



Now glazed curtain walls can be designed
with savings and comfort in mind. And 100% safety.



VETROVENTILATO® KEEPS YOU COOL IN SUMMER AND WARM IN WINTER. AND WE'RE NOT THE ONLY ONES TO SAY IT - THE CNR DOES, TOO.

VetroVentilato® has obtained certification from the Italian National Research Council (CNR-ITC No. 2005.12.09.0094) which has stated that with VetroVentilato®, windows go from being the weakest feature in a building to the strongest, because the system guarantees less heat loss than a wall.

VetroVentilato® creates a thermal and acoustic buffer which protects the room from heat, cold and noise and as a result thermal insulation and soundproofing are of a higher standard than is required by stringent EU requisites.

VetroVentilato® means more comfortable living spaces and greater energy savings.

Advantages.

- 0.3+ better thermal K than a wall.
- Noise reduction
Soundproofing from 44 dB.
- Constant temperature near the windows and in the room in both hot and cold conditions.
- Higher thermal insulation and soundproofing than required by stringent EU standards.





GREATER ENERGY SAVINGS AND MORE USABLE SPACE. THANKS TO VETROVENTILATO®.

VetroVentilato® keeps the whole room at the same temperature in all weather conditions and means you can install smaller heating and air conditioning systems. This helps keep your initial investment and running costs to a minimum.

VetroVentilato® actually eliminates the dramatic changes of temperature you find near windows.

This means you can now make use of those spaces which would otherwise have been wasted.

In a nutshell, VetroVentilato® increases the usable floor space, as well as guaranteeing energy savings and a new comfortable lifestyle.

Advantages.

- Great energy savings (on average 35%+ reduction in current heating and cooling costs).
- Allows installation of smaller air conditioning and heating systems.
- Allows you to make full use of the space near the windows.
- Increases comfort more than 65% than other glazing systems.



WINTER.

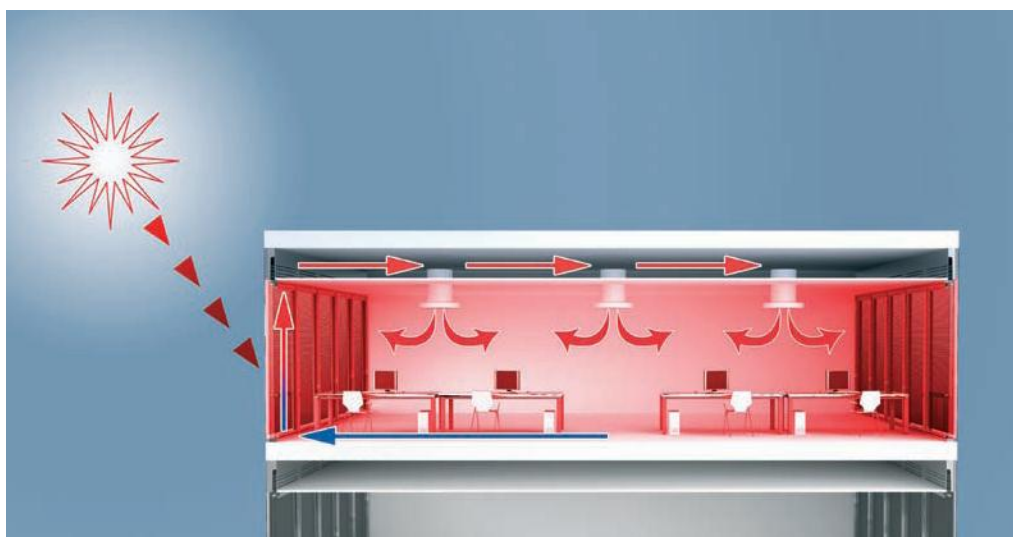
External air temperature **-5°C**

External glass temperature **-5°C**

VetroVentilato®

Internal glass temperature **18°C**

- High thermal balance.
- Allows installation of smaller air conditioning and heating systems.
- Great energy savings.
- Optimal thermal insulation and soundproofing comfort, allowing you to work next to the window.
- Natural light.
- No more condensate or ice on the inner pane.



VetroVentilato® takes the solar radiation in the glazing and uses it to help boost the interior heating system. So all the inside space near the windows can be used in comfort.

Traditional windows

Internal glass temperature **0°C**

- Discomfort in the area near the windows caused by cold radiation and draughts.
- Minimum distance to be able to work near the window - 1.5 m.
- Huge thermal imbalance.
- Installation of oversized air conditioning and heating systems.
- High running costs.
- No natural light due to shaded glazing and curtains.
- Possible build-up of condensate on the inner pane.



