

HICOOLTM
Air Moving Products



Revolutionizing Airflow

with EC Fan Technology

AxiEC Fans

AxiEC - Highlights



High static pressure and large air volume

The performance is industry-leading, with a maximum static pressure of 544Pa. Rated air volume up to 34700m³/h.



RS-485

Wide operating conditions

The fan operation is optimized through the utilization of RS485 / Analog 0-10V voltage adjustment mechanisms, enabling precise and stepless control.

The RS485 modulation ensures a robust and efficient communication protocol, allowing seamless integration with control systems.

This technical configuration empowers the system with the capability to dynamically adapt to a spectrum of working conditions, ensuring optimal efficiency and functionality.



High efficiency

The highest static pressure efficiency is 55.6%, which is higher than the industry standard.



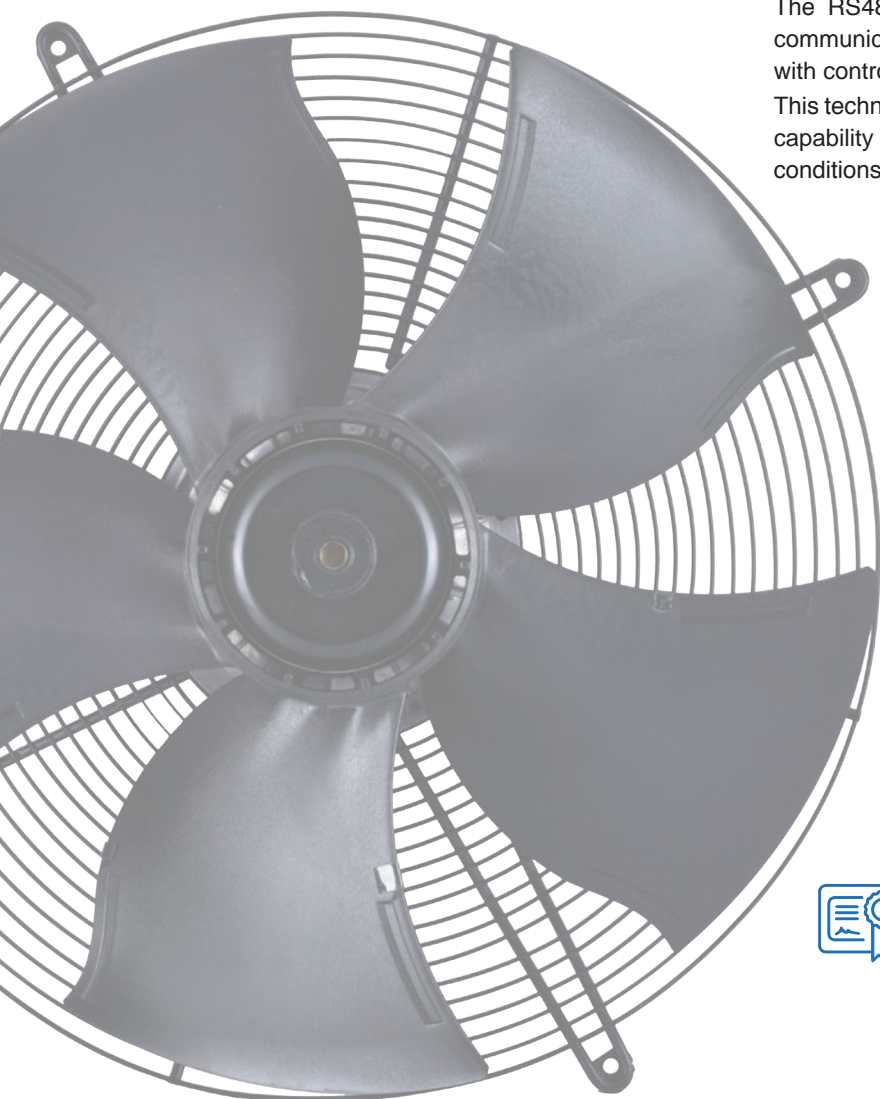
Efficient spatial design

Significantly reduces equipment size due to improved compactness, further reducing overall cost.



Certifications

Certified by CE, UL & RoHS.



