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ebm-papst sets the bar on Fan Efficiency Grade (FEG) standards with EC RadiCal, EC Plenum and EC HyBlade® fans

*Make your HVAC/R systems green and efficient!
Visit ebm-papst's booth #2046 at the AHR Expo
January 23-25, McCormick Place, Chicago*

Farmington, Conn. and Chicago, Ill., January 2012 — With fans now consuming an astounding 23 percent of the world's energy*, designers and facility managers of commercial, industrial and institutional buildings need ways to reduce the drain their air moving systems place both on the 'grid' and on their bottom line.

Enter [ebm-papst](#)'s generation of aerodynamic commercial fans that exceed the rigorous energy-conservation standards in both the U.S. and the European Union for the next decade.

The company's [GreenTech](#) philosophy takes a complete systems approach — from electrical input to airflow output. ebm-papst Greentech fans have a highly efficient airflow-to-watt ratio. Their **EC RadiCal**, **EC HyBlade®** and **EC Plenum** fans offer precise controllability for load matching and efficiency superior to traditional fans with AC motors.

"A fan efficiency grade (FEG) is a numerical rating that classifies bare-shaft fans by their aerodynamic ability to convert mechanical shaft power to air power," said Armin Hauer, advanced technology manager for ebm-papst Inc. "Our EC RadiCal, EC HyBlade® and EC Plenum fans use very advanced aerodynamics to meet or exceed FEG minimums required by the pending revision of ASHRAE 90.1 Energy Standard for Buildings and the forthcoming 2012 International Green Construction Code (IgCC). FEGs are based on the Air Movement and Control Association International (AMCA) Standard 205-10."

Because FEGs do not take into account motor heat, electronic drive inefficiencies and mechanical transmission losses, system designers and users are usually left to estimate these variables on their own. Therefore, ebm-papst creates and documents efficiencies for the complete fan assembly. Each EC GreenTech fan is rated for overall fan efficiency. It accounts for the motor, the integrated variable speed drive and the impeller components. "Our efficiencies are measured air horsepower output over electrical input power," said Hauer.

In sync with worldwide efforts to reduce CO₂ emissions, ebm-papst EC GreenTech fans meet the European Commission's ErP2015 directive. Their EC fan motors also exceed IE4 Super Premium Efficiency levels set by the International Electrotechnical Commission (IEC).

ebm-papst Greentech fans support future-proof building designs around the world. ebm-papst's intelligent, single or 3-phase, AC line powered EC drive motors can attain full speed efficiency to 90 percent and maintain their high efficiency when operated at greatly reduced speeds. The EC motors are controllable and maintenance-free. A single motor design can drive several fan types, including axial impellers up to 1250mm (49"), backward-curved radial impellers up to 710mm (28") and forward-curved centrifugal wheels up to 450mm (17.7"). The product line ranges up to 6kW (8hp).

On larger axial and centrifugal EC models, fan communication is possible via free motor control software available for a laptop and/or PDA/smartphone. This allows users to easily set a fixed motor speed or to program a closed-loop feedback system to maintain a constant set point. Fans can be equipped with an integrated PID (Proportional-Integral-Derivative) controller, external sensor input for speed modulation, sensor power supply, and RS485 Bus interface for programming and diagnostics.

Find out more about ebm-papst's line of energy-saving air movers at Booth 2046 during the [International Air Conditioning, Heating and Refrigeration Exposition \(AHR\) Expo](#) January 23-25 at Chicago's McCormick Place.

About ebm-papst Inc.

ebm-papst, the world's leading source for engineered air movement products, provides a "total solution" approach and extensive in-house resources.

With its U.S. headquarters in Farmington, [Conn.](#) and offices in major cities throughout North America, the company's highly-skilled and experienced team of professionals solve heating, cooling and ventilation challenges for industries and applications including HVAC, refrigeration, gas and heating, household appliances, IT and telecom, industrial, drive systems, automotive and rail technology and more.

ebm-papst's way of doing business offers models for sustainability, efficiency, product innovation, skill development and community involvement. The company's GreenTech philosophy drives economic and ecological improvement in every product they develop. For more information, contact sales@us.ebmpapst.com or call 860.674.1515

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* "Select Fans Using Fan Total Pressure to Save Energy", John Cermak, Ph.D., P.Eng., and John Murphy, Ph.D., ASHRAE Journal, July 2011, p. 1 - 46.