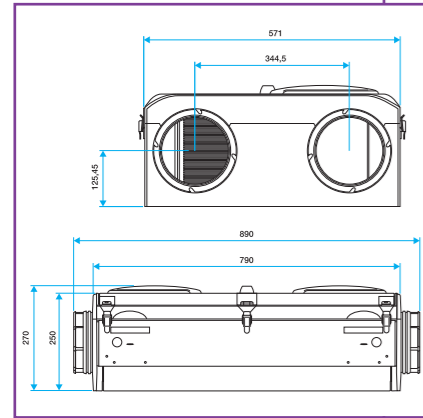
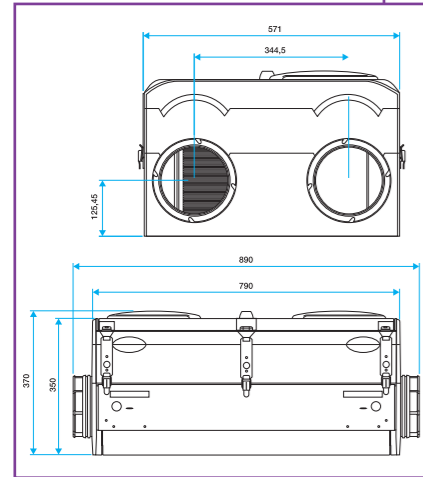


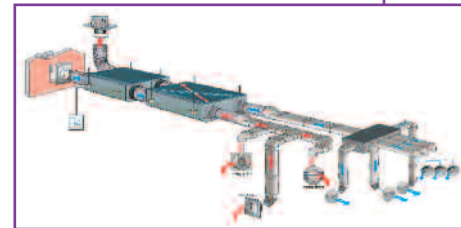
# Dee Fly Ventilation



Without by-pass



With by-pass (option)



## Technical characteristics

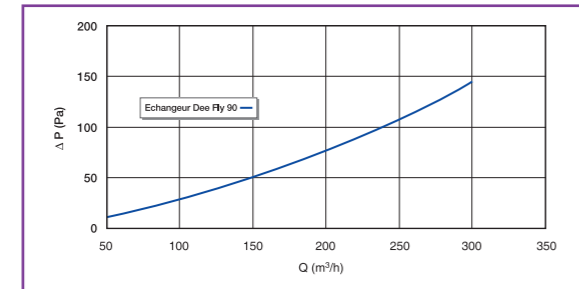
### High-efficiency Heat Exchanger

Recovers the calories from the air being extracted to pre-heat the fresh air for free.

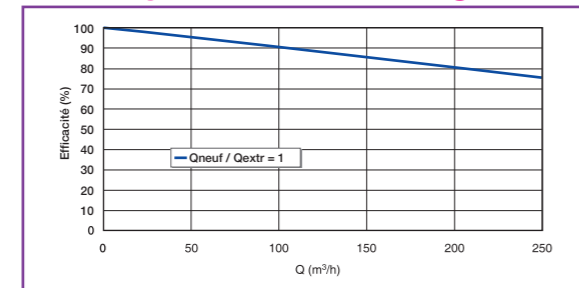
#### Construction

- Counter-flow heat exchanger (Model 90)
- Expanded polypropylene casing
- 4 x 160 mm diameter connectors
- EU5 filter on supply and EU4 filter on extract
- Optional automatic summer by-pass

#### Pressure loss



#### Efficiency of the heat exchanger\*



\* Conditions: Outside air 5°C DB/ 0°C WB and Inside air 25° DB / 13°WB

## Installation

The complete system is made up of a **motor unit**, a **heat exchanger casing**, an **air inlet**, **air outlet and ducts**. For heating efficiency reasons the unit should, if possible, be installed within the area being heated.

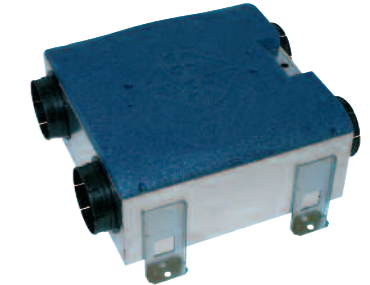
For the connections between grilles and the exchanger, rigid ductwork is preferable. Outside of the heated areas, insulated ducts must be used.

