

WINDEPENDENCE



# Ventilation Systems for Static Cold Chain



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**HVLS FAN: High-Volume, Low-Speed (HVLS)** fans have emerged as a critical element in maintaining optimal conditions in refrigerated warehouses, offering numerous benefits that enhance operational efficiency and product integrity. This article explores the advantages of implementing HVLS fans in these specialized environments. With an air flow that can reach 850.000 m<sup>3</sup>/h EVEL HVLS fans can optimize the microclimate inside the the refrigerated big environment.

Model	WZ7000 HP	WA1400ECO-2
Diameter {m}	7	1,4
Number of Blades	5	3
Weight Installed {kg}	140	45
Maximum Speed {rpm}	50	750
Maximum Consumption {Kw}	0,665	0,51
Maximum Absorbed Current {A}	1,65	0,83
Noise Level {Dba}	< 45	81,9
Air Flow {m3/h}	850.000	30.000
Motor Type	Brushless	Brushless
Inverter	Integrated	Integrated
Maximum Distance from the roof {m}	1,5	N/A
Blade Material	Aluminium	Plastic
Blade Finish	Black - Gray - Sanded	Black
Carpentry Finish	Grey - Green	Black
Blade Design	Naca Airfoil	N/A
Electricity Supply	200-480V Three-phase 50/60 Hz	200-480V Three-phase 50/60 Hz



WA1400 ECO-2



WZ7000 HP

## Main Benefits

- 1 Make the temperature homogeneous throughout the environment > Better environment / Less waste / More profitability
- 2 Avoid stratification of the warm air in the higher part of the environment > Better quality of the stocked products / More health for the customers.
- 3 Reduce overall network demand during peak periods of energy consumption > Better consumption of energy
- 4 Optimize the work of the coolers > Better combination of installed machines / Faster R.O.I.
- 5 Keep under control the humidity level > Better environment level / Avoid condensation
- 6 Reduce the condensation > Avoid damage to equipment, products, and materials / More profitability and decrease in structure maintenance
- 7 Reduce the potential creation of mold > Better health level for workers and customers / More profitability
- 8 Increase the quality of the microclimate inside the environment > Less bacteria / Decrease in potential diseases/infections
- 9 Grant a better static part in the cold chain > Better service quality / More satisfied customers
- 10 Grant a better quality of the stocked items (food, medicines, etc) > Increase the main target that we must achieve



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