



Evel

www.evelsrl.it



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# Who we are

▶ EVEL srl was founded in 2015 and is an Italian manufacturer of HVLS fans and ventilation systems for the sectors:

▶ Industrial



▶ Commercial



▶ Public Administration



▶ Zootechnic



systems that guarantee, first of all, **energy efficiency** and **cooling** as well as other advantages.

# What we do

HVLS per industria/terziario/PA



**HVLS fans: Diameters from 2.5 m up to 7 m**

**HVLS: High Volume (Air) at Low Speed (Ventilation)**

**Big Air Flow: Up to 850.000 m<sup>3</sup>/h**

**Low Consumption: < 1 kW/h**

**Low Noise: < 60 Dba**

**BRUSHLESS DIRECT DRIVE MOTOR: NO oil, NO maintenance , NO noise**

**NACA BLADE DESIGN: Bigger Air Flow(CFM) comparing to the competitors**

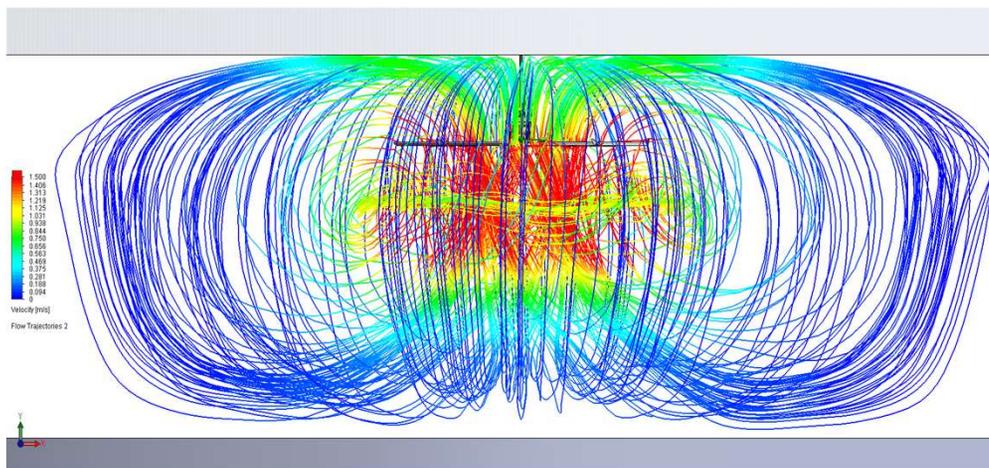
**NO VFD: inverter built-in**

**Ingress Protection Code: IP 65 fully protect against water and dust**

# How HVLS works

<https://www.youtube.com/watch?v=SWd2Fpwqzrc>

Rotating slowly at low revolutions, our fans create an air flow whose dimensions, depending on the layout they encounter, can reach about 4 times their diameter, in all directions.



This ventilation system is used in large spaces such as production plants, logistics centers, storage sites, sports halls, department stores, mechanical workshops, car dealerships, where air conditioning systems are very expensive both as an initial investment and in subsequent operating costs.

The best option, in these cases, is the **Evel HVLS ventilation system**, with which the perceived temperature is **reduced from 2 ° to 6 ° C in the summer** season, while in the winter season the mixing with the warmer air in the ceiling **increases by 4 to 6 ° C** the temperature on the ground with a consequent **energy saving of about 30%**.

# Main Benefits

1. They **reduce the heating costs** of large environments (on average by 30%)
2. They **reduce the perceived temperature** (6 °C less)
3. They **decrease the proliferation of viruses**, bacteria and molds
4. They **prevent the creation of condensation** on the ground avoiding deterioration
5. **Reduce downtime** (in the case of CCN machines and/or delicate parts)
6. **Increases operator productivity** thanks to greater comfort in the work environment
7. They have an **extremely low consumption** (moto-inverter on board)
8. They can also be **installed on existing heating/cooling systems**
9. They **can be installed progressively**, avoiding important investments on an economic level

# Installation Layout



# Control Units Range

<https://drive.google.com/file/d/1PpLxKu53KC5YZf9p0uc0EzDqdz5k5f/view?usp=sharing>

