About ebm-papst North America

**Headquarters - Farmington, CT**
- 250,000 square feet
- 275 employees
- Value added
- 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, Automotive, 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.

About ebm-papst worldwide

**Passionate about air technology and drive engineering**
The ebm-papst product portfolio numbers over 15,000 products. We offer the right solution for almost every air technology and drive engineering task. In addition, we work with you to develop very customized solutions that extend beyond our current product line. This is made possible by our extensive team of over 650 dedicated engineers and technicians out of our three central locations in Germany.

**World Headquarters: Mulfingen, Germany**
- ebm-papst established in 1963
- Manufacturing: Germany, Hungary, Czech Republic, Slovenia, Italy, USA, China and India
- Worldwide revenue over 2 billion USD
- 57 sales and distribution groups worldwide
- 12,000+ employees worldwide
- Ship over 46 million products annually
- Certifications: ISO 9001, ISO 14001 & RoHS compliant
- Over 1,000 patents held in design

**Core competencies: motor technology, aerodynamics and electronics**
Our innovative technologies keep turning into new industrial standards. Our advantage: We consider aerodynamic relationships as a whole. Thus we combine benchmark-setting motor technology with the intelligence of state-of-the-art electronics and aerodynamically optimized shapes.

The system solution that results from these three core competencies has a synergy that is unique in all the world and makes up the majority of our product line.

**GreenTech EC technology: Our motor for the future**
Virtually our entire product range is now available with GreenTech, the leading edge EC technology. GreenTech EC motors deliver unparalleled energy efficiency when compared to conventional AC Technology. With wear-free and maintenance-free performance, longer service life, lower noise, intelligent electronic control, and higher aerodynamic efficiency, GreenTech EC motors from ebm-papst are the future of air moving technology.

**Passion, quality and responsibility: Three reasons for our success**
Only real passion for fans and motors makes the highest level of achievement possible. With a clear organizational structure, flat hierarchies and a high degree of personal responsibility, we create the perfect foundation – not only for technological innovation, but also for excellent service and active dedication to closely working with our customers.

Of course, our products are also produced with the highest quality - at a total of 18 facilities worldwide. Our quality management is uncompromising and is present in every process stage. This is also confirmed by our certification of compliance with the international standards ISO 9001, ISO/TS 16949 and the standard ISO 14001.
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’s 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. At the heart of this philosophy is the ebm-papst EC motor - a custom, high-voltage DC motor that permits higher efficiency and performance than traditional AC products.

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 by offering control down to lower speeds compared to the full nominal speed. With EC technology, the same performance can be achieved from various voltage and frequency ranges.

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.
Market overview

The telecommunication market

The demands for IT and telecommunications performance are constantly increasing. Maximum reliability, highly complex applications, faster processors, round-the-clock information and communication, and the ever-increasing compactness and density of computer systems demand maximum performance from the cooling system. Well-founded skills and exceptional product innovations make ebm-papst a technological trendsetter in electronics cooling. In many thousands of applications – both, standard solutions and specialized, customer-specific ones, our tried-and-tested products demonstrate the exceptional capabilities they bring to cooling tasks. There are many different applications in the IT/Telecom market where ebm-papst fans are used, such as in base stations. They ensure that we can communicate with each other while mobile, anywhere in the world. The fans keep the base station electronics at a uniform low temperature and reliably guide away lost heat. This minimizes the risk of failure of individual components and extends the service life of the system.

Fans used in this field are centrifugal fans & blowers, tubaxial / diagonal fans or centrifugal compact fans. The centrifugal fans & blowers have a medium flow rate at medium pressure. They are available with forward or backward curved blades and have low-noise level. Whereas tubaxial / diagonal fans have a high flow rate at medium to high pressure have. Those fans have been the standard in electronics cooling for decades. They are compact, quiet and highly efficient. The fans adapt to the cooling situation and can be intelligently networked to the device logic. The compact construction allows space-saving accommodation of all devices and easy installation. If a high-pressure and a 90° air-deflection are needed, the centrifugal compact fans are the solution. ebm-papst also offers fan packages that include the inlet ring, power connector and housing for simpler installation. These fans have all critical properties that are so important in the IT area, such as a low noise level even at a high air performance. Or they can be intelligently controlled and thus adapted individually to specific customer requirements.

