The advantages of AVE CMV

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Ensuring appropriate air exchange inside buildings is fundamental to preserving their integrity over time and to guaranteeing conditions suitable for our well-being and our health.

To meet this necessity, air exchange systems are a solution that presents several pluses compared to the "classic" opening of windows, especially when temperatures become harsher.

AVE controlled mechanical ventilation devices with heat recovery, in particular, allow for a perfect air exchange in a completely automatic way, with all the advantages this entails:

1. Excellent air filtration, which is filtered before being introduced.
2. Greater sound comfort: acoustic pollution is absent as the windows remain closed.
3. More thermal comfort: the exchange does not imply opening the windows, thus avoiding thermal shocks.
4. Energy saving: in winter, the heat of the environment is recovered to "warm" the air before intake, avoiding the dispersions that are typically generated by opening windows.
5. Automatic exchange: ventilation occurs automatically, and no one has to remember and take charge of opening the windows.
6. Independence from climatic factors: in adverse weather conditions it is not possible to open the windows, whereas the CMV is totally independent of atmospheric events.
7. Controlled flow rates: opening windows effects a random exchange, while a CMV is dimensioned for the real needs of the room.

AVE proposes 4 solutions:

"AXIAL" NON-REVERSIBLE SINGLE-FLOW DECENTRALISED UNIT
(Art. VNDPS100)

This device, optimized for 24h operation in extraction mode only, finds its application in service rooms. AXIAL has the possibility to self-regulate the flow rate management (m^3) ensuring a constant renewal of air and is typically used in small and medium-sized residential settings. Installation is wall-mounted, subject to creating a 100mm hole, either with or without exhaust pipes.

"SOLITAIR" REVERSIBLE SINGLE-FLOW DECENTRALISED UNIT
(Art. VNRD100EC/150EC/150ECP)

This device finds its application in noble premises such as living rooms, bedrooms, or living areas up to 45 m^2. Particular attention has therefore been paid to a design that reflects that of the Domus Air range. SOLITAIR is a compact, elegant product, designed to adapt discreetly to any furnishing context. The aesthetic choices of the RAL9010 white front plate make it an object with simple, sinuous, and contemporary lines, which integrates perfectly into any environment. Wall-mounted installation subject to creating a 110/160mm hole; possibility of operation in Stand-alone or centralized mode.

"SOLAIR" DOUBLE-FLOW DECENTRALISED UNIT
(Art. VNRP100EC)

Generally used on large environments up to 75 m^2, both in residential and tertiary-commercial sectors (bars, restaurants, medical offices…). SOLAIR is a compact product with the peculiarity of being able to simultaneously manage a double air flow (intake and extraction) recovering the heat present with a dedicated exchanger. Stand-alone wall-mounted installation subject to creating two 100 mm holes.

"LINEA & VERTICAL" CENTRALISED UNIT
(Art. VNRL180ECP – VNRV 280/400/550 ECPN)

The centralised Controlled Mechanical Ventilation with double flow and heat recovery, in the LINEA and VERTICAL version (horizontal installation in the false ceiling and vertical wall-mounted), provides for the installation of a single unit for each structure, from the small apartment up to the individual dwelling (e.g. villa). The unit provides for the air exchange of the entire affected surface through the extraction of air from service rooms (bathroom and kitchen) and the intake of renewal air into noble premises (living room and bedrooms), air which is filtered and pre-heated. Unlike the decentralised models, it requires a distribution pipe network and allows precise regulation of the flow rate necessary for the installation environment.

Thanks to AVE, it is possible to equip any structure with advanced controlled mechanical ventilation systems, capable of meeting its needs and ensuring suitable air exchange.

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