

# ▶ DRIMASTER365 - POSITIVE INPUT VENTILATION (PIV)

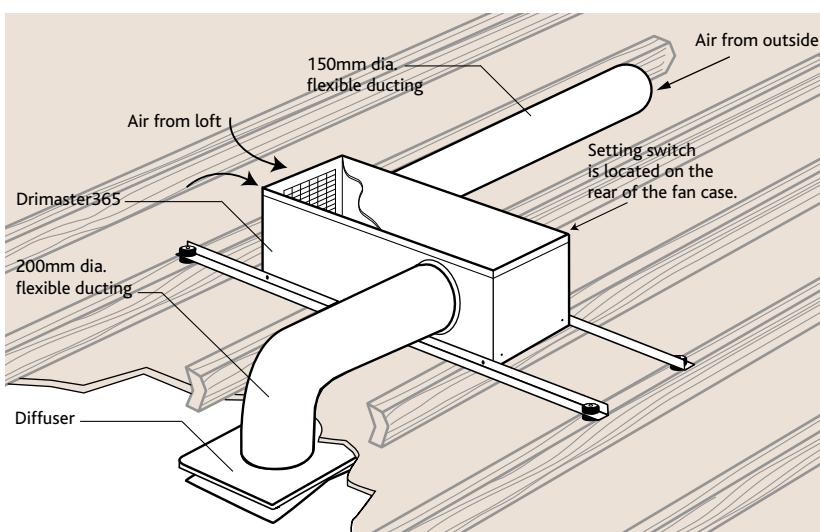


A unique, low energy,  
all year round ventilation unit.

**Drimaster365** is a unique low energy, loft mounted Positive Input Ventilation unit providing whole home ventilation all year round. The unit is totally automatic and intelligently decides what location to supply the air from. It utilises the solar gain within the loft during the colder months subsequently, overcomes excessive solar gains during the warmer months.

## BENEFITS

- Delivers fresh filtered air into the home**  
 To alleviate condensation and black mould during the colder months. Provides background ventilation in warmer months.
- Prevents pollutants**  
 The air passes through a constantine design filter preventing external pollutants entering the home and dealing with indoor pollutants, creating a healthier living environment.
- Health**  
 Clinically proven to help allergy and asthma sufferers.
- Security**  
 Allows occupants to keep windows closed for added security and reduce noise levels.
- Boost Switch**  
 Air volumes can be boosted when increased ventilation is required i.e. cooking odours, warmer months etc.
- Radon**  
 Reduces radon gas levels.
- Intelligent heat recovery**  
 Twin sensors – A remote sensor and sensor on the unit interacts to optimise energy efficiency.
- Extremely low power consumption**  
 Average approximately 0.16 watts/litre/second and solar gains up to 550kW/hr/year.
- Easy installation & very low maintenance requirement**  
 (Filter clean or replacement every 5 years).
- Extremely quiet operation**
- Ultra modern ceiling diffuser**  
 Aesthetically pleasing. The incoming air mixes with the warmer air that rises at ceiling level for increased comfort.
- Fire Damper and Diffuser for 3-storey accommodation available**  
 The diffuser is manufactured from aluminium and powder coated to an off white finish (RAL 9003).
- Warranty**  
 Drimaster365 has a 5 year warranty.



Unit mounted on roof joists using two "L" shape metal brackets and AV mounts supplied with unit.



Remote Sensor.



G4 Filter.



Boost Switch.



Ceiling Diffuser.

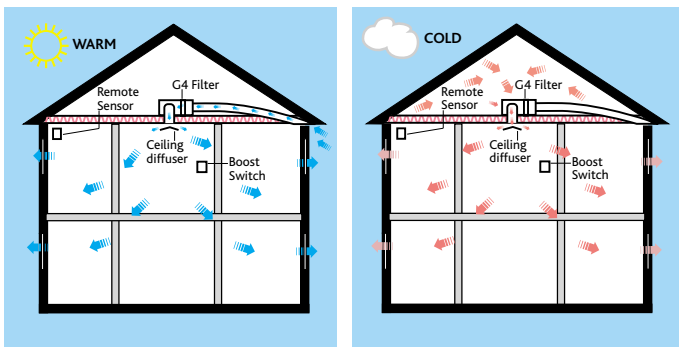
## Drimaster365

### The Remote Sensor

Drimaster365 units are supplied with a Remote Sensor which measures the temperature within the loft. If the loft temperature is below 24°C then the unit will take fresh air from the loft.

If the loft temperature is above 24°C then cool fresh air will be taken from outside the dwelling.

If the loft temperature is 19°C to 24°C and the house is cooler than this, then the unit goes into heat recovery mode. The unit will increase in speed and supply more air to the property.



**SUMMER** - If the loft temperature is above 24°C air is drawn directly from outside, to provide background ventilation. In addition a boost switch is supplied to increase airflow when required.

**WINTER** - During the colder months tempered air is drawn from the loft space taking advantage of solar gain combined with the heat conducted through the ceiling of the home.

### The Boost Switch

Drimaster365 air volumes can be boosted to obtain maximum ventilation by the operation of a boost switch which is supplied with the unit.

By switching the unit to boost all other settings are over-riden.

