Infinitum

Aircore EC

Heavy Duty

Designed to go beyond

Motor and drive all in one

Integrated variable frequency drive (VFD) facilitates vertical-inline heavy duty applications, reducing overall energy usage.

Power more with less

The Aircore EC's reduced size and weight unlock infinite design potential making any machine lighter, quieter, and more efficient.

66% Less copper

50% Less weight and size

30% Fewer emissions

Using our innovative PC stator technology, Aircore EC motors offer class-leading efficiency in a smaller package. The Aircore EC provides the market's most comprehensive range of power and frame sizes along with IoT capabilities, bringing smart motor technology to a wide range of heavy duty applications.

Powerful intelligence

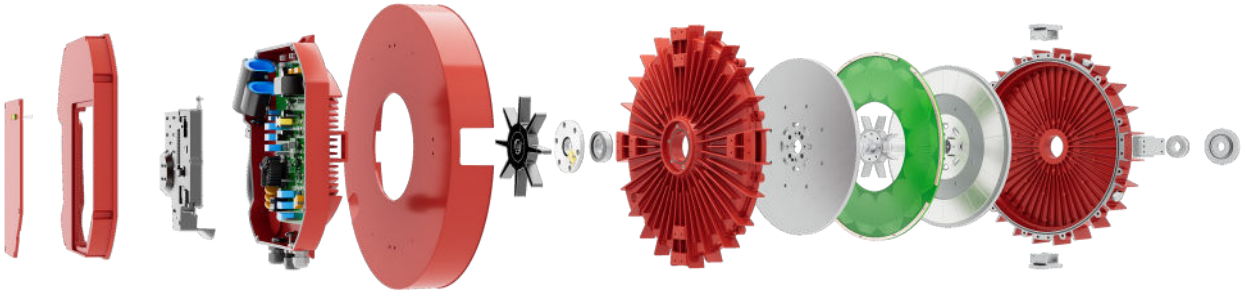
- State-of-the-art VFD allows precise speed control, reduces energy usage, and operates at a frequency to minimize audible noise.
- I-con (motor control software) enables users to fine tune operational parameters to their specific applications.
- Maximum power density in a 50% smaller and lighter package.
- Configurable, with analog and digital inputs for pressure sensors, flow switches, etc.

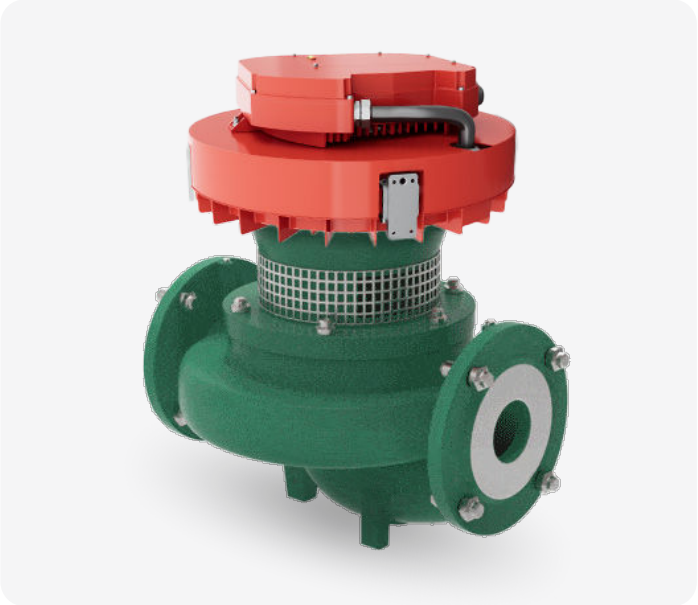
Optimized efficiency

- Meets highest efficiency standards at a wide range of load conditions.
- Increased operational efficiency by eliminating torque ripple, cogging, stator hysteresis and eddy current losses.
- Compact form factor reduces wiring and facilitates direct mounting to pump applications, increasing efficiency by 10-15%.

Sustainable solutions

- PCB stator uses 66% less copper and has proven to be 10x more reliable than traditional iron-core, copper-wound stators.
- Smaller and lighter housing reduces transportation emissions by 30%.
- Easy serviceability through our modular design enables the reuse and extended lifespan of components, keeping them out of the landfill.

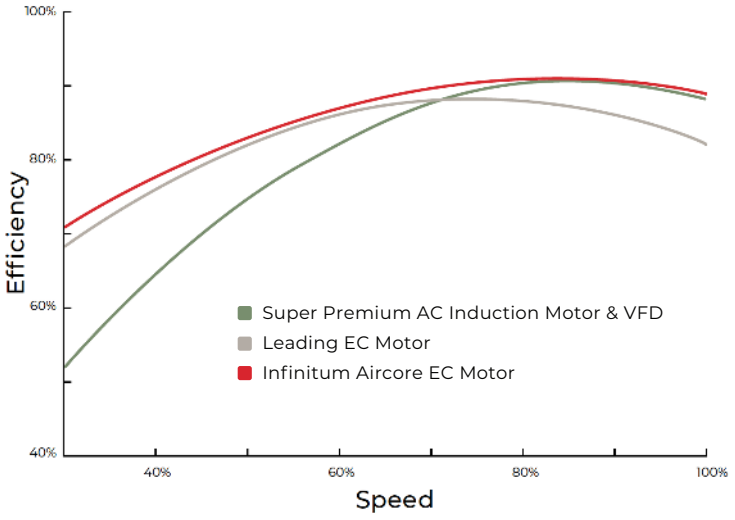




Catalog number	Power (HP/kW)	Speed (RPM)	Torque (Nm)	Diameter (in/cm)	Motor + drive length (in/cm)	Motor + drive weight (lb/kg)	NEMA frame	Bearing DE, NDE
AH18-1000-3600-AAAS-AA40 AH18-1000-3600-AAAH-AA40	10 / 7.46	3600	20	18.6in / 47.2cm	8.7in / 22.1cm	96.1lb / 43.6kg	213/5TC	6308ZZ
AH18-0750-1800-AAAS-AA40 AH18-0750-1800-AAAH-AA40	7.5 / 5.59	1800	30	18.6in / 47.2cm	8.7in / 22.1cm	96.1lb / 43.6kg	213/5TC	6308ZZ
AH15-0750-3600-AAAS-AA40 AH15-0750-3600-AAAH-AA40	7.5 / 5.59	3600	15	16.4in / 41.7cm	8.7in / 22.1cm	81.4lb / 36.9kg	213/5TC	6308ZZ
AH15-0500-1800-AAAS-AA40 AH15-0500-1800-AAAH-AA40	5 / 3.73	1800	20	16.4in / 41.7cm	8.7in / 22.1cm	81.4lb / 36.9kg	213/5TC	6308ZZ
AH13-0500-3600-AAAS-AA40 AH13-0500-3600-AAAH-AA40	5 / 3.73	3600	10	14.5in / 36.7cm	9.1in / 23.1cm	62.8lb / 28.5kg	182/4TC	6206ZZ

Note: The letters S and H in the catalog number indicate supported bearing types.

Aircore EC motor efficiency



Electrical	
Voltage	460 VAC (± 10%), 3Φ
Input frequency	60 Hz
Analog references	0-10 V, 0-20 mA
Digital inputs	24 VDC

Mechanical	
Enclosure	TEFC/IP65
Mounting	Frame, C-face
Relative humidity	95% non-condensing
Maximum elevation	Up to 1000m, de-rate above 1000m
Bearing	Sealed, Shieleded, Steel, Hybrid
Shaft diameter	1.375in / 4.492cm

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