



# DRIMASTER

## POSITIVE INPUT VENTILATION (PIV) SYSTEM

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New Sustainable Air Technology



CASING NOW  
**100%**  
RECYCLED  
ABS  
PLASTIC

# TRIED AND TESTED POSITIVE INPUT VENTILATION (PIV)

The UK’s first ever Positive Input Ventilation (PIV) system and still the market leader after more than 50 years.

PIV technology was invented by Nuaire in 1972 and is recognised as an energy efficient means of mitigation of condensation dampness and its associated problems within residential properties.

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## Popular Choice for Social Housing Ventilation

Drimaster PIV units are a whole home solution installed in over a million homes in the UK, and are particularly popular with social housing providers due to their cost-effectiveness, speedy install and longevity.

The unit has been independently tested and its performance verified to be compliant. The BBA have assessed the product against the requirements of the Building Regulations across the UK helping Local Authorities meet their National Air Quality Objectives.



1

Compliance

At Nuaire, we help you ensure housing compliance by providing cutting-edge ventilation solutions that meet and exceed regulatory standards.

2

Safer Living Environments

Our systems are designed to maintain healthy indoor air quality, ensuring safer living environments in housing.

3

Built to Last

Our systems are easy to install, cost-effective and meet compliance standards, guaranteeing smooth project execution and high-quality results.

4

End-To-End Support

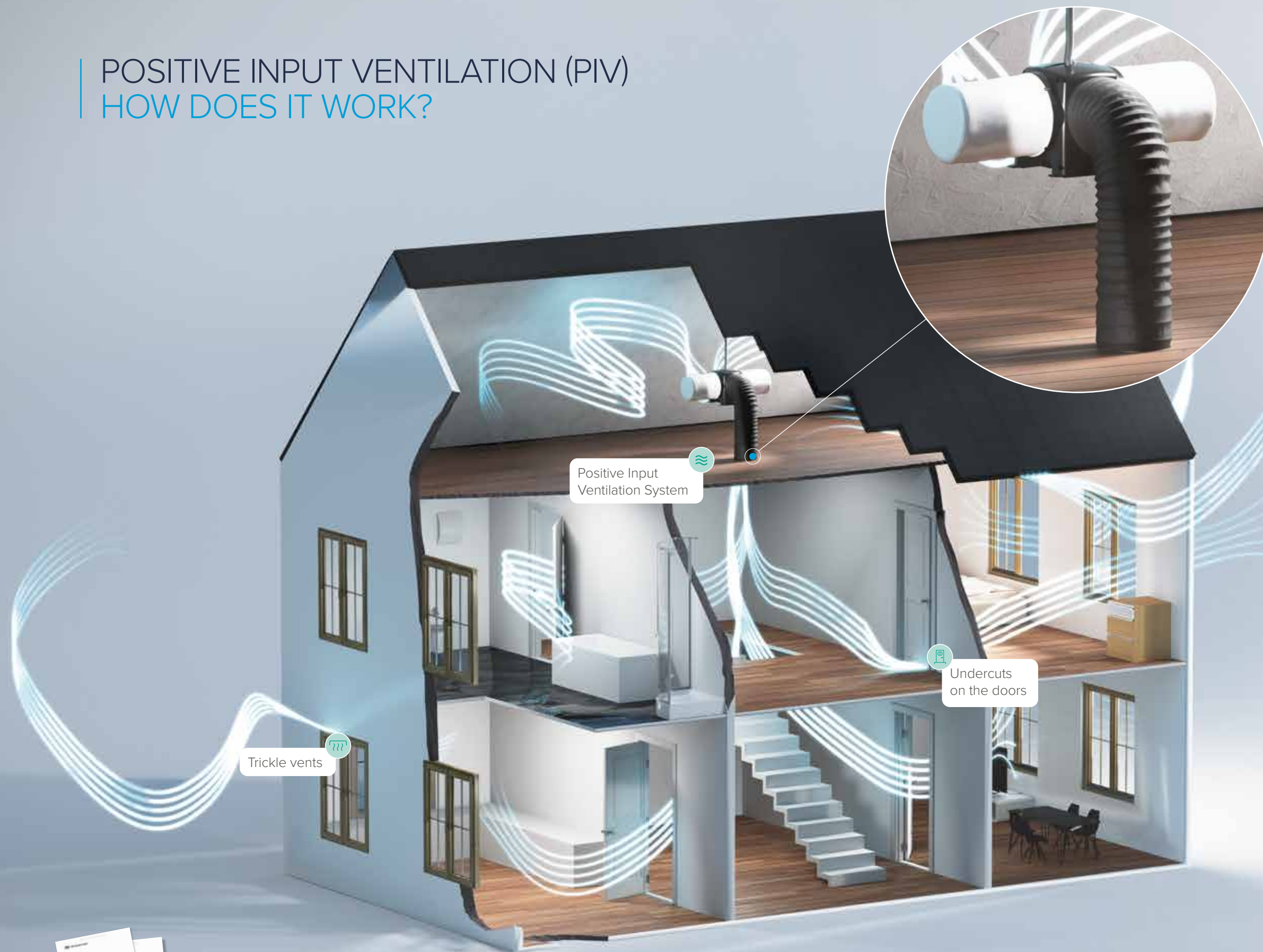
Nuaire’s innovative ventilation systems are perfect for managing large-scale housing projects. We ensure your frameworks are supported with energy-efficient solutions, delivering on-time results and meeting the highest standards.

