



# EC Blowers

Built for the ultimate  
HRV units



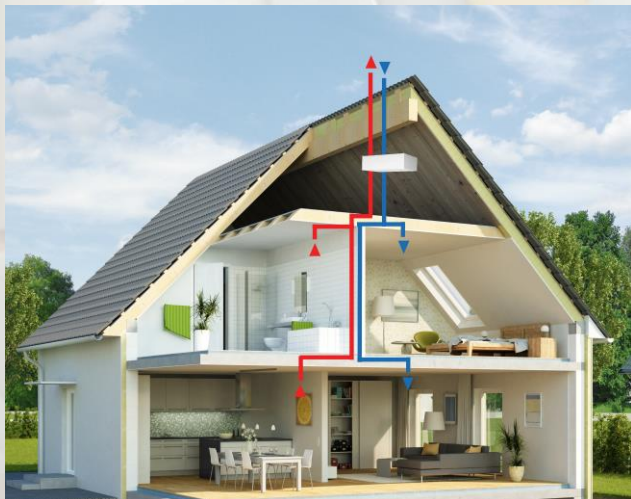
Smarter, Greener, Together

## The HRV Momentum

Greater living comfort in an eco-responsible way

Heat Recovery Ventilation is rapidly replacing extraction ventilation across Europe. Its assistance in restoring stale air with fresh air, makes it a highly effective appliance in reducing indoor humidity, pollutants and CO<sub>2</sub> emissions, while balancing internal and external temperature.






Its **clean technology** makes an ideal tool in the battle against climate change, while offering a whole new way of enjoying pleasant fresh air at home all along the year.



## Delta's ultimate EC Blowers

Green components that fit the HRV purpose

Optimal HRV units rely on the high quality of their components. Therefore, Delta has designed **top efficient EC Blowers** that allow HRVs to fulfill European market requirements for **sustainability & reliability** with:

-  **Significant energy savings**
-  **Minimum noise level**
-  **Weather protection**
-  **Higher airflow performance**
-  **Superior electronic standards**





# Delta EC Blowers

## Tested to meet the highest standards

Delta's EC blowers feature a unique impeller with a state-of-art motor design that enables lower power consumption, smooth airflow and noise level reduction. With an excellent electronic control mechanism, *Delta EC blowers* boost HRV units to reach outstanding performance.

### Significant Energy Saving

Delta EC Blowers are designed for high efficiency with a strong commitment to low power consumption.

Its high-power conversion is accomplished through Delta's unique centrifugal blower wheel and friction-free highly efficient EC motor, combined to achieve maximum levels of performance and energy optimization.

### Lower Noise Level

The silent airflow of Delta EC Blowers combine biotechnology and well-accomplished accessories that guarantee an imperceptible operation.

The blades with biotechnology design emulates the quiet and precise swift flying of birds during the night hunt. Furthermore, the incorporation of Delta's Inlet and Flow Grid accessories reduces 2 to 7 dBA of noise, exceeding customers' expectations.

### Weather Protection

Delta EC Blowers are IP54 rated with sealed bearing for moisture and dust isolation.

Our blowers work in tough weathers, specially in extreme temperatures, high humidity and corrosive environments, enduring overdemanding conditions and reaching a longer lifetime of +60.000 hrs. with total reliability.

### Airflow Performance

Cutting-edge impeller design and specialized accessories, allow Delta EC Blowers to provide optimal blowing performance.

Supported by an innovative aerodynamic blade and slope design that enhances air speed and direction, Delta EC Blowers are an unbeatable option.

## Motor & Impeller

Patented Design

Delta's EC motor can reach over 90% efficiency by optimizing magnet parts and motor windings, with accurate temperature control and the latest bearing system technology. Moreover, its one-piece blower wheel and curved impeller reduces turbulence intensity by 50% conveying air smoothly and efficiently.

