

Sky-high *performance.*

With the VG 450 at the top, ebm-papst offers a completely unique portfolio of EC gas blowers for heat output up to 4 MW.

ebm**papst**

the engineer's choice



About ebm-papst.

As a leading supplier of ventilation and drive engineering technology, ebm-papst is a highly respected engineering partner in many industries. With over 15,000 different products, we can provide the right solution for almost any application. And all of our fans and drives are reliable, quiet running and energy efficient.

ebmpapst

the engineer's choice

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

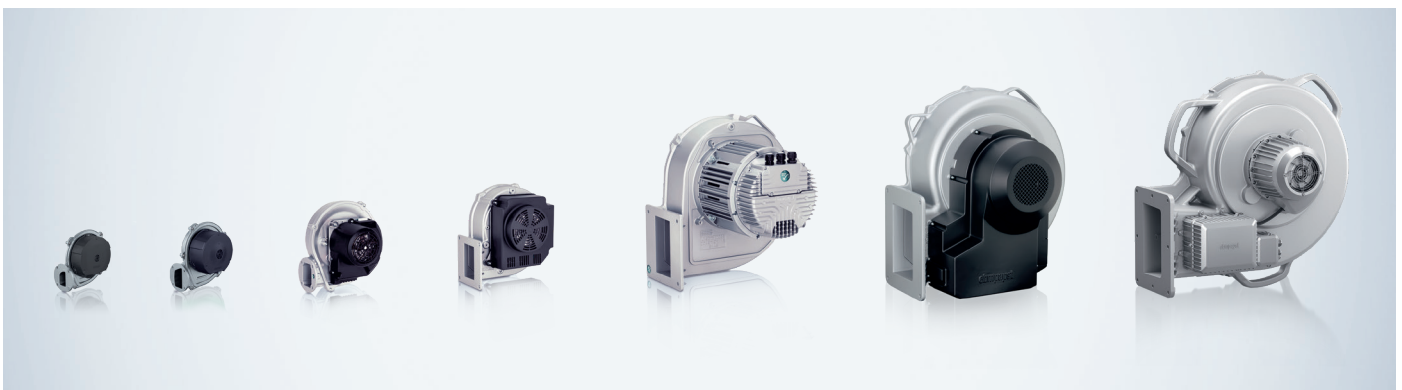
The ebm-papst spirit of invention: Our 600 engineers and technicians will develop a solution that precisely suits your needs.

Our lead in technology: With our GreenTech EC technology, we set standards worldwide and our lead is your competitive advantage.

Proximity to our customers: At 49 sales offices worldwide.

Our standard of quality: Our quality management is uncompromising at every step of the way in each process.

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



The entire spectrum of condensing technology.

ebm-papst offers a uniquely extensive spectrum of high-efficiency GreenTech EC centrifugal blowers to manufacturers of condensing boilers. Depending on the conditions of use, these blowers can deliver between 0.5 and 4,000 kilowatts of heat

output quietly and reliably, while saving energy. The product range starts at VG 71 and includes the VG 108, NRG 118, G1G 170, G3G 250 MW and G3G 315 blowers. The top-performer in our series for condensing technology is the latest model: VG 450.

Towering above *the rest*.

The VG 450 gas blower sets the new standard in top performance – and not only in our portfolio. Instead, in condensing technology as a whole.

The great advantage: For the first time, heat outputs up to 4 MW can be realized with a single, compact blower. That is enough to heat a high-rise residential tower or a housing development with 200 homes.

Planners now have an entirely new set of options. For example, a decentralized heating solution direct in the residential complex. This minimizes both the effort involved in construction and heat loss from long pipes. VG 450 blowers are equipped with GreenTech EC technology, which leads to considerable cost savings.

- + High power density**
 - The first blower for input rates up to 4 MW
 - Extremely compact
 - Ideal for decentralized heating solutions
- + Maximum energy efficiency**
 - GreenTech EC motor
 - Aerodynamically optimized impeller and housing
- + High flexibility**
 - Smoothly adjustable speed
 - EC technology for high modulation
 - Interfaces: MODBUS, PWM, 0 – 10 V
 - Voltage 380–480 V and 50/ 60 Hz
 - Maximum ambient temperature +60 °C



Significantly higher efficiency *for local heating.*

Premix gas blowers from ebm-papst are the solution for high performance in innovative condensing technology that saves the most space and energy.

