



Axial Fans and Centrifugal Blowers
EC Technology



About Delta Electronics:

Delta, founded in 1971, is a global leader in switching power supplies and thermal management products with a thriving portfolio of smart energy-saving systems and solutions in the fields of industrial automation, building automation, telecom power, data center infrastructure, EV charging, renewable energy, energy storage and display, to nurture the development of smart manufacturing and sustainable cities.

As a world-class corporate citizen guided by its mission statement, "To provide innovative, clean

and energy-efficient solutions for a better tomorrow," Delta leverages its core competence in high-efficiency power electronics and its ESG-embedded business model to address key environmental issues, such as climate change.

Delta serves customers through its sales offices, R&D centers and manufacturing facilities spread over close to 200 locations across 5 continents:

1971
foundation

85 K +
employees

12.000 +
R&D engineers



\$13 B
revenue in 2024

8% +
of revenue devoted
to R&D each year

15.000 +
patents

21,05M TONS
of carbon emissions reduction
from 2010-2022

Visit our Website:
www.DeltaECFans.com

Send us an email:
EC-Fans.US@DeltaWW.com



EC Axial Fans & Blowers



As a global leader in fan ventilation and thermal management, Delta has set industry benchmarks for more than 30 years. Our deep expertise in high-efficiency **EC technology** has made Delta a trusted partner across the HVAC, Data Center, and Renewable Energy sectors where superior performance, reliability and sustainability are essential.

Combining next-generation **EC motors** with cutting-edge **aerodynamics**, Delta's axial fans and centrifugal blowers deliver exceptional **energy savings**, **ultra-quiet operation** and **robust design** — surpassing the newest European **ErP2026** standard while achieving up to **74% energy efficiency**.

Latest Highly Efficient EC Motor

- Motor efficiency between IE4-IE5
- 0.4kW – 6.5kW power range
- IP55 for outdoor applications
- Higher Power Density
- Self-Cooling Structure



New Impeller Design

Aerodynamic: Improved airflow and efficiency
Robust: Reliable design achieved to overcome stress and fatigue simulation.
Steady operation: Low vibration with resonance and harmonic simulation

Compliance with European norms

-Optimized EC Technology that surpass new European **Eco-design** rules for **reduce energy consumption** and sustainability.

Intelligent Control

-0-10V / Modbus / PWM
 -Smart and customized functions: reverse rotation, linear speed, safety mode.
 -Over temperature and over voltage **protection**



Vibration Sensor

-Delta's new fan sensor enables vibration **tracking** and **control in real time** to preserve the high performance of the fan.



EC Axial Fan Series

Delta's axial fans feature a state-of-the-art aerodynamic impeller with winglet design and optimized stator blade, delivering superior airflow with lower energy consumption and remarkably quiet operation. They are purposefully engineered for HVAC applications such as chillers and cooling towers in both commercial and industrial environments.

Maximum Efficiency:
61%

Ingress protection:
IP55

Corrosion Protection:
C3-C5

Maximum Temp. Endurance:
70°C

Size (mm)	Max. Air Flow (m ³ /h / CFM)	Air Pressure (Pa / inH ₂ O)	Power Range	Volts Alternating Current	Series Number
Ø170	909 / 535	553 / 2.22	0.24 kW	1~230Vac	GTW017EUB12
Ø250	1746 / 1028	392.4 / 1.575	0.36 kW	1~230Vac	GTW025FUC16
Ø400	5350 / 3147	198 / 0.8	0.42 kW	1~230Vac	GTW040FUC15E/S
Ø450 (5-blade)	6358 / 3742	124 / 0.5	0.34 kW	1~230Vac	GTWA45EBC16E * GTGA45EUC18E *
Ø450 (3-blade)	6435 / 3785	140 / 0.56	0.4 kW	1~230Vac	
Ø500	9046 / 5321	187 / 0.75	0.8 kW	1~230Vac	GTW050EUD19E
Ø630	9803 / 5766	82 / 0.33	0.4 kW	1~230Vac	GTWA63EBC18E GTWA63HBK21E
	13780 / 8106B	196 / 0.79	1.1 kW	3~ 230/400	
Ø710	23134 / 13608	259 / 1.04	2.7 kW	3~ 400Vac	GTW071PUT23E GTW071HBT23E
	23919 / 14070	263 / 1.07	3.1 kW	3~ 230/400 Vac	
Ø800	25077 / 14751	196 / 0.787	2.2 kW	3~ 400Vac	GTW080PUR22E GTW080PUU23E GTWA80PBR24E
	30326 / 17839	265 / 1.06	3.1 kW	3~ 400Vac	
Ø860	27377 / 16113	241 / 0.97	2.2 kW	3~ 400Vac	
	30984 / 18226	155 / 0.62	2.2 kW	3~ 400Vac	
Ø910	36186 / 21286	219 / 0.88	3.1 kW	3~ 400Vac	GTW091PUR22E GTW091PUU23E GTW091PUU29E
	34410 / 20241	364 / 1.46	4.0 kW	3~ 400Vac	
	36899 / 21705	346 / 1.39	4.0 kW	3~ 400Vac	GTWB96PBU31E *