5

High Performance

Nuaire’s ventilation systems are designed to meet the highest mechanical and electrical standards. We provide you with reliable, compliant solutions that ensure the safety, performance and efficiency of your properties.

# POSITIVE INPUT VENTILATION (PIV) HOW DOES IT WORK?



**PIV systems draw fresh air into the loft space directly from outside, through existing and/or purpose provided ventilation openings, which is then filtered before gently dispersing into the home via a central diffuser at a continuous rate. This creates a positive pressure within the home that forces stale, damp air and pollutants out through the natural leakage gaps found in every UK property, both 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.

The installation of PIV units is recommended as a retrofit option. Installed in the loft, Drimaster is a whole home solution, ventilating the whole property.

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



**Enables full compliance with Part F and L Building Regulations.**

## OUR SUSTAINABILITY MISSION

Join us on the journey to Net Zero. Choose Nuaire – sustainable ventilation, made in Wales.

### Breathe easy with Nuaire:

#### ► A Future Built on Sustainable Innovation

At Nuaire, sustainability isn't an afterthought – it's the foundation of everything we do. As a proud Welsh manufacturer of cutting-edge ventilation systems, we are committed to creating healthier buildings, reducing energy use, and helping the planet breathe.

#### ► Made in Wales, Built for a Greener Tomorrow

Operating from our headquarters in Caerphilly, South Wales, Nuaire champions local manufacturing and community investment. By keeping production close to home, we drastically reduce transportation emissions and maintain full control over our supply chain – ensuring that our sustainability goals are met at every stage of the manufacturing process.

#### ► Energy Efficiency at the Core

Our ventilation systems are engineered to deliver superior indoor air quality with minimal energy use. Whether for homes, commercial spaces, or industrial facilities, every Nuaire product is designed to exceed regulatory standards for energy efficiency, contributing to net-zero targets across the UK and beyond.

- Low-carbon ventilation solutions
- Smart systems that adapt to demand, saving energy in real-time
- Quiet, high-performance motors that reduce power consumption

#### ► Circular Thinking, Smarter Materials

Nuaire is embracing the circular economy by designing products that last longer, are easier to maintain, and can be recycled at end of life.

We work with suppliers who share our values, prioritising recyclable components and minimising packaging waste.

- Recyclable materials used across our product lines
- Reduced use of single-use plastics in manufacturing and packaging
- Lifecycle analysis to inform sustainable design choices

#### ► Certified, Measured, Proven

We don't just talk about sustainability – we prove it. Nuaire meets internationally recognised environmental standards, including ISO 14001 for Environmental Management and ISO 9001 for Quality Management. Our in-house testing and R&D facilities constantly push the boundaries of what's possible for sustainable ventilation.

#### ► Supporting Sustainable Construction

As part of the Genuit Group, we contribute to long-term sustainable infrastructure across the UK. Nuaire solutions help new buildings meet BREEAM, WELL, and Passivhaus standards – ensuring healthy, energy-efficient environments from day one.

Made in Wales.  
Built for a sustainable future.  
Choose Nuaire.

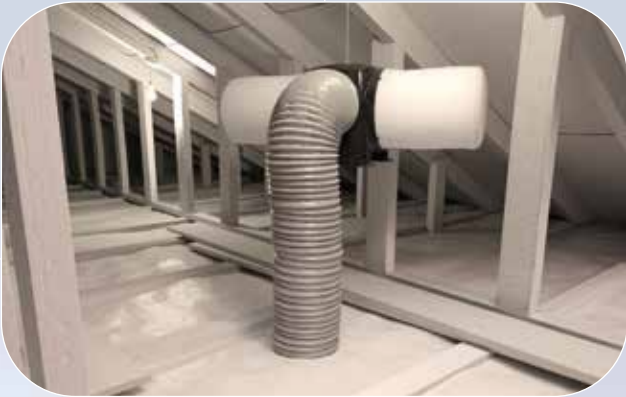
Together, we create sustainable living.



# DRIMASTER-ECO RANGE

The Drimaster-Eco range provides whole home ventilation using the Positive Input Ventilation principle, which introduces fresh, filtered air into the dwelling at a continuous rate, encouraging movement of air from inside to outside. To achieve this the unit is mounted in the loft space, drawing air through the filters and inputting it at ceiling level, into the property.

The Drimaster-Eco units are fitted with an internal temperature sensor, which continuously monitors the temperature in the loft and boosts the air volume when the loft temperature is above a set level (heat recovery mode). If the loft temperature becomes excessive, the unit will switch to standby mode (no airflow). Once installed, the airflow can be set to suit the house size and if required, the way it responds to the temperature changes within.



Installation Features:

Installed in a loft space, a cord is used for quick and easy installation. This method takes advantage of solar gain, tempering the air as the Drimaster draws air through filters and inputs into the property at ceiling level.



100% Recycled  
ABS Plastic

Drimaster casing is now made with recycled plastic, reducing embodied carbon for a greener supply chain.



Substantially  
Reduces  
Condensation

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



Healthy Living  
Environment

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



Unobtrusive  
Design

Ceiling diffuser is a modern and sleek circular design to help it blend into any home environment.