SUMMER.

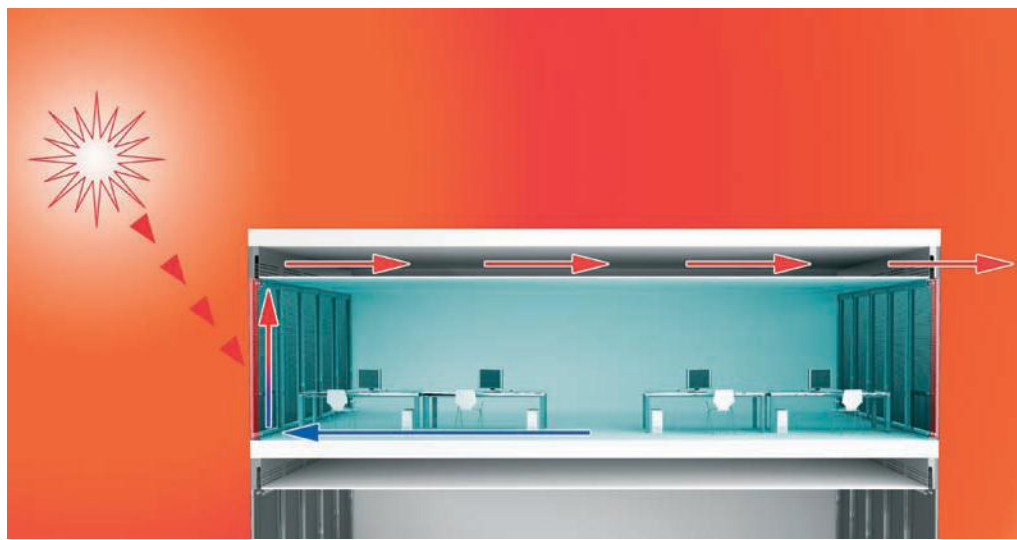
External air temperature **35°C**

External glass temperature **60°C**

VetroVentilato®

Internal glass temperature **25°C**

- Optimal thermal balance.
- Allows installation of smaller air conditioning and heating systems.
- Great energy savings.
- No more hot spots near the glazing, you can work next to the windows.
- No need to fit and clean expensive curtains inside or sun blinds outside.
- Natural light.



With VetroVentilato® the heat is expelled from the glass, creating a comfortable indoor temperature. And all the inside space near the windows can be used.

Traditional windows

Internal glass temperature **80°C**

- Discomfort in the area around the windows and thermal imbalance caused by high irradiance and cold draughts due to air conditioning.
- Minimum distance to be able to work near the window - 1.5 m.
- Larger air conditioning systems needed.
- High energy consumption.
- No natural light due to shaded glazing and curtains.



GREAT ENERGY SAVINGS
WITH VETROVENTILATO®.

Energy requirement needed to COOL.

| | VetroVentilato® | Traditional windows | Higher costs with other glazing systems |
|-----------|-----------------|---------------------|---|
| Milan | 49.328 MJ | 180.326 MJ | +265% |
| Paris | 13.382 MJ | 90.177 MJ | +573% |
| Seville | 104.868 MJ | 275.565 MJ | +162% |
| Abu Dhabi | 456.035 MJ | 825.145 MJ | +81% |

