back of the unit. This added flexibility makes installation faster, simpler, and less disruptive.

Outlet Grille

An optional outlet grille allows air to be discharged directly from the unit, eliminating the need for additional ductwork and a separate grille. This simplifies installation, reduces materials, and helps save time on site.

Reversible Heater

An upgrade on the original, the FLATMASTER-PLUS-HEAT features a heater that can be configured in either direction for right- or left-handed discharge



Suitable for rectangular or circular ducting





Controls

The FLATMASTER-PLUS and FLATMASTER-PLUS-HEAT now feature upgraded controls and a 7-segment display.

Better Efficiency

The FLATMASTER-PLUS -HEAT is engineered to deliver significantly lower energy consumption, helping to reduce running costs.

Daily Run Monitor

The facility to track how long the unit has been running, and whether the unit has at any point been switched off.

Greater Flexibility

The FLATMASTER-PLUS -HEAT features a heater that can be configured in either direction for right- or left-handed discharge.

Ease of Install

Designed for fast, straightforward installation, saving time and labour costs.

FLATMASTER-PLUS

FLATMASTER-PLUS is a low-energy Positive Input Ventilation (PIV) system, suitable for properties without a loft space. It can also be used to ventilate basements, cellars and other areas that would benefit from a continuous supply of fresher, filtered air.

The **FLATMASTER-PLUS** includes a daily run monitor to verify continuous operation, alongside upgraded controls and a 7-segment display.

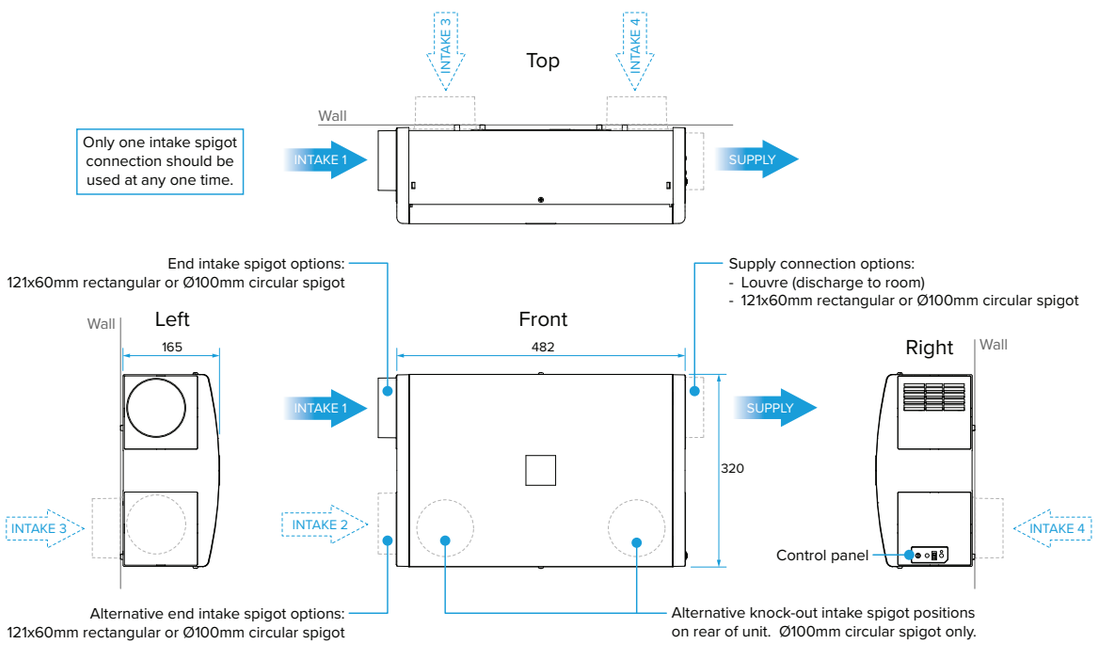


Wiring

Please note the electrical connections to the unit should be carried out by a qualified electrician. The unit should be wired in accordance with current IEE regulations.

Unit Dimensions and Weight (Unit shown in right-hand discharge configuration)

