Infinitum

High-efficiency motors delivering sustainable, reliable cooling for data centers.

Infinitum's high efficiency motors and environmentally-forward technology support lower carbon emissions through modular design. Our circular design strategy is centered around reliability, serviceability, and remanufacturing.

Optimized efficiency

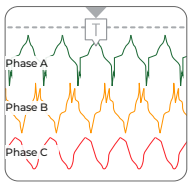
Infinitum's Aircore EC+ direct drive boosts energy efficiency by up to 25% and mounts easily to fan and pump systems. Its variable-speed design cuts energy use during off-peak times, helping you save on bills and improve PUE.

Serviceable solutions

Our solutions install quickly, require minimal maintenance, and deliver built-in redundancy for reliable performance. With an integrated VFD for predictive maintenance and a modular design for fast part replacement, downtime is minimized. Backed by expert support, warranties, and parts from our Lifecycle Services team.

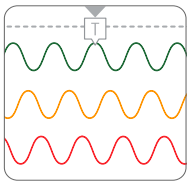
Sustainable design

Our lightweight PCB stator uses 66% less copper, and Aircore EC+ motors are smaller and lighter, cutting material use and transport emissions. We also remanufacture motors to reuse components and reduce landfill waste.



10-HP, 1800 RPM without AFE

- Power Factor 82%
- THDi >40% and THDv 4.7%
- Input Current 12 A
- System Efficiency 91%



10-HP, 1800 RPM **with AFE**

- Power Factor 98%
- THDi 1.4% and THDv 2.9%
- Input Current 11 A
- System Efficiency 91%

Power Quality — Mission Critical Focus

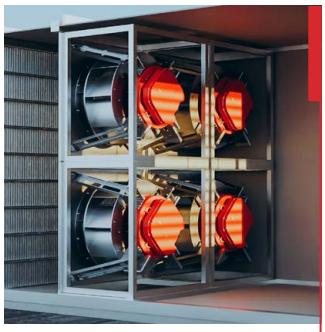
Infinitum's AFE technology delivers superior power quality and efficiency for mission-critical systems, cutting harmonics to <5% THD and boosting power factor to 99%—reducing the need for costly electrical gear. Aircore EC+ supports bidirectional power flow, replacing braking resistors to save energy, space, and cost. Built to meet IEEE STD.519, it ensures peak performance in high-demand environments. All products are built in our ISO 9001-certified facility for consistent quality and reliability.

Fan Wall / Fan Array

Powering high-performance fan walls and arrays, Infinitum's Aircore EC+ delivers efficient airflow, lower energy use, and fast, seamless integration for data center cooling. Built to cut PUE and costs, its compact, low-maintenance design installs easily and boosts cooling performance—driving immediate ROI and long-term reliability.

Benefits

- Reliable, durable, low-maintenance design for long-term performance
- Plug fan agnostic
- Compact footprint yet maximized cooling capacity
- Higher efficiency and lower noise level
- Operational reliability and redundancy through modularity



AHU (Air Handling Unit) & IDEC (Indirect Evaporative Cooling)

Infinitum powers AHUs and IDEC systems with compact, high-efficiency motors that deliver precision cooling and cut energy use for data centers. Built for peak performance and sustainability, our solutions reduce PUE, lower operating costs, and maximize ROI.

Benefits

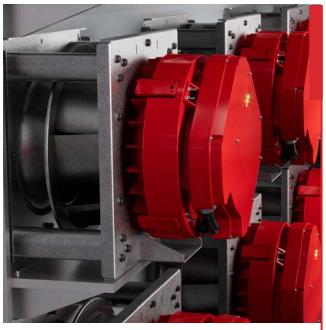
- Peak performance with low PUE values
- Lower Capital Expenditures (CapEx) & infrastructure costs
- Compact footprint yet maximized cooling capacity
- Higher efficiency and lower noise level
- Operational reliability and redundancy through modularity

CRAH (Computer Room Air Handler) CRAC (Computer Room Air Conditioner)

Infinitum's Aircore EC+ powers CRAH and CRAC units with ultra-efficient, variable-speed airflow control—no external VFDs needed. Compact and high-performance, it maximizes cooling, minimizes energy use and noise, and ensures reliable, low-maintenance operation to keep data centers running at their best.