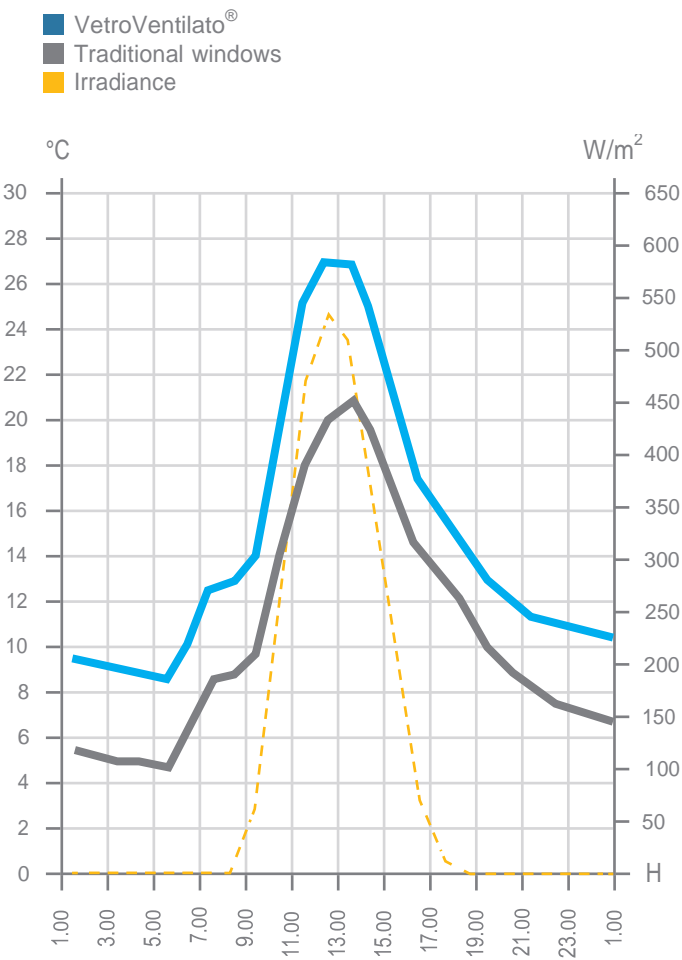
Energy requirement needed to HEAT.

| | VetroVentilato® | Traditional windows | Higher costs with other glazing systems |
|-----------|-----------------|---------------------|---|
| Milan | 157.673 MJ | 179.795 MJ | +14% |
| Paris | 156.984 MJ | 186.791 MJ | +19% |
| Seville | - | - | - |
| Abu Dhabi | - | - | - |

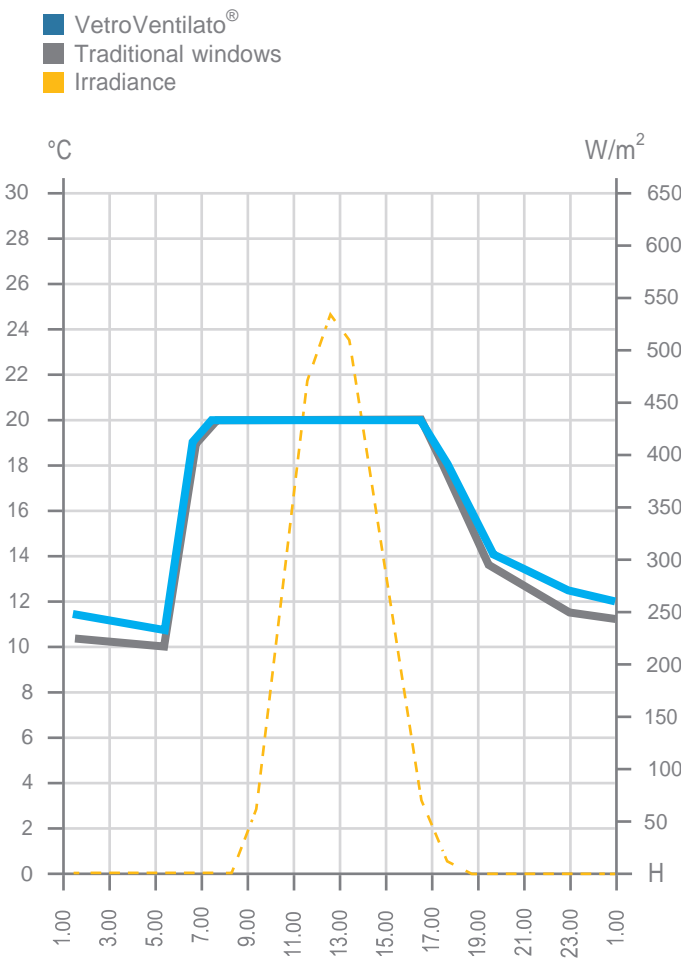


WINTER
TEMPERATURES.

Surface temperature of glass.



Internal room temperature.