Weight - 2.5kg

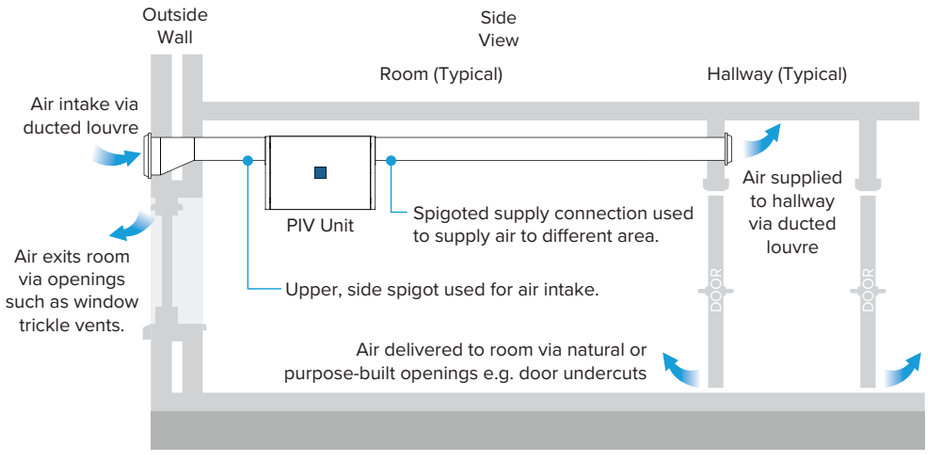


The images in this diagram are provided as examples for illustrative purposes only.
Dimensions and proportions are not shown to scale.

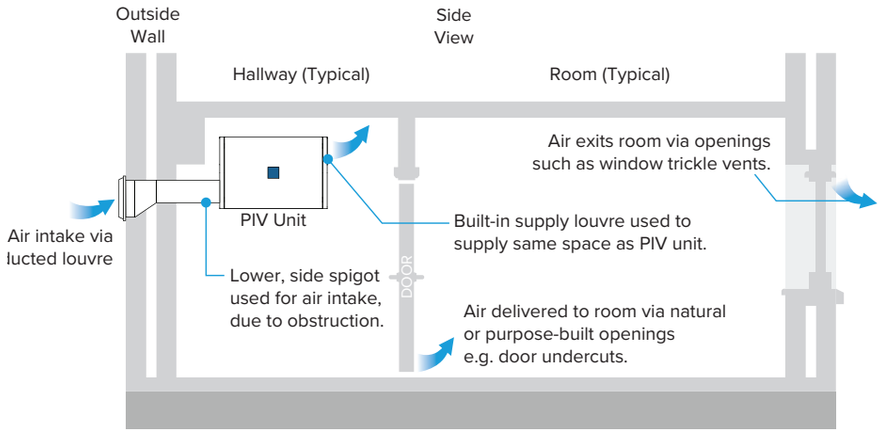
Technical Information

Product	Voltage (V)	Phase	Frequency (Hz)	Speed Setting	Flowrate (l/s)	Min Power Consumption, no heating (W)	Max Power Consumption, no heating (W)
FLATMASTER-PLUS	230V	1ph	50Hz	1	11.2	1.6	1.71
				2	13.2	1.71	2.04
				3	19.1	2.43	3.2
				4	26	3.64	5.28
				5	28.9	4.44	6.62
				6	33	5.41	8.36

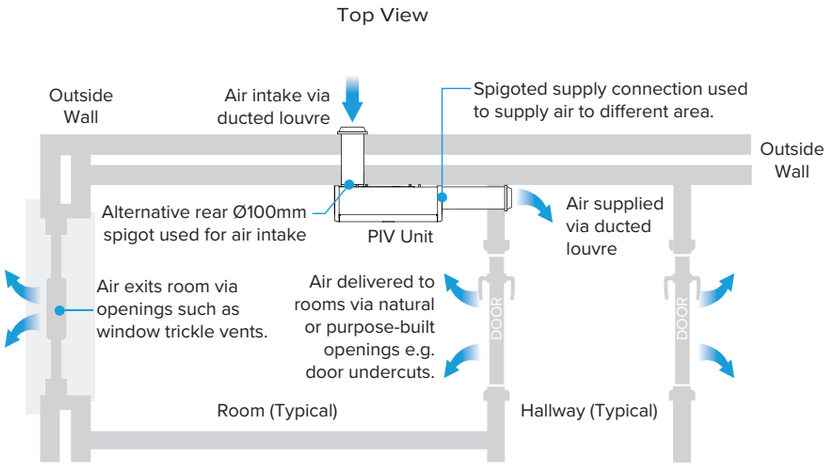
Side - Ducted Outlet



Side - Louvre Outlet



Top - Back Spigot



FLATMASTER-PLUS HEAT

The **FLATMASTER-PLUS-HEAT** comes with an integral heater which tempers air as it enters the property, helping to mitigate draughts. The FLATMASTER-PLUS-HEAT features an improved heater control strategy to reduce running costs.

