

EC Centrifugal Fans

Product overview



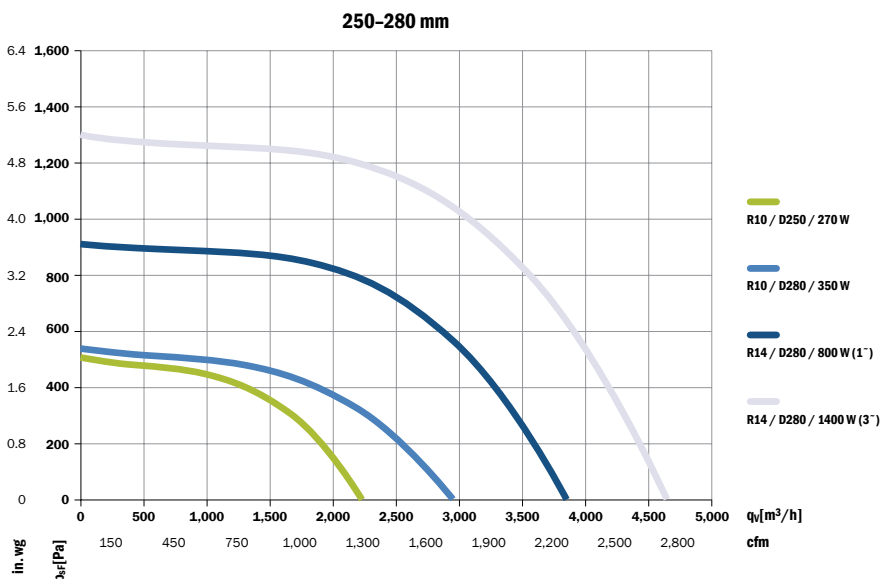
EC Centrifugal Fans

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 ³ /h	2.900 m ³ /h	3.700 m ³ /h	4.600 m ³ /h
Protection class	IP54	IP54	IP54	IP54
Insulation class	B	B	B	F
Min. amb. temperature	-25 °C / -13 °F	-25 °C / -13 °F	-25 °C / -13 °F	-25 °C / -13 °F
Max. amb. temperature	65 °C / 149 °F	55 °C / 131 °F	60 °C / 140 °F	60 °C / 140 °F
Speed control options	0-10 V, 4-20 mA, PWM, MODBUS RTU			

AD specifications



Integrated connectivity and control – Motion concept

Using the free Hidria Fan App, available for iOS and Android mobile devices, and NFC connection to the fan, the user can freely set key parameters of the fan and monitor its operation. Based on the collected data, we can easily perform an analysis of the operation and predict the remaining life of the fan. The full functionality of the Fan App is achieved with the option of fan refurbishment, as using the Hidria Fan App it is possible to easily transfer the parameter settings of the worn-out electronics to the newly installed EC fan electronics.



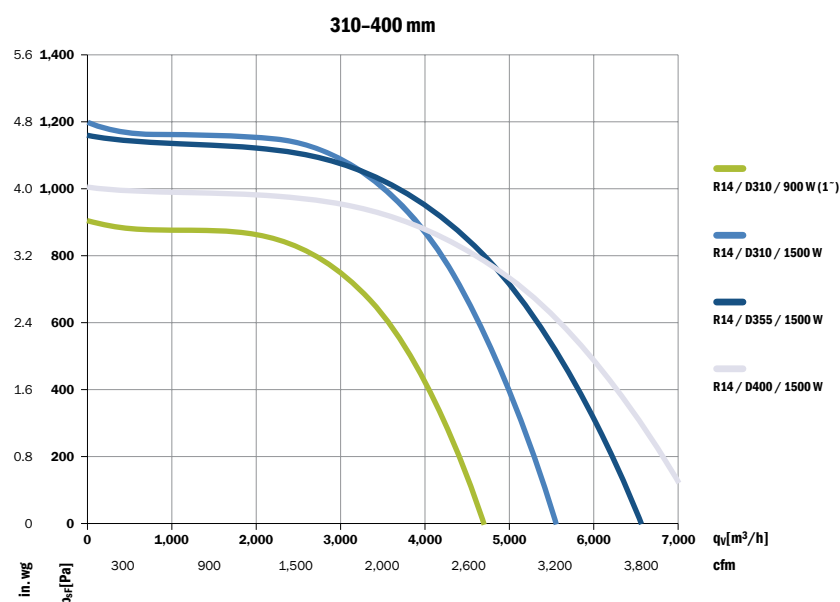
EC Centrifugal Fans

310–400 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	310 mm	310 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 ³ /h	5.400 m ³ /h	6.500 m ³ /h	7.700 m ³ /h
Protection class	IP54	IP54	IP54	IP54
Insulation class	B	F	F	F
Min. amb. temperature	-25 °C / -13 °F	-25 °C / -13 °F	-25 °C / -13 °F	-25 °C / -13 °F
Max. amb. temperature	50 °C / 122 °F	55 °C / 131 °F	60 °C / 140 °F	60 °C / 140 °F
Speed control options	0-10 V, 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.