Benefits

- High power density in a compact design
- Superior efficiency & optimized airflow cuts power consumption/operating costs
- Quiet performance for improved data center environments
- Integrated VFD with precision speed control for optimized performance



Centrifugal Fans

Infinitum's Aircore EC+ is the ultimate solution for data center cooling—delivering up to 50% energy savings, over 90% efficiency, and precise, low-maintenance performance. Its compact, modular design integrates easily with smart systems for real-time optimization, ensuring quiet, reliable, and sustainable cooling in mission-critical environments.

Benefits

- Superior energy efficiency reduces energy costs up to 50%.
- Integrated VFD with precision speed control for optimized performance
- Space-saving design maximizes wire-to-air efficiency
- Quiet performance for improved data center environments

Centrifugal Pumps

Infinitum's Aircore EC+ transforms pump efficiency—cutting power use by up to 70% with a compact, coreless design. Its built-in VFD delivers precise speed control and lower operating costs, while the low-heat, maintenance-free build ensures reliable, continuous cooling for data centers.

Benefits

- Superior energy efficiency reduces energy costs up to 50%.
- Integrated VFD with speed control adapts cooling to demand
- Space-saving design maximizes wire-to-water efficiency
- Quiet performance for improved data center environments

CDU (Coolant Distribution Units)

Infinitum's Aircore EC+ powers CDUs with high efficiency, real-time cooling control, and unmatched reliability. Integrated VFDs cut energy use and heat output without extra cabinet space. Designed for nonstop operation, hot-swappable components and built-in redundancy keep mission-critical data centers running without interruption.

Benefits

- Integrated VFD speed control adapts cooling to demand
- Superior energy efficiency reduces energy costs up to 50%
- Space-saving design maximizes wire-to-water efficiency
- Easy installation, maintenance, & service-friendly modular design
- Reliable, redundant components guarantee continuous uptime

Axial Fans

Infinitum's Aircore EC+ is engineered for seamless integration, superior cooling performance, and long-term cost savings. With a compact, maintenance-free design, these motors reduce noise, and optimize cooling capacity for data center applications. The integrated VFD and dynamic speed control adjust airflow in real-time, ensuring peak efficiency with minimal maintenance.

Benefits

- Superior energy efficiency with EC motor technology
- Integrated VFD & variable speed control adapt to real-time demand for optimized cooling performance
- Smaller footprint simplifies installation and maximizes space
- Low-maintenance, modular design and easy servicing
- Reduced noise levels for improved working environments

Supply Chain

OEMs

AAON, Air2O, BASX SOLUTIONS, DAIKIN, DDC SOLUTIONS, ingenia, KLIMA HVAC Solutions, Munters, XeteX, XNRGY

Fan Partners

ACME, CANARM HVAC, CINCINNATI FAN, MAINSTREAM, punker, S&P ADVANCING VENTILATION MEXICO, TCF TWIN CITY FAN

Pump Partners

ARMSTRONG

CDUs

FLOFAB, DXP

Install Base and Partners

Units Installed

- 30,000 in data centers

Run Time

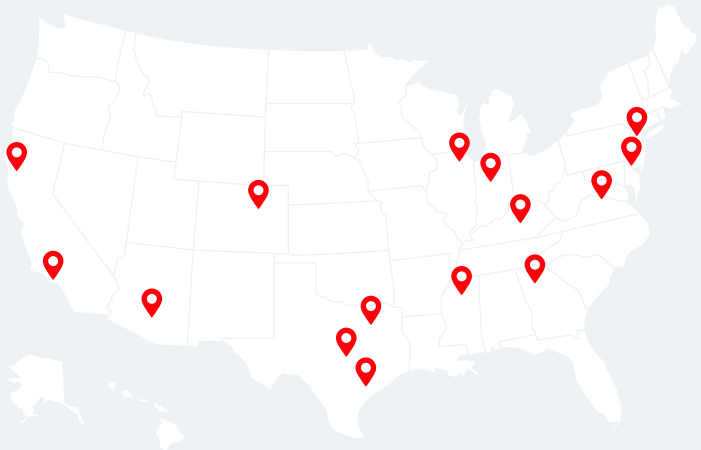
- 525M hours collectively
- 20k hours average run time

Locations

- 15 data center owners across 50 data halls

Cooling IT Load

- 1.5 GW



Manufacturing capacity

Infinitum owned facilities in Saltillo, Mexico: 300K per year with capacity to expand to 1M per year if needed.