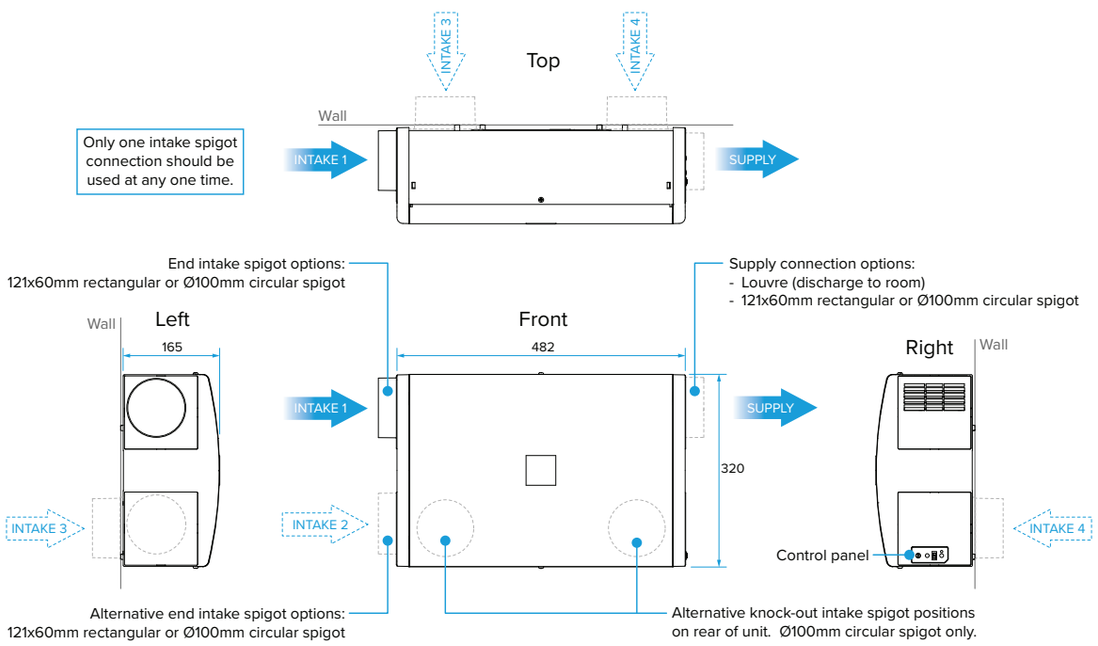


Wiring

Please note the electrical connections to the unit should be carried out by a qualified electrician. The unit should be wired in accordance with current IEE regulations.

Unit Dimensions and Weight (Unit shown in right-hand discharge configuration)

Weight - 2.7kg



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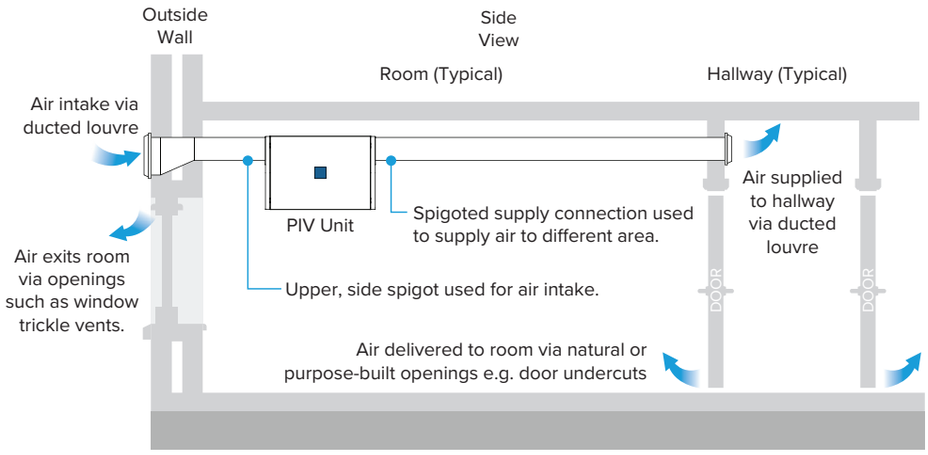
Dimensions and proportions are not shown to scale.