**Curved shape design & smoother velocity profile**



## More than one choice

Ø190/Ø225mm with 85W/180W

Residential, light commercial, educational and retail applications have different requirements. For that reason, Delta EC Blowers are available in Ø190 and Ø225 mm with two power options (85W and 180W), providing flexibility for different applications.

Ø225 mm

Ø190 mm



170W



85W



## Upgrade with Accessories

Standard and customizable

Delta EC Blowers, support a wide variety of standard and customizable accessories which can be integrated in HRV units to achieve better control, performance and efficiency, improving their quiet operation.



**Mounting Bracket**  
for easy of installation and system integration



**Flow Grid**  
Reduces noise with no impact on air performance



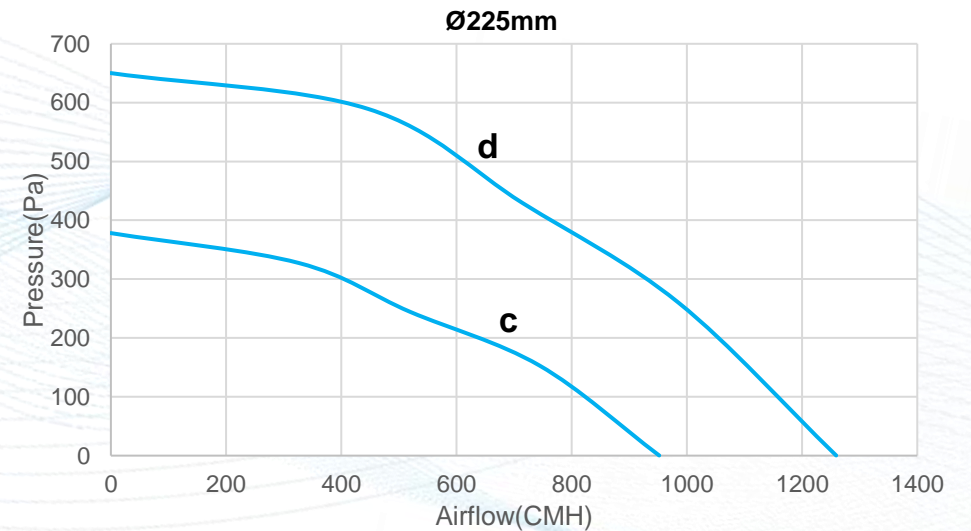
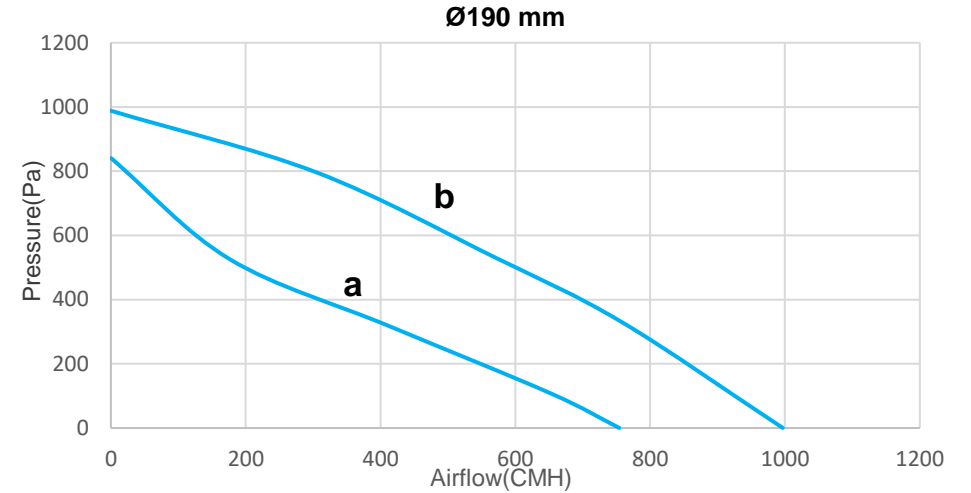
**Pressure Ring**  
for consistent airflow detection and control