Our premix gas blowers with GreenTech EC technology are available in a variety of output levels and have a track record of successful application worldwide. For heating modern residential towers, large building complexes or entire housing developments.

A single device enables:

- Heating output up to 4 MW, depending on the conditions of use.
- Loss-free transport of energy via simple gas pipes.
- Sustainable savings on operating and maintenance costs.
- Uncomplicated realization of construction projects in high-population areas.



G3G 250 MW.

– Material:

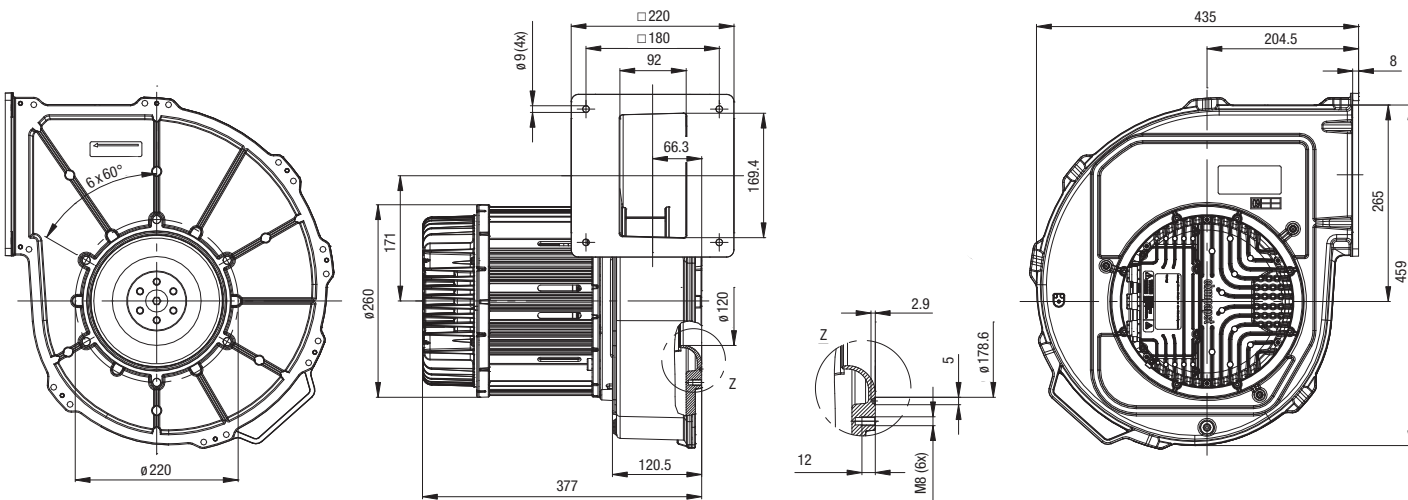
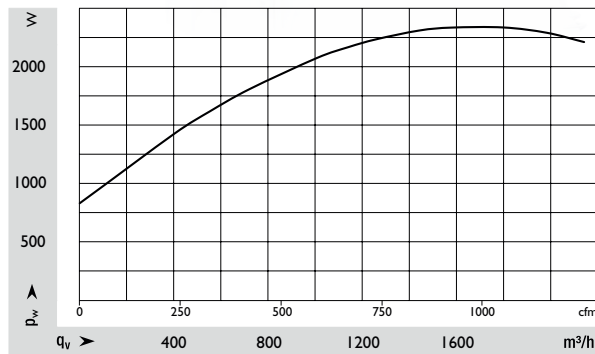
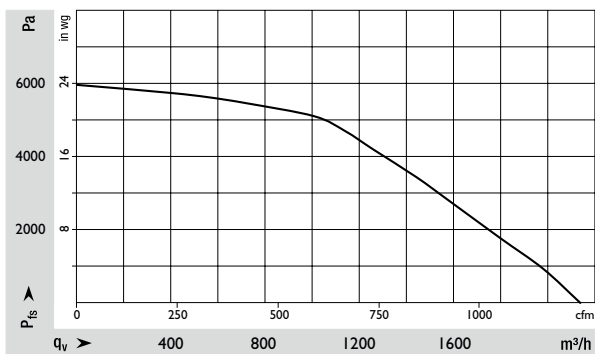
Housing: Cast aluminum

