

# Discover ebm-papst in commercial kitchen equipment.

Durable and reliable products for constant use.

# ebmpapst

The engineer's choice



# About ebm-papst.

*As a leader in technologies for ventilation and drive engineering, ebm-papst is in demand as an engineering partner in many sectors. With over 15,000 different products, we provide the right solution for just about any challenge. Our fans and drives are reliable, quiet, and energy efficient.*



## Six things that make us the ideal partner:

**Our systems expertise.** As experts in advanced motor technology, electronics and aerodynamics, we provide system solutions from a single source.

**Our spirit of invention.** Our 600 engineers and technicians will develop a solution that precisely fits your needs.

**Our lead in technology.** With our GreenTech EC technology, we set new standards worldwide. And our lead is your competitive advantage.

**Proximity to our customers.** At 57 sales offices worldwide.

**Our standard of quality.** Our quality management is uncompromising, at every step in every process.

**Our sustainable approach.** We assume responsibility with our energy-saving products, environmentally friendly processes, and social commitment.

## Special solutions for special requirements.

Appliances are in constant use in commercial kitchens. Hundreds of meals are prepared every day, and guest satisfaction has top priority. Every breakdown means economic losses, so trouble-free operation of ranges and ovens, heated and cooled displays and dishwashers is essential. Our products are ideally suited to these requirements.

With our decades of experience, we are a global industry leader in household appliance technology. In combination with our expertise in heating technology, this makes us the ideal partner when durable, rugged and high-quality components for industrial kitchen appliances are needed. We offer both standard products and customized solutions. We optimize our products in cooperation with manufacturers to make them an ideal match for the requirements of each customer appliance.



# Durability for guaranteed enjoyment.

## Tangential blowers

- Ideal for distributing hot and cold air
- Save space thanks to flat, compact design
- Especially broad and uniform air stream
- Also available in energy-saving EC design with speed control (e.g. temperature-controlled)
- Minimal heat dissipation into refrigeration circuit
- Largest product range worldwide with roller diameters of 30 to 100 mm

### Possible applications:

1 2 3 6 15

## Gas/air composite system

- Complete system solutions with blower, venturi and gas valve (0.5 kW to 150 kW)
- Components work together perfectly for ideal mixing of gas and air
- Compact and space-saving
- For all gas-operated applications in kitchen equipment
- Especially rapid output availability thanks to use of gas
- Speed control for optimum regulation of cooking and drying processes

### Possible applications:

8 12

## Centrifugal fans

- Sole supplier of products for commercial dishwashers with EC technology
- Maximum capacity thanks to space-saving design
- High speeds
- High efficiency
- Rugged and powerful
- Shorter cycles for higher number of wash cycles

### Possible applications:

14

## Exhaust fans

- High-suction key component of extractor hoods
- Ideal for continuous operation
- Reliable removal of oil odors and steam for clean indoor air
- Available for all sizes and types of extractor hood
- Available in designs with AC or EC technology
- EC design with smoothly adjustable speed control

