

# Advertise digitally, *ventilate and cool effectively.*

Robust, energy-saving tubeaxial fans for digital signage.

**ebmpapst**

the engineer's choice



# About ebm-papst.

ebm-papst is a leader in ventilation and drive engineering technology and a much sought-after engineering partner in many industries. With around 20,000 different products, we have the perfect solution for practically every requirement. We believe the consistent further development of our highly-efficient GreenTech EC technology provides our customers with the best opportunities for the future in industrial digitization. With GreenIntelligence, ebm-papst already offers intelligent networked complete solutions that are unique anywhere in the world today.

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## Six reasons 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 EC technology and GreenIntelligence, we combine the highest energy efficiency with the advantages of IoT and digital networking.

**Closeness to our customers:** at 49 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.

# GreenIntelligence. *Making Engineers Happy.*



Why do our customers look so happy? Because when it comes to the Internet of Things and the digital transformation, we provide them with a clear competitive edge with GreenIntelligence for intelligent control and interconnection of fans, drives and systems to make applications more powerful, processes more efficient, businesses more successful and their customers more satisfied.

**Compact cooling solutions** mainly call for low-noise solutions that cut costs and are simple to install. GreenIntelligence provides you with high-efficiency fan solutions featuring intelligent networking capabilities, including numerous control and monitoring functions and easy-to-use digital tools.

## There is a lot of GreenIntelligence in our tubeaxial fans:

- Expanded functionality for auto-addressing, allowing easier installation
- Simple condition monitoring with intuitive operation
- Full control over all settings and activities
- All necessary hardware and software components from a single supplier



**Laszlo** can fully depend on his cooling capacity remaining constant at all times.

# When advertising becomes an *experience*.

Ongoing digitalization is changing the information and advertising landscape outside the home. Digital signage is everywhere today. It's wherever you go and wherever you look: at the bus stop, in shopping malls, at airports, in train stations and even in schools and restaurants.

It's no surprise, considering that digital billboards offer so many advantages: they can be controlled from a central location and can play audiovisual content on an individual basis and in real time. For this, innovative technology is used to create unique brand experiences, for example by using interactive app and touchscreen solutions, virtual reality and iBeacons, or by integrating mobile devices.

Yet, where there is electricity and electronics, there is also heat that needs to be dissipated. Moisture is another issue: it can enter the housing because of the environment outside. It can also damage the electronics and cause the display to steam up.

Axial and radial fans from ebm-papst provide a remedy by ensuring that the heat loads and moisture are removed effectively. Fans that are installed to the outside of the housing in particular have to withstand harsh environmental factors such as spray water, salt spray and exhaust gases. That's not a problem for ebm-papst fans. Furthermore, they are extremely energy-efficient and quiet: everything that digital billboard manufacturers and operators expect.



# Everything *in mind* ...

Not all fans are the same, and not all displays are the same. Which fan solution is best suited to your application depends on many factors, such as how the heat develops, the environment it will be used in, what its usage profile is and, most importantly, where exactly it is going to be installed. As an engineering partner in demand around the world, we would be happy to develop a customized solution for your application.

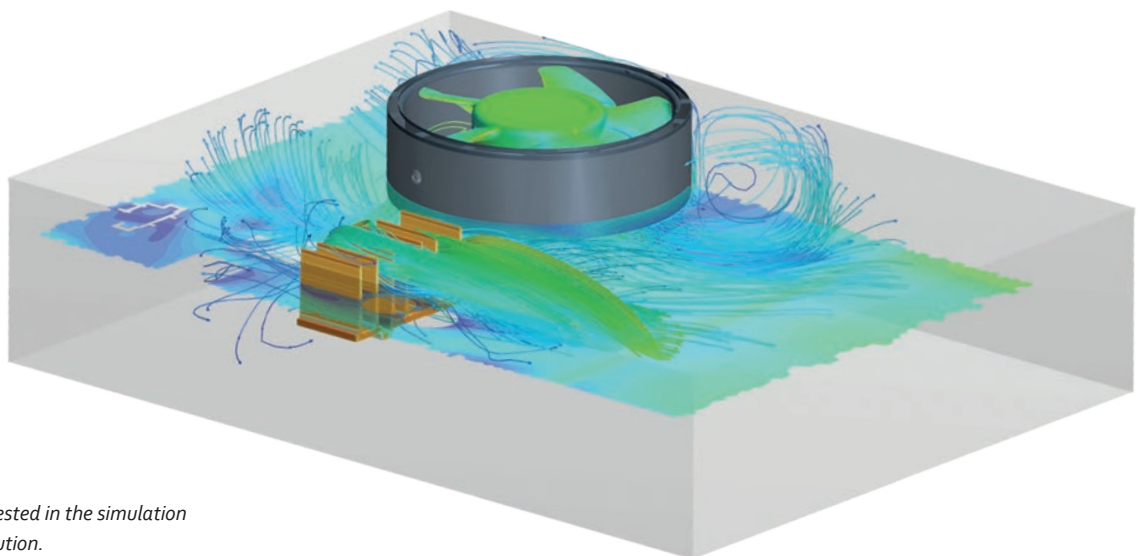
Using your CAD data, we can perform aerodynamic simulations to determine the optimal cooling concept in terms of cooling capacity and noise characteristics. During this process, we will assess both axial and centrifugal concepts, evaluate the advantages and disadvantages and decide with you which cooling concept should be implemented.

