North American Region

United States, Canada, and Mexico

ebmpapst

engineering a better life



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About ebm-papst North America

Sales, engineering, manufacturing, development, logistics

ebm-papst is an innovator and market leader in fans, blowers, and motors with core competencies in motor technology, aerodynamics, and electronics. With more than 20,000 products, we provide solutions to a wide range of markets including air-conditioning and ventilation, commercial refrigeration, heating, industrial, lighting, IT/telecom, medical, transportation, and more.

To gain independence from overseas production and shipping delays, ebm-papst opened a temporary production facility in Johnson City, TN in 2019. While localizing efforts continued to grow, we subsequently planned and purchased a permanent location in Telford, TN. After only 12 months of construction, we opened our new production plant for highly energy-efficient fans and motors on November 10th, 2022. Through this expansion, we have bolstered independence, agility, and resilience from external influences in the supply chain, while benefiting from the skilled workforce in the region.

Total footprint
- 427,000+ sq.ft
- 800+ employees

- Value added capabilities
- Acoustic testing chamber
- Complete on-site air testing lab
- ISO 9001 and ISO 14001 certification
- Distribution centers in Farmington, and Toronto, Canada



North American headquarters in Farmington, Connecticut



Production location in Telford, Tennessee







Value-Added *Capabilities*

Design and manufacturing

Our staff of design, electrical, and application engineers possesses a wealth of knowledge and experience enabling unparalleled guidance and support to our customers and their projects. Cutting-edge equipment and innovative technologies are used to develop customer concepts into sub-assemblies or complete product ranges. Our engineers draw upon the vast resources available throughout the ebm-papst family to ensure that the most innovative and energy-efficient air movement components are correctly applied.

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. The airflow chambers are truly beneficial to our customers as they allow for the optimization of equipment for outdoor a/c systems, refrigeration systems, and commercial fan applications. 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.

Design and electrical engineers advance the concept into a packaged air-moving device incorporating sheet metal, fan controls, filters, gaskets and more. Our design engineers utilize the latest version of "Pro-Engineer" software to create a viable and cost-effective, value-added solution. File sharing between customers and our team of engineers enables all stages of the prototype design to be verified before the initial build of the product.

While our design engineers develop the mechanical components of the fan assembly, our 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. With our staff of engineering experts, a working prototype can be developed in a matter of weeks!

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

The gas lab provides ebm-papst the opportunity to service our customers by making gas-fired appliances that are sold into the commercial cooking and heating markets. We provide support to optimize performance for components and system solutions for individual applications. controllers for monitoring fan speed to complex controllers and power supplies, filtering, and specific communication protocols.



Engineering support



Acoustic testing chamber



Air testing chamber



Gas appliance test lab

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North American Production *Capabilities*

Sheet metal fabrication and finishing

Lean manufacturing techniques, such as the use of reliable and efficient manufacturing equipment, ensure that subassemblies, components, and air-handling products are produced to the highest technical standards. Significant investments in top-of-the-line production equipment and efficient equipment know-how provide customers with the manufacturing excellence that has led ebm-papst to become the leading choice for fan and motor technologies.

All sheet metal cutting, stamping, forming, rolling and welding are performed within our facilities. Our modern line of CNC punch presses, the *TruPunch5000*, allows us to accurately and efficiently create metal scrolls to exact specifications ensuring high quality and maximum flexibility. Our *TruLaser 3030* fiber cutting machine uses a 3000-watt fiber laser beam delivery system for extremely high cutting speeds of thin sheets, while also allowing for the cutting of more exotic metals like copper and brass.



TruPunch5000



Robotic bending machine

Our robotic bending machine includes the *Trumpf LiftMaster* Compact for the automated production loading and unloading of 5′ x 10′ sheets. No sheet metal part is too large to manipulate using our *Flexibend* folding machine, and no tooling set-up is required, allowing for significant savings in both time and cost! After the first sheet metal sample is cut or punched, the parts are then scanned for quality purposes. Our flat part measurement and digitizer, *Fabrivision*, scans and compares cut parts to the original CAD drawings for complete accuracy. Our *Haeger* automatic inserting machines will then insert nuts, bolts, or other hardware as required.

Our electrostatic powder paint system can reclaim unused paint, thereby reducing waste through efficiency. This high-capacity paint line includes a paint oven conveyor and a five-stage iron phosphate washer to streamline the finishing process. Once the sheet metal has been completed, custom assemblies incorporating our fans and blowers can be finished by adding PCBs, power supplies, air filters, wire harnesses, labels and more!



Powder paint



Co-Bot cell

Market *overview*

Access Control
Turn stiles, barriers, doors, gates, sliding doors

Agriculture
Food storage, greenhouse ventilation, livestock ventilation, seeding machines & robots, conveyor systems

Air-conditioning
Air handing units, condensing units, energy recovery systems (ERV), fan coil units, heat pumps, packaged rooftop units

Alternative Energy
Battery charging electric vehicle stations, battery/grid cooling, gas compressor stations, generators, power conditioning, backup converters, solar power inverters, wind turbine cooling, fuel cells

Appliance
Cleaning systems, convection and microwave ovens, food preparation equipment, range hoods, refrigerators

Automation and Intralogistics
Factory automation, textile machines, woodworking machines, AGVs, circuit breakers, conveyor systems, transfer systems, shuttle systems, packaging machines, cross belt systems

Commercial Refrigeration
Beverage coolers & dispensers, condensers, cooling towers, evaporators, vending machines, refrigerators & ice making equipment, supermarket display cabinets

Data Center
Computer room air conditioners (CRAC), under floor cooling, electronics enclosures, mainframe computers, portable and modular data centers, rack cooling, routers, servers, switches

