

RadiMix system solutions with high-efficiency Venturi

New compact gas/air composite systems for gas condensing units

In heating technology, perfect tuning of all components is essential for achieving optimum performance and efficiency. This is why ebm-papst offers complete gas/air composite systems blower, Venturi, gas valve, and burner control from a single source – the RadiMix system solutions.

System solution for every heat requirement

The decisive factor in any gas/air composite system is the correct gas/air ratio. This is the only way to guarantee efficient combustion with a high level of efficiency. The RadiMix HS 100 system solution supplies modern gas condensing units in residential buildings with the optimum amount and composition of gas and air in the power range of up to 50 kW. The RadiMix HS 108 system solution in the power range up to 80 kW is particularly suitable for commercial applications and apartment buildings.

High efficiency and suitable Venturis

To achieve a high degree of effectiveness and ideal flow geometry, the blade geometry of the gas blowers has been optimized and adapted to the housing. The EC motors integrated into the blowers ensure high efficiency. In addition, ebm-papst offers various Venturis, e.g. the new high-efficiency Venturi or the Multiventuri, depending on the heating capacity range. Depending on the customer's requirements, the gas valve can be mounted directly on the Venturi or positioned remotely elsewhere on the device. The available Venturis enable flexible, compact, and space-saving integration in the devices. They are designed as completely tested and coordinated units with optimized interfaces to minimize the integration effort.

Suitable for pneumatic and electronic networks

The RadiMix system solution with high-efficiency Venturi can be used in both pneumatic and electronic networks. The pneumatic valves regulate the mixing ratio using the vacuum on the Venturi while electronic actuation of the gas valve enables the mixing ratio to be actively adjusted in the electrical composite system. All components are already certified for up to 20 percent hydrogen admixture and are tested by DVGW. ebm-papst is also currently developing a system solution that will allow a mixture of 100 percent hydrogen and air to be burned.

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Photo: RadiMix HS 100 system solution for modern gas condensing units in residential buildings

Photo ebm-papst
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About ebm-papst

The ebm-papst Group, a family-run company headquartered in Mulfingen/Germany, is the world's leading manufacturer of fans and drives. Since the technology company was founded in 1963, it has continuously set the global industry standard with its core competences in motor technology, electronics, digitization and aerodynamics. With over 20,000 products in its portfolio, ebm-papst provides the best energy-efficient, intelligent solution for virtually every ventilation or drive-engineering task.

In fiscal year 2021/22, the "hidden champion" generated revenues of € 2.288 billion. The group employs roughly 15,000 people at 29 production sites (in Germany, China and the USA, to name but a few) and in 51 sales offices worldwide. ebm-papst sets the benchmark with their fan and drive solutions which are used in almost all industries, such as ventilation, air conditioning and refrigeration, heating, automotive, information technology, mechanical engineering, household appliances, intralogistics and medical engineering.

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