

EC Centrifugal Fans

Product overview

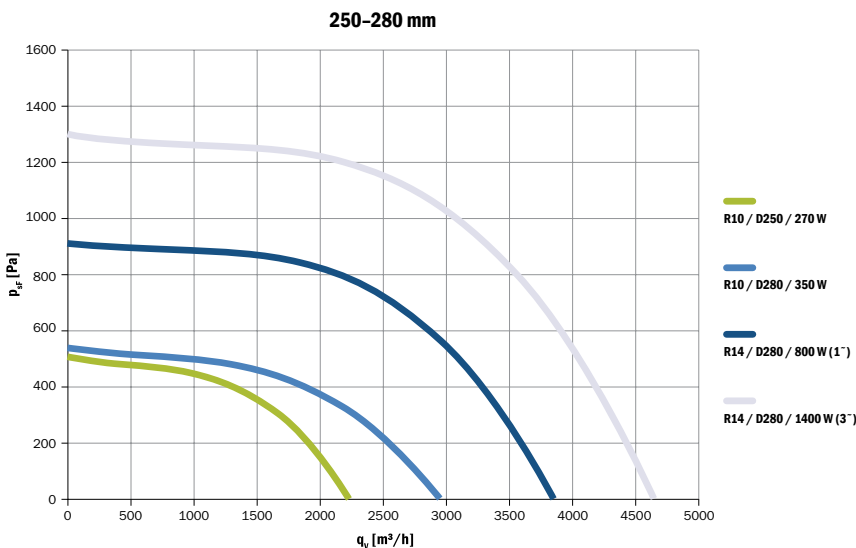


EC Centrifugal Fans 250–280 mm

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	-25 °C	-25 °C	-25 °C
Max. amb. temperature	+65 °C	+55 °C	+60 °C	+60 °C
Speed control options	0-10 V, 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.



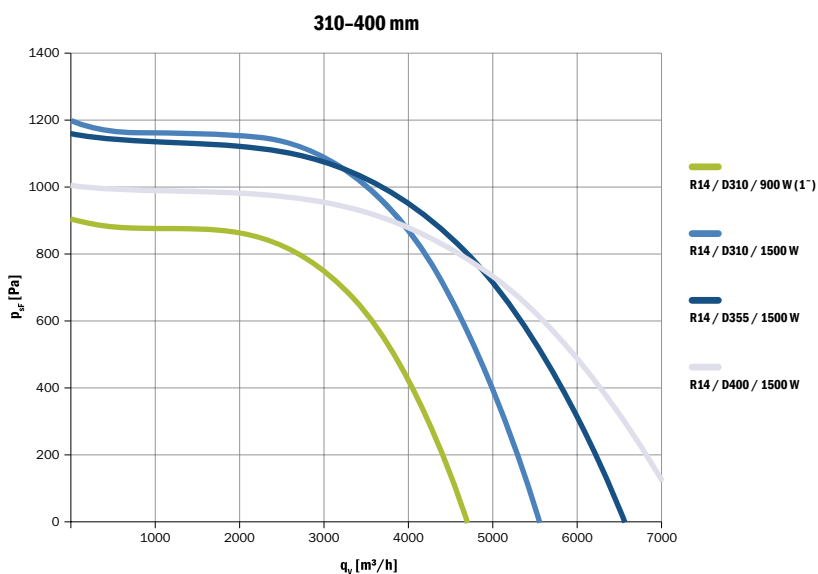
EC Centrifugal Fans

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	-25 °C	-25 °C	-25 °C
Max. amb. temperature	+50 °C	+55 °C	+60 °C	+60 °C
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.



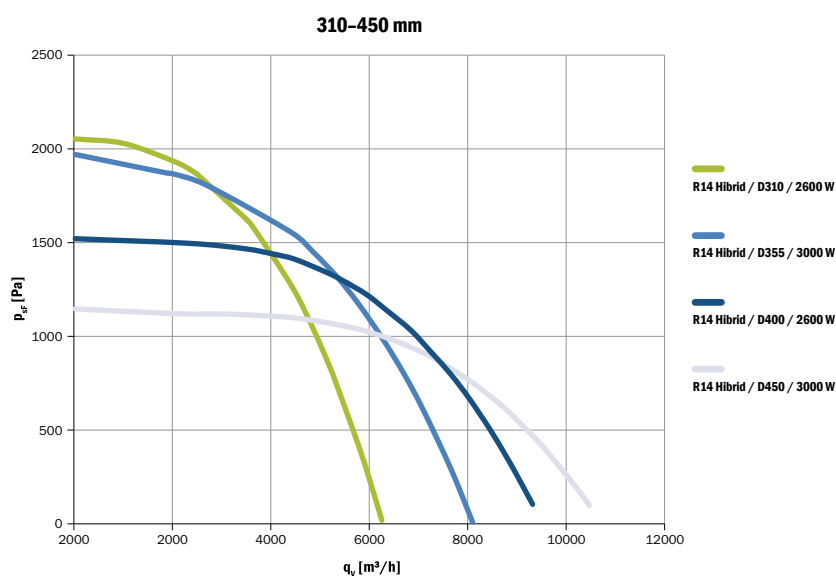
EC Centrifugal Fans R14S

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	-25 °C	-25 °C	-25 °C
Max. amb. temperature	+40 °C	+40 °C	+40 °C	+40 °C
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.



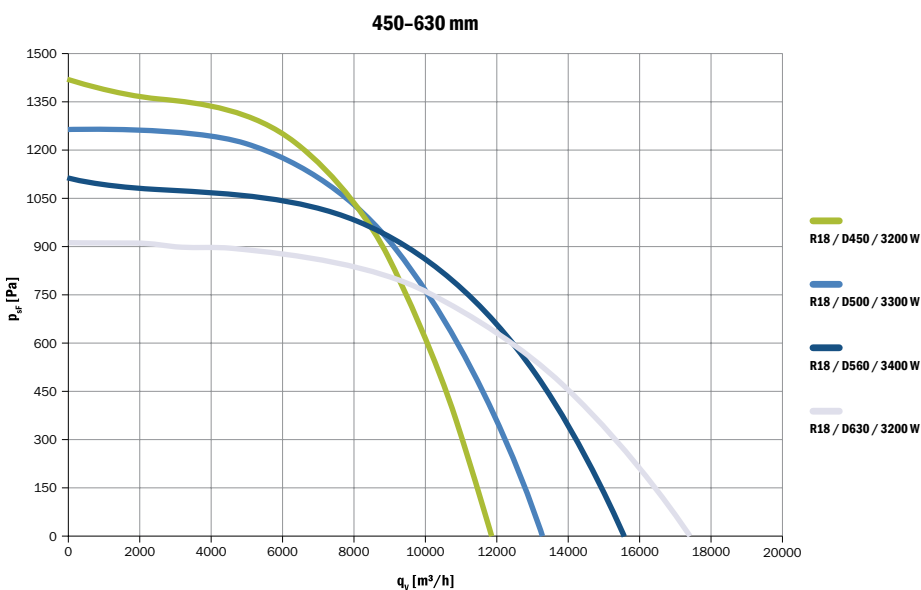
EC Centrifugal Fans

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 m ³ /h	13.100 m ³ /h	15.300 m ³ /h	17.400 m ³ /h
Protection class	IP55	IP55	IP55	IP55
Insulation class	F	F	F	F
Min. amb. temperature	-25 °C	-25 °C	-25 °C	-25 °C
Max. amb. temperature	+60 °C	+60 °C	+60 °C	+50 °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.



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