Technical Information

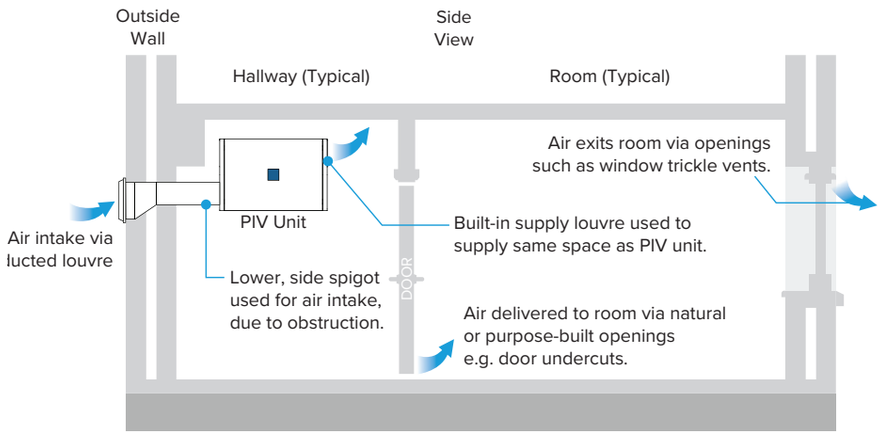
Product	Voltage (V)	Phase	Frequency (Hz)	Speed Setting	Flowrate (l/s)	Min Power Consumption, no heating (W)	Max Power Consumption, no heating (W)
FLATMASTER-PLUS-HEAT	230V	1ph	50Hz	1	10.8	1.63	1.91
				2	12.9	1.89	2.14
				3	19.2	2.52	3.67
				4	25.8	4.04	5.74
				5	29.2	5.14	7.35
				6	32.9	6.22	9.43

* Power consumption not including 300W heating element.

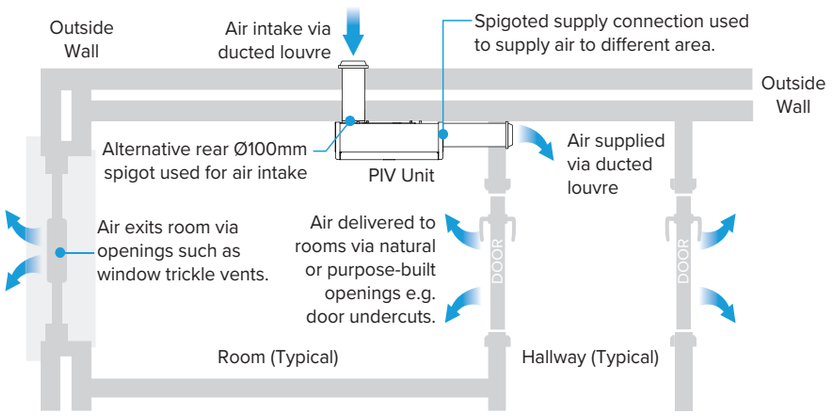
Side - Ducted Outlet



Side - Louvre Outlet



Top - Back Spigot



Specification

FLATMASTER-PLUS

The unit casing shall be manufactured from flame-retardant V0-rated ABS polymer and thermally insulated pre-coated mild steel. A washable flame-retardant filter of G3 grade (with a 1-year typical maintenance period) shall be fitted, which may be accessed via the front cover that can be easily removed with basic tools.

The unit shall incorporate an injection-moulded radial-bladed centrifugal impeller. The impeller shall be driven by a high-efficiency, reversible brushless DC motor fitted with steel, self-lubricating bearings and locked rotor protection.

The unit is to be provided with a set of externally accessible controls allowing for the change in air flowrate without the need for accessing the internals. The controls interface can be positioned on either side during handing.

The unit shall have 3 temperature control strategies and 6 volume control settings.

The unit shall have a maximum power consumption of 0.38 w/l/s. The unit shall be highly adaptable for ease of installation, allowing on-site choice of handing, circular or rectangular duct connections at the sides for air entry or supply and alternative rear circular spigots locations for air entry only.

A selection of spigots enabling connection to 100 mm circular or 121x60 mm rectangular distribution ductwork, without the use of transformation sections, shall be provided along with a supply grille. Ducting and additional grilles shall be supplied separately.

The unit shall be offered with a 5-year warranty; 1-year parts and labour, remaining period covers 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.

FLATMASTER-PLUS-HEAT

The unit casing shall be manufactured from flame-retardant V0-rated ABS polymer and thermally insulated pre-coated mild steel. A washable flame-retardant filter of G3 grade (with a 1-year typical maintenance period) shall be fitted, which may be accessed via the front cover that can be easily removed with basic tools.

The unit shall incorporate an injection-moulded radial-bladed centrifugal impeller. The impeller shall be driven by a high-efficiency, reversible brushless DC motor fitted with steel, self-lubricating bearings and locked rotor protection.

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A selection of spigots enabling connection to 100 mm circular or 121x60 mm rectangular distribution ductwork, without the use of transformation sections, shall be provided along with a supply grille. Ducting and additional grilles shall be supplied separately.

The unit shall be fitted with a centrally mounted 300 W integral heating element to allow for supply air tempering. The target temperature shall be controlled via the external interface between the range of 5 - 15 °C and will automatically switch off the heater during the summer. An optional switch can be used to override the heater between auto and off, this shall be supplied separately.

The unit shall have a maximum power consumption of 0.38 w/l/s; excluding power consumed by integral heating element.

The unit shall be offered with a 5-year warranty; 1-year parts and labour, remaining period covers 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.

Notes

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