

Airflow measurement using
instrumented inlet rings.

ebmpapst

The engineer's choice



About ebm-papst North America



Headquarters - Farmington, CT

- 250,000 square feet
- 275 employees
- Contract manufacturing
- Acoustic testing chamber
- Complete air testing lab on site
- ISO 9001 and ISO 14001 certifications
- Distribution centers in Farmington, CT and Toronto, Canada

ebm-papst is an innovator and market leader in fans, blowers, and motors with core competencies in motor technology, aerodynamics, and electronics. With over 15,000 products, we provide solutions to a wide range of markets including Air-conditioning and Ventilation, Appliance, Commercial Refrigeration, Heating, Industrial, Lighting, IT / Telecom, Medical, Transportation and more.

Support when and where you need it

Knowledgeable field sales professionals are close by for face-to-face meetings. Dedicated inside sales associates fulfill all of your ordering needs. To assist you with order management, our Customer Relations department provides automated services such as shipment notifications, reorder notifications, and invoicing.

Design and manufacturing

Beginning with the initial product concept, our application engineers work in tandem with customers to select the best air moving solution to suit specific goals and requirements. Once the prototype has been established, it can then be tested in our state-of-the-art airflow testing chambers to optimize performance. Each chamber has been designed to meet AMCA 210 and ISO 5801 requirements. In addition to our airflow testing capabilities, ebm-papst can conduct comparative sound, temperature, and velocity tests. The electrical engineering team can design everything from simple fan controllers for monitoring fan speed to complex controllers and power supplies, filtering, and specific communication protocols.

Logistics and inventory management programs

Our facilities feature over 90,000 square feet of climate-controlled warehousing, and utilize bar coding for real-time inventory management. Supply chain management programs such as Kanban, demand/pull, safety stock, consignment, and local warehousing can be customized to your needs.



GreenTech

The symbol of our commitment

GreenTech is a name put to the philosophy ebm-papst has used for decades: “each new product that we develop has to be better than its predecessor in terms of economy and ecology.” Our company philosophy is not just for designing new and more efficient fans and blowers; it is in practice in the offices and factories, locally and internationally. At the U.S. headquarters, two separate arrays of solar panels have been installed to provide the engineering building with electricity, along with additional renovations that make the facilities even more environmentally friendly.

GreenTech symbolizes our continuous commitment, achievements, and passion to provide customers with high quality products through the use of modern development and production methods, responsible business practices and initiatives that benefit not only the user, but the environment as well.

What is EC Technology?

EC technology is an important factor in our GreenTech philosophy. ebm-papst EC fans use permanent magnet external rotor DC motors with fully integrated electronic commutation (EC) and AC to DC power conversion. EC motors give the flexibility of connecting to AC mains with the efficiency and simple speed control of a DC motor. With EC fans, the user benefits from the innovative commutation without wear-and-tear on the motor. The EC motor compares to the direct current shunt-wound motor except that the magnetic field is generated by permanent magnets inside the rotor.

With this technology, EC motors and fans can be easily controlled, are maintenance-free, offer outstanding efficiency and have a considerably long service life. The variable speed range possible in EC technology makes using a multitude of individual models a thing of the past.

Our R&D efforts are not only focused on saving energy. In terms of air performance and low noise, our products exceed the toughest specifications. EC technology pays off for every owner or operator, while conserving precious energy resources. When you use intelligent ebm-papst EC technology in your applications, everyone wins - companies, customers, and the environment.



Inlet Ring Part Numbers

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Find the proper instrumented inlet ring P/N based on the impeller size and type (e.g., 3D EC). Choose the P/N for either the inlet ring with a single pressure tap or for the version with multiple taps connected in a piezometer ring. In cases where there are multiple listings for a single impeller size, please discuss the choice of the correct inlet ring with an ebm-papst applications engineer.

Inlet Rings					
Size (mm)	Impeller & fan type	Part no. w/o pressure tap (for dimensional reference only)	Part no. with 1 pressure tap	Part no. with piezometer ring	k-value
250	2D AC/EC	96359-2-4013	25002-2-4013	25001-2-4013	69
250	2D EC	25020-2-4013	25040-2-4013	25030-2-4013	67
250	2D EC + airfoil	25070-2-4013	25075-2-4013	25080-2-4013	70
280	2D AC/EC	96360-2-4013	28002-2-4013	28001-2-4013	88
280	2D EC	28020-2-4013	28040-2-4013	28030-2-4013	87
280	2D EC + airfoil	28070-2-4013	28075-2-4013	28080-2-4013	93
310	3D AC/EC	31050-2-4013	31100-2-4013	31080-2-4013	120
310	3D AC/EC	31051-2-4013	31110-2-4013	31090-2-4013⁽¹⁾	103
310	2D EC	31020-2-4013	31060-2-4013	31040-2-4013	108
310	2D EC	31570-2-4013	31575-2-4013	31580-2-4013	116
310	airfoil	31470-2-4013	31475-2-4013	–	116
355	3D AC/EC	35560-2-4013	35600-2-4013	35580-2-4013	155
355	3D AC/EC	35561-2-4013	35610-2-4013⁽¹⁾	35590-2-4013⁽¹⁾	138
355	2D EC	35520-2-4013	35540-2-4013	35530-2-4013	141
355	2D EC + airfoil	35670-2-4013	35675-2-4013	35680-2-4013	148
400	3D AC/EC + 2D AC	54476-2-4013	54515-2-4013	54500-2-4013	183
400	2D EC	40020-2-4013	40040-2-4013	40030-2-4013	161
400	2D EC + airfoil	40070-2-4013	40075-2-4013	40080-2-4013	188
450	2D AC/EC	54478-2-4013	54514-2-4013	54510-2-4013	217
450	3D AC/EC	63045-2-4013	64015-2-4013	64005-2-4013	214
450	2D EC	45020-2-4013	45040-2-4013	45030-2-4013	225
450	2D EC + airfoil	45070-2-4013	45075-2-4013	45080-2-4013	240
500	2D EC	54480-2-4013	54518-2-4013	54516-2-4013	265
500	2D EC + 3D AC/EC + airfoil	63072-2-4013	64025-2-4013	64002-2-4013	281
560	2D EC + 3D AC/EC + airfoil	63071-2-4013	64030-2-4013	64001-2-4013	348
630	3D AC/EC + airfoil	63070-2-4013	64040-2-4013	64000-2-4013	438
710	3D AC/EC + airfoil	71070-2-4013	71075-2-4013	71080-2-4013	545

Note: Subject to alterations. ⁽¹⁾ Short inlet ring.

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