

# Enervent Pingvin

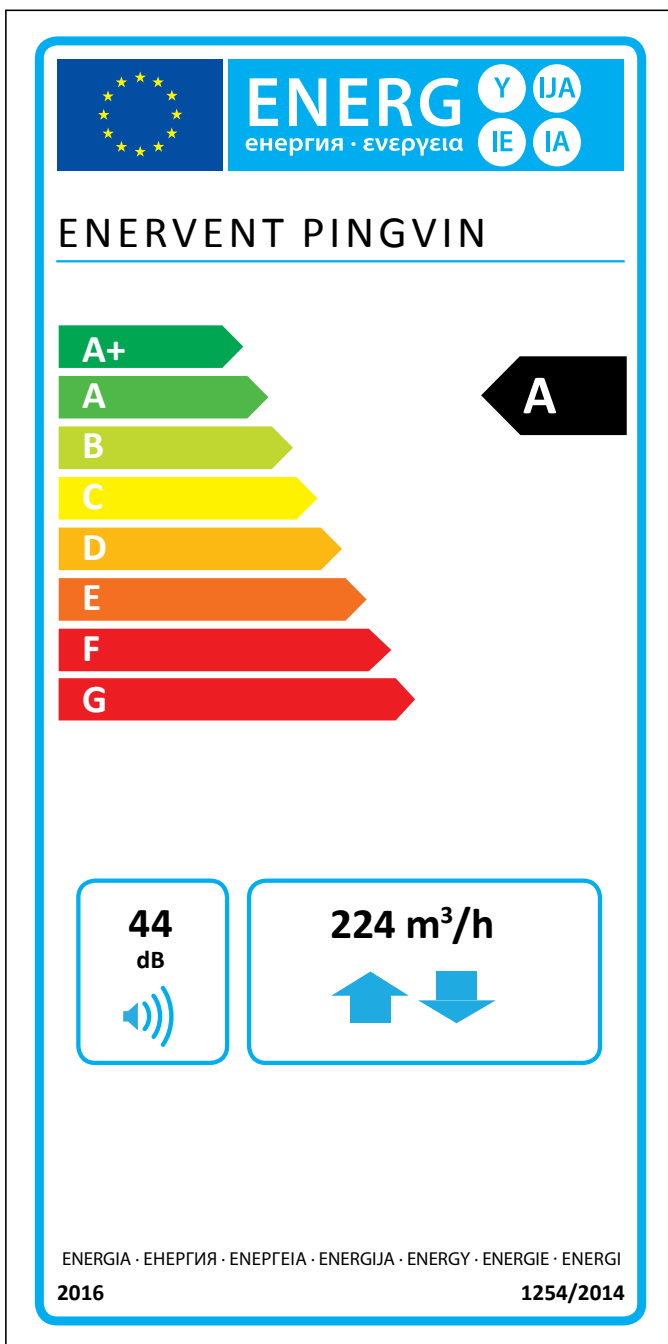
COMPREHENSIVE TECHNICAL DETAILS



***enervent***

# Enervent Pingvin

The Enervent Pingvin unit is best suited for small detached houses or terraced houses. The first generation of Pingvin units was introduced as early as 1995. Since then, countless improvements have been made to the product family, i.e. the fans have been updated to energy efficient direct current fans and the control systems have been developed significantly. In Finland, Pingvin is the bestselling ventilation unit with a rotating heat exchanger intended for single-family houses. The unit is compact. The small space contains an amazing amount of cutting edge technology.



## Technical details

### General information

Reference flow rate according to EcoDesign directive (50 Pa)	224 m <sup>3</sup> /h
Air volume flow	50...340 m <sup>3</sup> /h
Pressure difference	15 to 125 Pa
Leakage	external < 5% (test pressure 300Pa) internal < 5%
Duct size	Ø 160 mm
Weight	50 kg
Standard filters, 2 x plain filter Filter dimensions (WxHxD)	M5/M5 440 x 213 x 15 mm
Additional filter 1x cassette filter Filter dimensions (WxHxD)	F7 437 x 216 x 29 mm
IP class	IP44 (external control IP20)
Condense connection	¼" internal thread
Nominal voltage	230 V
Nominal current	Motors 1,8 A total Electrical after heating 1.7 A

### Fans

Supply and exhaust air fan type	Ebm-Papst
Supply and exhaust air motor type	G3G146-ED19-10
Nominal voltage	230 V (AC), EC-type with internal electronics
Type of fan blade	Radial forward
Nominal power	118 W
Acoustical data	65 dB(A) DIN 45635-1 ISO 3745
Fan control ECC/ESC control	4 step (parallel running, possibility to drive supply -20% lower to +10% higher than exhaust). Each step can be adjusted within 20% scale.
Fan control EDA/MD control	Stepless (supply and exhaust running separately)

### Heat exchanger

Heat exchanger type	Rotating heat exchanger
Material	Aluminium
Heat exchanger surface	57 m <sup>2</sup>
Heat exchanger dimensions	370 x 200 (60 µ)
Heat exchanger motor	5 W
Heat exchanger efficiency	75 – 85 % p.a.