Low Maintenance  
Cost

Filters only need to be changed every five years. The unit is fitted with a filter change indicator.



NOx  
Filter

NOx unit available or as an optional retrofit ancillary. Filters should be changed every 2 years.



Heat  
Units

Units with in-built heaters available to temper incoming cold air, preventing draughts.

DRIMASTER-ECO  
PIV PRODUCT SELECTOR



|                                                                                   | STANDARD UNITS                                     |                                                                |                                                                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|
|                                                                                   | DRI-ECO-LC                                         | DRI-ECO-HC                                                     | DRI-ECO-LINK-HC                                                 |
| Description                                                                       | Standard Drimaster unit with controls in the loft. | Standard Drimaster unit with controls in the ceiling diffuser. | Drimaster with functionality for optional sensors and controls. |
| Page No.                                                                          | 12                                                 | 12                                                             | 12                                                              |
| Integral heater to temper incoming cold air                                       |                                                    |                                                                |                                                                 |
| Compatible with relative humidity sensor                                          |                                                    |                                                                | X                                                               |
| Compatible with CO <sub>2</sub> sensor                                            |                                                    |                                                                | X                                                               |
| Compatible with four-way remote switch with boost and heater control              |                                                    |                                                                |                                                                 |
| Compatible with remote monitoring device                                          |                                                    |                                                                | X                                                               |
| Easily accessible discreet commissioning and controls behind diffuser in the hall |                                                    | X                                                              | X                                                               |
| Commissioning and controls at unit within the loft                                | X                                                  |                                                                |                                                                 |
| Modern circular ceiling diffuser                                                  | X                                                  | X                                                              | X                                                               |
| NOx filter*                                                                       |                                                    |                                                                |                                                                 |
| Casing made with 100% ABS recycled plastic                                        | X                                                  | X                                                              | X                                                               |



| HEATER UNITS                    |                                                                                     | NOX UNITS                               |                                                    |
|---------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------|
| DRI-ECO-HEAT-HC                 | DRI-ECO-HEAT-HCS                                                                    | DRI-ECO-NOX-HC                          | DRI-ECO-NOX-HEAT-HC                                |
| Drimaster with integral heater. | Drimaster with integral heater. No functionality for optional sensors and controls. | Standard Drimaster with NOx filtration. | Drimaster with integral heater and NOx filtration. |
| 14                              | 14                                                                                  | 16                                      | 16                                                 |
| X                               | X                                                                                   |                                         | X                                                  |
| X                               |                                                                                     |                                         | X                                                  |
| X                               |                                                                                     |                                         | X                                                  |
| X                               |                                                                                     |                                         | X                                                  |
| X                               |                                                                                     |                                         | X                                                  |
|                                 |                                                                                     |                                         |                                                    |
| X                               | X                                                                                   | X                                       | X                                                  |
|                                 |                                                                                     |                                         |                                                    |
| X                               | X                                                                                   | X                                       | X                                                  |
|                                 |                                                                                     | X                                       | X                                                  |
| X                               | X                                                                                   | X                                       | X                                                  |



\* Retrofittable NOx filter available as ancillary (sold separately).

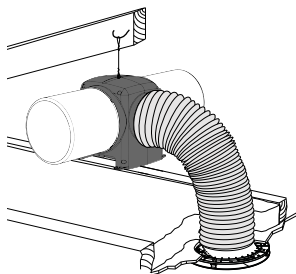
# DRIMASTER-ECO STANDARD



### Installation Options

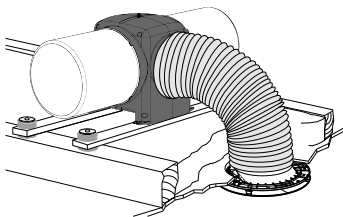
#### Standard method of fixing

The Drimaster-Eco range is designed to be hung from the rafters using the standard cord. Install it at approximately two-thirds of the ceiling height for optimal performance.



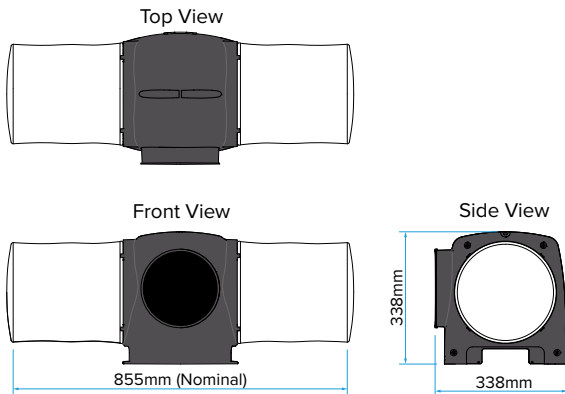
#### Optional method of fixing

An AV mounting kit (Part Code: 771393) is available to fit directly onto roof joists. Kit includes rubber AV mounts, washers, and screws.

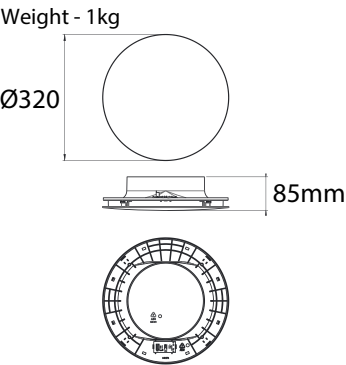


### Unit Dimensions and Weight

Weight: 3.5kg



### Diffuser



### DRI-ECO-LC

The Drimaster-Eco range provides whole home ventilation using the Positive Input Ventilation principle, which introduces fresh filtered air into the dwelling at a continuous rate, encouraging movement of air from inside to outside.