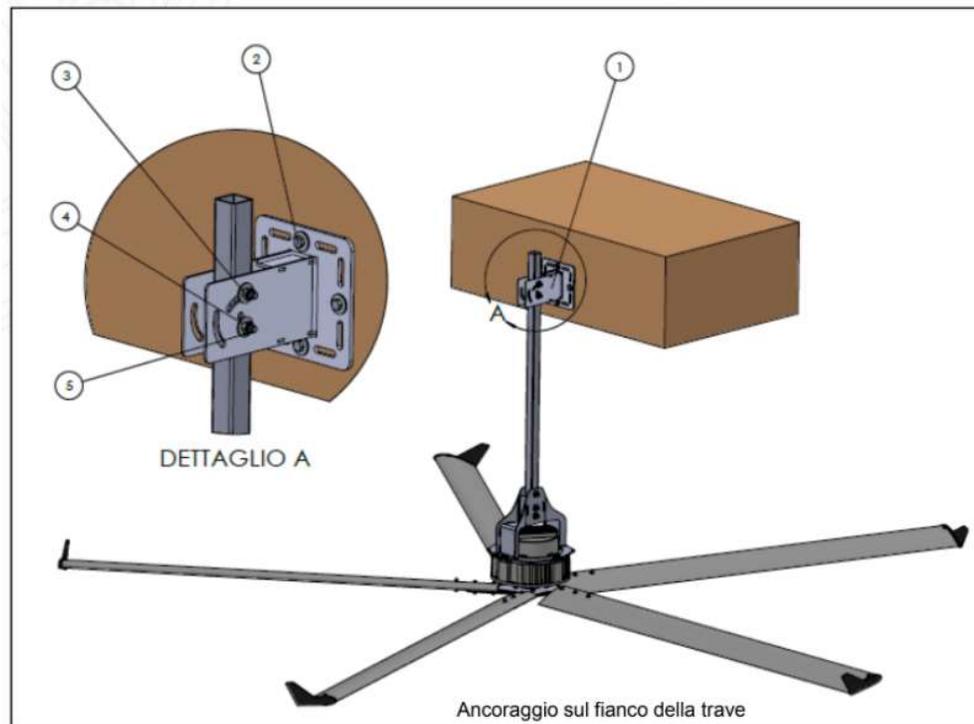


FEATURES	POTENTIOMETER	X9-EV	GLOBAL	TOUCH PRO	TOUCH FULL
Temperature Probe	X	V	V	V	V
Manual Controlled	V	V	V	V	V
Anemometric block	X	V	V	V	V
Min/Max range limitation	X	V	V	V	V
Control up to 20 fans controlled (1 line)	V	V	V	V	V
Direction change rotation	V	V	X	V	V
4 Scenarios Showers controll	X	X	V	V	V
Ventilation+Showers controll	X	X	V	V	V
Control up to 40 fans (2 lines)	X	X	V	V	V
Milking time controll (Stop&Go)	X	X	V	V	V
THI Probe	X	X	V	V	V
Single motor fan controll	X	X	X	V	V
PLC on board	X	V	V	V	X
Control up to 80 fans (4 lines)	X	X	X	X	V
Control up to 480 fans (24 lines)	X	X	X	X	V
Cabinet available (LCD screen at the office)	X	X	X	X	V
Max fans manageable via digital signal	X	X	X	100 +	100 +
Available for Industrial Applications	V	V	V	V	V
Available for Zootechnic Applications	V	V	V	V	V
Available for Commercial Applications	V	V	V	V	V