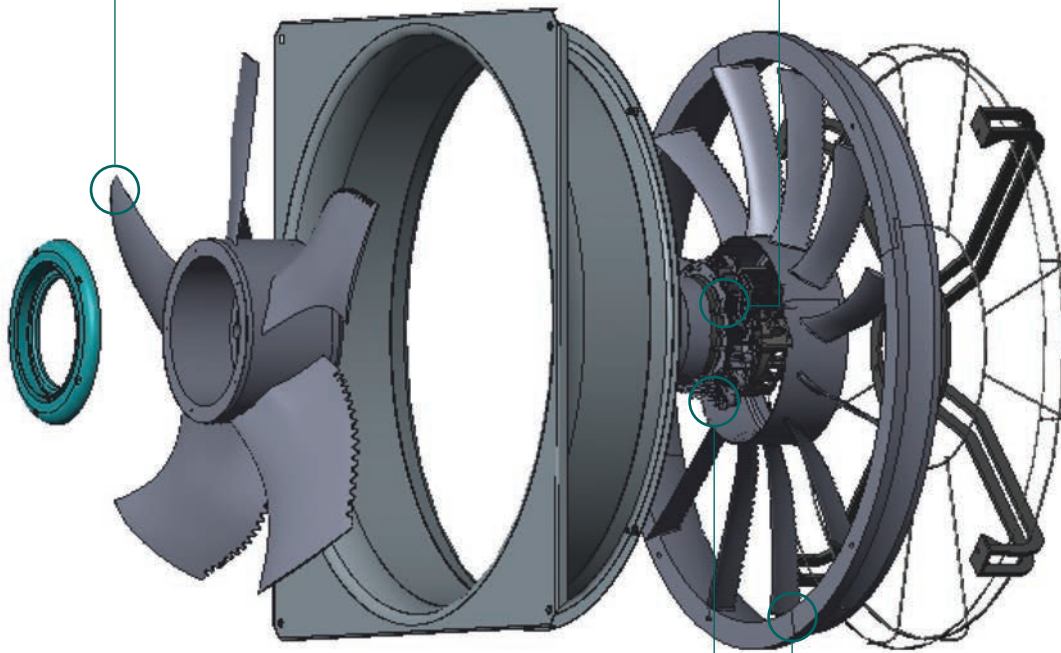
Technical Advantages

■ High performance, low noise

The impeller, designed with high strength and low weight, enhances the fan's efficiency and ensures low noise output.

■ Intelligent EC electronic control

Enabled by Electronic Control-Performance for varied customer needs like open loop or close loop speed control through precise engineering.



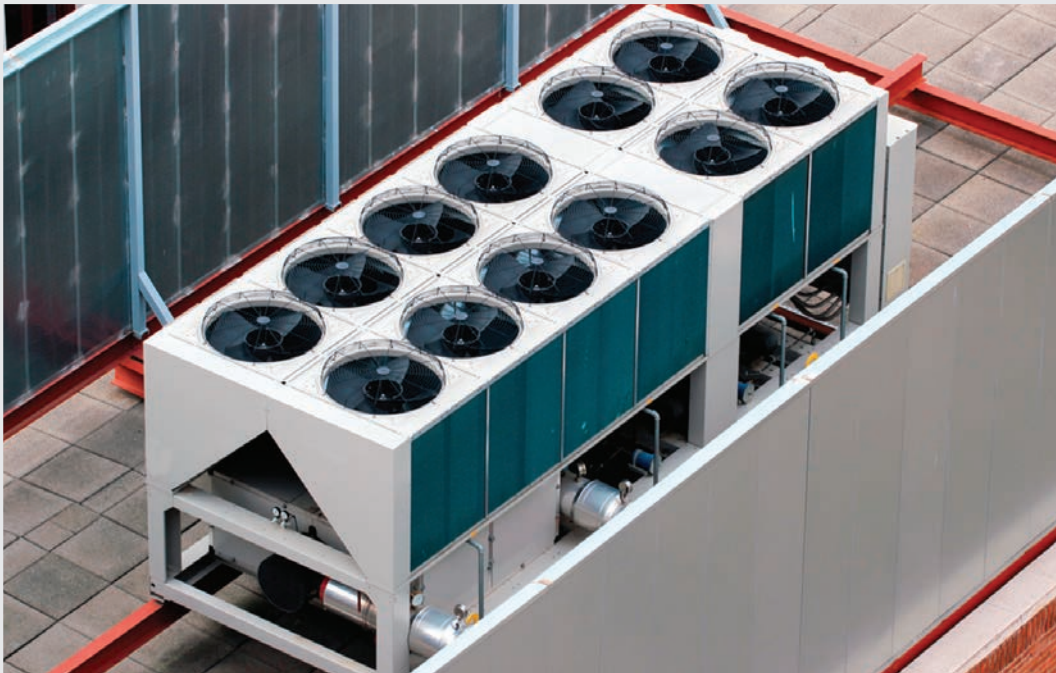
■ High efficiency motor platform

Maximizing Motor efficiency through advanced materials and magnetic circuit design.