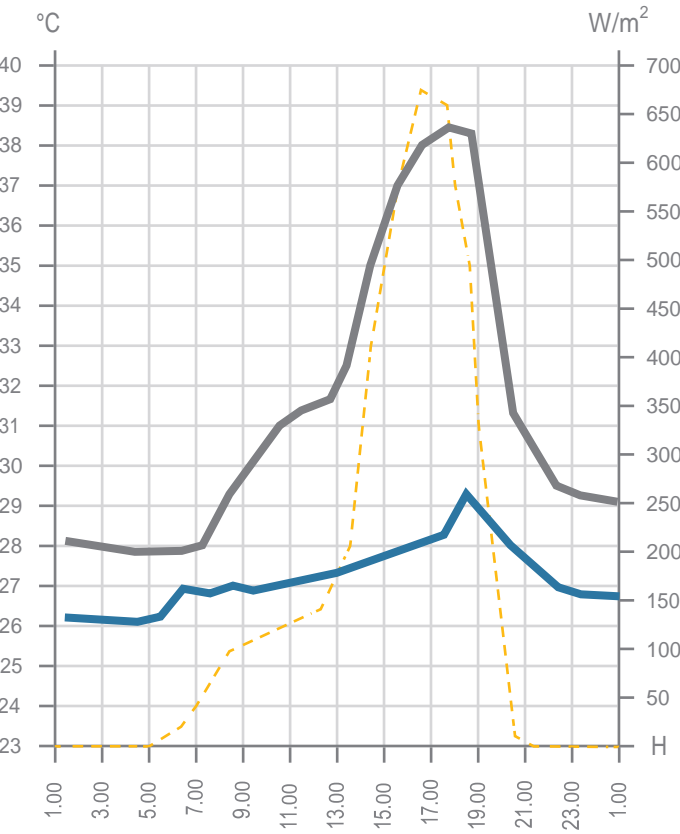
Simulation of a south-facing building - Milan



SUMMER
TEMPERATURES.

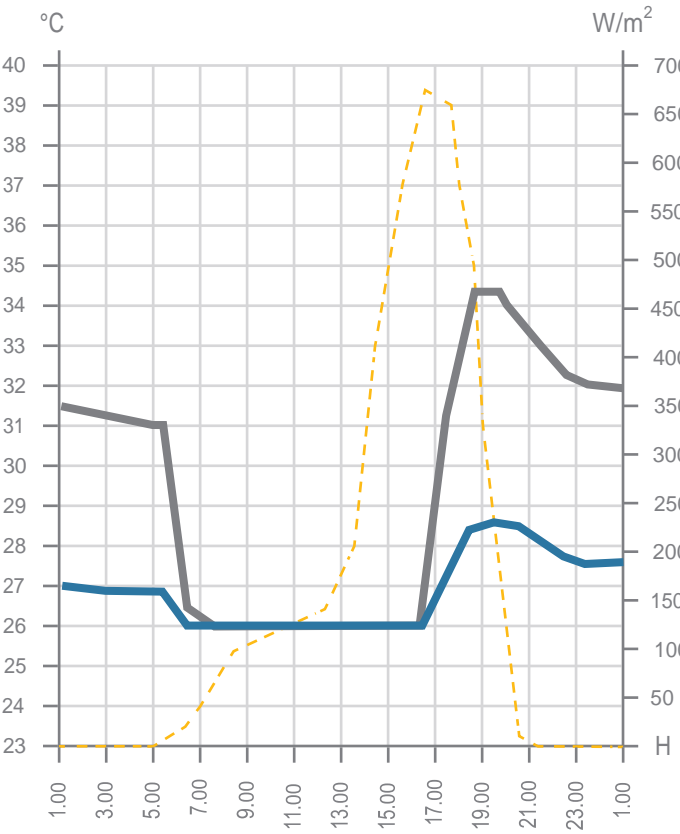
Surface temperature of glass.

- VetroVentilato®
- Traditional windows
- Irradiance



Internal room temperature.

- VetroVentilato®
- Traditional windows
- Irradiance



Simulation of a south-facing building - Milan



VETROVENTILATO® IS SO MUCH MORE THAN JUST GLAZING. IT IS A SYSTEM OFFERING COMFORT, SAVINGS AND ADDED VALUE.

VetroVentilato® allows you to use the hot air which collects in its cavities to increase the comfort level in the indoor environment. Thanks to external temperature sensors, the hot air is conveyed inside in the winter and expelled outside in the summer.

And you can say goodbye to curtains with VetroVentilato® because it has a built-in blind. So you no longer have to worry about allergens, finding the space for the curtains and washing them.

This revolutionary system also allows you to air the room without having to open the glazing. Keeping the dust, noise, heat and cold out.

The VetroVentilato® system gives added value to any building and will increase its value considerably over the years.

Advantages.

