



whisperTECH450

Designed to make appliances quieter

whisperTECH450

SILENT, COMPETITIVE, WITH EUROPEAN AND JAPANESE QUALITY

The market for residential heat pumps, including hybrid versions, is growing steadily.

New standards demand an increasingly higher energy class, **driving** the use of **environmentally friendly refrigerants** such as R290 in new generations of heat pumps.

Noise pollution is a key factor for heat pump manufacturers, particularly due to their location of installation, such as private homes or residential areas.

whisperTECH450 with a **three-blade design** has been developed to **make heat pumps quieter**.





AERODYNAMIC DESIGN

Three-blade geometry is optimized to guarantee high performance **reducing turbulence** and thus **noise level**.



HIGH POWER

PMSM (permanent magnet synchronous motor)
Internal rotor ensures a **wide range of operating speeds** and **quiet motion** during product life thanks to the **anti vibration rubber integrated rotor**.



FLEXIBLE FEATURES

Freedom to choose among different features:
power supply, motor control and **accessories**.



BLADE GEOMETRY

Three-blade geometry to ensure low noise optimized to guarantee high performance **reducing turbulence** and thus **noise level**.



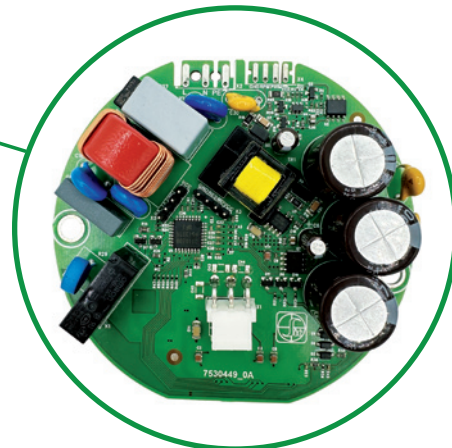


Panasonic
INDUSTRY

PANASONIC INDUSTRY MOTOR

The noise is also under control thanks to:

- patented **anti-vibration rubber** integrated rotor to **reduce resonance**
- **10 pole structure** (state-of-the-art) for **high efficiency** and **low noise/vibration**.



MOTOR CONTROL ELECTRONICS

State-of-the-art **motor control electronics**, thanks to SIT's experience over the years to fully guarantee **high performance**, **efficiency** and **flexible communication modes**.

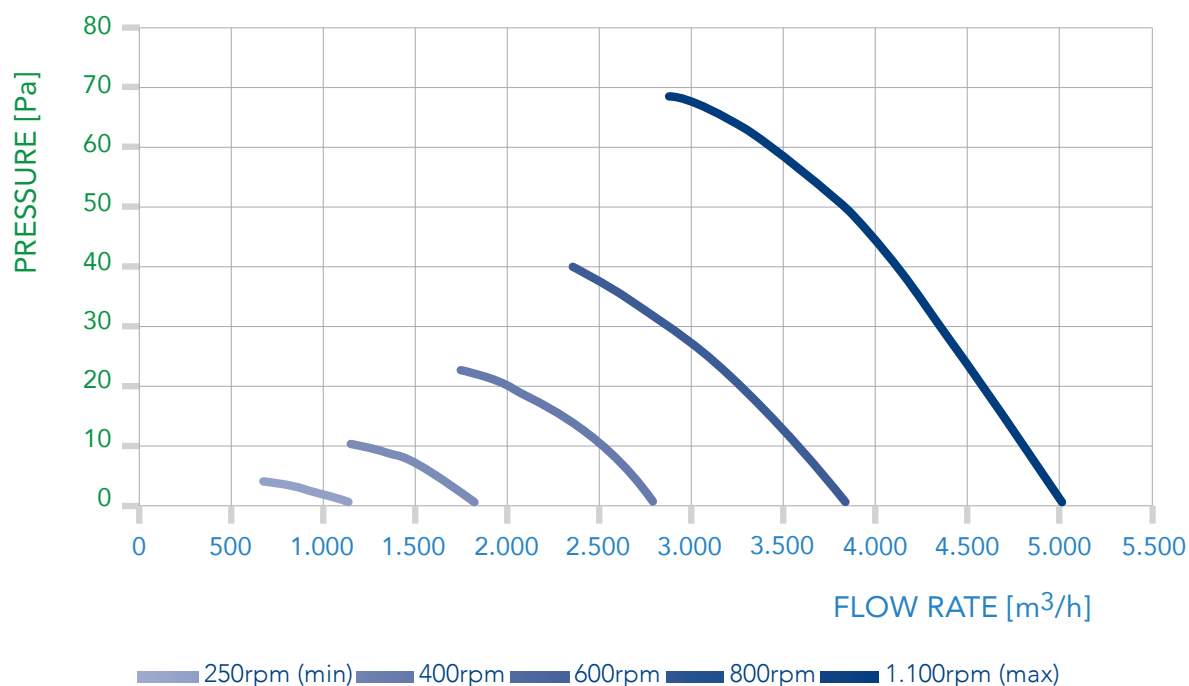
The data refers to the version with **230V AC power supply**.