*Ready from Q3 2026

Accessories:



Fan Grid



Wall Ring



Flow grid

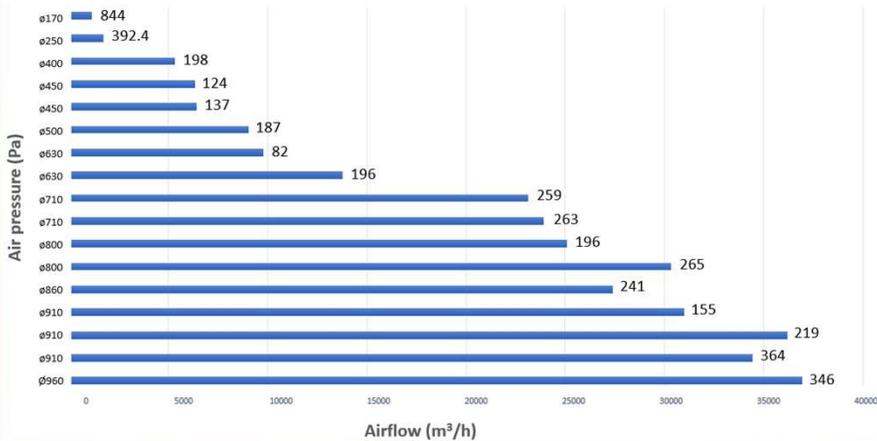


Stator Blades



Diffuser

PQ Curve:





EC Centrifugal Blower Series

Delta EC Blowers are engineered to meet the highest standards of energy efficiency, delivering reliable performance in demanding applications across Industrial, HVAC and Data Center sectors. With a strong commitment to energy savings, state-of-the-art blade design and prolonged reliability, Delta helps customers exceed the latest technology requirements and market standards.

Maximum Efficiency:
74%

Vibration Quality:
G2.5

Prolonged Durability:
87.600 H

Low THDi:
<5%

Size (mm)	Max. Air Flow (m3/h / CFM)	Air Pressure (Pa/ inH2O)	Power Range	Volts Alternating Current	Series Number
Ø190	754 / 443	841 / 3.38	85 W	1~230Vac	GTB019FUA07R-V2 E1
	997 / 587	988 / 3.9	175 W	1~230Vac	GTB019FUG09R-V E1
Ø225	952 / 560	378 / 1.5	85 W	1~230Vac	GTB023FUA10R-V2 E1
	1260 / 741	650 / 2.6	180 W	1~230Vac	GTB023FUG10R-V2 E1
Ø310	3014 / 1774	734 / 2.95	0.5 kW	1~230Vac	GTB031FUC20R
	3704 / 2180	1035 / 4.157	1 kW	3~ 400Vac	GTB031PHJ22M
	6986 / 4112	2679 / 10.75	3 k	3~ 400Vac	GTB031PUS30R
Ø360	4752 / 2797	697 / 2.80	0.8 kW	1~230Vac	GTB036EUD25R N1
	5573 / 3280	919 / 3.69	1 kW	3~ 400Vac	GTB036PUD25R N1
	8602 / 5058	2585 / 10.38	3.65 kW	3~ 400Vac	GTB036PUS32R
Ø400	5692 / 3350	690 / 2.77	0.8 kW	1~230Vac	GTB040EUD26R N1
	5270 / 3102	832 / 3.34	1 kW	3~ 400Vac	GTB040PUD26R N1
Ø450	11762 / 6919	2941 / 11.81	6.0 kW	3~ 400Vac	GTB045PBV36R E1
	10016 / 5892	1071 / 4.3	2.0 kW	3~ 400Vac	GTMA45PBK39R
	13524 / 7955	1676 / 6.72	4.2 kW	3~ 400Vac	GTMA45NBU43R *
Ø500	12286 / 7227	1145 / 4.60	3.1 kW	3~ 400Vac	GTB050PUT33R E1
	12908 / 7593	1089 / 4.37	3.1 kW	3~230/400Vac	GTM050HBT34R
Ø560	14068 / 8275	982 / 3.94	3.1 kW	3~ 400Vac	GTB056PUT34R E1
	14160 / 8334	959 / 3.85	3.1 kW	3~230/400Vac	GTB056HBT35R E1
	17140 / 10078	1586 / 6.37	4.6 kW	3~ 400Vac	GTMA56PBV39R
Ø630	20289 / 11935	1807 / 7.250	4.2 kW	3~ 400Vac	GTB063PBU41R E1
	20970 / 12335	1955 / 7.85	5.2 kW	3~ 400Vac	GTB063PBV41R E1
	23129 / 13605	1243 / 4.99	4.2 kW	3~ 400Vac	GTBC63PBU41R
Ø630	19722 / 11601	1853 / 7.43	6 kW	3~ 400Vac	GTMB63PBV48R
	19419 / 11423	1628 / 6.53	5.2 kW	3~ 400Vac	GTMB63NBV51R*

Accessories:



