

PERMANENT MAGNET ECM FANS FOR AIR HANDLING UNITS

PERMANENT MAGNET EFFICIENCY FOR THE COST OF INDUCTION MOTORS

More Efficient, Faster Installation and Reduced Downtime

The future of air movement has arrived, and YORK[®] is leading the way. YORK[®] has teamed up with the leading European maker of ECM fans to provide outstanding wire-to-air efficiency while reducing air handling unit length and installation time. We are the first to provide permanent magnet ECM motors with both integral fans and variable speed drives (VSD) as a standard offering across all our lines – from the most basic air handling unit to complex, fully custom systems. And we do it without charging a premium over traditional induction motors with variable frequency drives.

Ideal for almost any application, ECM fans are sweeping the industry. These ECM-based solutions allow our systems to be more compact, with faster installation that doesn't require any on-site programming. Just connect the power, hook up the control signal and the system is ready to go – there's not even a keypad! And as with all our air handlers, Metasys[®] controls can be mounted at the factory to provide a unit ready to go as soon as it hits the

ground. With complete VSD redundancy, maintenance-free sealed bearings and a lightweight fan wheel and motor for easy service, AHU downtime is also significantly reduced. Count on YORK[®] to deliver the most integrated, most reliable and most flexible ECM solutions.



The configurations that can be selected in YORKworks[®] selection software include:

- Single fan, dual fans and fan arrays
- Horizontal and vertical inlets
- 230V and 460V 3-phase
- Sizes from 10" to 36"

From the Leader in AHU Research and Performance

YORK® is the industry-leader in fan performance and acoustic testing, and is home to the largest air handling unit sound and air performance test facility in the world. Every fan we offer is fully tested in our AMCA-accredited laboratories per AMCA 210 and AMCA 300 to confirm bare fan air and sound performance. We then test the fans again in air handler cabinets in both single-fan and fan array arrangements per the methods of AHRI 430 to correct for cabinet and system effect, ensuring you get real fan and motor performance data. YORK® is also the only company that provides sound data for all configurations of ECM fans in every model of our Solution Air Handlers per AHRI 260, the only standard recognized in the industry for accurate prediction of sound pressure.

Better quality

Every YORK® solution comes with features that make your system last longer – and provide a better value. Our fan wheels are welded aluminum, not plastic. Every fan and motor is balanced at the factory to ensure minimal vibration (with spring isolation available for very sensitive projects). We rejected fan designs that sacrifice efficiency by blocking the inlet with the motor to save space – our motor does not block any part of the fan inlet. And we offer the best warranty in the industry, with a full year of coverage on both parts and labor.



Easier specification

YORK® ECM fans are easy to specify. Designers no longer have to take responsibility to ensure that separately specified motors, fans and VFDs will work together. Our integrated systems are already optimized for the highest efficiency and motor life. And the compact design and patent-pending method of servicing all fans from the inlet side reduces the air handler unit length, making it even easier to fit into tight mechanical rooms.

Faster installation

With YORK®, fast and easy installation comes standard. YORK® provides ECM fans with the same industry-leading delivery speed provided for every YORK® air handler. All power and signal wiring for the fan converge at a single point on the exterior of the unit with individual motor protection and disconnects. As soon as the power and control signal are connected, the unit is ready to go!

Industry-leading experience

YORK® has engineered systems to meet some of the industry's most challenging requirements. Our acoustics and application engineers design units to critical specifications that include acoustic performance, airflow and power use. It's this depth of experience that makes YORK® your single source for ECM fan technology in any air handling application.

From standard systems through fully custom solutions, we understand all aspects of air handling fan and motor technology and can help you navigate every aspect of specifying, installation and service. We provide a single point of contact, offer pre-packaged electrical and control components to make setup easier and offer an array of features and services many of our competitors do not. It's why we're proud to say YORK® delivers industry-leading performance and expert service with every air handler we build.



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