Another application is cooling units for control cabinets, which are used in environmental conditions defined by high temperature and an oily and aggressive atmosphere. ebm-papst primarily offers centrifugal fans for this area, but also axial fans for internal and external circulation in cooling units. In this field the fans need to be weatherproof. Therefore the fans are specifically tested for resistance to humidity, temperature fluctuations, and salt spray and fog. For the IT hardware, which includes network technology, routers, data storage technology, servers, mainframes and much more, ebm-papst offers a matching line of centrifugal and compact fans in GreenTech EC technology that has been specifically designed for this area.

Telecom shelter cooling

The shelter will protect equipment from environmental impacts like heat, wetness, cold, storms or sand as well as from theft and vandalism. As the equipment can be sensitive, it is critical to maintain a steady temperature inside of the shelter throughout the year. Thereby, a maximum efficiency can be achieved and a reliable service is ensured. The equipment must be protected from environmental impacts and from dissipated heat of the operating equipment.

There are many different ways to receive a steady temperature inside the telecommunication shelter. One possibility is ventilation by exhaust fans. The fans circulate the outside air to the inside of the shelter and the arising airflow cools down the equipment. Another option is a water cooler; a tube which divides gas into hot and cold streams. The cold flow is injected inside the shelter and cools the equipment down. The optimal solution for protected and reliable operation of the equipment is an air conditioning solution. With such a system, it’s possible to maintain a steady temperature inside the shelter, regardless of the outside temperature. A steady temperature can be achieved with a HVAC unit, which cools the temperature in the summer and heat it in the winter.

Benefits of using ebm-papst cooling solutions:
- German-engineered compact fans and motors, USA-designed assembly
- Energy savings
- Reliability
- Noise
- Warranty
- Lifetime
- 100% end of line testing

Our engineers and custom assembly solutions / value added capabilities can help customers to:
- Create cost-effective designs
- Optimize airflow
- Lower energy consumption
- Reduce noise
- Quickly develop prototypes
Exterior cooling

Modular / containerized data center cooling
A new generation of data center is becoming an increasingly popular choice as the needs for more efficient systems grow. Some companies are migrating from large facility data centers to portable or modular data centers that are set up within sea containers or other pre-packaged systems. Portable or modular data centers are fitted to house many racks of IT equipment with ultra-efficient cooling systems inside. These data centers can be manufactured and deployed more rapidly than traditional data centers because this style offers the easiest ‘scalable’ solution while maintaining high operation efficiencies.

Because the majority of portable and modular data centers don’t have the same heat/cooling duct losses experienced in traditional data centers, the new configurations can super-charge their energy efficiency by incorporating ebm-papst’s range of EC blowers and fans, from our small 80 mm fans up to 1250 mm models.

The preferred solutions for modular / containerized cooling:
• Plenum fans/RadiPac
• Radial impellers
• HyBlade® axial fans
• Compact fans

Interior cooling

Rack cooling
Heat loads have increased dramatically as more components are squeezed into densely packed rack space. Excess heat in a server room adversely affects equipment performance, shortens equipment life-spans, and is the primary reason for downtime. Rack cooling ventilation designs should reduce hot spots and provide adequate cooling to every part at the rack level. Hot spots caused by improper airflow and poor circulation that are not properly cooled result in temperatures that exceed the recommended conditions for equipment reliability and performance. Effective cooling techniques must be employed so heat can be dissipated as efficiently and as close to the source as possible. This calls for the most innovative and efficient solutions to meet the challenging needs of Telecom Shelter cooling applications.