Fan impeller: Sheet aluminum

Electronics housing: Die-cast aluminum

– Electrical interface description

see operating instructions



Nominal data

Type	Voltage	Frequency	Max. airflow	Max. airflow	Max. Pressure increase	Max. Pressure increase	Max. power consumption	Max. speed	Perm. motor ambient temp.	Perm. flow medium temp.	Part number
	V	Hz	m³/h	cfm	Pa	in wg	W	rpm	°C	°C	
G3G 250 - MW50-01	380-480	50/60	2,100	1,260	5,800	23.3	2,500	6,400	50	50	G3G 250 -MW50-01

Subject to technical changes

G3G 315.

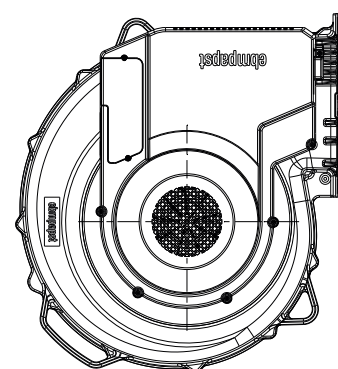
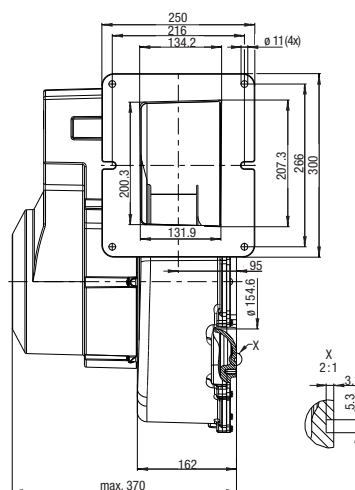
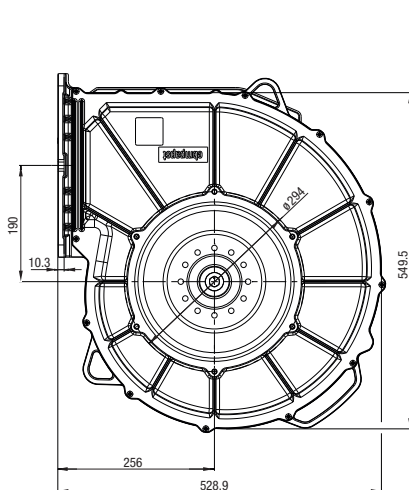
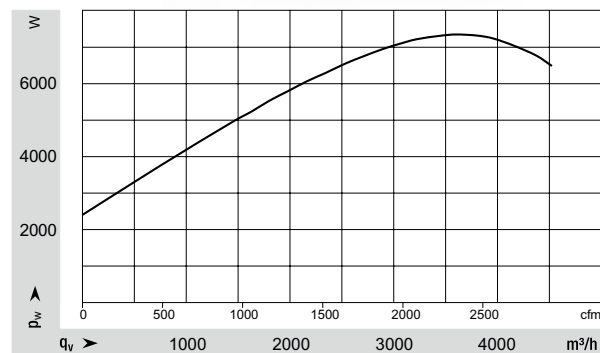
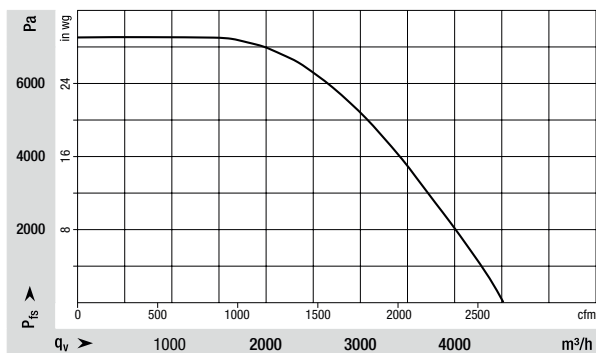
– Material:

Housing: Cast aluminum

Fan impeller: Sheet aluminum

– Electrical interface description

see operating instructions



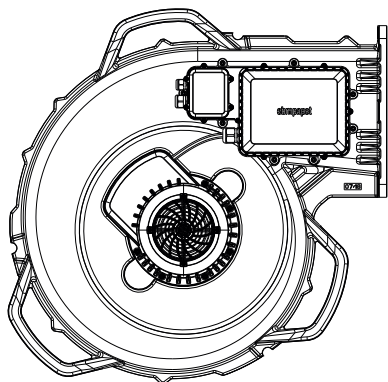
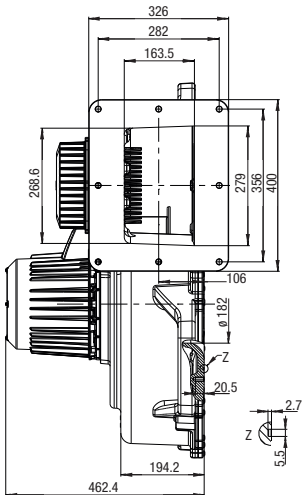
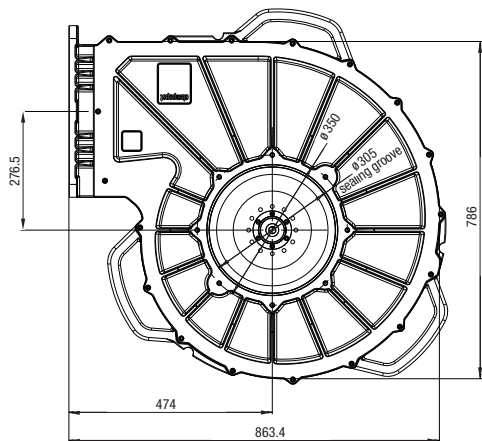
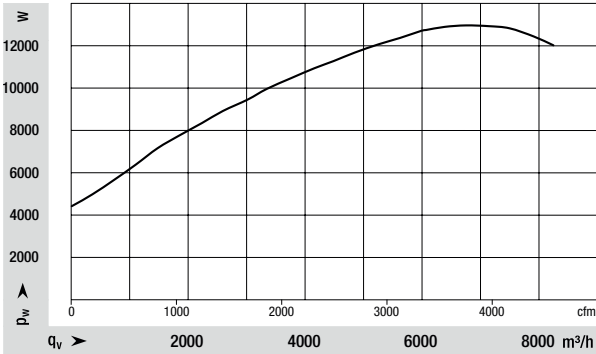
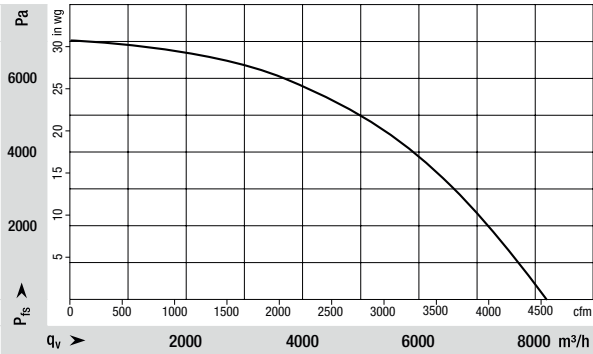
Nominal data		Voltage	Frequency	Max. airflow	Max. airflow	Max. Pressure increase	Max. Pressure increase	Max. power consumption	Max. speed	Perm. motor ambient temp.	Perm. flow medium temp.	Part number
Type	V	Hz	m³/h	cfm	Pa	in wg	W	rpm	°C	°C		
G3G 315 - M3G 150FF	3-380-480	50/60	4,500	2,650	7,000	28.1	8,000	6,000	60	60		55600.07000

Subject to technical changes

VG 450.

– Material:

- Housing: Cast aluminum
 - Fan impeller: Sheet aluminum
- Electrical interface description
see operating instructions



Nominal data		Voltage	Frequency	Max. airflow	Max. airflow	Max. Pressure increase	Max. Pressure increase	Max. power consumption	Max. speed	Perm. motor ambient temp.	Perm. flow medium temp.	Part number
Type	V	Hz	m³/h	cfm	Pa	in wg	W	rpm	°C	°C		
VGR0450XTTPS	380-480	50/60	8,000	4,700	7,000	28.1	14,000	4,250	40, short-term up to 60	50		on request

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