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Energy Efficient Blower Range Launched



ebm-papst UK, the market leader in energy-efficient fan products, has developed a range of double-inlet blowers fitted with electronically commutated (EC) motors that offer silent, infinitely variable speed control and significantly reduced power consumption when compared to traditional AC technologies.

The new range of fans use forward-curved centrifugal impellers, are available in all common sizes from 133mm up to 454mm (18 inch), and are capable of producing airflows of up to 3.5 m³/s. The familiar, user-friendly blower format allows OEMs to incorporate EC technology into existing equipment with minimal redesign, and also opens the possibility of equipment retrofit in the field.

All of the new products employ ebm-papst's proven direct-drive EC motor technology, encompassing five motor platforms with power consumptions in the range 50W to 3.0kW. Manufacturers of HVAC equipment that specify EC blowers can expect to see reductions in power consumption of 40-50%, when compared to the equivalent direct-drive AC fan, and significantly more when replacing belt-driven variants.

All blowers have integrated control functionality that eliminates the need for external control gear, such as frequency inverters or transformers. A simple potentiometer can be used to provide a 0-10V control signal to the variable speed EC drive. Or, for demand ventilation applications, such as constant pressure systems, sensors can be added with few additional components.

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