



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-ratable 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

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| 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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