

# EC Centrifugal Fans

Product overview



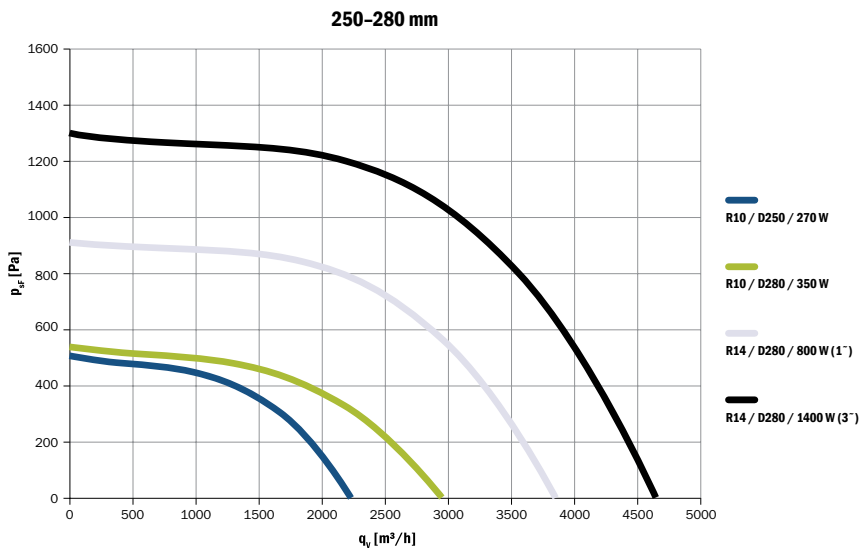
# EC Centrifugal Fans

## 250–280 mm

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

EC motor family	R10	R10	R14	R14
Diameter range	250 mm	280 mm	280 mm	280 mm
Nominal voltage	230 V	230 V	230 V	400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power input range	270 W	350 W	800 W	1.400 W
Max. air volume (free air flow)	2.300 m <sup>3</sup> /h	2.900 m <sup>3</sup> /h	3.700 m <sup>3</sup> /h	4.600 m <sup>3</sup> /h
Protection class	IP54	IP54	IP54	IP54
Insulation class	B	B	B	F
Min. amb. temperature	-25 °C	-25 °C	-25 °C	-25 °C
Max. amb. temperature	+65 °C	+55 °C	+60 °C	+60 °C
Speed control options	0-10V, 4-20 mA, PWM, MODBUS RTU			

### AD specifications



### Integrated connectivity and control – Motion concept

NFC and Bluetooth connectivity built-in for wireless connectivity, with preventive maintenance readiness. User friendly inverter unit allows for easy (single tool) mounting/dismounting of the complete inverter unit.



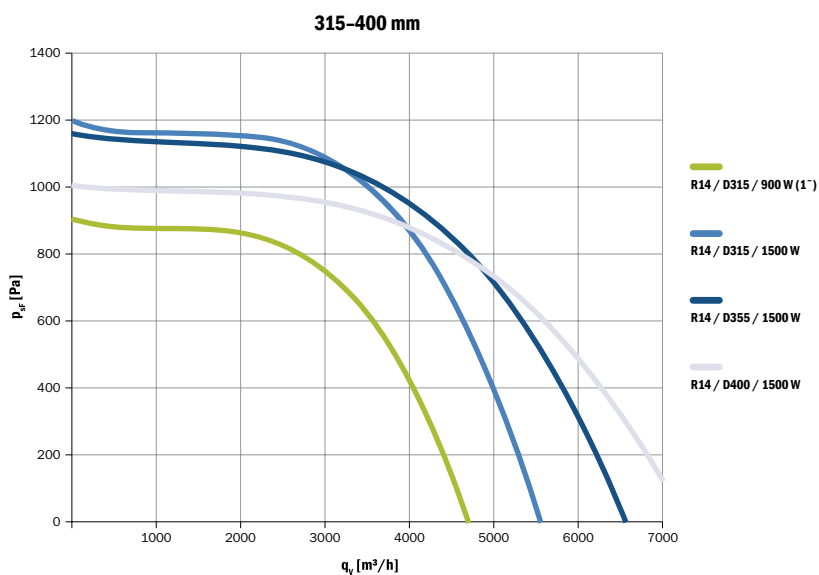
# EC Centrifugal Fans

## 315–400 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	R14
Diameter range	315 mm	315 mm	355 mm	400 mm
Nominal voltage	230 V	400 V	400 V	400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power input range	900 W	1.500 W	1.500 W	1.500 W
Max. air volume (free air flow)	4.600 m <sup>3</sup> /h	5.400 m <sup>3</sup> /h	6.500 m <sup>3</sup> /h	7.700 m <sup>3</sup> /h
Protection class	IP54	IP54	IP54	IP54
Insulation class	B	F	F	F
Min. amb. temperature	-25 °C	-25 °C	-25 °C	-25 °C
Max. amb. temperature	+50 °C	+55 °C	+60 °C	+60 °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.