# P-Q Curve

## Air volume-static pressure diagram

Blower Ø 190 mm		
	a	b
Power (W)	85 (Max.)	170 (Max.)
Speed (RPM)	3100	4000
Operating Volt. (Vac)	1φ 200~240	1φ 200~240
Max. Air Flow (CMH)	754	872
Max. Static Pressure (Pa)	841	746
Noise (dB-A)	70	76.5dB
Speed Control (PWM or 0-10Vdc)	Available	Available
Tach output	Available	Available

Blower Ø225 mm		
	c	d
Power (W)	85 (Max.)	180 (Max.)
Speed (RPM)	2250	3000
Operating Volt. (Vac)	1φ 230	1φ 230
Max. Air Flow (CMH)	950	1260
Max. Static Pressure (Pa)	378	650
Noise (dB-A)	67.5	72
Speed Control (PWM or 0-10Vdc)	Available	Available
Tach output	Available	Available



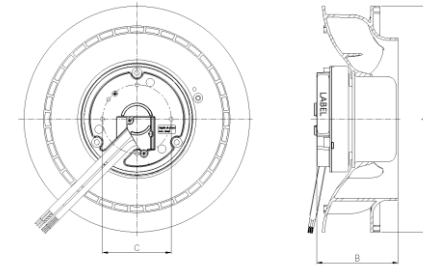
# Dimensions & Technical Drawing

Blower	Ø 190 mm [ins]		Ø 225 mm [ins]	
	85W	180W	85W	180W
A	Ø190 [7.48]	Ø190 [7.48]	Ø225 [8.86]	Ø225 [8.86]
B	68.61 [2.70]	87.5 [3.45]	99 [3.89]	99 [3.89]
C	Ø58 [2.28]	Ø58/90 [2.28/3.54]	Ø58 [2.28]	Ø58 [2.28]

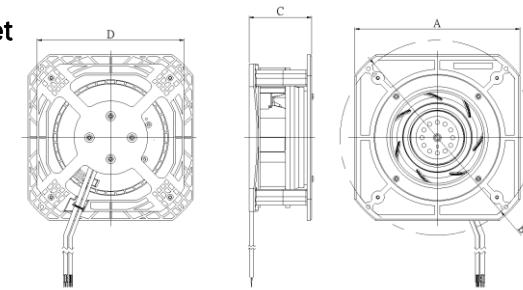
Bracket				
A	225 [8.86]	225 [8.86]	270 [10.63]	270 [10.63]
B	Ø265 [10.43]	Ø265 [10.43]	Ø305 [12.01]	Ø305 [12.01]
C	85 [3.35]	99.8 [3.93]	132 [5.19]	126 [4.96]
D	200 [7.87]	200 [7.87]	240 [9.44]	240 [9.45]

Flow grid				
A	225 [8.86]	225 [8.86]	270 [10.63]	270 [10.63]
B	Ø265 [10.43]	Ø265 [10.43]	Ø305 [12.01]	Ø305 [12.01]
C	85 [3.35]	99.8 [3.93]	132 [5.19]	126 [4.96]
D	24.6 [0.97]	24.6 [0.97]	27 [1.06]	27 [1.06]
E	200 [7.87]	200 [7.87]	240 [9.45]	240 [9.45]

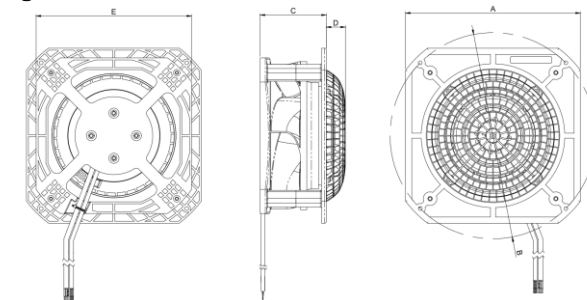
Blower



Bracket



Flow grid



# Delta Electronics

Smarter, Greener, Together

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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.

# Contact us

Send us a mail or visit our website

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