The DRI-ECO-LC is our basic unit which provides all of the benefits of Positive Input Ventilation, but with system controls on the unit within the loft space. Whilst the controls offer variable options, when the Drimaster-Eco is installed, the system should be set to a speed that is suitable to the property meaning access to the loft is only necessary for the cleaning/replacement of filters.

### DRI-ECO-HC

The DRI-ECO-HC is our standard model that offers efficient PIV technology with controls located in the ceiling diffuser.

This feature offers the resident complete control of the unit without having to access the loft space. The DRI-ECO-HC also provides a 7-segment display which notifies the user if there is a need for a new filter and what speed setting the Drimaster-Eco is on, making it easy to navigate and maintain.

### DRI-ECO-LINK-HC

The DRI-ECO-LINK-HC is our Drimaster unit with built-in functionality to work with our wide range of interactive sensors and external controllers.

Much like the DRI-ECO-HC, this model offers controls located in the ceiling diffuser, offering residents complete control without having to access the loft space.

### WIRING

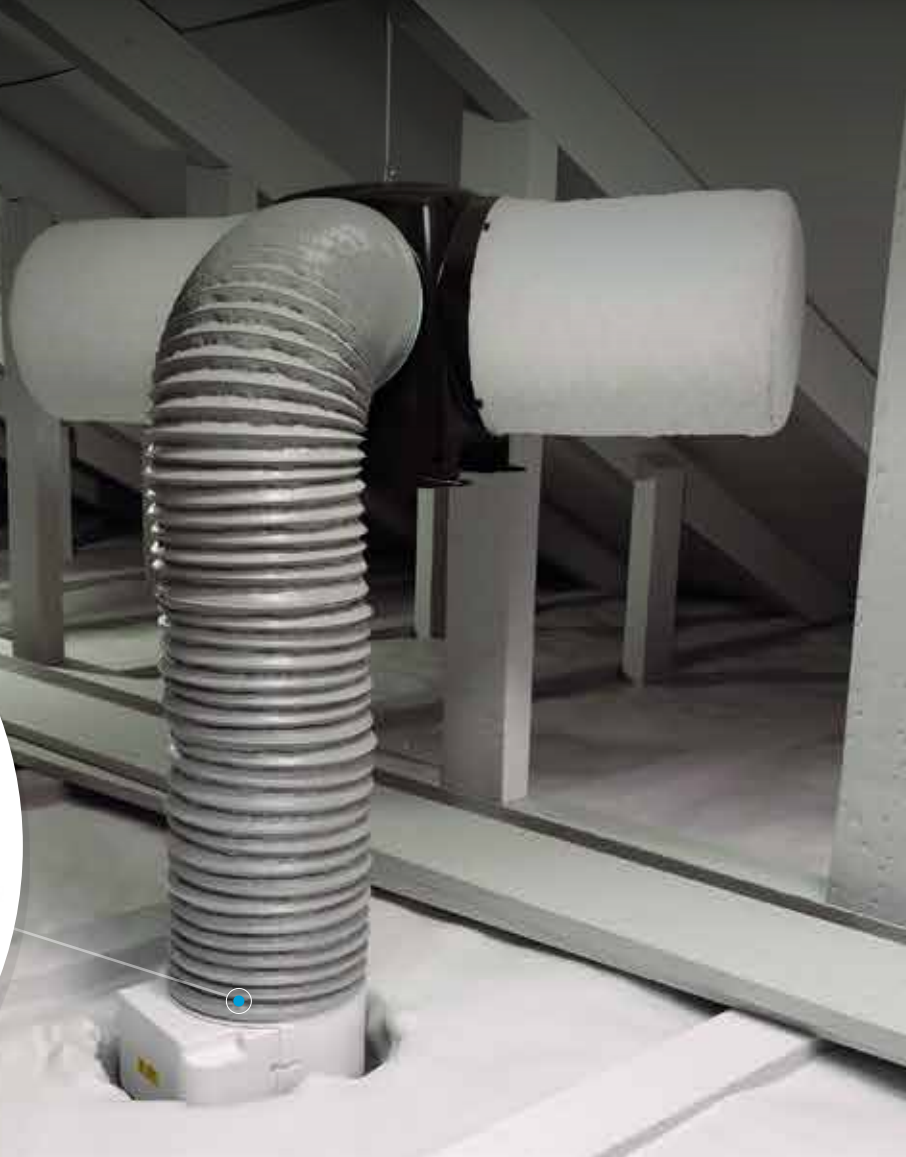
The unit is supplied with a pre-wired power supply. This power supply unit has a metal bracket incorporating fixing holes, which should be used to fit the power supply to a suitable surface e.g. a wooden joist. The fan unit is also supplied with a fused spur. The 2-core mains cable from the power supply should be connected to a fixed wiring installation in accordance with current IEE wiring regulations.

