# Hidria Movent Fans for Heat Pumps





reddot award 2014 winner industrial design

## 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 R10

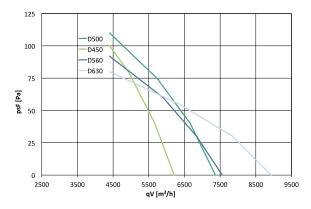
A compact, efficient and energy saving product with premium acoustic performance.

#### **Product specifications:**

Low energy consumption

| Diameter from ø 450-630 mm   |
|--|
| Power range up to 300 W  |
| Supply voltage: 1~ 200-240 V, 50/60 Hz   |
| Air volume: up to 9,000 m <sup>3</sup> /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   |
|  |

Basic performance data:





#### Standard features:

- corrosion level: C3 high;
- double layer painted guard grill;
- inox screws;
- connection options: conn. box or cable out;
- air flow direction: blowing or sucking.

## EC R14

The latest hybrid sensor & sensorless motor control with reliable start-up and modular blade design.

#### Product specifications:

Diameter from ø 500-800 mm (910 mm optional)

Power range: 900 W (1 ph. ver.) up to 1.200 W (3 ph. ver.)

Supply voltage: 1~ 200–265 V, 50/60 Hz with active PFC or 3~ 380–480 V, 50/60 Hz with passive PFC

Air volume: up to 18,000 m<sup>3</sup>/h

Speed control options: 0-10 VDC, 4-20 mA, PWM, MODBUS RTU

Compliant with directives: ErP 327/2011, RoHS, REACH ...

Compliant with the applicable residential and industrial safety standards (EMC & LVD)

High protection class IP 54

Working ambient temperatures: -25 °C (-40 °C) to +65 °C

Storage temperatures: -40 °C to +80 °C

High overall efficiency

Low operating noise level with innovative sucking/blowing blade design

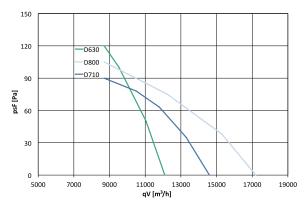
Optimized heat distribution (special layout of electronics and additional cooling ribs on the motor housing)

Long service life expectancy

Low energy consumption



#### **Basic performance data:**





#### Additional features:

- protected motor cover and flange (corrosion level: C5);
- executions for flammable refrigerants (e.g. propane);
- custom colours for the housing, grill, wall-plate and cable glands;
- CW and CCW rotation in a single execution;
- complete customer support (measurements in the customer's applications, consulting on optimal fan installations etc.);
- off shore version on request.





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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