# The Anchors

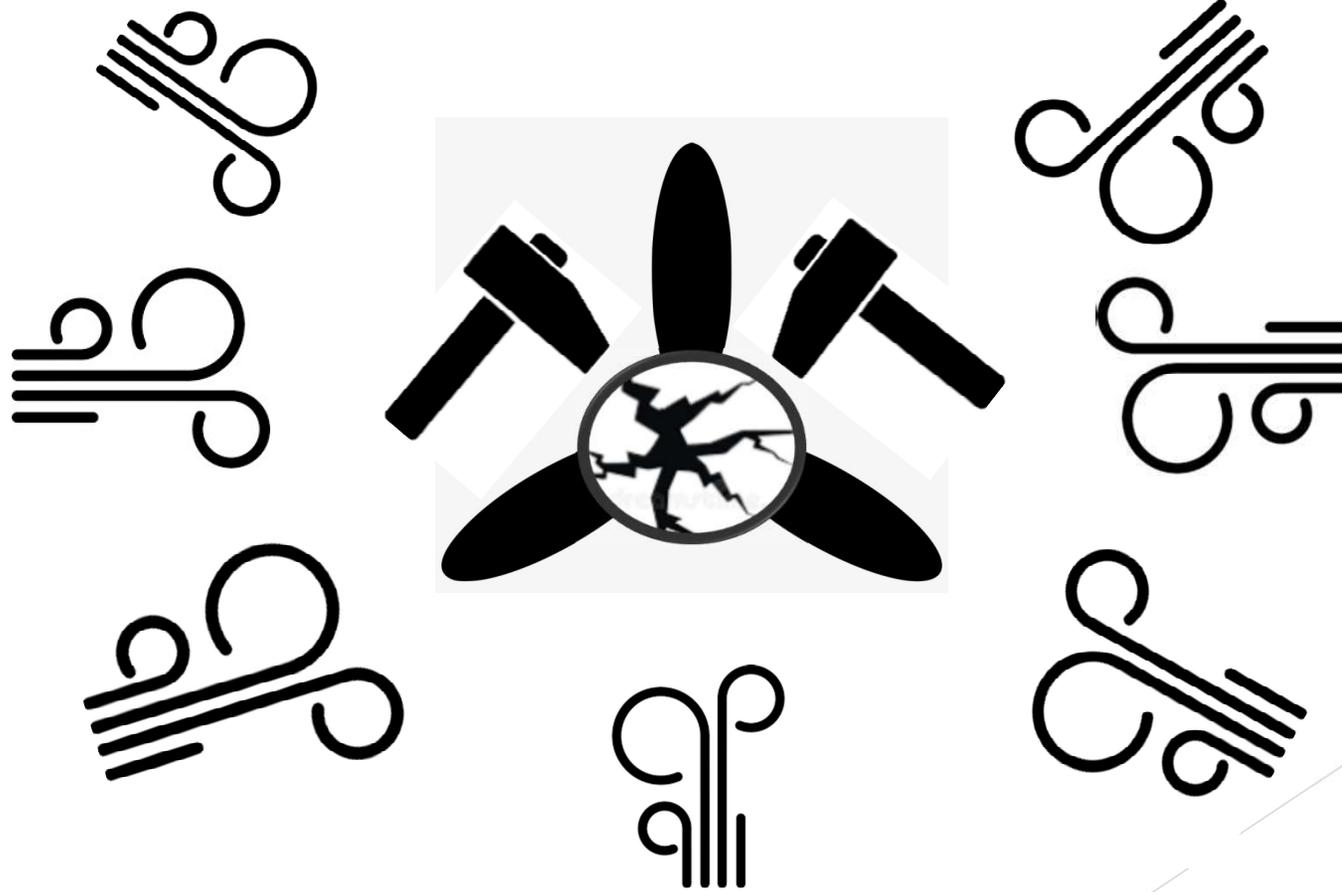
<https://drive.google.com/file/d/19ZDGX-01NlgIHrFS4BnY7SOWIH56O6sq/view?usp=sharing>

## 1.1 - Trave in calcestruzzo normale o prefabbricato ancoraggio 1:



# Safety Measures

<https://drive.google.com/file/d/1EmyZB2V4z90u3310C8T6oBhZ1oeEUVUd/view?usp=sharing>