### Technical Information

| Unit Code       | Power Supply Details | Power Consumption    |
|-----------------|----------------------|----------------------|
| DRI-ECO-LC      | 230V 1ph 50Hz        | 1.6W (min) 17W (max) |
| DRI-ECO-HC      | 230V 1ph 50Hz        | 1.6W (min) 17W (max) |
| DRI-ECO-LINK-HC | 230V 1ph 50Hz        | 1.6W (min) 17W (max) |

See pages 19 & 20 to read the consultant specification.

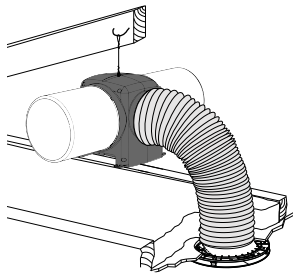
# DRIMASTER-ECO HEAT



## Installation Options

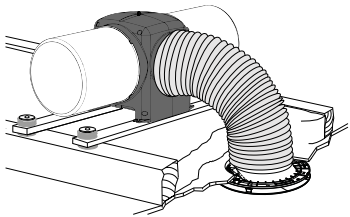
### Standard method of fixing

The Drimaster-Eco range is designed to be hung from the rafters using the standard cord. Install it at approximately two-thirds of the ceiling height for optimal performance.



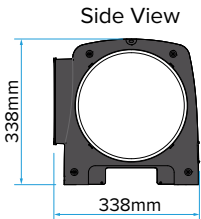
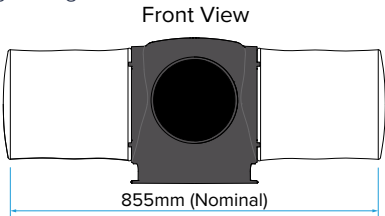
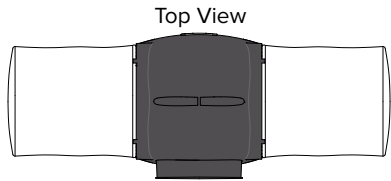
### Optional method of fixing

An AV mounting kit (Part Code: 771393) is available to fit directly onto roof joists. Kit includes rubber AV mounts, washers, and screws.

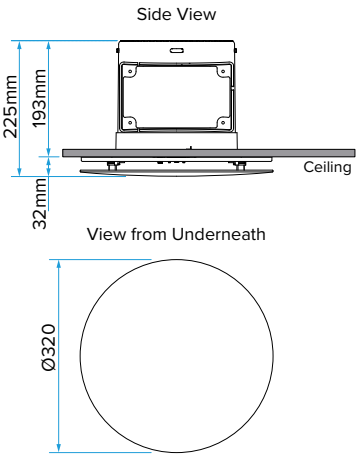


## Unit Dimensions and Weight

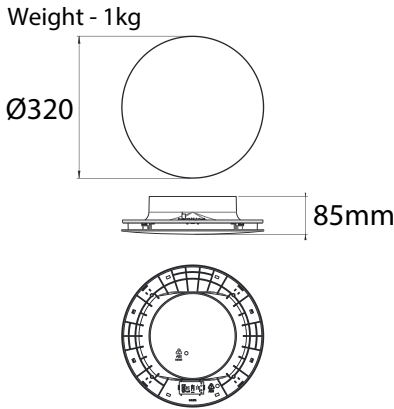
Weight: 8kg



## Diffuser and Heater



## Diffuser



## Technical Information

| Unit Code       | Power Supply Details | Power Consumption    |
|-----------------|----------------------|----------------------|
| DRI-ECO-HEAT-HC | 230V 1ph 50Hz        | 1.6W (min) 17W (max) |

See pages 20 & 21 to read the consultant specification.

## WIRING

The unit is supplied with a pre-wired power supply. The fan unit is also supplied with a fused spur. The 3-core mains cable from the power supply should be connected to a fixed wiring installation in accordance with current IEE wiring regulations.

## DRI-ECO-HEAT-HC

The DRI-ECO-HEAT-HC incorporates an integral heating element, located between the flexible duct and the ceiling diffuser. This tempers incoming air, ensuring a comfortable temperature and mitigating draughts.

This unit is suitable for use with our wide range of interactive sensors and external controls. Providing installers with the option to use one, or all of the sensors available for optimum system performance.

This heating component will temper the air which is distributed through the property via a ceiling diffuser, ensuring a comfortable and safe living environment. This adapted design sees the low watt heater (400W) react efficiently, guaranteeing a sustainable and reliable product.

## DRI-ECO-HEAT-HCS

The DRI-ECO-HEAT-HCS is designed for environments where sensors are not required. It provides a secure, reliable, and energy-efficient ventilation, making it the ideal choice for controlled installations such as social housing, student accommodation, or shared properties.

This heating component will temper the air which is distributed through the property via a ceiling diffuser, ensuring a comfortable and safe living environment. This adapted design sees the low watt heater (400W) react efficiently, guaranteeing a sustainable and reliable product. Interactive sensors and controls are not suitable for use with this unit.

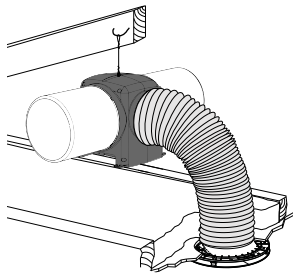
# DRIMASTER-ECO NOX RANGE



## Installation Options

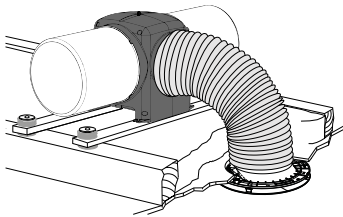
### Standard method of fixing

The Drimaster-Eco range is designed to be hung from the rafters using the standard cord. Install it at approximately two-thirds of the ceiling height for optimal performance.