Flow Grid - Pressure Ring



Bracket

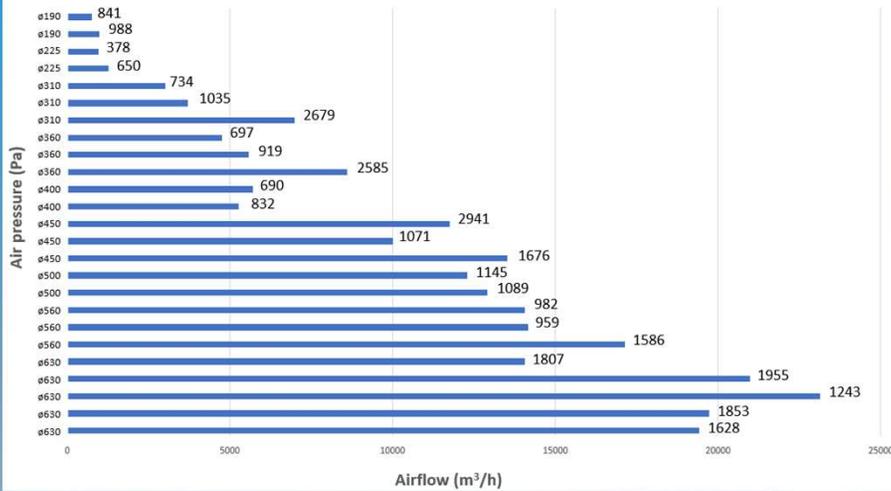


Metal bracket



Spider bracket

PQ Curve:



*Ready from Q3 2026



EC Axial Fans & Blowers for Data Center Applications

Delta Cooling from IT components to the facility level.

Powered by advanced DC brushless motors, Delta's EC Axial Fans and EC Centrifugal Blowers are a key component of modern Data Center cooling. Our EC technology helps Data Center manufacturers and systems integrators optimize their thermal management, reduce energy consumption and maintain the highest standards of operational continuity; ensuring energy-efficient operations, low noise, high reliability and intelligent control across the entire ecosystem.



Higher efficiency

61% and 74% energy efficiency for Axial Fans and Centrifugal Blowers respectively

24/7 Performance

+85.000 hours non-stop operation at 40°C



Stator Blades, Grid & Diffuser

Fan protection for safety operation, improved airflow direction and noise level reduction

Precise Speed Modulation

0-10V , PWM , Modbus control module



Optimized & Stable Air Flow

3D Twisted Blade to achieve higher rates of speed and energy efficiency by minimizing air turbulence

Lighter Weight

30% weight reduction compared to previous generation, facilitating installation and maintenance



Low Vibration

Sensing and **Remote Monitoring** for accurate life prediction, reliability and quiet operation

Reduced Operating Cost

Achieved through optimal energy efficiency and reliable design



Applications:
Chiller
Dry Cooler
Condenser
Cooling Tower



Applications:
Fan Array
AHU
CRAH
In-Row Cooling
RDHx



EC Technology for Residential Applications

EC Technology for Industrial & Commercial Applications

High-efficiency EC motor technology paired with advanced aerodynamic design delivers optimal airflow, precise control and ultra-quiet operation while minimizing energy consumption. Designed for long-term reliability, compact system integration and full compliance with the latest safety and engineering standards, Delta's fans for residential applications combine comfort with sustainable performance.



Higher Energy Efficiency

IE4-IE5 Energy efficient EC motor for low power consumption



Weather & Environmental Resistance

IP55, 95%RH High environmental protection and tolerance for up to 95% relative humidity (RH)



Reverse Rotation

Removes snow and dust from the blades and from within the inner system application



Harsh Environment Resistance

-25°C - 70°C protection for outdoor environments and reliable performance in extreme temperatures

Lower Noise with Accessory

-2 to -10 dBA noise reduction via Delta flow grid and diffuser

Precise Airflow Control

Highly precise speed range control

Corrosion Protection

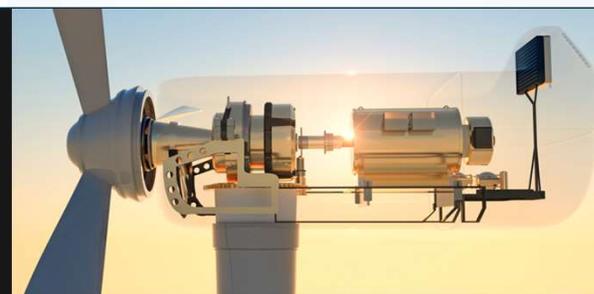
C3 - C5 Level ISO 12944 Optimal protection in moderate to highly corrosive environments

Extended Life

60,000 hours non-stop operation at 40°C



Applications:
ERV
HRV
Heat Pump



Applications:
Chiller
Condenser
Cooling Tower
Wall Mount Air Conditioner
Photovoltaic Inverter
Wind Turbine
ESS



Smarter. Greener. Together.

To learn more about Delta, please visit www.deltaww.com.

For EC fan assistance, please send email to EC-Fans.US@DeltaWW.com.

