

Explore new avenues with Aldes.

Residential Ventilation

Residential Tempera[®]

Residential Central Vacuum System

Commercial ventilation

For more information, visit
www.energyair.ie




SUMMARY

Explore new avenues with Aldes.
And discover our new solutions
which are real answers
to your real needs !



Residential Ventilation

-  Heat Recovery Ventilation Dee Fly. p 3
-  Heat Recovery Ventilation Dee Fly Heating. p 3



Residential Temperation®

-  Domestic Temperation® T.Flow. p 4



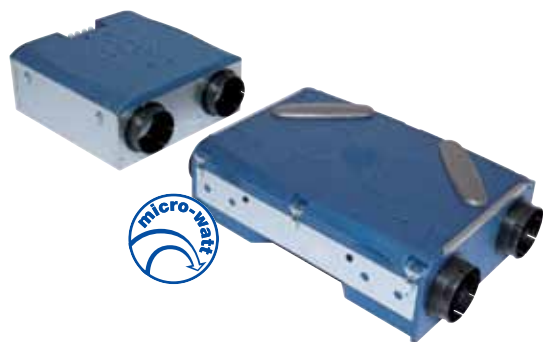
Residential Central Vacuum System

-  Central Vacuum System C.Power. p 5



Commercial ventilation

-  High Efficiency ventilation. p 6
-  Grilles & diffusers. p 7



Residential
Ventilation



Heat Recovery Ventilation Dee Fly

PRINCIPLE

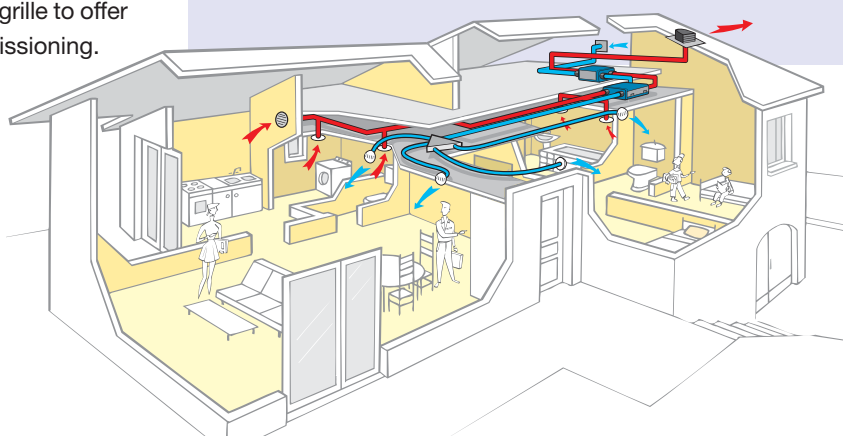
Heat recovery ventilation system:

- Air is renewed mechanically by being supplied into the living accommodation whilst being extracted from the bathroom and kitchen areas.
- Fresh air is introduced into the living room and bedrooms by swivel supply grilles to guarantee a good air renewal in the room.
- The stale air is extracted via the self-balanced constant air-flow extract grilles or humidity controlled extract grille to offer a unique plug & play system without any commissioning.



ADVANTAGES

- **Energy efficient:** High efficiency exchanger (up to 90%) and EC motor with constant airflow. **SAP AppendixQ eligible Best Practice.**
- **Quality of interior air:** filtration, F5 on supply air.
- **Thermal and acoustic comfort:** both motors are behind the heat exchanger to offer the lowest noise level in the rooms
- **Modularity of installation** thanks to dual-unit design.



Heat Recovery Ventilation + Heating distribution

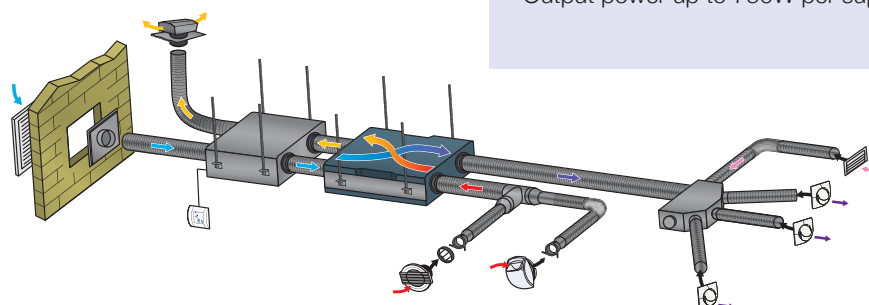
PRINCIPLE

- The Dee Fly heat recovery ventilation system is **associated with hot water heating modules to provide heating for high-performance buildings.**
- The heating modules, which are supplied with hot water by a heat pump or boiler, provide the required additional power to the pre-heated fresh air and ensure the distribution of the airflow to each supply grille.
- Each room has its own thermostat.



ADVANTAGES

- Discrete heating system.
- Responsive, room by room control.
- Centralised water distribution network.
- Output power up to 750W per supply grille.





Residential
Temperation®



Domestic Temperation® system T.Flow

Extract only ventilation + DHW

1 SYSTEM
2 FUNCTIONS
Ventilate.
Domestic hot
water.

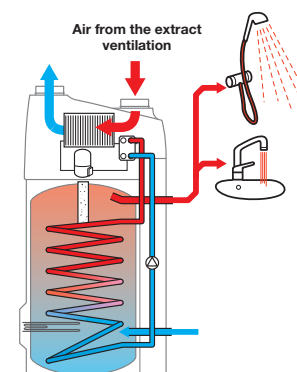


PRINCIPLE

- The T.Flow solution renews the air by extracting the polluted air from sanitary areas.
- The T.Flow is associated with self-balanced constant air-flow extract grille to comply precisely with the Building Regulation.
- The system includes an exhaust air heat pump fitted with an Inverter compressor. Using wasted energy from the stale air, it heats Domestic Hot Water (DHW).
- Solution for new building or retrofit.