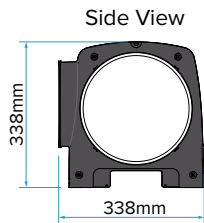
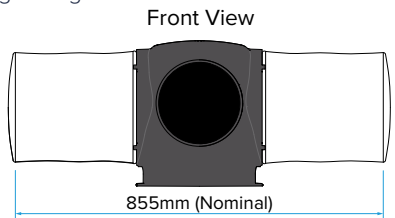
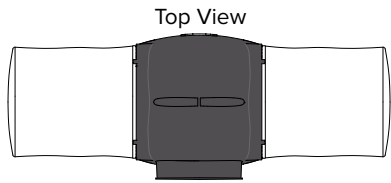
### Optional method of fixing

An AV mounting kit (Part Code: 771393) is available to fit directly onto roof joists. Kit includes rubber AV mounts, washers, and screws.

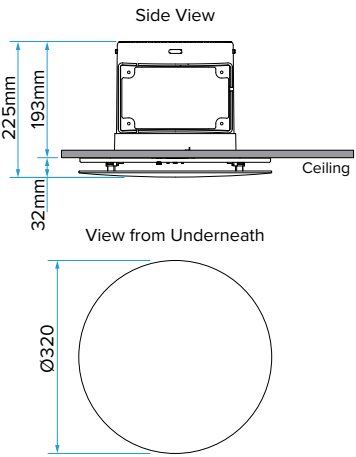


## Unit Dimensions and Weight

Weight: 7kg

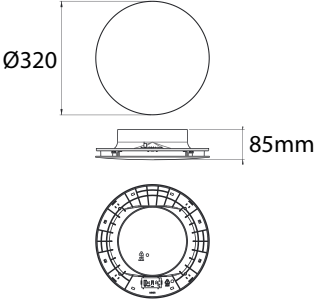


## Diffuser With Heater

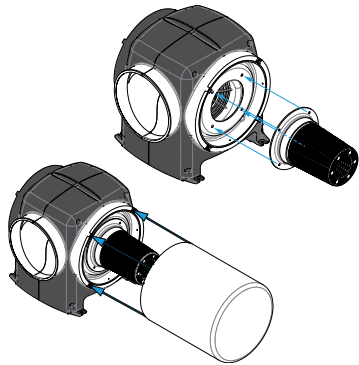


## Diffuser

Weight - 1kg



## NOx Filter



## DRI-ECO-NOX-HC

Adapted specifically to reduce air pollution within Air Quality Management Areas (AQMA), the Drimaster-Eco-NOx is ideal for Local Authorities.

The DRI-ECO-NOX-HC introduces a continuous supply of fresh air into the home, improving indoor air quality and removing harmful air pollutants such as Nitrogen Dioxide and Nitrogen Oxide (NO<sub>x</sub>) from car fumes and industrial processes.

By utilising Positive Input Ventilation (PIV), as well as two carbon cartridges hidden inside of each ePM10 filter, the DRI-ECO-NOX-HC reduces hazardous NO<sub>x</sub> pollution levels within the home by up to 80%.

The filter has been independently tested and proven by the Building Research Establishment (BRE) to help Local Authorities meet their National Air Quality objectives.

What's more, the DRI-ECO-NOX-HC is fully compliant as the unit meets Building Regulation Parts F and L.

## DRI-ECO-NOX-HEAT-HC

The DRI-ECO-NOX-HEAT-HC retains all the features of the DRI-ECO-NOX-HC but with the addition of an integral heating element, located between the flexible duct and the ceiling diffuser. This tempers incoming air, ensuring a comfortable temperature and mitigating draughts.

This unit is suitable for use with our wide range of interactive sensors and external controls. Providing installers with the option to use one, or all of the sensors available for optimum system performance.

## Technical Information

| Unit Code           | Power Supply Details | Power Consumption    |
|---------------------|----------------------|----------------------|
| DRI-ECO-NOX-HC      | 230V 1ph 50Hz        | 1.6W (min) 17W (max) |
| DRI-ECO-NOX-HEAT-HC | 230V 1ph 50Hz        | 1.6W (min) 17W (max) |

See page 21 to read the consultant specification.

## WIRING

### Standard

The unit is supplied with a pre-wired power supply. This power supply unit has a metal bracket incorporating fixing holes, which should be used to fit the power supply to a suitable surface e.g. a wooden joist. The fan unit is also supplied with a fused spur. The 2-core mains cable from the power supply should be connected to a fixed wiring installation in accordance with current IEE wiring regulations.

### Heat

The unit is supplied with a pre-wired power supply. The fan unit is also supplied with a fused spur. The 3-core mains cable from the power supply should be connected to a fixed wiring installation in accordance with current IEE wiring regulations.

## INTERACTIVE SENSORS AND EXTERNAL CONTROLLERS

**Optional sensors and controllers can be added to enhance the functionality of the unit through external sensing equipment.**

These sensors help optimise the unit's performance based on internal environmental conditions, while the controllers offer greater control over the unit itself, including boost functions to increase airflow throughout the property.