### The Diffuser

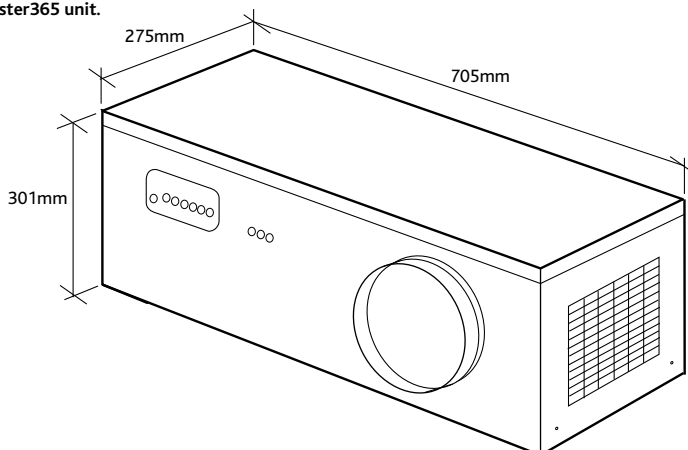
The aesthetically pleasing diffuser supplied with the Drimaster365 is fitted to a central position in the ceiling of the property landing or hallway.

The air introduced by Drimaster365 is passed through the stylish diffuser and circulated with the air in the property.

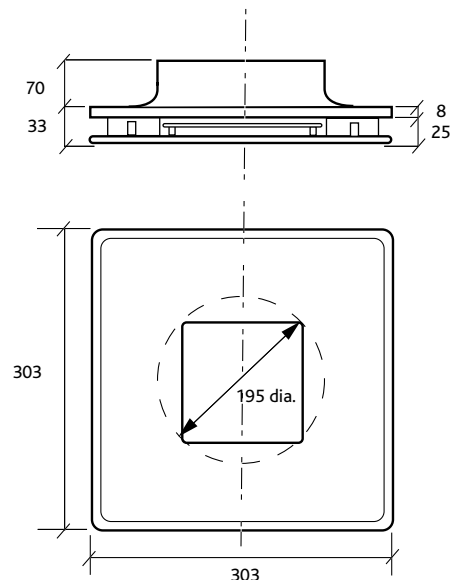
**\*Note: 3 storey properties must be fitted with an aluminium diffuser.**

## Dimensions (mm)

Drimaster365 unit.



Diffuser.



### Drimaster365 Unit Filter

The accessible concertina style G4 filter is fitted inside the Drimaster365. It is manufactured to exclude 95% of small particles such as dust and pollen. It is recommended a filter change takes place every 5 years or when the dirty filter indicator light flashes on the temperature sensor in the property.

#### \*Aluminium Fire Damper and Diffuser for 3-storey accommodation available.

The block has a honeycomb centre which provides exceptional strength to weight ratio, making it an outstanding core material for fire and smoke applications. It also has a high resistance to changes in ambient temperature so that the risk of warping is greatly reduced.

Fully certified in accordance with BS476 Part 20, the block is designed to provide up to 83% free area and up to 4 hour fire rating for optimum performance. The damper is ideal for high air movement and suitable for aggressive environments and resistant to moisture. The damper is suitable for internal situations with fast closure in a fire situation.

## Installation kits for Drimaster365

Please note: Full details of the installation materials supplied with the unit, and optional installation materials, not supplied with the unit, which can be purchased separately from Nuaire are listed in the installation manual, leaflet number 671429.

## Wiring

Please note: the electrical connection of the unit must be carried out by a qualified electrician.

#### Electrical details:-

**Voltage:** 240V 1ph 50Hz

**Consumption:** 2W (min) 24W (max)

**Fuse rating:** 3 Amp

Note: This unit must be earthed.

The three core cable from the mains power supply should be connected to a fixed wiring installation, via a fused isolator, in accordance with current IEE wiring regulations.

## DRIMASTER365

### Consultants Specification

#### Fan description

Nuaire Drimaster365 ultra low energy positive input ventilation unit.

The unit casing shall be manufactured from thermally lined pre-painted steel.

The casing shall have an easily removable panel to allow access for maintenance. The unit shall incorporate a filter of G4 grade with an area of approximately 0.47m<sup>2</sup>.

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 shall be supplied with a purpose designed polymer diffuser for efficient, directable air input using side blanking pieces supplied. The diffuser design shall minimise the accumulation of any condensate run off that may occur in the event of power to the unit being switched off.

The ducting between the unit and the diffuser and the ducting between outside and the unit shall be supplied by the installer.

The unit shall incorporate 6 volume control settings for maximum flexibility and occupant comfort. The unit is fully automatic. If the loft temperature is below 24°C then the unit will draw fresh air from the loft. If the loft temperature is above 24°C then cool fresh air will be drawn from outside the dwelling.

The unit shall incorporate two air inlets, one draws air from the loft, the other from outside via a 150mm dia. spigot.

The unit can be boosted to obtain maximum ventilation by the operation of a boost switch (supplied).

An internal monitor shall record the unit's operational time.

The unit shall be offered with a 5 year warranty.

For information on reducing radon egress, it is suggested that the details given in Positive pressurisation: a guide to radon remedial measures in existing dwellings may be considered.