Heating
Air heaters, burners, commercial &residential water heaters, fireplace inserts, gas fired condensing boilers, gas heaters, humidifiers, pellet stoves, rotational heat exchangers

Industrial Air Technology
CNC machinery, control cabinet cooling & ventilation, exhaust systems, inspection & test equipment, laser technology, power electronics, transformer cooling, welding/printing

IT / Telecom
Electronics enclosures, mainframe computers, portable and modular data centers, rack cooling, routers, servers, switches, telecommunication equipment

LED
Architectural and residential lighting, audio-visual equipment, digital signage and displays, high-bay lighting, LED active cooling, stage lighting, street lamps

Medical & Laboratory
Blanket warmers, blood processing machines, C-PAP machines, CT scanners, centrifuges, chromatographs, diagnostic equipment, dialysis machines, emergency cots, MRI, patient lifters, peristaltic pumps, shakers, stirrers, surgery tables, wheelchairs, X-ray machines

Transportation / Mobile
Agriculture vehicles, buses, commercial vehicle ventilation, marine, material handling equipment, railway technology, refrigerated transport vehicles

Ventilation
Commercial and residential ventilation, chilled water systems, cleanroom equipment (FFU, clean benches, air showers)

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Product *overview*



Product *overview*

Axial fans



Supply airflow at low system pressures. Complete fan packages provide easy mounting, minimal depth, low noise and high efficiency. Electronically commutated external-rotor motor with integrated electronics.

Applications: Condensers, horticulture, industrial and commercial air conditioners, livestock ventilation, motor/engine cooling, mobile refrigeration
Markets: Agriculture, Air-conditioning, Commercial Refrigeration, Data Center, Industrial, Transportation, Mobile, Rail, Ventilation
Size: Ø 7.9 in. to 63 in. (200 mm to 1,600 mm)
CFM: 100 to 49,500
Static pressure: 0.16 in.H_20 to 2.5 in.H_20
Accessories: AxiTop™, FlowGrid

Backward curved motorized impellers



Supply air flow at medium system pressure; air is drawn in over the motor and then discharged radially. Electronically commutated external-rotor motor with integrated electronics.

Applications: Cleanrooms, exhaust systems, routers, telecom equipment, mobile refrigeration, HVAC, engine cooling
Markets: Data Center, IT / Telecom, Transportation, Ventilation, Rail
Size: Ø 3.94 in. to 35.4 in. (133 mm to 900 mm)
CFM: 50 to 21,780
Static pressure: 0.4 in.H_20 to 10.3 in.H_20

Energy-saving motor (ESM) fans



Two speed, user programmable, reversible, energy efficient complete fan packages. Line powered energy efficient EC brushless motors and also DC versions with infinitely variable speed control via analog signal or ModBus communication. 100 - 240 VAC wide voltage range available on select models. Safe for use with hydrocarbon refrigerants.

Applications: Display cases, vending machines, bottle coolers, freezers, unit coolers
Markets: Commercial Refrigeration
Size: Ø 6 in. to 12 in. (152mm to 305mm)
CFM: 100 to 825
Static pressure: 0.09 in.H_20 to 0.65 in.H_20
Accessories: HX0C-003-000-02 full featured programmer
HX0C-006-000-03 two-speed programmer

RadiPac™



Single inlet, direct drive, centrifugal impeller with an electronically commutated external-rotor motor with integrated electronics; backward curved impeller blades.

Applications: Air handing units, condensing units, energy recovery systems (ERV), packaged rooftop units
Markets: Air-conditioning, Data Center, Industrial, Ventilation
Size: Ø 9.8 in. to 39.4 (249 mm to 1000 mm)
CFM: 700 to 22,000
Static pressure: 1.35 in.H_20 to 10.3 in.H_20
Accessories: FlowGrid, instrumented inlet rings

Centrifugal blowers



Suitable for applications with relatively high pressures. External rotor motor combined with a forward curved centrifugal wheel within a scroll housing.

Applications: Exhaust systems, range hoods, machine cooling
Markets: Air-conditioning, Appliance, Industrial, Transportation, Ventilation
Size: Ø 3.35 in. to 15.9 in. (85 mm to 404 mm)
CFM: 26 to 5,600
Static pressure: 0.2 in.H_20 to 4.5 in.H_20

Compact fans



Compact, quiet and highly efficient energy-saving fans. Available for all voltages and in all standard sizes.

Applications: Automotive seat and electronics cooling, medical equipment, power supplies, printers/copiers, refrigerated display cases, routers, servers, warming ovens
Markets: Appliance, Automotive, Data Center, Industrial, IT / Telecom, Medical, Refrigeration
Size: Ø 1 in. to 11 in. (25 mm to 280 mm)
CFM: 1.2 to 1,218
Static pressure: 0.04 in.H_20 to 5.6 in.H_20
Accessories: Connecting cables, filters, finger guards, screens, spacers and temperature sensors

Gas blowers & complete combustion systems



Components and systems that allow for a measured air-fuel mixture to be delivered to the burner for optimum combustion.

Applications: Gas fired boilers, water heaters, power burners, commercial food equipment, steam humidifiers
Markets: Heating and appliance
Size: Impeller diameters ranging from Ø 2.80 in. to 17.72 in. (71 mm to 450 mm)
Note: Energy input rate up to 13.6MM BTU/H (4MW) to 6.8M BTU/H (2MW)
Static pressure: up to 20 in wc (5000 Pa)

Accessories



Products designed to optimize performance.

Accessory: FlowGrid, AxiTop, fan guards, capacitors, cord sets, programmers

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