The sensors and controllers use radio frequency technology and can be installed anywhere in the home.



### DRI-ECO-CO<sub>2</sub>

CO<sub>2</sub> sensor, tracking levels of carbon dioxide in the home and automatically boosting the unit when levels are too high.



### DRI-ECO-RM

Remote monitoring device, allowing readings to be taken from outside the property, to determine how long the unit has been running and the filter status.



### DRI-ECO-RH

Relative humidity sensor, tracking humidity levels in the home and automatically boosting the unit when levels are too high.



### DRI-ECO-4S

Four-way switch offering manual control over unit boost function and heater on/off.

## DRIMASTER CONSULTANT SPECIFICATION

### Low energy Positive Input Ventilation system for use in homes with a loft.

The fan unit shall be constructed from 100% recycled ABS plastic polymer. Flame retardant filters of G4 grade, with a surface area approximately 0.47m<sup>2</sup> (with 5-year typical maintenance period) shall be fitted, which may be removed from the unit without the use of tools. The unit should be mounted in a area within the loft that does not obstruct the filters.

The unit shall incorporate a forward curved centrifugal impeller and high efficiency brushless DC motor fitted with sealed for life, self-lubricating bearings and locked rotor protection.

The unit's average power consumption shall be 0.17W/l/s; excluding power consumed by the heating element within DRI-ECO-HEAT-HC when activated.

The unit shall be supplied with a 2m length of flexible ducting and all necessary connectors and fittings.

The unit shall weigh 3.5kg and we recommend the unit is suspended from the roof structure. The unit shall be supplied with a purpose-designed flame-retardant ABS polymer diffuser for efficient, directable air input. The diffuser design shall be optimised for use in areas where smoke detectors are fitted. The unit shall include 5 programmable temperature control strategies, 6 volume control settings and an optional high duty boost setting, providing an airflow rate of 70l/s for optimum performance and occupant comfort. All control/duty strategies shall be optimised for maximum performance and occupant comfort.

An internal run monitor shall record the unit's operational time. For information on reducing radon egress, it is suggested that the details given in Positive Pressurisation: A BRE Guide to Radon Remedial Measures in Existing Dwellings may be considered.

### DRI-ECO-LC

The DRI-ECO-LC fan unit includes an internal sensor to regulate the fan speed according to the temperature of the loft. The internal sensor increases the airflow to the dwelling when the loft reaches a temperature anywhere between 19-24°C. The units 'Fixed Temperature Heat Recovery' strategy shall be achieved via a sensor located in the unit and shall improve energy performance accordingly. 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.

### DRI-ECO-HC

The DRI-ECO-HC fan unit includes an internal sensor to regulate the fan speed according to the temperature of the loft. The internal sensor will increase airflow to the dwelling when the temperature in the loft space is anywhere between 19-24°C. The unit's 'Fixed Temperature Heat Recovery' strategy shall be achieved via a sensor located in the unit and shall improve energy performance accordingly. This unit has all of the controls for the fan in the ceiling vent allowing the user to control, programme and monitor the unit from inside the property. The unit shall be offered with a 7-year warranty.

Turn over for more consultant specification's.

Drimaster casing is constructed  
from 100% recycled ABS plastic



# DRIMASTER CONSULTANT SPECIFICATION

## DRI-ECO-LINK-HC

The DRI-ECO-LINK-HC fan unit includes an internal sensor to regulate the fan speed according to the temperature of the loft.

The internal sensor will increase airflow to the dwelling when the temperature in the loft is anywhere between 19-24°C. If the DRI-ECO-RH is purchased then the temperature sensor integral to this ancillary will be used to communicate with the PIV unit and should the temperature in the loft become warmer than the dwelling, the fan will boost.

The unit's 'Fixed Temperature Heat Recovery' strategies shall be achieved via these sensors and shall improve energy performance accordingly. This unit has all the controls for the fan in the ceiling vent allowing the user to control, programme and monitor the unit from inside the property. It also has the ability to be controlled using a radio frequency function and can be boosted from a remote wall mounted switch, remote CO<sub>2</sub> detector and a remote humidity sensor.

The unit shall be offered with a 7-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.

## DRI-ECO-HEAT-HC

The DRI-ECO-HEAT-HC fan unit includes an internal sensor to regulate the fan speed according to the temperature of the loft.

The internal sensor will increase airflow to the dwelling when the temperature in the loft is anywhere between 19-24°C. If the DRI-ECO-RH is purchased then the temperature sensor integral to this ancillary will be used to communicate with the PIV unit and should the temperature in the loft become warmer than the dwelling, the fan will boost.

The unit's 'Fixed Temperature Heat Recovery' strategies shall be achieved via these sensors and shall improve energy performance accordingly. This unit has all the controls for the fan in the ceiling vent allowing the user to control, programme and monitor the unit from inside the property. A heater section incorporating a 400W heating element shall be fitted to the diffuser. It shall be electronically controlled so as to minimise energy use.

The heater shall be constructed from flame-retardant, glass-filled polyamide 66. A temperature sensor shall be fitted to the outlet of the heater and will control the output of the heater in an attempt to maintain the set point. The set point will be adjustable between 5-15°C. It also has the ability to be controlled using a radio frequency function and can be boosted from a remote wall mounted switch, remote CO<sub>2</sub> detector and an remote humidity sensor.