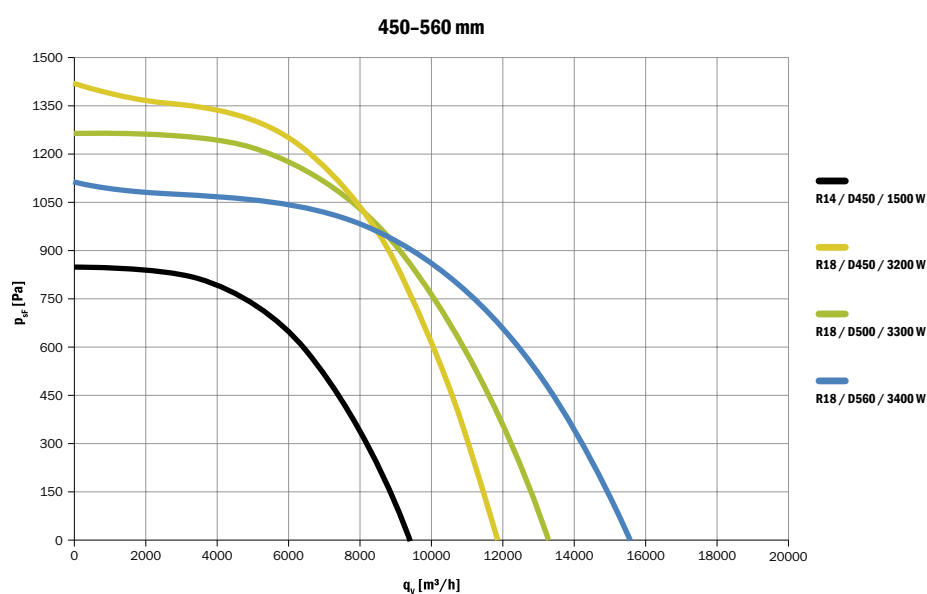
# EC Centrifugal Fans

## 450–560 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	R18	R18	R18
Diameter range	450 mm	450 mm	500 mm	560 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	1.500 W	3.200 W	3.300 W	3.400 W
Max. air volume (free air flow)	9.100 m <sup>3</sup> /h	11.700 m <sup>3</sup> /h	13.100 m <sup>3</sup> /h	15.300 m <sup>3</sup> /h
Protection class	IP54	IP55	IP55	IP55
Insulation class	F	F	F	F
Min. amb. temperature	-25 °C	-25 °C	-25 °C	-25 °C
Max. amb. temperature	+55 °C	+60 °C	+60 °C	+60 °C
Speed control options	0-10V, 4-20 mA, PWM, MODBUS RTU			

### AD specifications



### Innovative design – patented motor cooling

Besides other innovative solutions implemented to our fans one of the most advanced is patented motor cooling which assure lower temperature at the electronic zone. This consequently increase reliability and life time of the fans.



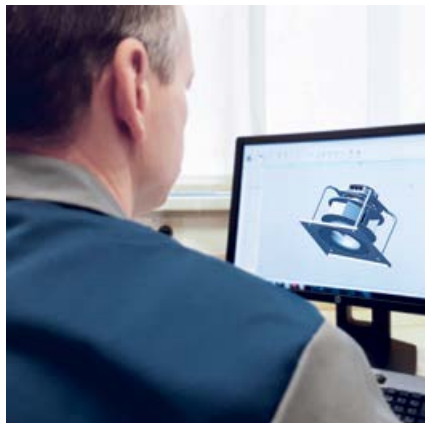
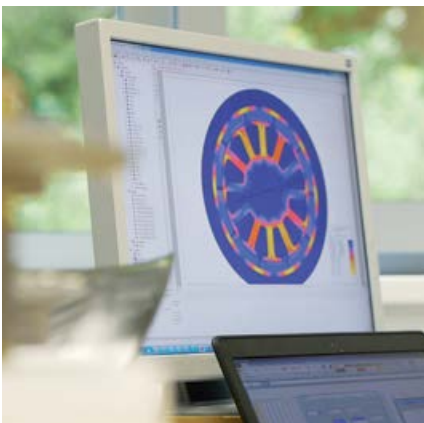
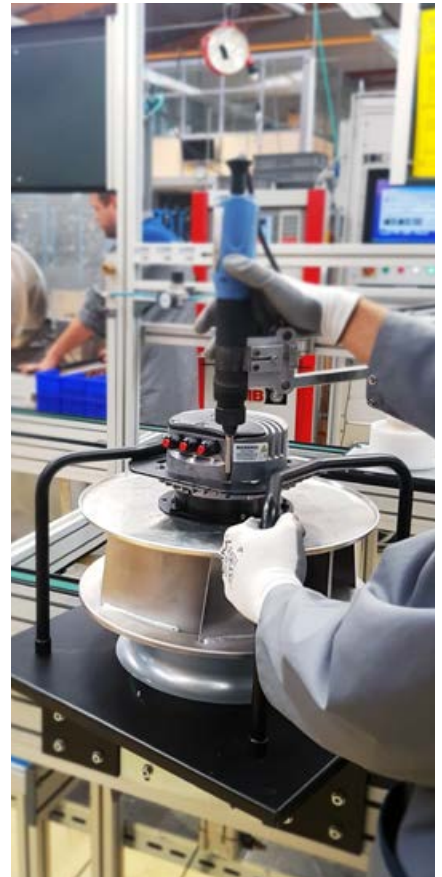
# Hidria

## quality and innovation assurance

Through more than **50 years of tradition**, the company Hidria has become an established provider of innovative energy-efficient AC and EC electrical motors and fans for heating, ventilation, air-conditioning, refrigeration and other 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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