

# Natural Ventilation Systems

Dyer's controlled natural ventilation solutions offer an environmentally friendly, healthy, cost-effective alternative to air-conditioning systems.

It is possible to manage the supply / movement of fresh air within a building using Dyer's intelligent ventilation solutions. This control creates a healthy living, working and learning environment.

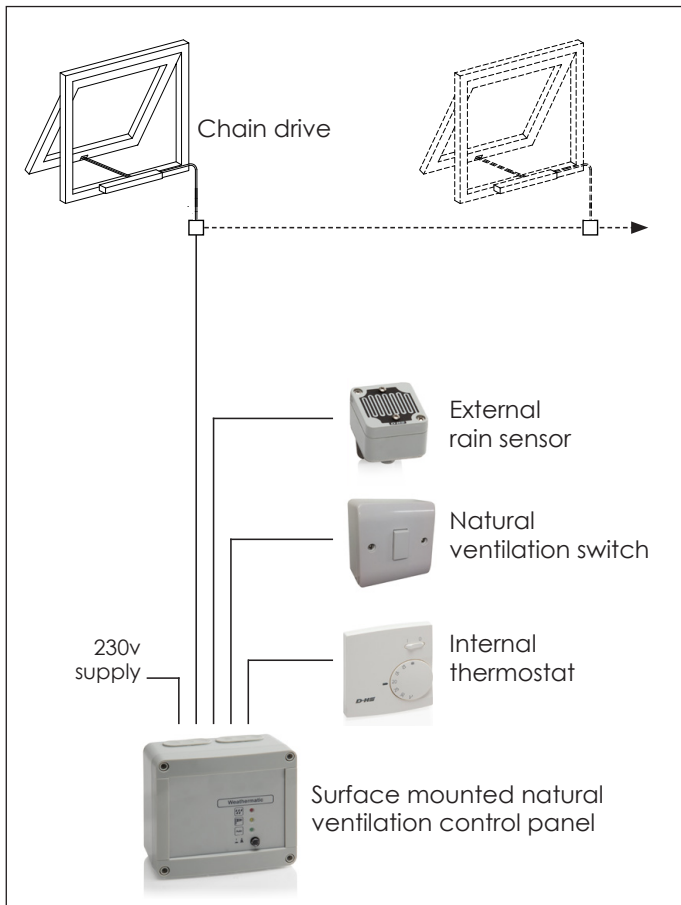
## System

The natural ventilation is controlled depending on the requirements regarding temperature, air hygiene and energy.

Dyer's control systems evaluate the prevailing weather and room air conditions, such as the temperature, humidity and carbon dioxide content in the room, plus the outdoor temperature.

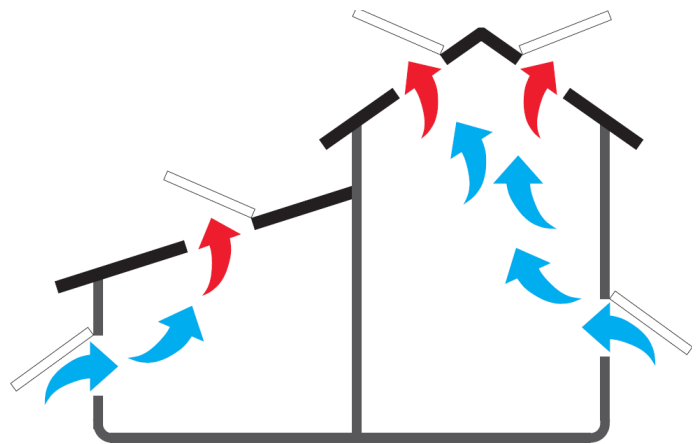
Motorized opening of windows generates a targeted exchange of warm, stale indoor air and fresh outdoor air by means of the difference between indoor and outdoor temperatures, the thermal lift in the room and the wind conditions surrounding the building.

## Simple natural ventilation system:



## Benefits of a Dyer system:

- Low maintenance costs.
- Less energy consumption as neither active cooling nor mechanical ventilation is needed.
- Shorter construction times due to simple, fast commissioning.
- Space-saving designs since there are no ducts or distributor shafts needed.
- Reduction in carbon dioxide emissions.



## Intelligence of a Dyer system:

- Room temperature and CO2 control.
- Weather station for external monitoring.
- Interface with BMS and/or heating systems.
- Actuators and drives.
- Remote control.
- Ventilation switches.