### Possible applications:

10

**Example applications for ebm-papst products.**

**1** Refrigerated display case / salad bar

**2** Heated display case

**3** Bottle cooler

**4** Beverage dispenser

**5** Ice maker

**6** Refrigeration units

**7** Mobile food warmer

**8** Deep fryer

**9** Universal slicer

**10** Extractor hood

**11** Oven

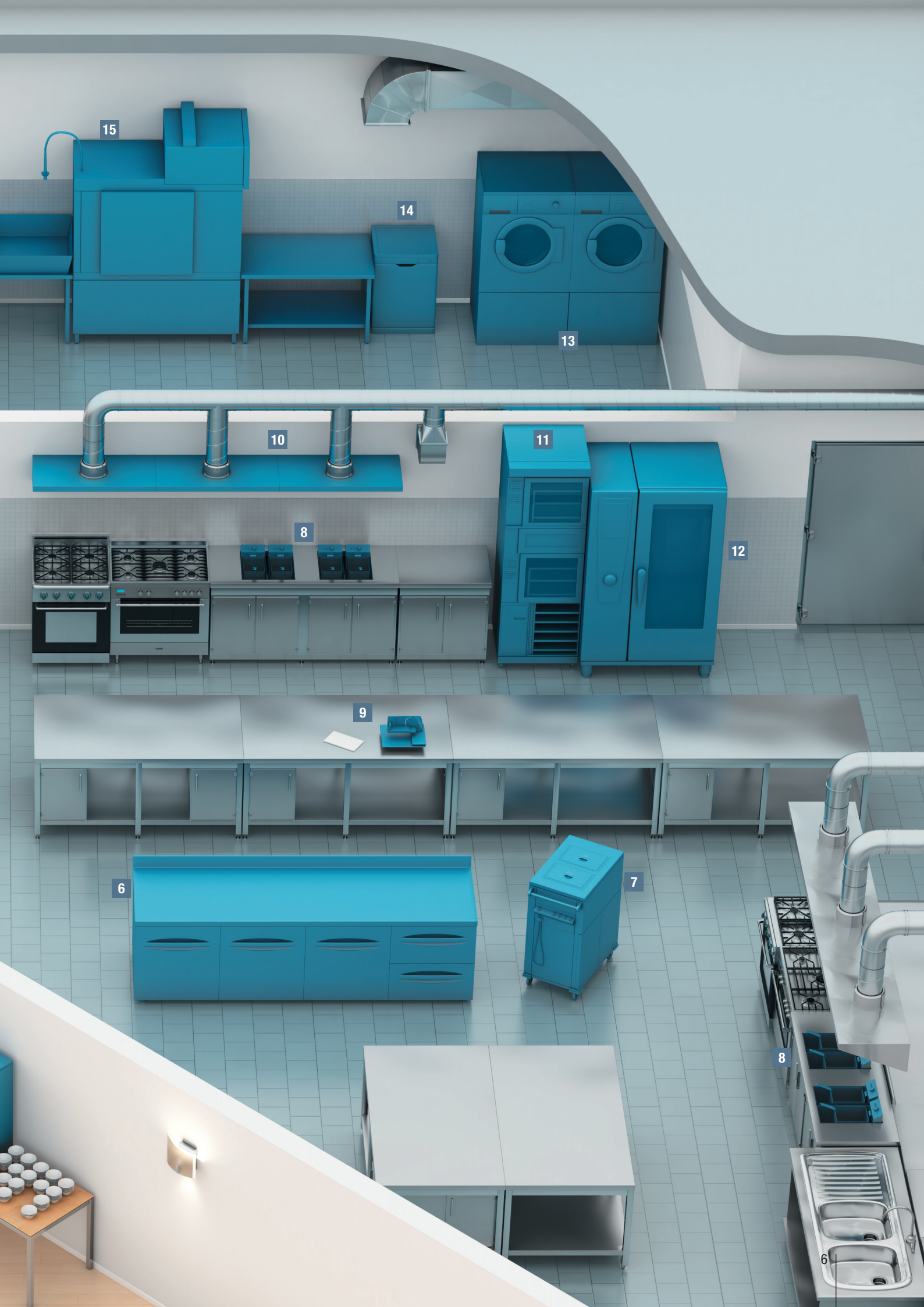
**12** Steamer

**13** Gas-powered clothes dryer

**14** Dishwasher (under-counter)

**15** Commercial dishwasher





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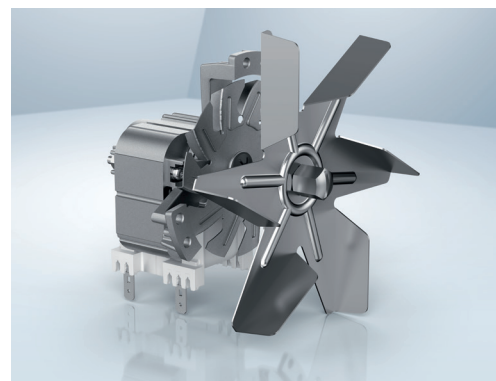
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### Hot-air blowers

- Perfect results with ovens, heated displays or mobile food warmers
- Proven and reliable shaded-pole motor technology
- Heat-resistant impellers made of hot-dip aluminized or stainless steel or die-cast aluminum
- Installation of motor outside of cooking area with adjustable bracket
- Ball bearings used for reliability and long service life
- Available with impeller diameters of 120-225 mm

#### Possible applications:

2 7 11



### Energy-saving motors

- Ideally suited for driving axial fans to distribute cold in evaporators and for cooling in condenser applications
- High potential energy savings thanks to EC technology
- Compatible with existing shaded-pole motors for easy replaceability
- Can be used in indirect contact with foodstuffs thanks to plastic housing
- Service life up to 90,000 hours

