



Product Overview

Infinitum EC Fan System integrate high-efficiency EC motor technology with robust fan assemblies to deliver reliable, variable-speed airflow for demanding HVAC, industrial and mission-critical applications. The system is designed to deliver more airflow per kilowatt through efficient motor-drive integration and optimized part-load performance. Complies IEEE519 for harmonics mitigation.

Applications

- Data centers and mission-critical facilities
- Fan walls, Air handling units (AHUs), CRAHs and CRACs.
- Cooling cabinets
- Industrial and commercial ventilation systems

Compliance & Standards



AMCA 211 compliant



Customize your fan system and instantly generate a tailored datasheet using our Fan Selection Tool (FST)
fst.goinfinitum.com.

EC Fan System

Technical Specifications

Impeller Size	18" to 27"
Impeller	Aluminum (choice of backward curved and airfoil designs)
	Suitable for a wide selection of high-static and low-flow, low-static and high-flow, and all intermediate regions
Housing	Galvanized Steel
Finish	Powder Coated
Balancing	BV3, Optional BV4 available
Number of blades	5 to 7
Motor Power	1 HP to 15 HP
Speed	Up to 3600 RPM
IP rating	IP65 standard
Bearing	Hybrid Ceramic
Ambient Temp	40C, de-rateable to 50C
Voltage	460V, 415V and 575V
Phase	3 Phase
Frequency	50/60 Hz
Harmonic Mitigation	Yes (Aircore MC)
Flow	3000 to 13000 CF
Static Pressure	0 to 8" In WG
Standards	CSA C22.2 No.77
	CAN/CSA C390-10
	UL1004-1, UL1004-7
	UL61800-5
	CAN/CSA-C22.2 No.108

Fan Sizes (SKUs)	18"	20"	22"	24"	27"
Inches	19 x 19 x 19	21 x 21 x 21	26 x 26 x 26	26 x 26 x 26	30 x 30 x 24

Electrical Characteristics

EC motor system with integrated variable frequency drive (VFD)

Designed for efficient operation across a wide load and speed range

Suitable for continuous operation in demanding environments

(Specific electrical ratings and operating limits provided via Fan Selection Tool)

Performance & Selection

Fan performance varies by size, speed, and application conditions.

Fan Selection Tool (FST) available to support:

Array, box-fit, least fan modes and individual fan design	Schematics and wiring diagram
Airflow and static pressure calculation	Submittal and datasheet package
N-1 Calculation	Systems effect optimizer
Sound estimates	

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