



Hidria
Gonvarri Industries

Big-R

EC Axial Fan

PRODUCT OVERVIEW



Maximum Efficiency. Minimum Energy Loss.

Hidria is an established provider of innovative, energy efficient EC electrical motors and fans for heating, ventilation, refrigeration, and other demanding applications.

Using more than 50 years of engineering expertise, Hidria offers the market innovative, high-tech, and custom-designed fan solutions with optimal flexibility and proven quality.

BIG-R fans are designed to deliver low noise levels, extended service life, and fully integrated connectivity and control.

Their adaptable and flexible design allows easy integration into a wide range of systems and applications.

Above all, BIG-R fans are engineered for high efficiency and significant energy savings, helping reduce operating costs while ensuring reliable, long-term performance.



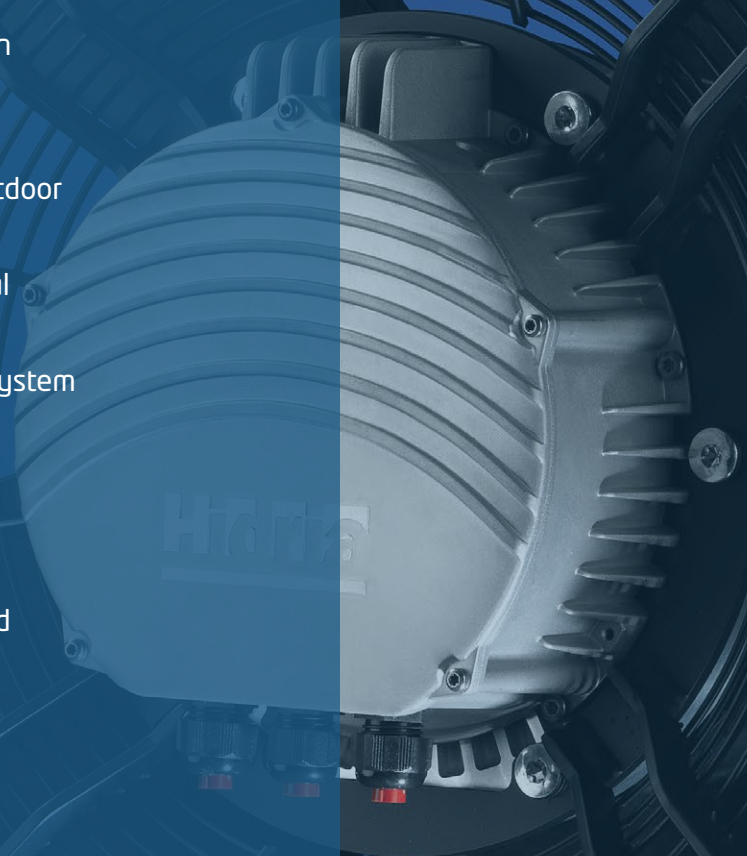


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Features and Advantages

- High-efficiency, energy-saving design
- Low-noise operation for demanding environments
- Reliable performance at elevated outdoor ambient temperatures
- Long service life and high operational reliability
- Integrated connectivity for modern system integration
- Intelligent control functions
- Highly adaptable and flexible configuration options
- Sustainable, environmentally focused solution



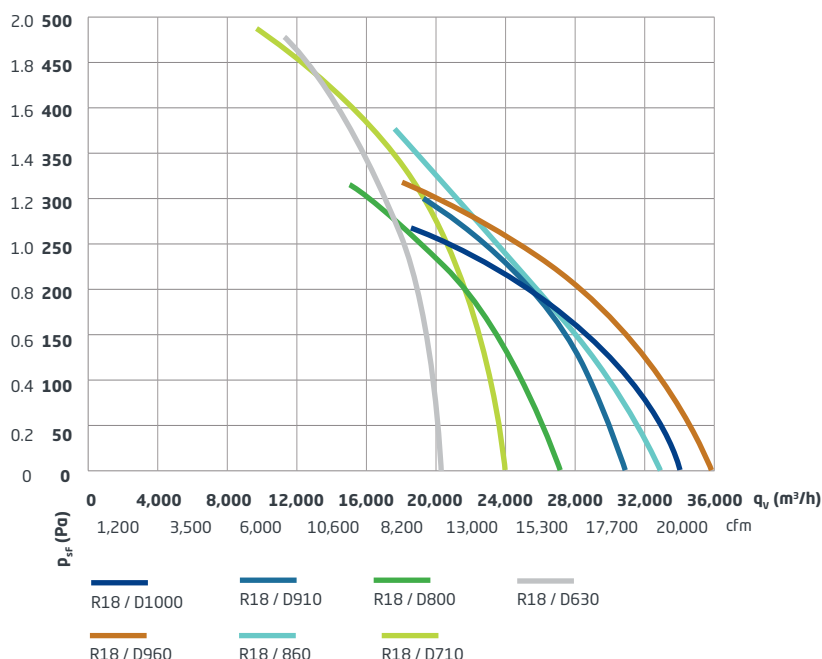
BIG-R Fan Series

630-1000 mm

BIG-R fans feature high-efficiency EC motor technology combined with an optimized axial fan design, developed in-house to deliver superior energy efficiency, quiet operation, and reliable performance over the entire product lifetime.

EC motor family	R18	R18	R18	R18	R18	R18	R18
Diameter range	630 mm	710 mm	800 mm	860 mm	910 mm	960 mm	1000 mm
Motor type (stack height)	90 mm	90 mm	120 mm	120 mm	120 mm	120 mm	120 mm
Nominal voltage	400 V	400 V	400 V	400 V	400 V	400 V	400 V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Nominal speed	1660 Rpm	1660 Rpm	1140 Rpm	1190 Rpm	1130 Rpm	1080 Rpm	955 Rpm
Power input range	3100 W	3400 W	2900 W	3400 W	3000 W	3100 W	2800 W
Max. Air volume (free air flow)	20.000 m³/h	24.000 m³/h	28.000 m³/h	33.000 m³/h	32.000 m³/h	36.000 m³/h	35.000 m³/h
Protection class	IP55	IP55	IP55	IP55	IP55	IP55	IP55
Overall Efficiency	44,9 %	53,50 %	46,3 %	54,40 %	51,4 %	54,90 %	52,3 %
Efficiency grade η	50,7	56,5	52,9	59,3	57,7	60,3	59,1
Insulation class	155	155	155	155	155	155	155
Min. amb. temperature	-35 °C / -31 °F	-35 °C / -31 °F	-35 °C / -31 °F	-35 °C / -31 °F	-35 °C / -31 °F	-35 °C / -31 °F	-35 °C / -31 °F
Max. amb. teperature	65 °C / 149 °F	65 °C / 149 °F	65 °C / 149 °F	60 °C / 140 °F	65 °C / 149 °F	60 °C / 140 °F	65 °C / 149 °F
Speed control options	0-10V, 4-20mA, PWM, MODBUS RTU, NFC						

AD specifications



Modular electronics design

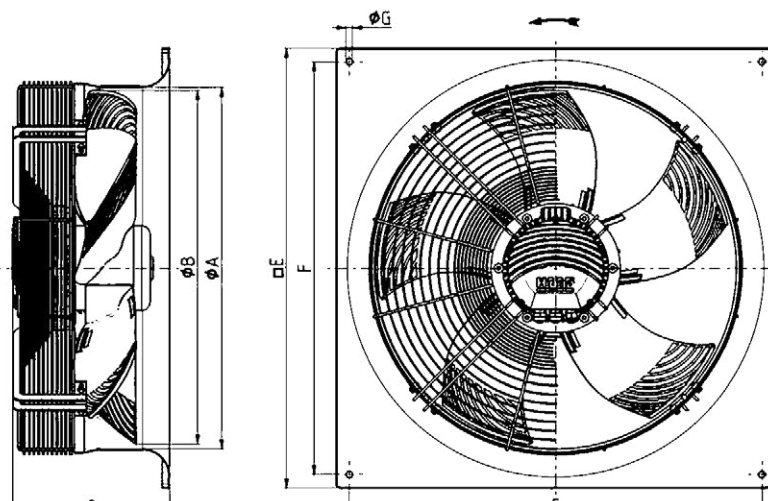
The modular electronics design enables quick, on-site replacement without removing the fan from the system. This significantly simplifies servicing and can reduce total maintenance costs by up to 90%.



