

Aircore HD

## Heavy Duty

Designed to go beyond

### Motor and drive all in one

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

**66%** Less copper

### Power more with less

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

**50%** Less weight and size

**30%** Fewer emissions



Using our innovative PC stator technology, Aircore HD motors offer class-leading efficiency in a smaller package. The Aircore HD provides the market's most comprehensive range of power and frame sizes a 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.



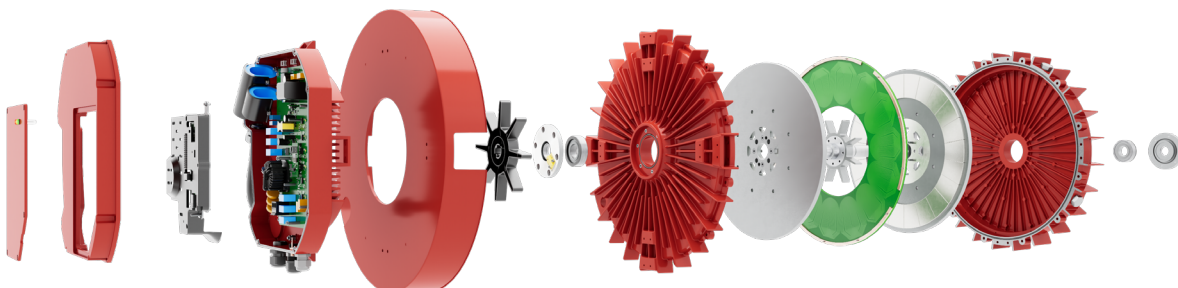
### Optimized efficiency

- 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.

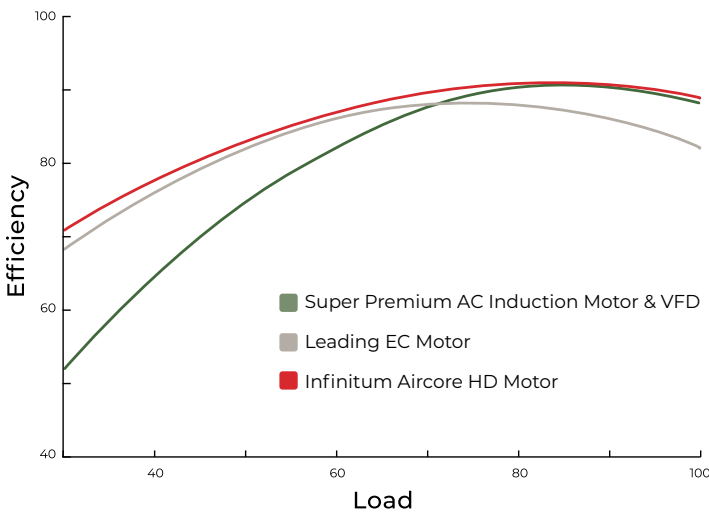




Catalog number	Power	Speed (RPM)	Torque (Nm)	Diameter	Motor + drive length	Motor + drive weight	Shaft length	Shaft diameter	NEMA frame	Bearing DE, NDE
AH20-1500-3600-AAAS-AA60 AH20-1500-3600-AAAH-AA60	15 Hp 11.2 kW	3600	30	21.0in 53.3cm	10.6in 22.1cm	136.2lb 61.8kg	3.8in 9.7cm	1.63in 4.1cm	254/6TC	6309ZZ
AH20-1500-1800-AAAS-AA60 AH20-1500-1800-AAAH-AA60	15 HP 11.2 kW	1800	60	21.0in 53.3cm	10.6in 22.1cm	144.4lb 65.5kg	3.8in 9.7cm	1.63in 4.1cm	254/6TC	6309ZZ
AH20-1000-1800-AAAS-AA60 AH20-1000-1800-AAAH-AA60	10 HP 7.46 kW	1800	40	21.0in 53.3cm	10.6in 22.1cm	146.8lb 66.6kg	3.8in 9.7cm	1.63in 4.1cm	254/6TC	6309ZZ
AH18-1000-3600-AAAS-AA60 AH18-1000-3600-AAAH-AA60	10 HP 7.46 kW	3600	20	18.6in 47.2cm	8.7in 22.1cm	106.3lb 48.2kg	3.1in 7.9cm	1.38in 3.5cm	213/5TC	6308ZZ
AH18-0750-1800-AAAS-AA60 AH18-0750-1800-AAAH-AA60	7.5 HP 5.59 kW	1800	30	18.6in 47.2cm	8.7in 22.1cm	110.2lb 50.0kg	3.1in 7.9cm	1.38in 3.5cm	213/5TC	6308ZZ
AH15-0750-3600-AAAS-AA60 AH15-0750-3600-AAAH-AA60	7.5 HP 5.59 kW	3600	15	16.4in 41.7cm	8.7in 22.1cm	90.2lb 40.9kg	3.1in 7.9cm	1.38in 3.5cm	213/5TC	6308ZZ
AH15-0500-1800-AAAS-AA60 AH15-0500-1800-AAAH-AA60	5 HP 3.73 kW	1800	20	16.4in 41.7cm	8.7in 22.1cm	91.5lb 41.5kg	3.1in 7.9cm	1.38in 3.5cm	213/5TC	6308ZZ
AH13-0500-3600-AAAS-AA60 AH13-0500-3600-AAAH-AA60	5 HP 3.73 kW	3600	10	14.5in / 36.7cm	9.1in / 23.1cm	66.1lb 30.0kg	2.6in 6.7cm	1.13in 2.9cm	182/4TC	6206ZZ

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

## Aircore HD motor efficiency



Electrical	
Voltage	460 VAC ( $\pm 10\%$ ), 3 $\Phi$
Input frequency	60 Hz
Analog input	0-10 V, 4-20 mA
Digital inputs	24 VDC
Speed control	Modbus RTU, BACnet MSTP, Analog
Mechanical	
Enclosure	TEFC/IP65
Mounting options	C-face, peripheral threads
Relative humidity	95% non-condensing
Maximum temperature	Up to 40 °C, de-rate above 40 °C by 2% per 1 °C up to 50 °C
Bearings	Shielded; Steel or Hybrid Ceramic



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