aerauliqa®

AIR & LIFE QUALITY

HVLS

HIGH VOLUME LOW SPEED

HVLS FANS

DESTRATIFICATION & COMFORT

WHAT IT IS

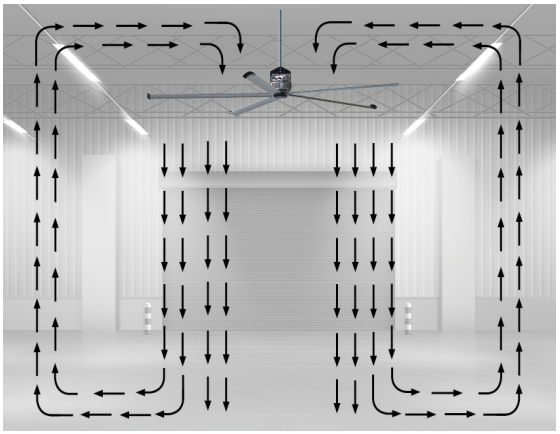
HVLS (High Volume Low Speed) ceiling fans with diameter up to 7.30m to move large air flows at low speeds.

AIM

Maximize air movement in environments characterized by great heights with the aim of improving the microclimate, air quality, comfort, energy efficiency and reducing management costs.

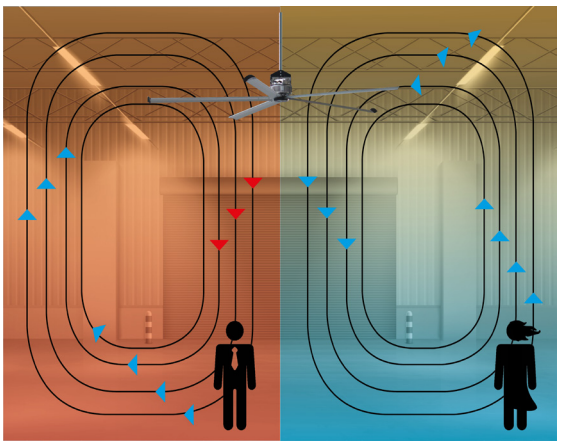
OPERATION

The HVLS fans create a column of air directed downwards which, once it impacts the floor, changes direction reaching the walls of the building and then rises up, along the walls, up to the ceiling and feeds the fan again and continuously.



DESTRATIFICATION

In winter, the heat tends to stratify in a natural way towards the upper part of the rooms. Therefore, the occupied area is at a lower temperature, with consequently greater consumption of energy to ensure thermal comfort. The HVLS fans generate continuous mixing of the air so to reduce the stratification of temperatures, to eliminate cold areas by increasing comfort and to avoid unnecessary stress on the heating system with significant economic and energy savings of up to 30%.



COMFORT

In summer, the HVLS fans produce a light breeze that reduces the actual perceived temperature by up to 6°C. Their use makes it possible to increase comfort, concentration and productivity, to reduce the phenomenon of condensation and the relative danger of accidental falls, to safeguard the stored material and, if present, to reduce consumption of the air conditioning system by up to 20%.

MUCH MORE THAN A TRADITIONAL FAN

Thanks to the large dimensions of the blades and the high efficient EC motors, the HVLS fans are able to move considerable volumes of air at low speeds with extreme silence and low consumption, producing a uniform and constant movement of air. HVLS fans have a more effective operation compared to conventional small ceiling fans which generate low air volume at high speed and are noisier, less efficient and create drafts that spread quickly but also quickly dissipate, making them suitable only for narrow spaces.

BENEFITS

- Reduction of energy consumption (by up to 30% in winter)
- Low energy consumption (max 1.2 kW for the largest model)
- Reduction of the perceived temperature of up to 6°C (in summer)
- Improvement of air quality
- CO_2 emission reduction
- Greater comfort
- Increased productivity
- Compliance with the safety requirements relating to the workplace
- Reduction of machine stops in production
- Reduction of the slippery risk and falling thanks to the reduction of the phenomenon of condensation on the floor
- Maintaining the good state of conservation of products and packagings stored in the warehouse
- Reduction of the entry of external air from doors and perimeter openings

TYPE OF INSTALLATION

LOGISTICS

AUTOMOTIVE

WORKSHOPS

AIRPORTS

SPORT CENTERS

FARMS

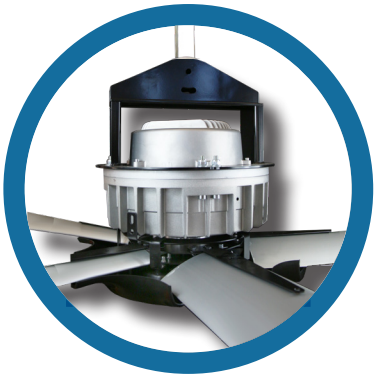
RANGES

THS: 4m - 5m - 6m - 7,30m

WHS: 4m - 5m - 6m

MHS: 3,6m - 5,4m - 7,30m

LHS: 2,40m - 3m - 3,60m



Designed and made in Italy

Our HVLS fans are equipped with EC brushless motors with integrated electronic system and EMC filters

- Low electricity consumption
- Controllable speed with high-precision regulation
- High degree of protection against dust and humidity (IP65)
- Silent operation
- Modbus connectivity

- Aesthetic hub cover
- Aerodynamic profile blades designed by Aerauliqa through fluid dynamic analysis, made from EN AW 6063 T6 structural aluminum and equipped with terminal tips to reduce the resistance generated by the extremity vortices
- Integrated multiple-redundancy safety and stability system
- Operating temperature from 0°C to +50°C
- Different remote control options

PRODUCTION PLANTS

Plant A
Via Mario Calderara 39/41
25018 Montichiari (BS)
ITALY

Plant B
Via Torquato Tasso 7
25016 Ghedi (BS)
ITALY

Plant C
Via Cesare Pavese 6
25080 Mazzano (BS)
ITALY

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