When it comes to choosing the right fans, ebm-papst has a uniquely wide range of compact axial and centrifugal fans with the usual AC technology and highly-efficient DC technology. DC fans are particularly good at saving energy and are especially quiet. What's more, they can be individually controlled and monitored thanks to their integrated electronics.

Even harsh environmental conditions are no problem for our tube-axial fans. Available protection certified to IP44, IP54, and up to IP68 is possible. The fans can even be protected against salt spray using our proven methods.

## The advantages of our tubeaxial fans:

- Low noise emissions
- High IP protection possible
- Long service life
- Intelligent solutions
- Robust
- High air performance in small spaces
- Can be used universally for all line voltages between 90 and 264 VAC or 12, 24 and 48 VDC for DC fans
- FanCheck: diagnostic tool for determining the remaining service life



*Different cooling concepts are tested in the simulation to determine the best air distribution.*

# ... to achieve *perfect air management.*

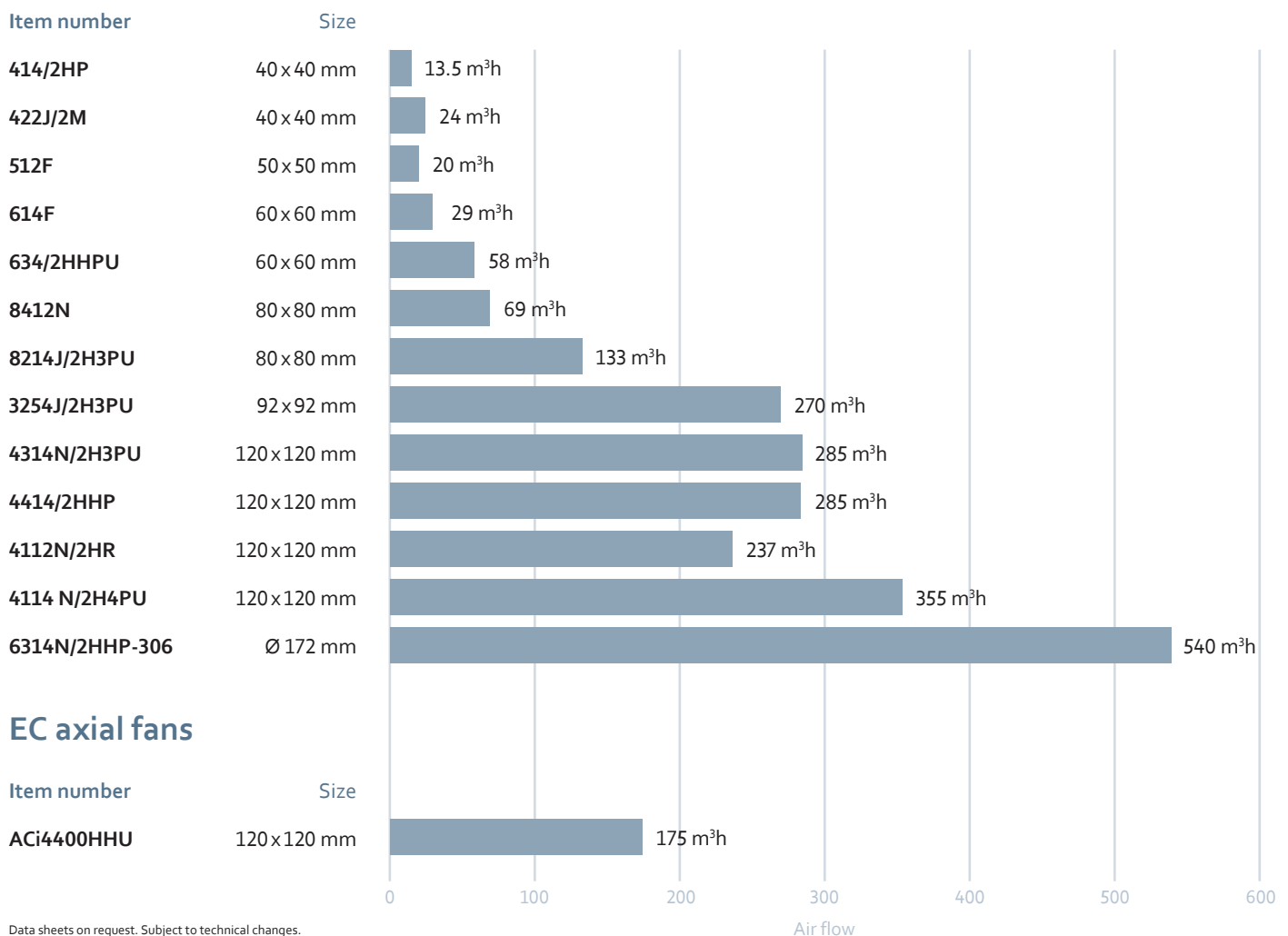


# High performance and compact *in every size.*

Here is a selection of fans that are already used in digital signage.