**The modularity of the system and the use of rigid ducts facilitate the system's integration.**

See the manuals supplied with the products for more information.

# Dee Fly Ventilation

## Heat Recovery Ventilation CMEV for individual housing



## Ask for bio-thermal comfort

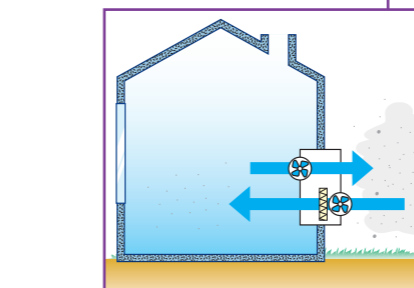
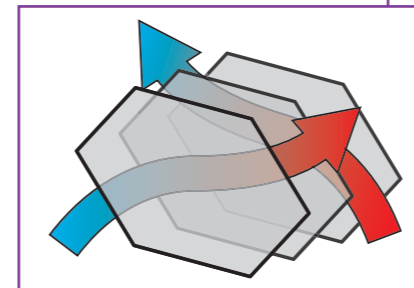
- Low energy consumption motor (micro-watt)
- Heat recovery
- High speed ventilation thanks to its **BOOST** function
- Heat exchanger bypass for improved comfort levels during the summer
- Swivelling supply grilles
- Easy to install

The Dee Fly is a new Heat Recovery system designed for use in individual housing.

- Hot air removed from bathrooms and kitchens passes through a heat exchanger before being discharged outside via a ductwork linked to a fan unit.

- The cold air dragged in from outside is pulled into the house via a ductwork, filtered and warmed by the heat exchanger, recovering approximately 90% of the heat from the used air being discharged, before being distributed throughout the house.

SAP AppendixQ eligible  
Best practice



## Heat recovery and energy savings

The Dee Fly Heat Recovery unit limits the heat lost through the replacement of air in the house.

Thanks to its counter-flow heat exchanger system it provides the optimum level of energy transfer from the 'used' air being discharged.

→ Up to 90% of the available calories from the air being extracted are used

→ Up to 20% saving in heating costs\*

\*Compared with a self-balancing CMEV unit – using French regulatory calculations

## Comfort

Dee Fly diffuses filtered, warmed air and attenuates external noises.

- Less air-current related comfort problems
- Better air quality and less staining on the walls
- Better acoustic insulation from the outside world

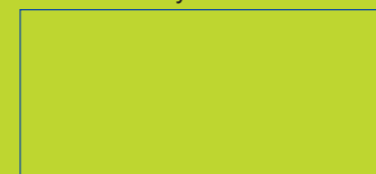
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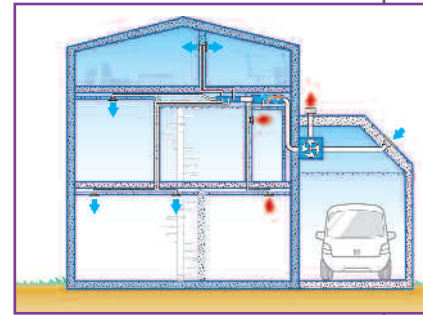
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# Dee Fly Ventilation

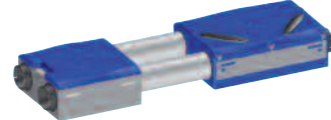


## Modular

- Comprises two sections: a **motor unit** and a **heat exchanger** casing
  - Possible configurations: floor-mounting, ceiling mounting, wall-mounting, ready assembled or not.
- With this in mind, the casing of the heat exchanger unit is designed to allow condensates to escape regardless of which way up it is.



Floor or ceiling fitting



Floor or ceiling mounted (separately)



Vertical 'boiler' setup

- Allows the heat exchanger to be installed within the heated area of the house
- Easy to install

## A high performance system

Dee Fly has the benefits of the latest motor and heat recovery technologies.

- A **heat exchanger** sized to recover up to 90% of the available calories from the air extracted, whilst limiting pressure losses.
  - A **microwatt motor** which, by adjusting its speed, limits energy consumption and generates less noise.
- A particularly silent HRV unit : the motor unit placed behind the Heat Exchanger works as a sound attenuator providing the lowest noise in the bedrooms.