For further details on the version with a **325V DC power supply**, please refer to the product datasheet.

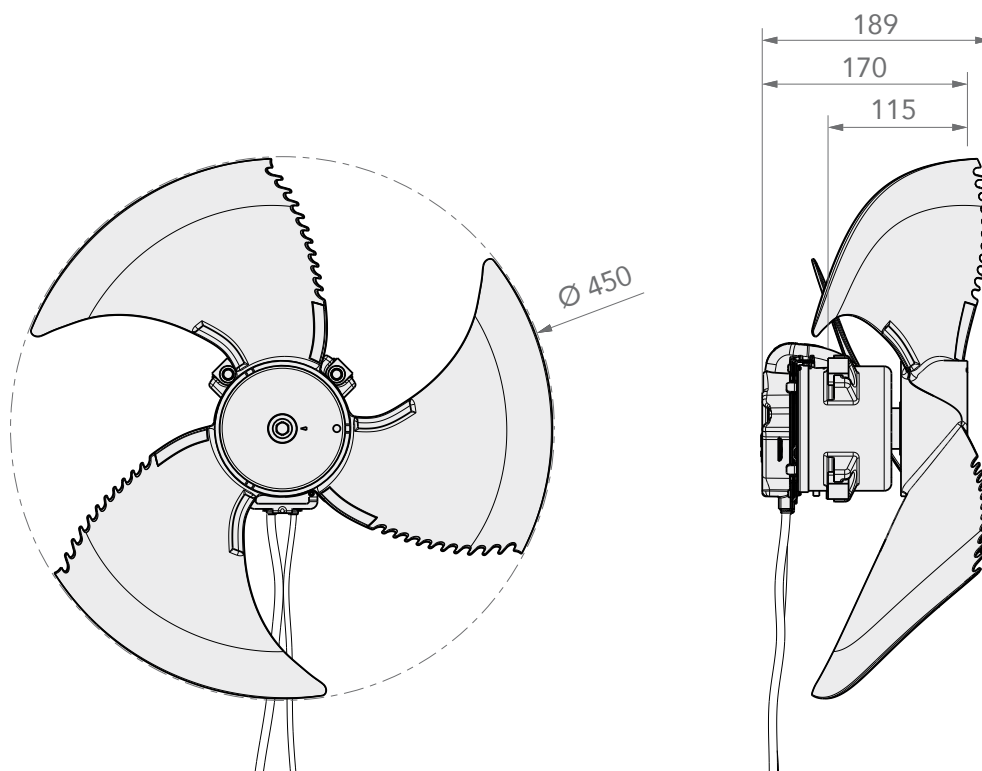
TECHNICAL DATA

Impeller diameter	450 mm, 3 blades, noise optimized
Motor type	PMSM Internal rotor
Electronics	FOC. Sensorless. uP based
Controls	0-10V, PWM or bi-directional digital bus (on request)
Noise level	50 dB(A) at 3.200 m ³ /h – 30 Pa (Lw(A))
Max/Min Speed	1.100/250 rpm
Power supply	230V AC - 50/60 Hz or 325V DC
Motor Power	175 W
Protection degree	IP54
Allowed refrigerant	All refrigerants in use included R290
Operating temperature	-25 ÷ 60 °C
Compliant	CE, IEC 60335-1, IEC 60335-2-40

FLOW RATE-PRESSURE CHARACTERISTICS



DIMENSIONS



PRODUCT CONFIGURATION

Full range of versions available:



standard



with grid



with grid and nozzle*

*Design for demonstration purposes only



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