## DC axial fans



Data sheets on request. Subject to technical changes.

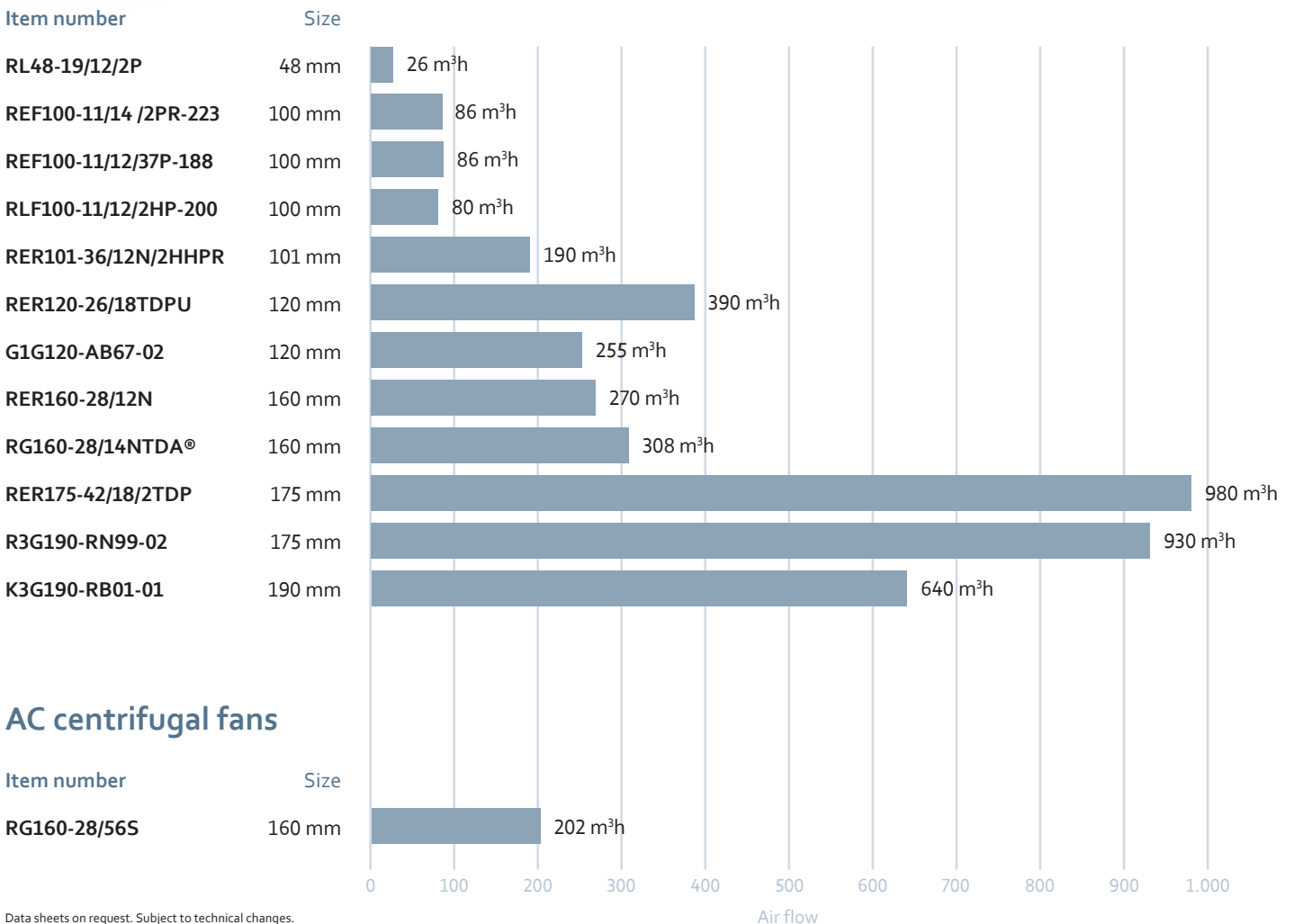


## Would you like more information? Find it here:

For technical queries, please get in touch with your regional sales contact or email [info1@de.ebmpapst.com](mailto:info1@de.ebmpapst.com)

or follow us at: [www.ebmpapst.com](http://www.ebmpapst.com)

## DC centrifugal fans



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