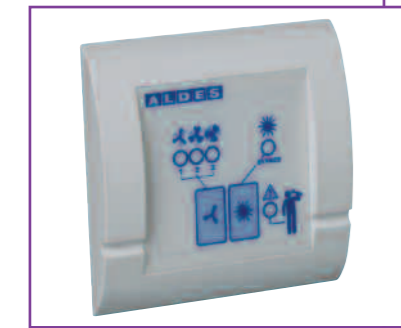
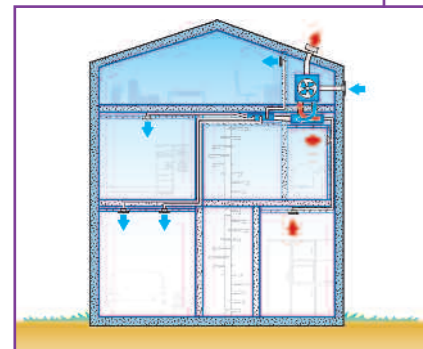
## Innovative eco-design

The Dee Fly casing is designed using **Expanded Polypropylene (EPP)**, providing numerous advantages, one of which is to reduce its weight and thus the mass of waste products. The power of the motor has also been optimised to reduce energy use.

- An additional contribution to protecting our environment.

## Simple in use

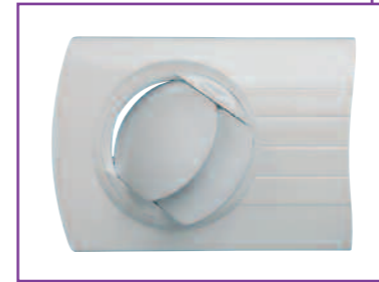
- Simple, user-friendly controls
  - Controller installed in the kitchen using a standard electrical mounting box
  - Selectable speeds for better air quality
  - Automatic bypass (optional) to avoid having to pre-heat the air during the summer
  - Installed with humidity controlled extract grilles for bathrooms and presence controlled for toilets, the boost levels required by the Building Regulation are reached automatically.
  - Simple to maintain
- Automatic filter clogging detector
  - System fault indicator
  - Motor casing holes for compressed air fan cleaning (ALDES Patent)



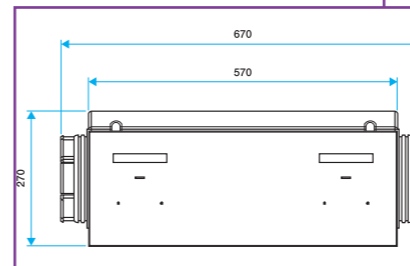
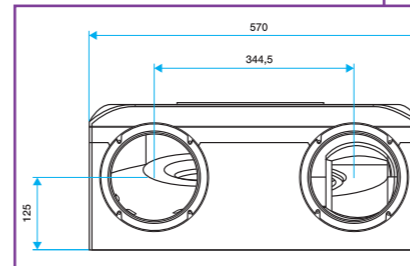
Controls



Humidity controlled extract grille



swivelling supply grille



## Customised comfort

The Dee Fly system has a 'high speed' mode (nominal airflow + 90 m<sup>3</sup>/h) with a 30' timer and a manual Boost mode at 300 m<sup>3</sup>/h. Thanks to its **swivelling grille** the owner can choose the direction of the air flow and thus make the most of the comfort provided by the air flow.

→ A function exclusive to ALDES to provide additional comfort during the summer.

## Technical characteristics

### Microwatt motors



Automatic airflow adjustment by changes to the motor speed. Airflow rate selection at the back of the controller based on the Building Regulation part F (ventilation) calculation.

#### Construction:

- Electronically Commutated (EC) motors
- 3 speeds available
- Integrated thermal protection
- Casing in sheet metal, trim in expanded polypropylene
- 4 x 160 mm diameter connectors
- Quick, leak-tight connection system

#### Mean energy consumption

Extracted airflow (m <sup>3</sup> /h)	90	120	135	150	165	180	195	210
P absorbed (W.Th.c)	38	42.7	50	59.7	70.4	90	100	105

Mean consumption calculated with 1 hour high speed in a day

**Supply:** 230 V ~ 50 Hz

**Current protection:** 4 A

#### Aeraulic characteristics:

