

EC Centrifugal Fans

Product overview



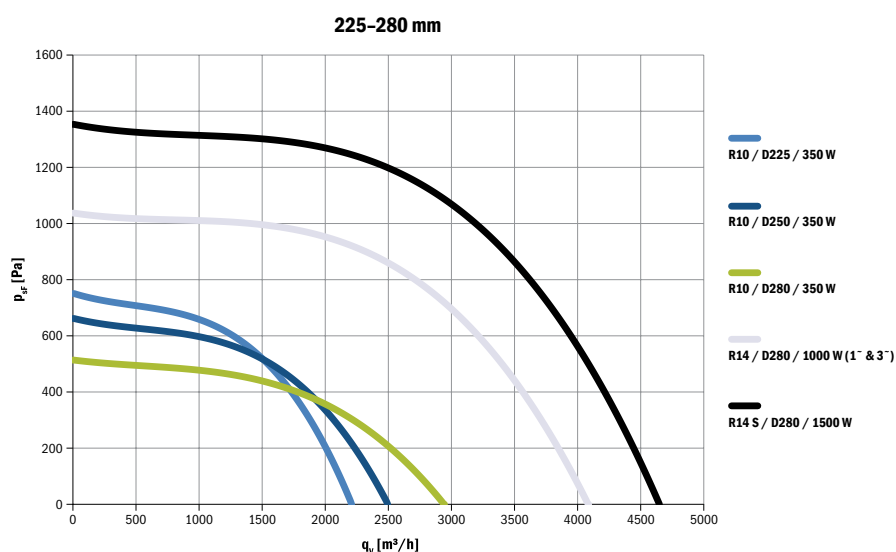
EC Centrifugal Fans

225–280 mm

Hidria EC centrifugal fans with backward curved blades designed for various applications.

EC motor family	R10	R10	R10	R14	R14	R14 S
Diameter range	225 mm	250 mm	280 mm	280 mm	280 mm	280 mm
Nominal voltage	230 V	230 V	230 V	230 V	400 V	400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power input range	350 W	350 W	350 W	1.000 W	1.000 W	1.500 W
Max. air volume (free air flow)	2.200 m ³ /h	2.500 m ³ /h	3.000 m ³ /h	4.200 m ³ /h	4.200 m ³ /h	4.600 m ³ /h
Protection class	IP54	IP54	IP54	IP54	IP54	IP54
Insulation class	B	B	B	B	B	B
Min. amb. temperature	-25 °C	-25 °C	-25 °C	-25 °C	-25 °C	-25 °C
Max. amb. temperature	+40 °C	+40 °C	+40 °C	+55 °C	+55 °C	+55 °C
Speed control options	0-10V, 4-20 mA, PWM, MODBUS RTU					

AD specifications



Compact design

Safe, simple and compact design that enables easy installation and optimal performance of the entire assembly. Compact design does not only enable its balanced performance, but also saves space compared to conventional inverter driven fans.



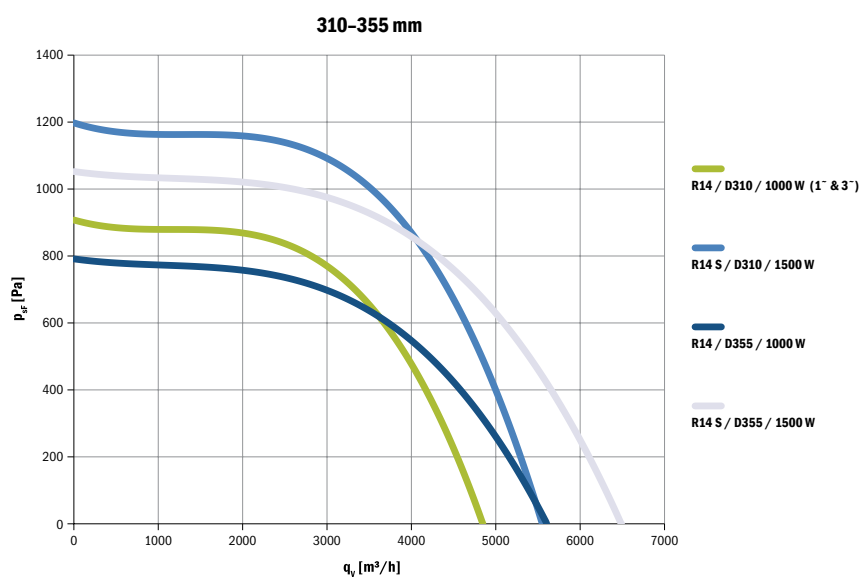
EC Centrifugal Fans

310–355 mm

Hidria EC centrifugal fans offer maximum operational reliability and performance, low operating costs and low environmental pollution through continuous speed control.

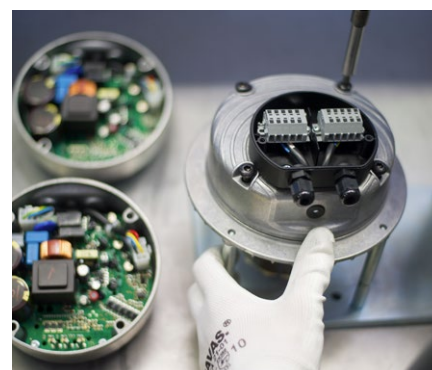
EC motor family	R14	R14	R14 S	R14	R14 S
Diameter range	310 mm	310 mm	310 mm	355 mm	355 mm
Nominal voltage	230 V	400 V	400 V	400 V	400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power input range	1.000 W	1.000 W	1.500 W	1.000 W	1.500 W
Max. air volume (free air flow)	4.900 m ³ /h	4.900 m ³ /h	5.560 m ³ /h	5.600 m ³ /h	6.500 m ³ /h
Protection class	IP54	IP54	IP54	IP54	IP54
Insulation class	B	B	B	B	B
Min. amb. temperature	-25 °C	-25 °C	-25 °C	-25 °C	-25 °C
Max. amb. temperature	+55 °C	+55 °C	+55 °C	+55 °C	+55 °C
Speed control options	0-10V, 4-20 mA, PWM, MODBUS RTU				

AD specifications



EC motor with integrated electronics

Industry latest speed control options and highly efficient performance of the synchronized motor-electronics combination. Testing of EC fans after production and traceability of each electronic during complete process.



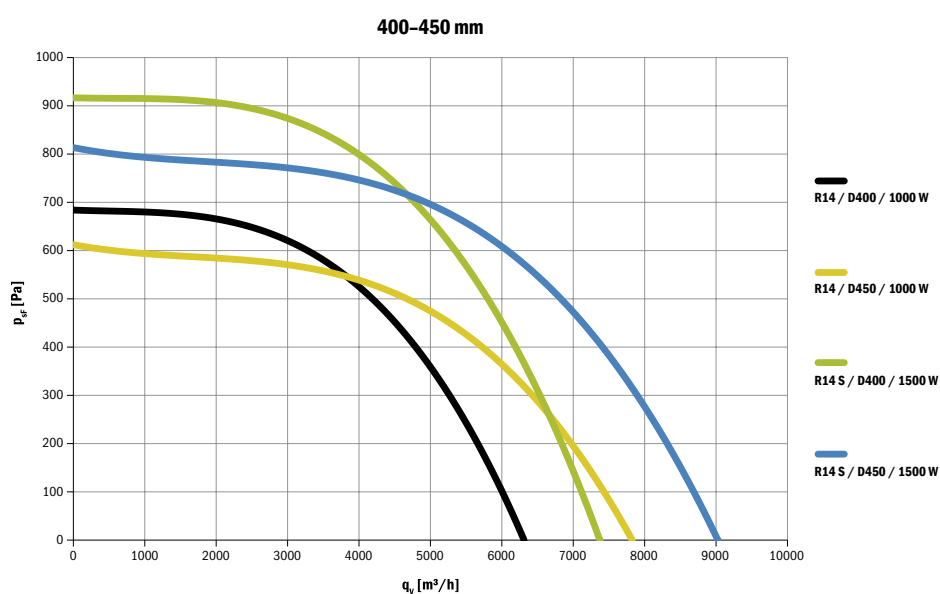
EC Centrifugal Fans

400–450 mm

All production processes for the electronics as well as its programming, testing and installation, are performed in a clean room in which the ESD safety standards are observed.

EC motor family	R14	R14 S	R14	R14 S
Diameter range	400 mm	400 mm	450 mm	450 mm
Nominal voltage	400 V	400 V	400 V	400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power input range	1.000 W	1.500 W	1.000 W	1.500 W
Max. air volume (free air flow)	6.300 m ³ /h	7.400 m ³ /h	7.800 m ³ /h	9.000 m ³ /h
Protection class	IP54	IP54	IP54	IP54
Insulation class	B	B	B	B
Min. amb. temperature	-25 °C	-25 °C	-25 °C	-25 °C
Max. amb. temperature	+55 °C	+55 °C	+55 °C	+55 °C
Speed control options	0-10V, 4-20 mA, PWM, MODBUS RTU			

AD specifications



Carefully selected components

External rotor motor design allows high efficiency impeller to be installed directly on the rotor. In addition, the entire motor-impeller assembly is supported with the corrosion resistant support brackets and inlet nozzle that offers the most optimal intake and distribution of the air-flow.



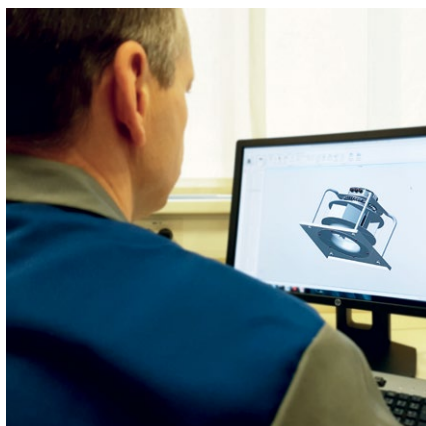
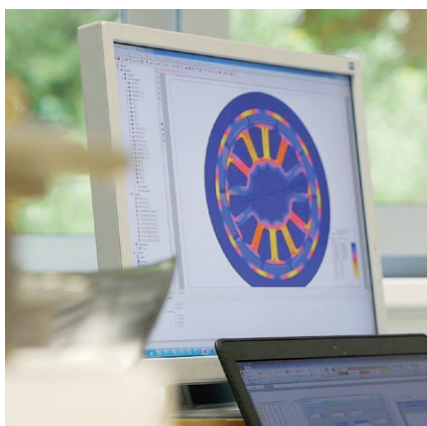
Hidria

quality and innovation
assurance

Through more than **45 years of tradition**, the company Hidria Rotomatika has established its process of innovation and quality assurance. With the help of a highly sophisticated and equipped R&D team, we are able to deliver solutions that achieve the most optimal performance for their applications.

As a development supplier, we pay special attention to several factors that play an important role in the production and development of our products. Our solutions are supported by our own R&D staff, laboratories and production facilities, which contribute to the quality of the final product.

Through the development process, we test our fans under different conditions in order to achieve their maximum performance and quality. Field tests are also an important part of this process, during which we run our fans in a test area where they are exposed to harsh environmental influences through the whole year. This way our fans are tested under real environmental conditions.



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