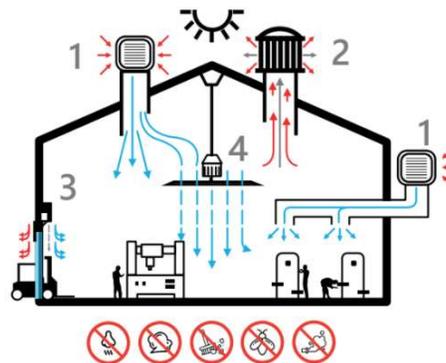
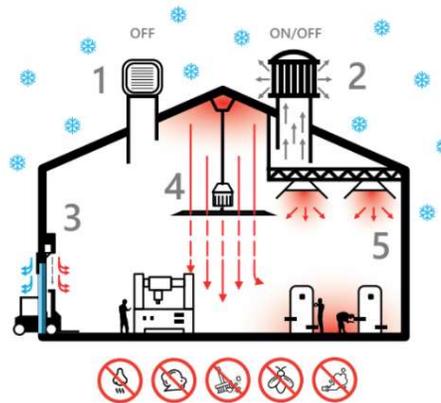


# Solutions/Applications

<https://www.youtube.com/watch?v=LB2n2yqxpBM>

## HOW DOES IT WORK IN WINTER?

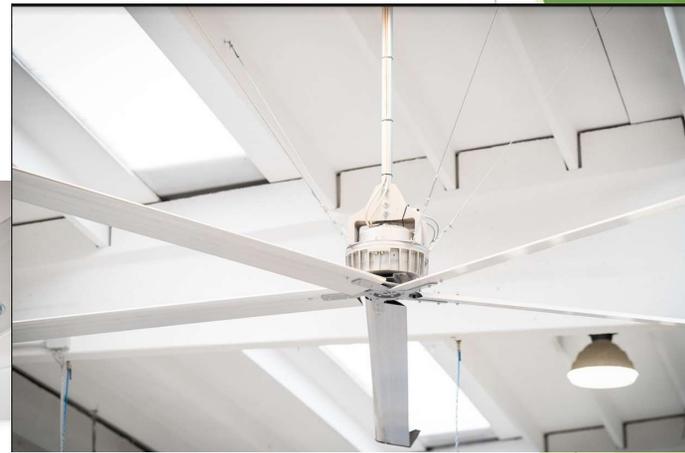
1. **Adiabatic evaporators** are either completely out of operation or they simply supply outside air without cooling.
2. **Ventilation turbines** may be limited in order to prevent heat loss during winter.
3. **Air barriers** prevent heated air from escaping the building. The system provides environmental separation, reduces door cycles and increases life expectancy of cooling and heating systems.
4. **HVLS destratifiers** draw in warm air from below the roof and push it at very low rotations towards the floor. This equalizes air temperatures by disruption of various air layers by the so-called destratification up to a difference of 2° C between the floor and the roof.
5. **Infrared heaters** heat the air indirectly by increasing the radiant temperature. Rays of radiation strike the employees' skin, floor, machines, materials and other objects. Surfaces absorb energy that dissipate it into the environment while they heat up resulting in comfortable temperature.



## HOW DOES IT WORK IN SUMMER?

1. **Adiabatic evaporators** bring fresh outdoor air through the roof/skylights. At the same time they clean, humidify and cool the air by at least 7° C.
2. **Heat extraction turbines** balance external and internal temperatures and remove used and polluted air through the roof. Permanent air rinsing reduces thermal load by up to 7° C and removes humidity.
3. **Air barriers** keep cooled air inside the building by re-circulating facility air in a smooth uniform flow, creating a seal on the doorway. The system provides environmental separation, reduces door cycles and increases life expectancy of cooling and heating systems.
4. **HVLS Destratifiers** take in conditioned air and ensure its even high-volume draught-free distribution with a flow rate of up to 550.000 m3. Air circulation decreases the temperature by up to 7° C.

# Case History- Blupura project



**VIDEO:** <https://drive.google.com/file/d/1epWHou4fw5FLTeZVta1C8GKnI9kNVIsu/view?usp=sharing>

**OTHER INSTALLATIONS:** [https://drive.google.com/file/d/1wiGOhnVdZg7hPnnNVh\\_ZvqluVQCvEVoz/view?usp=sharing](https://drive.google.com/file/d/1wiGOhnVdZg7hPnnNVh_ZvqluVQCvEVoz/view?usp=sharing)

# Some of our customers...



(conf)



Thanks 4 Your Kind Attention

**THANK  
YOU!**