



Revolutionizing Airflow with EC Fan Technology

RadEC Fans

RadEC - Air Performance with capacity



Technical Features

- Soft start
- Thermal overload protection Motor & Electronics
- Over temperature protection Driving Module
- Phase failure detection and stop driving output
- Reverse polarity and locked-rotor protection
- Feedback function of rotary speed
- Integrated PI controller
- RS-485 MODBUS-RTU
- Voltage Output 10 VDC / 20 VDC

Advantages

- Continuously variable speed setting
- Speed control Analog, PWM, 4-20mA and RS-485 MODBUS-RTU
- Speed Signal Feedback/ Fault Feedback
- Wide voltage ranges for worldwide use
- Suitable for 50Hz and 60Hz
- Integrated locked-rotor protection
- Temperature protection
- Environment-resistant cable glands
- Central terminal area for mains connection, alarm relay, open loop control and communication
- Safe separation of terminal area and electronics



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RadEC - Typical Application

Rack Type Air Conditioning

Rack-Type Air Conditioning: Typical scenarios require high air volume, high static pressure, high efficiency and energy conservation, and low noise.





Industrial Ventilation

A new generation of EC centrifugal fan RadEC, widely used in rack type air conditioning, industrial ventilation, fresh air units and other scenarios.

Air Handling Unit

Our RadEC has become a benchmark star product in the air handling unit industry, providing customers with cost reduction and increased efficiency. Under typical operating conditions of 1000Pa, the efficiency reaches an impressive 69%, surpassing the industry benchmark by 3%. Additionally, it leads the industry in performance with a rated air volume of up to 23290 m³/h, exceeding the industry benchmark by 10% for the same type.





RadEC - Range

Model	Phase	Voltage (VAC)	Frequency (Hz)	Current (A)	Nominal Input Power (W)	Max. Input Power (W)	Speed (RPM)	Airflow (m³/hr)	Noise (dBA)	Weight (Kg)
R1HE133-J1-100	Single	230	50/60	0.35	42	58.2	4480	435	63	1.57
R1HE175-J1-100	Single	230	50/60	0.53	72	-	3800	760	71	1.3
R1HE190-J1-100	Single	230	50/60	1.15	160	-	4400	1000	79	1.7
R1HE250-J1-100	Single	230	50/60	1.57	217	278	2990	1730	78	2.4
R1HE310-J1-101	Single	230	50/60	2.3	360	470	2600	2650	78	2.4
T1HE310-J1-100	Single	230	50/60	3.25	513	779	2820	3200	83	12
R2HE310-J1-101	Three	400	50/60	1.8	1010	1366	3500	3900	85	7.5
T2HE310-J1-100	Three	400	50/60	1.7	1010	1460	3500	4150	85	12
R2HE355-J1-100	Three	400	50/60	1.5	800	1100	2350	5300	80	11.5

Fan models available with and without frames



RadEC - Range

Model	Phase	Voltage (VAC)	Frequency (Hz)	Current (A)	Nominal Input Power (W)	Max. Input Power (W)	Speed (RPM)	Airflow (m³/hr)	Noise (dBA)	Weight (Kg)
T2HE355-J1-102	Three	400	50/60	1.5	800	1100	2350	5300	80	16
T2HE355-J1-100	Three	400	50/60	3.3	2400	2878	3800	6500	90	23.5
R1HE400-J1-101	Single	230	50/60	1.05	251	352	1350	3600	69	8
R1HA450-J1-100	Single	230	50/60	4.2	700	-	1575	6900	77	13.68
T2HE500-J1-101	Three	400	50/60	2.6	1600		1650	10500	85	38.6
T2HE500-J1-100	Three	400	50/60	5.9	4200	5571	2650	15600	86	48
T2HE560-J1-100	Three	400	50/60	7.5	4700	5600	1800	23000	92	50
T2HE630-J1-100	Three	400	50/60	3.7	2200	3538	1360	17800	86	35
T2HE630-J1-101	Three	400	50/60	2.6	1900	2767	1270	16500	85	50

Fan models available with and without frames



RadEC Fans with Active PFC

Solution for Data Centre, Ventilation and Air conditioning



The impeller adopts a fully three-dimensional design with spatial twisted blades, curved wheel dish and wheel covers. The trailing edge of the blade is a "C" - shaped biomimetic structure, and the curved structure of the discs is achieved through a special airflow leading shroud device.



High Power Electronic Control Platform

The drive adopts closed-loop vector control technology to ensure stable air flow and minimum noise of the permanent magnet brushless motor.

Choose proactive PFC based on customer needs to ensure power factor>0.95.

Promote THDi current harmonic distortion rate to be less than 5%, ensuring green and clean power grid

 Now equipped with Active PFC technology in RadEC -Fan model T2HE560-J1-100



RadEC 560mm Highlights



Intelligent green EC technology achieves stepless speed control, meeting the needs of different operation points, with a 1000Pa efficiency of up to 69%, which is 3% higher than the industry benchmark.



Leading the industry in performance, with a rated air volume of up to 23290 m³/h. Exceeding industry benchmark by 10% with the same type.



High Static Pressure

The static pressure of highest efficiency point exceeds 1000Pa, which fully meeting the high static pressure scenarios such as air conditioning and ventilation in CRCA.

The impeller adopts a fully three-dimensional design with spatial twisted blades, curved wheel dish and wheel covers. The trailing edge of the blade is a "C" -shaped biomimetic structure, reducing noise by up to 2dB (A) compared to industry benchmark.



High Reliability

At rated voltage, ambient temperature of 40 $^{\circ}$ C, and continuous operation of the fan at full speed, the expected lifespan is up to 40000 hours.



Certifications Certified by CE & RoHS





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