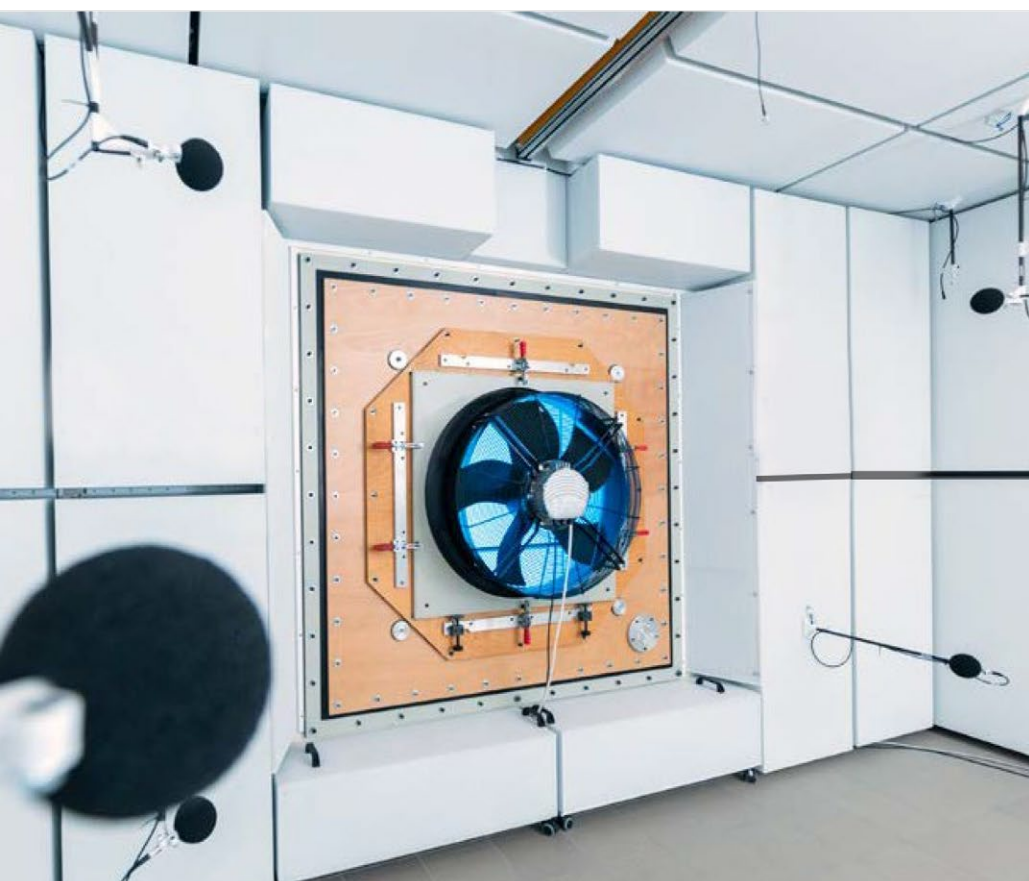
BIG-R Series: Product Overview

Let's reduce energy consumption of your HVAC systems with high-efficient energy saving solution using our newest Axial Fan model BIG-R.

Patented thermal barrier is bringing lower ambient temperature to the electronic zone. Operating temperature of electrical motor can be up to 155 deg. C, while temperature at BIG-R electronic zone is limited to 85 deg. C at the same time. Because of that BIG-R is ready to operate at higher outside ambient temperatures keeping the same electrical insulation



EC motor family	EC R09	EC R10	EC R14	EC R14	EC R14
Diameter range	630	710	800	910	1000
ØA	634	711	797	914	1000
98	626	702	786	904	988
C	282	304	347	352	326
E	805	850	970	1.170	1.170
F	750	810	910	1.110	1.110
ØG	11	14,5	14,5	14,5	14,5



An important mechanical design up-date is introduced into BIG-R solution in order to assure longer life time. New design even exceed forthcoming ERP efficiency requirements.

By robust enlarged solution of ball bearing with larger outside diameter and increased thickness BIG-R has lower radial forces, increased de-balance resistance and it is ready for hard ambient-working conditions.

BIG-R has User Friendly Inverter unit with easy single tool mounting or dismounting. The fan unit it is also NFC (Near Field Communication) ready.

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