Maximum performance, custom solutions
Our fans and blowers for rack cooling within shelter applications can direct cooled air where it can be used most productively and efficiently and are available in a wide range of AC, traditional 12, 24, 48 VDC and full EC systems. Our compact fans are high performing, able to handle high backpressures, and can be intelligently controlled and adapted to specific requirements, all while delivering long service life and maintenance-free operation. Our wealth of value added capabilities and expertise allows us to customize solutions to meet your unique data center needs.

The preferred solutions for rack and cabinet level cooling:
• Radial impellers
• Diagonal fans
• Compact fans
**EC Plenum fans / RadiPac**

**Features**
Sizes (mm): ø250 to ø1,250
Air Flow (CFM): 1,758 to 27,158
Frequency (Hz): 50/60
Voltage (VAC): 230, 277, 380, 480
Integrated electronics, extremely low noise and minimal heat generation with an aerodynamically optimized mounting package.

### Plenum fans

<table>
<thead>
<tr>
<th>Series</th>
<th>Size (mm)</th>
<th>Max. Air Flow (CFM)</th>
<th>Max Static Pressure (in wg)</th>
<th>Power Input (Watts)</th>
<th>Nom. Speed (RPM)</th>
<th>Sound Pressure (dB(A))</th>
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<tbody>
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### RadiPac

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Not all sizes available in all voltages.
Contact Engineering for specific part numbers and values.
sales@us.ebmpapst.com | 860-674-1618

**EC Radial impellers**

**Features**
Sizes (mm): ø133 to ø630
Air Flow (CFM): 333 to 13,741
Frequency (Hz): 50/60
Voltage (VAC): 230, 277, 380, 480
Integrated electronics and extremely low noise.

### Radial impellers

<table>
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<tr>
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<th>Size (mm)</th>
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<td>85.8</td>
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</table>

Not all sizes available in all voltages.
Contact Engineering for specific part numbers and values.
sales@us.ebmpapst.com | 860-674-1618
### EC HyBlade® axial fans

**Features**
Sizes (mm): ø300 to ø1,250  
Air Flow (CFM): 1,873 to 38,675  
Frequency (Hz): 50/60  
Voltage (VAC): 230, 277, 380, 480  
Integrated electronics and extremely low noise.

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<td>690</td>
<td>76</td>
<td>60</td>
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*1,250 mm size only available with aluminum blade design.

Contact Engineering for specific part numbers and values.
sales@us.ebmpapst.com  |  860-674-1515

### DC Radial impellers

**Features**
Sizes (mm): ø101 to ø400  
Air Flow (CFM): 112 to 1,947  
Voltage (VDC): 12, 24, 48  
DC fans with electronically commutated external rotor motor and fully integrated commutation electronics.

<table>
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<tr>
<th>Size</th>
<th>Max. Air Flow</th>
<th>Max. Static Pressure</th>
<th>Power Input</th>
<th>RPM</th>
<th>dBA</th>
<th>Max. Ambient Temp.</th>
<th>Weight</th>
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</table>

Contact Engineering for specific part numbers and values.
sales@us.ebmpapst.com  |  860-674-1515
Features

Sizes (mm): ø82 to ø200
Air Flow (CFM): 131 to 968
Voltage (VDC): 12, 24, 48
DC fans with electronically commutated external rotor motor and fully integrated commutation electronics.