### Other information

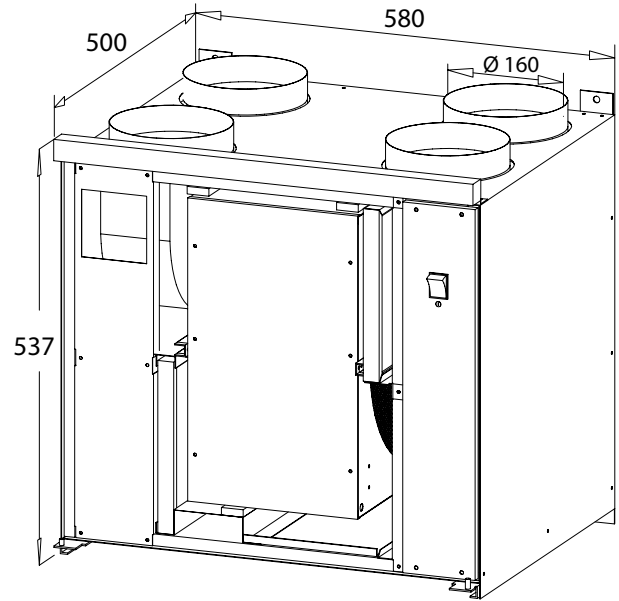
Material inside cover	Steel sheet, zinc coated
Material outside cover	Steel sheet, zinc coated, powder painted
Sound level in supply air duct at fan speeds 20, 40, 60, 80 and 100% LWA	29, 35, 43, 49, 51 dB(A)
LPA, dB(A), 10 m <sup>2</sup> : sound absorption	25, 31, 39, 48, 47 dB(A)
Standard electric after heater efficiency	400 W
Positioning of the water-circulating after heater	in duct
Duct heater measurements (WxHxL), mm	313x255x356

The information on the energy label for this product has been defined with local demand control. Local demand control means that the ventilation unit continuously regulates the fan speed(s) and flow rates based on more than one sensor. Please remember to connect all local sensors (some sold as extra equipment) in order to achieve the declared energy class.



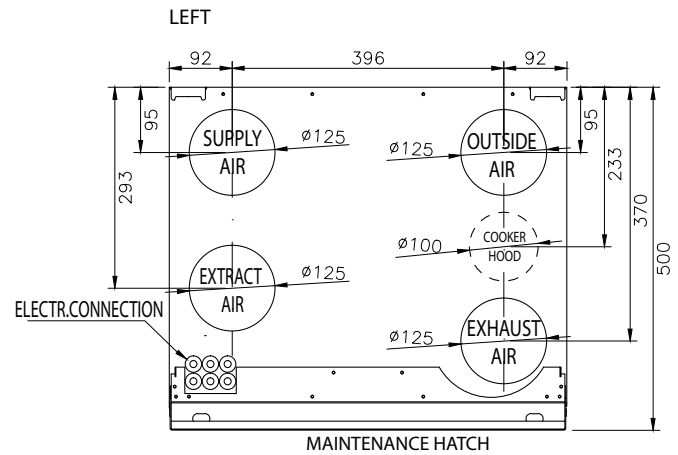
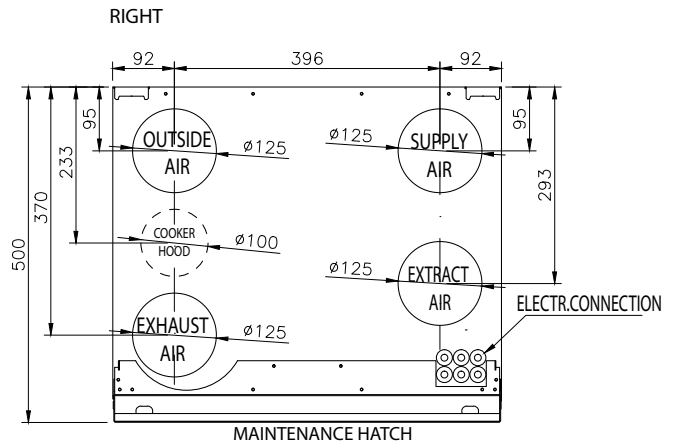
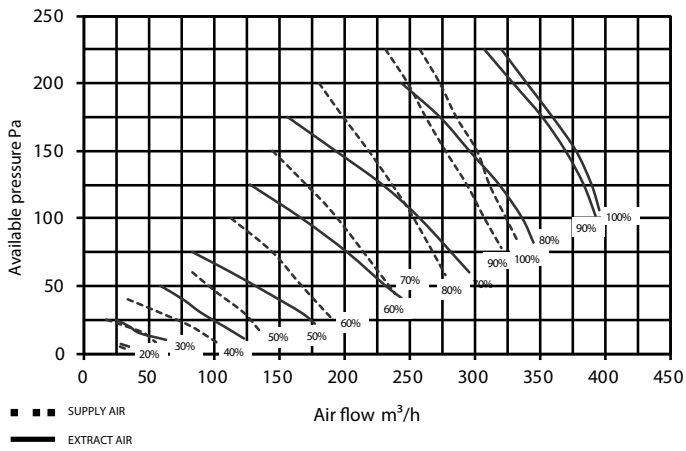
The ceiling mounting plate is sold as extra equipment.

## Dimension drawings



## Characteristics

Pingvin supply and extract air characteristic curves with M5/M5 filters



## Installation

Mounting	Wall	X	Ceiling	X
Frame alternatives	Right	X	Left	X

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