- The heat which has collected in the cavities may be conveyed into the room (in winter).
- No more condensate on the panes.
- Healthier environment.
- The heat which has collected in the cavities may be expelled outside before it enters (in summer).
- No need for sun blinds and curtains and no more need to worry about allergens.
- The clear glass lets in natural light.
- The room can be aired without having to open the glazing.
- Considerable rise in the value of the property.

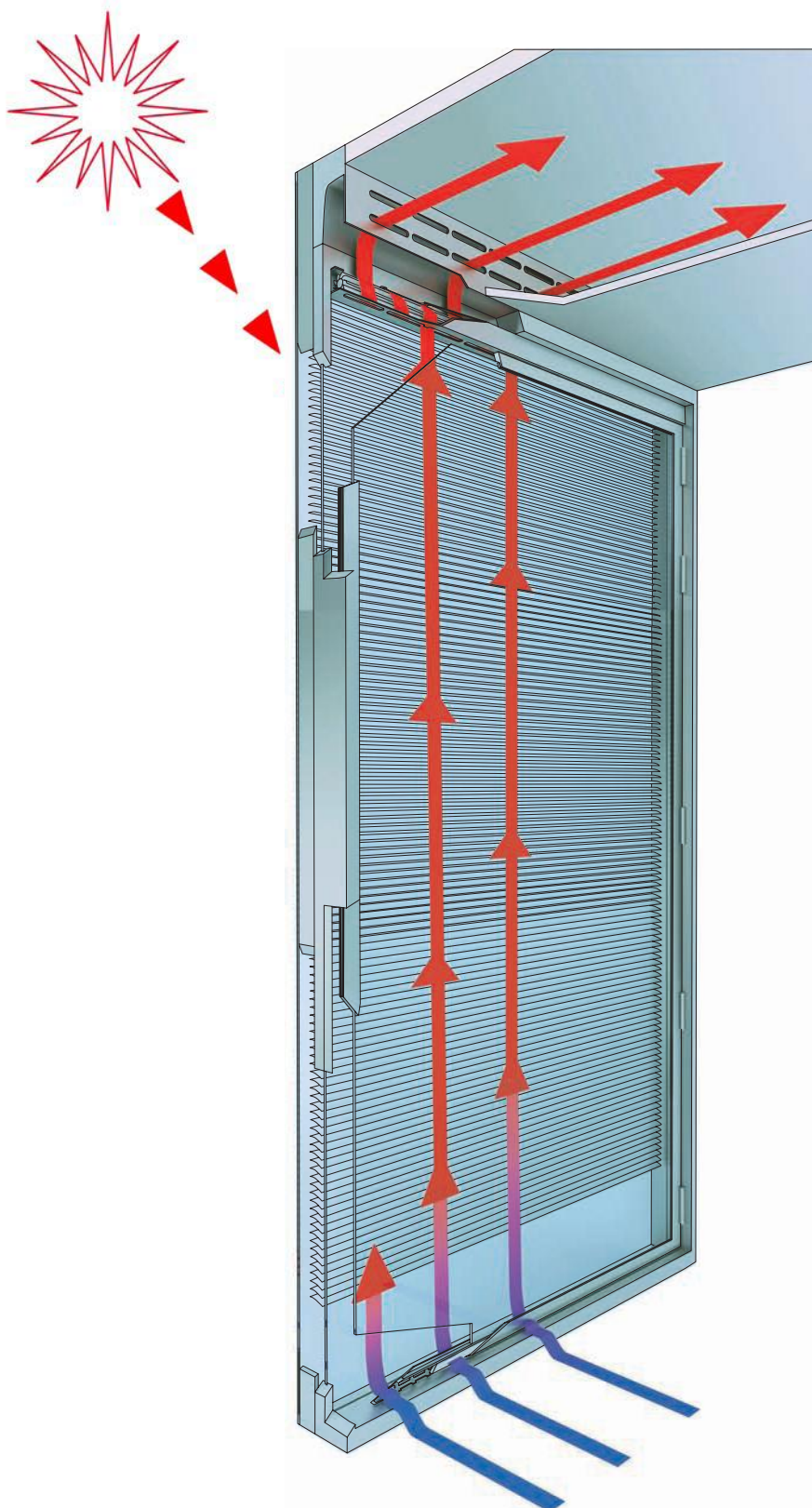


VETROVENTILATO® AN INTERNATIONAL PATENT.



How it works.