Compact Fans

<table>
<thead>
<tr>
<th>Series</th>
<th>Size (mm)</th>
<th>Max. Air Flow (CFM)</th>
<th>Max. Static Pressure (in. wg)</th>
<th>Power Input (Watts)</th>
<th>RPM</th>
<th>Sound Pressure (dB(A))</th>
<th>Max. Ambient Temp. (°C)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8200U</td>
<td>80x38</td>
<td>131</td>
<td>2.62</td>
<td>36</td>
<td>14,000</td>
<td>71</td>
<td>70</td>
<td>0.4</td>
</tr>
<tr>
<td>3200U</td>
<td>92x38</td>
<td>165</td>
<td>2.82</td>
<td>50</td>
<td>13,000</td>
<td>73</td>
<td>70</td>
<td>0.5</td>
</tr>
<tr>
<td>4100N</td>
<td>119x38</td>
<td>336</td>
<td>5.04</td>
<td>120</td>
<td>11,000</td>
<td>78</td>
<td>75</td>
<td>0.9</td>
</tr>
<tr>
<td>5300</td>
<td>140x51</td>
<td>395</td>
<td>5.44</td>
<td>149</td>
<td>9,200</td>
<td>79</td>
<td>65</td>
<td>2.0</td>
</tr>
<tr>
<td>6300</td>
<td>172x51</td>
<td>561</td>
<td>4.64</td>
<td>150</td>
<td>9,200</td>
<td>75</td>
<td>65</td>
<td>2.0</td>
</tr>
<tr>
<td>2200F</td>
<td>200x51</td>
<td>720</td>
<td>4.03</td>
<td>1.03</td>
<td>6,500</td>
<td>72</td>
<td>65</td>
<td>2.2</td>
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</table>

Diagonal Fans

<table>
<thead>
<tr>
<th>Series</th>
<th>Size (mm)</th>
<th>Max. Air Flow (CFM)</th>
<th>Max. Static Pressure (in. wg)</th>
<th>Power Input (Watts)</th>
<th>RPM</th>
<th>Sound Pressure (dB(A))</th>
<th>Max. Ambient Temp. (°C)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DV5300</td>
<td>172x51</td>
<td>649</td>
<td>6.05</td>
<td>390</td>
<td>6,800</td>
<td>89</td>
<td>65</td>
<td>2.10</td>
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<tr>
<td>KG200</td>
<td>225x89</td>
<td>968</td>
<td>3.23</td>
<td>418</td>
<td>5,480</td>
<td>87</td>
<td>60</td>
<td>4.80</td>
</tr>
<tr>
<td>KG200-AD</td>
<td>200</td>
<td>547</td>
<td>0.84</td>
<td>80</td>
<td>3,100</td>
<td>72</td>
<td>60</td>
<td>4.41</td>
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<tr>
<td>KE200-AD</td>
<td>200</td>
<td>590</td>
<td>0.80</td>
<td>90</td>
<td>3,200</td>
<td>69</td>
<td>85</td>
<td>5.73</td>
</tr>
</tbody>
</table>

FlowGrid

FlowGrid, the grill on the air intake side, drastically reduces the noise-generating disturbances. The vortex strings are split when hitting the grille and considerably weakened as they flow through it resulting in considerably lower sound pressure.

AxiTop axial fan diffuser

The AxiTop diffuser is designed to recover wasted energy by purposely and efficiently decelerating the flow and reducing swirl, boosting the pressure rise of the impeller. Aerodynamic efficiency is increased and acoustic noise is reduced.

Temperature sensors

Part Number: 50005-1-0174
Nom. Voltage: 15-30 VDC
Current Draw: 10 mA
Output Voltage: 0-10 VDC
Output Current: 1.0 mA
Output Impedance: 1.1 kΩ
Measuring Temp.: -20 to 80 °C

Part Number: 50002-1-0174
Nom. Voltage: 18-60 VDC
Current Draw: 2-10 mA
Output Voltage: 0-10 VDC
Output Current: 0.1 mA
Output Impedance: 6.8 kΩ
Measuring Temp.: -30 to 55 °C

Part Number: 50003-1-0174
Nom. Voltage: 18-60 VDC
Current Draw: 0-10 mA
Output Voltage: 0-10 VDC
Output Current: 0.1 mA
Output Impedance: 6.8 kΩ
Measuring Temp.: 10 to 45 °C

USB-RS485 adapter

Part Number: 21490-1-0174
The ebm-papst USB RS485 adapter connects RS485 devices to a computer USB. This also requires the ebm-papst EC Control software version 2.0 or later. The USB drivers required for operating the adapter are also included.

Knob potentiometer

Part Number: 420-05-0640
This unique design consists of a knob driving and incorporating a potentiometer. The mounting hardware and terminals are situated on the back side of the panel reducing to a minimum the required clearance.

Contact Engineering for specific part numbers and values.
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