

Hidria Movent

Fans for Heat Pumps

**Ready for natural
refrigerant**



EC axial fans that are specially designed to meet the highest acoustic, energy efficient and environmental performances of all air to water heat pumps.

EC R09, R10

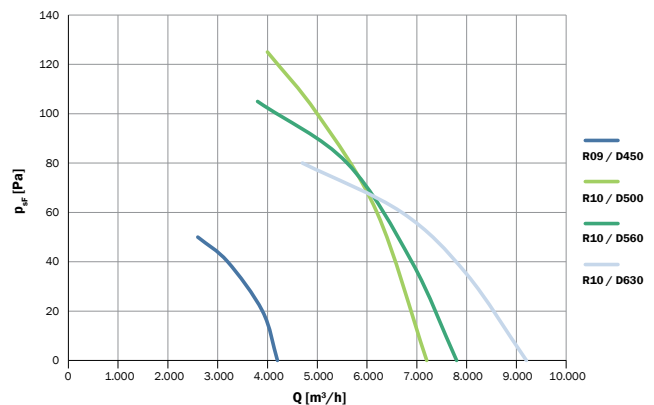
New motor drive, blade, electronic, latest field oriented control (FOC). Electronically protected, MODBUS-RTU generation 6.0. Suitable for natural flammable refrigerant in line with F-gas regulations.



Product specifications:

- Diameter from \varnothing 450–630 mm
- Power range up to 300 W
- Supply voltage: 1~ 200–240 V, 50/60 Hz
- Air volume: up to 9,000 m³/h
- Speed control options: 0–10 V, 4–20 mA, PWM, MODBUS RTU
- Built-in PID controller and active power factor correction unit (PFC)
- High overall efficiency
- Low in-rush current
- Compliant with directives: ErP 327/2011, RoHS, REACH ...
- Compliant with the applicable residential and industrial safety standards (EMC & LVD)
- Working ambient temperatures: -25 °C (-40 °C) to +65 °C
- Storage temperatures: -40 °C to +80 °C
- High protection class IP 54
- Low operating noise level (innovative blade design)
- Optimized heat distribution (special layout of electronics and additional cooling ribs on the motor housing)
- Long service life expectancy
- Low energy consumption

Basic performance data:



EC motor family	R09	R10	R10	R10
Diameter range	D450	D500	D560	D630
Nominal voltage [V]	230	230	230	230
Frequency [Hz]	50/60	50/60	50/60	50/60
Power input range [W]	90-110	85-330	105-240	100-280
Max. air volume [m ³ /h]	4.200	7.200	7.800	9.200
Protection class	IP54	IP54, IP55	IP54	IP54
Insulation class	B	B	B, F	B
Min. amb. Temperature [°C]	-25	-25	-25	-30
Max. amb. Temperature [°C]	60	65	65	65
Speed control options	0-10 V, 4-20 mA, PWM, MODBUS RTU	0-10 V, 4-20 mA, PWM, MODBUS RTU	0-10 V, 4-20 mA, PWM, MODBUS RTU	0-10 V, 4-20 mA, PWM, MODBUS RTU



Highly skilled and well equipped R&D team is ready to support your development and production of heat pumps from the early design to final installation.



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