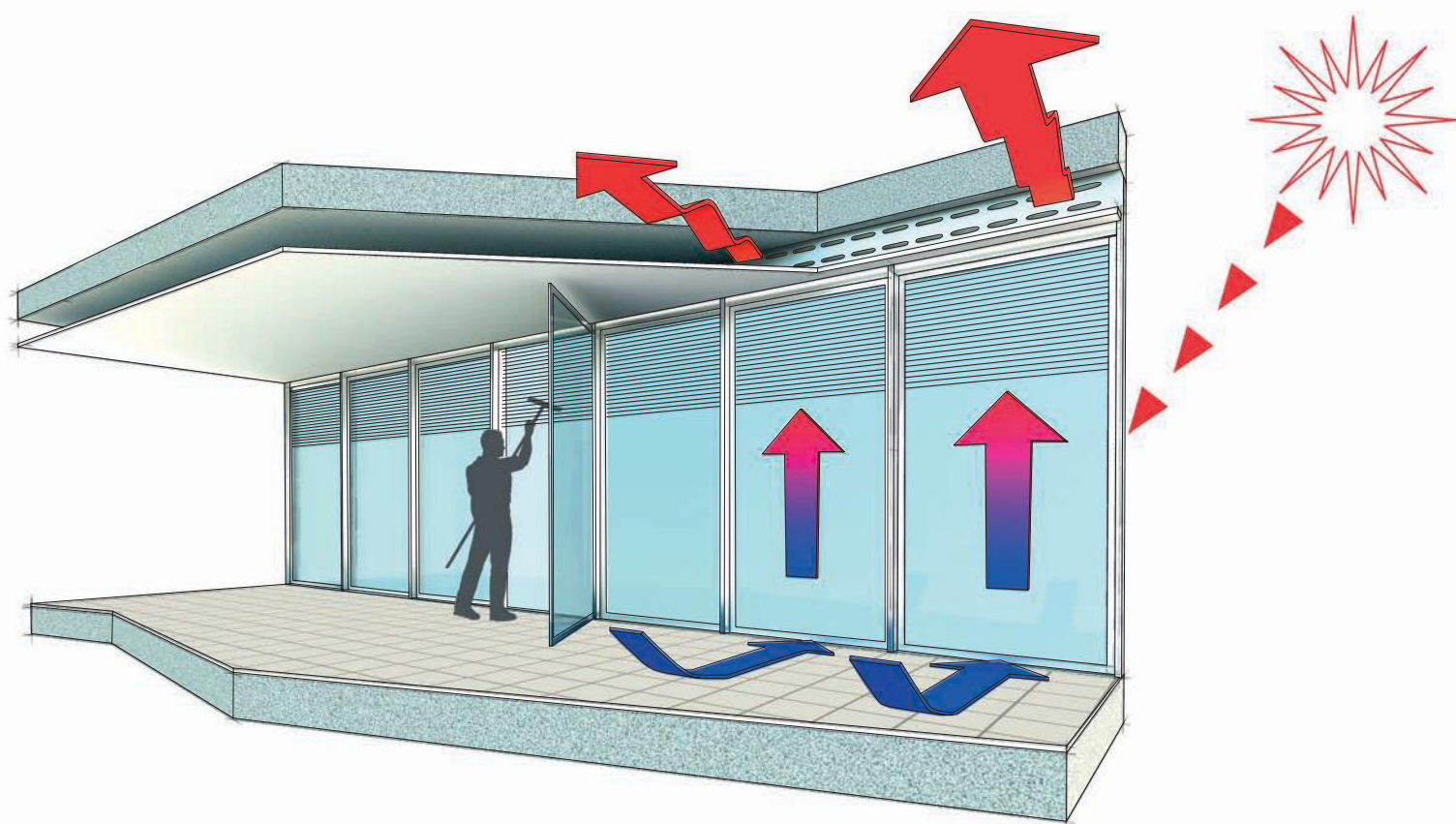
1. The motorised tangential fan (controlled by sensors) helps extract the air from the room through the bottom section of the window. The air is then filtered and enters the ventilated cavity.
2. In the ventilated cavity, the air from the room pushes out the air which has been heated by solar irradiance and then intensified by the aluminium slatted blinds.
3. Now the air has reached its hottest temperature, it is expelled by the fan inside the false ceiling:
 - in the winter it is reintroduced into the room to heat it;
 - in the summer it is conveyed directly outside the building.
4. Should there be no solar irradiance, VetroVentilato® shuts down but can be reactivated to air the room.





Maintenance.

Easy access to the ventilated cavity for inspection or cleaning.





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