■ Guide Vanes

The product is equipped with static guide vanes to improve the overall efficiency and satisfy the market requirements.

AxiEC - Typical Application



Heat Transfer

Axial Fans are commonly used in air-cooled condensers to enhance airflow over the fins. These fans draw air through the condenser, helping to dissipate the heat absorbed by the refrigerant. The design and efficiency of these fans play a significant role in the overall performance of the system.

Energy Efficiency

Achieving high air performance with low energy consumption is a key consideration in the design of air-cooled condenser systems. This involves optimizing the design of the heat exchanger, selecting efficient fans, and sometimes incorporating variable speed controls to adjust fan speed based on the cooling demand.

Environmental Factors

The efficiency of air-cooled condensers can also be influenced by environmental factors such as ambient temperature. Systems may need to be designed to operate effectively in a range of environmental conditions to ensure consistent performance.

AxiEC - Range

Model	Phase	Voltage (VAC)	Frequency (Hz)	Current (A)	Nominal Input Power (W)	Speed (RPM)	Airflow (M ³ /hr)	Noise (dBA)
G1HE300P-J2-100	Single	230	50/60	0.82	115	1750	2600	66
G1HE300.1P-J2-100	Single	230	50/60	1.25	180	2100	3100	70
G1HE350P-J2-100	Single	230	50/60	0.72	100	1200	2600	63
G1HE350.1P-J2-100	Single	230	50/60	1.20	170	1550	3300	65
G1HE400P-J2-100	Single	230	50/60	1.04	145	1100	3800	68
G1HE400.1P-J2-100	Single	230	50/60	1.78	255	1400	5300	70
F1HE400.2P-J2-100	Single	230	50/60	3.20	500	1700	5800	73
G1HE450P-J2-100	Single	230	50/60	1.13	170	980	5400	65
G1HE450.1P-J2-100	Single	230	50/60	2.33	350	1300	6000	67
G1HE500P-J2-100	Single	230	50/60	1.95	290	1010	6000	70
G1HE500.1P-J2-100	Single	230	50/60	2.80	600	1350	7550	72
G1HE630P-J2-100	Single	230	50/60	1.72	250	800	8000	62
V2HE710P-J2-100	Three	400	50/60	1.95	1200	1010	17100	73

■ Fan models available with and without frames

AxiEC - Range

Model	Phase	Voltage (VAC)	Frequency (Hz)	Current (A)	Nominal Input Power (W)	Speed (RPM)	Airflow (M³/hr)	Noise (dBA)
G1HE250S-J2-100	Single	230	50/60	1.13	160	2720	1900	70
G1HE250.1S-J2-100	Single	230	50/60	1.30	190	3050	1950	79
G1HE300.1S-J2-100	Single	230	50/60	0.82	120	1800	2350	64
G1HE330S-J2-100	Single	230	50/60	1.00	140	1660	2350	68
G1HE350.1S-J2-100	Single	230	50/60	1.16	170	1500	3400	67
G1HE400.2S-J2-100	Single	230	50/60	2.80	430	1700	5200	70
G1HE450S-J2-100	Single	230	50/60	2.71	410	1550	5900	71
G1HE450.1S-J2-100	Single	230	50/60	2.70	410	1300	6500	70
G1HE500.1S-J2-100	Single	230	50/60	3.20	700	1400	8600	72
G2HE500.2S-J2-100	Three	400	50/60	1.60	940	1600	9600	74

■ Fan models available with and without frames

AxiEC - Range

Model	Phase	Voltage (VAC)	Frequency (Hz)	Current (A)	Nominal Input Power (W)	Speed (RPM)	Airflow (M³/hr)	Noise (dBA)
G1HE550S-J2-100	Single	230	50/60	1.90	400	1000	8000	67
G2HE550.1S-J2-100	Three	400	50/60	1.50	900	1350	10100	75
G1HE630.1S-J2-100	Single	230	50/60	1.90	400	820	9800	65
G2HE630.2S-J2-100	Three	400	50/60	1.30	720	1000	11500	71
V2HE630.3A-J2-100	Three	400	50/60	5.70	3500	1520	21500	85
V2HE710.1A-J2-100	Three	400	50/60	3.70	2450	1250	20000	85
V2HE800-J1-100	Three	400	50/60	3.10	1850	1100	24500	82
V2HE800A-J2-100	Three	400	50/60	4.10	2630	1020	25500	82
V2HE910-J1-100	Three	400	50/60	3.00	1990	1020	33000	84
V2HE910A-J2-100	Three	400	50/60	3.50	2220	880	30000	79

■ Fan models available with and without frames



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