## DRI-ECO-HEAT-HCS

The DRI-ECO-HEAT-HCS fan unit includes an internal sensor to regulate the fan speed according to the temperature of the loft.

The internal sensor will increase airflow to the dwelling when the temperature in the loft is anywhere between 19-24°C the fan will boost. This unit has all the controls for the fan in the ceiling vent allowing the user to control, programme and monitor the unit from inside the property.

A heater section incorporating a 400W heating element shall be fitted to the diffuser. It shall be electronically controlled so as to minimise energy use. The heater shall be constructed from flame-retardant, glass-filled polyamide 66. A temperature sensor shall be fitted to the outlet of the heater and will control the output of the heater in an attempt to maintain the set point. The set point will be adjustable between 6-20°C.

The unit shall be offered with a 7-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.

## DRI-ECO-NOX-HC

The DRI-ECO-NOX-HC fan unit includes an internal sensor to regulate the fan speed according to the temperature of the loft.

The internal sensor is to increase airflow to the dwelling when the loft reaches a temperature anywhere between 19-24°C. The unit's 'Fixed Temperature Heat Recovery' strategy shall be achieved via a sensor located in the unit and shall improve energy performance accordingly.

This unit has all the controls for the fan in the ceiling vent allowing the user to control, programme and monitor the unit from inside the property.

The fan unit is fitted with activated carbon filters to remove up to 80% of nitrogen dioxide from the air before entering the dwelling. These will be in addition to the ePM10 filters.

The unit shall be offered with a 7-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.

## DRI-ECO-NOX-HEAT-HC

The DRI-ECO-NOX-HEAT-HC fan unit includes an internal sensor to regulate the fan speed according to the temperature of the loft.

The internal sensor is to increase airflow to the dwelling when the loft reaches a temperature anywhere between 19-24°C.

The units 'Fixed Temperature Heat Recovery' strategy shall be achieved via a sensor located in the unit and shall improve energy performance accordingly.

If the DRI-ECO-RH is purchased then the temperature sensor integral to this ancillary will be used to communicate with the PIV unit and should the temperature in the loft become warmer than the dwelling, the fan will boost. The unit's 'Fixed Temperature Heat Recovery' strategies shall be achieved via these sensors and shall improve energy performance accordingly.

This unit has all the controls for the fan in the ceiling vent allowing the user to control, programme and monitor the unit from inside the property. The fan unit is fitted with activated carbon filters to remove up to 80% of nitrogen dioxide from the air before entering the dwelling. These will be in addition to the ePM10 filters.

A heater section incorporating a 400W heating element shall be fitted to the diffuser. It shall be electronically controlled so as to minimise energy use. A temperature sensor shall be fitted to the outlet of the heater and will control the output of the heater in an attempt to maintain the set point. The set point will be adjustable between 5-15°C.

It also has the ability to be controlled using a radio frequency function and can be boosted from a remote wall mounted switch, remote CO<sub>2</sub> detector and a remote humidity sensor.

The unit shall be offered with a 7-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.



Positive Input Ventilation System

## LOFT CONDITION

### Checklist

- ▶ Inspect the loft area for ventilation openings or air bricks to support PIV, if already installed, or giving consideration towards PIV.
- ▶ Check for any signs of condensation or mould in the loft space.
- ▶ Ensure water tanks are covered and sealed.
- ▶ Ensure pipes are lagged.
- ▶ Ensure any penetration to the loft for light fittings, pipework etc are not allowing air leakage into the loft from the house.

If any modifications are made to loft or roof it is essential to ensure that the ventilation provision for the loft is compliant with BS5250.

### Loft Insulation

Loft Insulation at ceiling level is essential for energy efficiency and to provide comfortable conditions in the dwelling.

### Loft Ventilation

Ensuring loft ventilation will prevent the build up of condensation and reduce the risk of damp and mould.

### Insulated Pipes

Insulating pipes in the loft will reduce the risk of freezing damage and leakage, and also prevent condensation.

## PIV UNIT ASSESSMENT

- ▶ If PIV is installed, ensure it is operational and located appropriately for optimal airflow distribution.
- ▶ Check unit filters (do they need replacing).
- ▶ Ensure that loft insulation or layout isn't blocking or restricting the PIV unit's function.
- ▶ Review speed setting, it maybe advisable to increase it if the occupant reports consistent evidence of condensation in the dwelling.

For further information, please contact your damp and mould specialist.

Residential product orders or enquiries:

Tel: +44 (0)29 2085 8500

[residential.enquiries@nuaire.co.uk](mailto:residential.enquiries@nuaire.co.uk)

After sales technical support:

Tel: +44(0)29 2085 8400

[aftersales@nuaire.co.uk](mailto:aftersales@nuaire.co.uk)

[www.nuaire.co.uk](http://www.nuaire.co.uk)



WESTERN INDUSTRIAL ESTATE | CAERPHILLY | CF83 1NA

**T** 029 2085 8200 **F** 029 2085 8300 **E** [INFO@NUAIRE.CO.UK](mailto:INFO@NUAIRE.CO.UK)

[WWW.NUAIRE.CO.UK](http://WWW.NUAIRE.CO.UK)

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