#### Possible applications:

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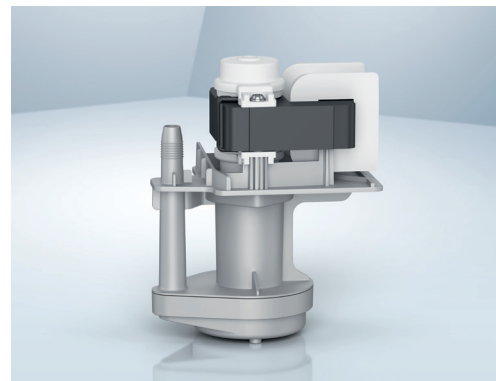


### Pumps

- Trouble-free condensate drainage
- Available in different performance classes
- For flow heads up to 1.2 m
- Compact dimensions
- Easy to install
- Self-venting

#### Possible applications:

13



### Drive motors

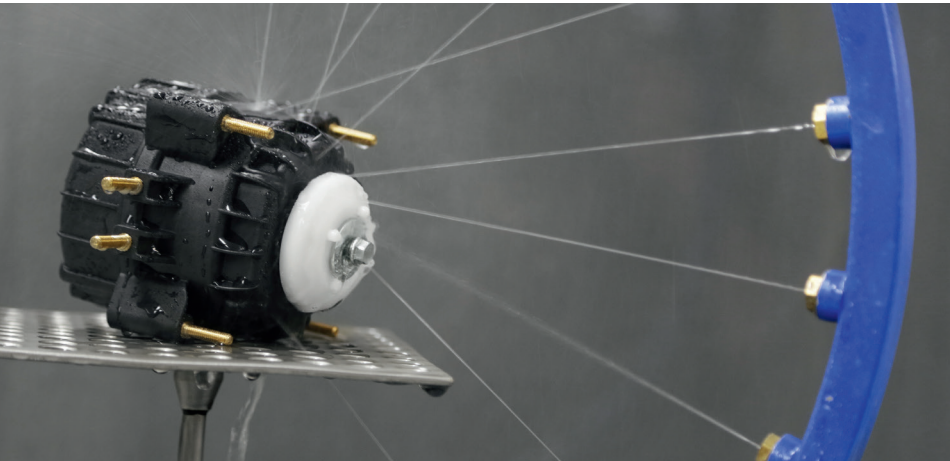
- Compact internal rotor drive motors with high torque and power density
- Suitable for kitchen machines
- Available in designs with AC and EC technology
- Easy exchange of models thanks to identical dimensions
- Speed control with EC motors
- Two directions of rotation, IP54 degree of protection possible on request

#### Possible applications:

9



# Reliability made by ebm-papst.



*As a technology leader and premium manufacturer, we attach great importance to the quality of our products. To ensure that we can meet this standard of quality, we test our products thoroughly. The insights we gain flow into our development and production processes continuously, enabling constant improvements in our product quality.*



## Convincing results.

Our qualification and endurance tests have given us decades of experience in understanding how various design parameters and temperatures can affect the service life of a product. Some of these tests have been in progress since the 1980s – proof of the legendary reliability of products from ebm-papst. Thanks to our wide range of tests, we are able to provide our customers with exact product specifications. When performing our tests, we are guided by international standards as well as by our ebm-papst environmental classes. Load profiles for each product test are based on both industry-standard application scenarios and customer requirements.

## Our tests at a glance:

- Environmental simulation and service life tests with over 30 climate cabinets, cold chambers and heating chambers
- Simulation of temperature range from -70 °C to 300 °C possible
- About 150 different endurance tests with over 700 specimens in progress
- Numerous mechanical tests (transport and operating simulations, IP tests, speed limit tests, vibration tests)
- Additional laboratory facilities for comprehensive tests accompanying production of series products



### Limit load tests

By simulating different mechanical and climatic conditions during transport, storage and use, we test whether a product meets specifications.



### Accelerated life testing

This test is an accelerated form of limit load testing. We test product reliability and longevity under extreme climatic and mechanical conditions.



### Start-stop tests

To ensure that a motor will start as expected over its entire service life, start-stop endurance tests simulate the required number of starts.

FSC Logo

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