

# PRODUCT NOTICE

PN# 26-05 | May 2026

## Aircore Mission Critical (MC): Active Front End (AFE) availability

### Summary

Infinitum's Aircore MC motor system with Active Front End (AFE) is now available to order, with shipments beginning June 2026. In addition to AFE functionality, the Aircore MC shares several features with Aircore EC for easy upgrade and compatibility.

Aircore MC system components	
CIM Firmware	V1.2.0
Inverter Firmware	V1.2.0
Rectifier Firmware	V1.1.0
Motor Selection Tool	V4.1.5
I-con	V2.100.0.0

Key Features	
Active Front End technology	Integrates AFE technology for harmonic mitigation, IEEE 519 compliance, unity power factor, and power loss ride-through capability.
Voltage compatibility	Supports 415–460VAC systems with dual-rated nameplate.
Serviceability	Offers a serviceable and replaceable VFD.
Right-sizing and name-plating	Supports right-sizing and custom name-plating.
Protection and grounding	Includes High Resistance Ground (HRG) and IP65 as standard.
System efficiency	Designed for efficiency and sustainability; achieves 91%+ total system efficiency.
Communication protocols	Supports MODBUS RTU and Analog, BACnet MS/TP and Analog.
I/O	Includes 4 digital inputs, 2 digital outputs, form-C relay, and auxiliary 24VDC power output.

# PRODUCT NOTICE

PN# 26-05 | May 2026

Bearings and enclosure	Hybrid ceramic bearing, IP65, and HRG/CGD/grounded-wye as standard.
Diagnostics	Includes USB-C port for diagnostics and servicing.

## Aircore MC SKU and Availability

All Aircore MC models are 3-phase, AFE, with hybrid ceramic bearing, IP65, and HRG as standard. The Aircore MC is dual-rated for 415 VAC and 460 VAC systems; nameplate labels show both voltages and corresponding full-load amperes (FLAs).

Catalog Number <sup>1,2</sup>	Description <sup>3</sup>
AM20-1000-1800-AAAHA63	Aircore MC, 10 HP, 1800 RPM
AM18-0750-1800-AAAHA63	Aircore MC, 7.5 HP, 1800 RPM
AM18-1000-2400-AAAHA63	Aircore MC, 10 HP, 2400 RPM
AM18-1000-3600-AAAHA63	Aircore MC, 10 HP, 3600 RPM
AM15-0500-1800-AAAHA63	Aircore MC, 5 HP, 1800 RPM
AM15-0500-2400-AAAHA63	Aircore MC, 5 HP, 2400 RPM
AM15-0750-2400-AAAHA63	Aircore MC, 7.5 HP, 2400 RPM
AM15-0750-3600-AAAHA63	Aircore MC, 7.5 HP, 3600 RPM

June 2026 is the earliest date to receive purchase orders from customers. Contact Infinitum for lead time and ship dates.

**Note 1:** All power-speed combinations above are available with the BACnet option; the last 8 characters are replaced by ABAHA63. Refer to the Catalog Decoder for more information.

**Note 2:** All power and speed combinations listed are standard offerings. Aircore EC supports right-sizing and custom name-plating for any power-speed combination within motor limits. To configure, select Aircore MC (AFE) under System Type in the [MST](#).

# PRODUCT NOTICE

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## Important notes

Contact Infinitum prior to designing or proposing these products within other equipment.

I-con V2.100.0.0 or later is required for use with Aircore MC AFE motors. Using an earlier version may cause unintended operation.

## Documentation and Resources

Aircore MC overview	<a href="#">Aircore Mission Critical Page</a>
Aircore MC datasheet	<a href="#">Infinitum Document Library</a> ; SKU-specific datasheets available in the <a href="#">Motor Selection Tool (MST)</a> .
Aircore IOM manual	<a href="#">Infinitum Document Library</a> .
Aircore MODBUS parameters	
Aircore BACnet manual	
Aircore MC Division-23 spec	
Aircore MC STP files	

## Frequently Asked Questions

Q1. Is Aircore MC suitable for right-sizing or custom name-plating?	Yes. Similar to Aircore EC products, Aircore MC systems support right-sizing and custom name-plating using the MST.
Q2. Are the mounting options different for Aircore MC?	No. Like Aircore EC, the Aircore MC offers four peripheral mounting pads and C-face mounting options. Refer to the datasheet and IOM manual for additional details.
Q3. Where can I find Aircore MC sales and technical documentation?	Refer to the Documentation and Resources section in this document.
Q4. Is an Aircore MC backwards compatible?	Yes. The Aircore MC can be swapped with a compatible Aircore EC, subject to power, speed, current, and voltage requirements. The Aircore MC can also be combined with Aircore EC in a fan wall.

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<p>Q5. Is a 15 HP version of Aircore MC available?</p>	<p>A 15 HP version of Aircore MC is targeted for market release by end of the year. Contact your Infinitum representative or account manager for details.</p>
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**Contact**

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