ADVANTAGES

- **Energy savings and air quality**
 - Up to 10% reduction for heating thanks to mechanically controlled ventilation.
 - Up to 75% energy savings for the production of DHW compared to direct immersion heater.
 - COP 2.5 up to 3.5 depending on the airflow (under assessment with SAP AppendixQ).
- **Easy to install**
 - A single system to cover 2 functions.
 - "Plug and play" product.
 - Built-in 200L hot water tank suitable for pressurised system.
- **The best of technologies**
 - EC motor fan and Inverter compressor.
 - High quality enamelled tank protected by titanium anode.
 - Anti legionna function.
 - G4 protective filter.





Central Vacuum System C.Power



PRINCIPLE

- Dust and dirt are sucked in and evacuated to the unit, which is placed outside the living area.

Suitable for new buildings as well as retrofit, this new vacuum cleaner unit has numerous benefits: Power, robustness, user comfort, silent operation, easy maintenance etc.



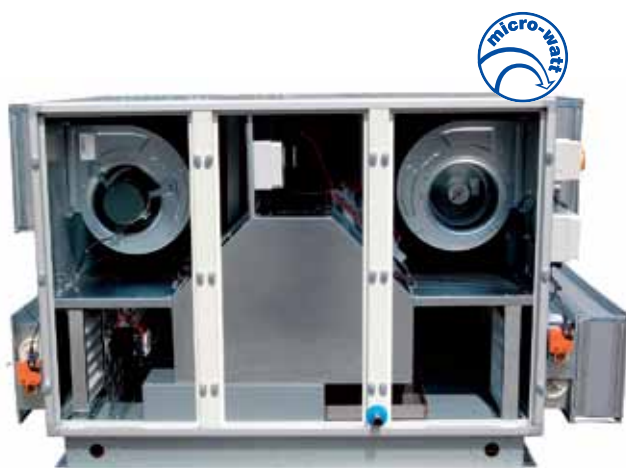
ADVANTAGES

- **Silence and power:** Two motors providing three power levels up to 2,800W for difficult floor surfaces. Noise level down to 58 dBA.
- **Easy installation:** thanks to a patented start system, no need for electrical connection between the outlets and the power unit.
- **Easy maintenance:** The high quality filter bag (capacity 30L) only needs to be changed once a year.
- **The bag traps 100% of dust, making it an effective method of reducing allergens and house mites.** A control screen on the central unit tells the user when to change the bag.
- **Wide range of accessories** including the double function bag for storing brushes and rolling up the flexible hose.
- **Innovative accessories** such as the flexible upholstery sucker to vacuum the dust between car seats or behind a radiator.





Commercial Ventilation



High efficiency ventilation for non residential buildings

PRINCIPLE

- Aldes offers ventilation systems combining high efficiency fans (with or without heat recovery) and airflow controls in each zone of the building.



ADVANTAGES

- **Optimisation of the airflows** depending on the occupancy of the building.
- **Optimisation of the heat loss** due to the ventilation and reduction of power consumption .
- **Easy to install** : no commissioning of the grilles and constant pressure fans.

RANGE OF FANS :

- **CVEC microwatt+**: direct drive EC motors fans for extract or supply only ventilation. Range up to 0.7m³/s. Constant pressure or self-adjusting pressure (patented).
- **VEC/VIK microwatt**: belt-driven fans with constant pressure controls for extract or supply only ventilation. Range up to 3.35m³/s.
- **DFE+**: high efficiency HRV with counter-flow heat exchanger (90%). Range up to 1.7m³/s. Direct drive EC motors. Constant pressure or constant airflow.
- **DFE Compact**: low profile DFE+ up to 0.55m³/s.

RANGE OF AIRFLOW CONTROLS:

- **MR: Constant airflow regulator**. Provides a constant airflow whatever the pressure in the system.
- **RMA: Motorised damper with constant airflow regulator**. Provides remotely controlled 2 speed
- **TDA: Motorised grilles with presence sensor**. Provides 2 speed depending on occupancy
- **MDA: Motorised damper controlled by CO2 or optical sensors**. Best application for office or big rooms. The chrono-proportional opening ensures to keep the Coanda effect from the diffuser.



ALD 610K



Twisted 850

Grilles & Diffusers

PRINCIPLE

- Aldes manufactures the whole range of grilles & diffusers. Thanks to 40 years of experience and a dedicated testing lab, Aldes can help you choose the right diffuser for each application.
- Aldes innovates offering new grilles and diffuser to increase the attractiveness and performance.

NEW PRODUCTS:

- **Combined Extract & Supply diffuser ALD610K.**
Simultaneous air supply (on the periphery) and exhaust (at the centre) for all ventilation and air conditioning applications. Saves time to install and reduce the number of grilles.
- **Swirl diffuser Twisted 850.** Dedicated to air conditioning, the Twisted diffusers are equipped with a patented system of swirl diffusion that provides added mixing capacity on a wide range of airflow (150 to 650m³/h). All this with an attractive design.
- **Slot Diffuser TechLined for Armstrong TechZone®.**
Aldes has developed in partnership with Armstrong a range of slot diffusers to fit perfectly the new Tech Zone ceiling tile system



Twisted