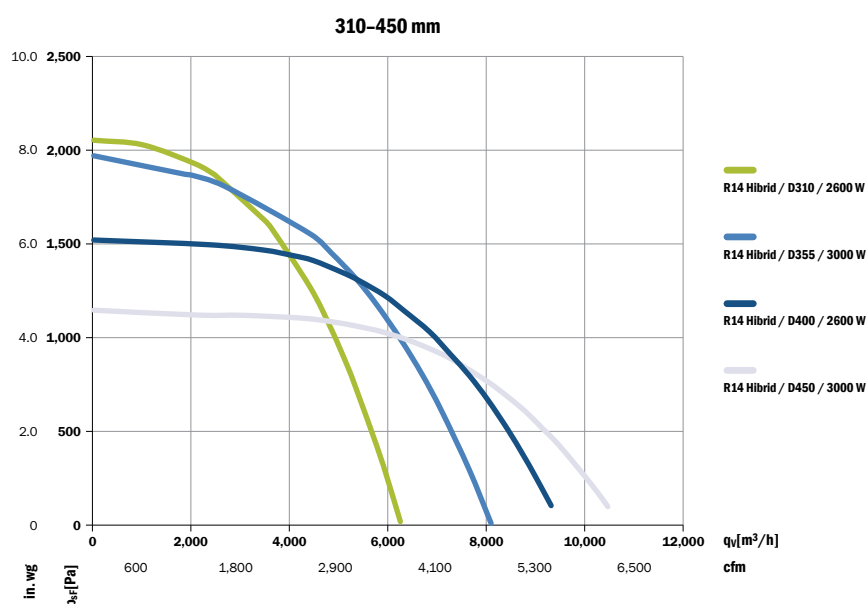
EC Centrifugal Fans R14S

310–450 mm

Additional R14 Supreme range is developed to reach higher performance and aerodynamic characteristic of R14 motor range with optimized and competitive price of fan. Very suitable for compact and modular AHU, data cooling centers AHU, ventilation boxes and other HVAC applications.

EC motor family	R14 S	R14 S	R14 S	R14 S
Diameter range	310 mm	355 mm	400 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	2.600 W	3.000 W	3.000 W	2.600 W
Max. air volume (free air flow)	6.300 m ³ /h	8.200 m ³ /h	9.700 m ³ /h	10.600 m ³ /h
Protection class	IP55	IP55	IP55	IP55
Insulation class	F	F	F	F
Min. amb. temperature	-25 °C / -13 °F	-25 °C / -13 °F	-25 °C / -13 °F	-25 °C / -13 °F
Max. amb. temperature	40 °C / 104 °F	40 °C / 104 °F	40 °C / 104 °F	40 °C / 104 °F
Speed control options	0-10 V, 4-20 mA, PWM, MODBUS RTU			

AD specifications



Integrated powerful electronic control R18

Fan wall solution allows use in extreme high AD applications demand, supported with a lot of different versions available, with or without plate and brackets.

Version for higher ambient temperature application with additional motor cooling solution is available.



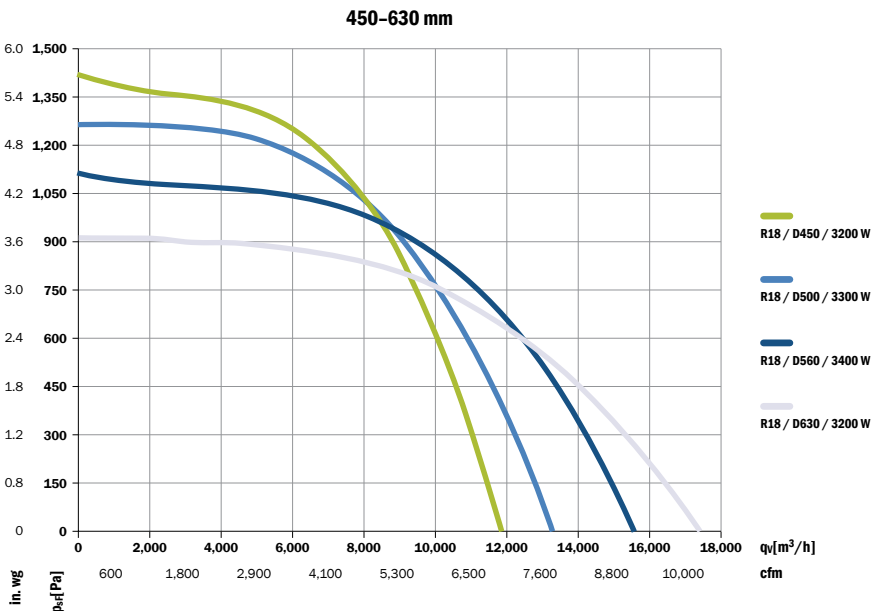
EC Centrifugal Fans

450–630 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	R18	R18	R18	R18
Diameter range	450 mm	500 mm	560 mm	630 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	3.200 W	3.300 W	3.400 W	3.200 W
Max. air volume (free air flow)	11.700 m³/h	13.100 m³/h	15.300 m³/h	17.400 m³/h
Protection class	IP55	IP55	IP55	IP55
Insulation class	F	F	F	F
Min. amb. temperature	-25 °C / -13 °F	-25 °C / -13 °F	-25 °C / -13 °F	-25 °C / -13 °F
Max. amb. temperature	60 °C / 140 °F	60 °C / 140 °F	60 °C / 140 °F	50 °C / 122 °F
Speed control options	0-10 V, 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.



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