

Heat recovery units

KPI High-efficiency air recovery



Option to control an external back-up heating element

The heating element starts operating when the temperature drops below -5 °C. Operation is recommended when high air discharge temperatures are required.

Noise reduction

Noise attenuator available, achieving a reduction of up to 5 dB(A) (see accessories).

Automatic by-pass

The KPI units have an automatically controlled internal by-pass damper which removes the need to add thermal load with the ventilation air supply when outdoor conditions are unfavourable for heat recovery.

Versatile ventilation systems

The user can choose from three operating options to ensure maximum comfort and also improve indoor air quality through renewal: forced energy recovery, free ventilation and automatic ventilation (default).

G3 and F7 filters to purify the air

KPIs are supplied from the factory with two G3 filters, one for the air input and one for the output. In addition, a high-efficiency F7 air filter (classified according to EN179) is available as an accessory for installations where an additional filter section is required to ensure indoor air quality, reducing the effects of outdoor pollution.

Static pressure adjustment

KPIs are designed for installation in almost any facility.

The ventilation pressure level can be adjusted quickly and easily using the base plate, in accordance with installation requirements. This guarantees that ventilation flow is reached.

KPIs also have an extra-high speed for installations with long duct runs or for additional filters.

Compliance with standard

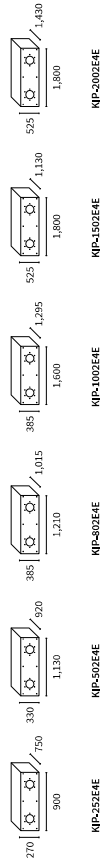
Compliance with the EPF Ecodesign Directive, Lot 6 for ventilation units with requirements in force as of 1st January 2018.

CO₂ sensor for automatic ventilation

Two options available:

- Automatic speed mode
- For CO₂ sensors with proportional output. Fan speed is adjusted automatically via the output sensor, always ensuring high indoor air quality without any user intervention.
- High CO₂ concentration mode
- The KPI unit will operate at its set ventilation speed unless the CO₂ concentration exceeds the sensor's detection threshold, in which case it will operate at maximum speed, helping to reduce CO₂ levels. It will return to set speed once the sensor signal goes off.

Heat recovery unit



Heat recovery unit

	KPI-252E4E	KPI-502E4E	KPI-802E4E	KPI-1002E4E	KPI-1502E4E	KPI-2002E4E
Air flow (Low - Medium - High)	180-208-250	360-426-500	540-650-800	620-800-1,000	950-1,250-1,500	1,200-1,450-2,000
Static pressure (Low - Medium - High) at nominal air flow	30-35-55	37-59-80	46-69-90	40-65-95	45-70-100	40-65-120
Maximum static pressure						170
Outside operating temp.	-20 to 46 °*	-20 to 46 °*	-20 to 46 °*	-20 to 46 °*	-20 to 46 °*	-20 to 46 °*
Exchanger type	Air-to-air cross flow	Air-to-air cross flow	Air-to-air cross flow	Air-to-air cross flow	Air-to-air cross flow	Air-to-air cross flow
Heat exchanger efficiency (High - Medium - Low) in heating (High)	79-77-74	77-76-73	79-78-76	81-78-76	80-76-73	80-78-76
Enthalpic exchanger efficiency in heating (High)	66.0	65.0	65.0	68.0	68.0	66.5
Enthalpic exchanger efficiency in cooling (High)	60.0	61.0	62.0	62.0	62.5	61.5
Sound power	43	51	54	55	56	57
Dimensions (H x W x D)	270x900x750	330x1,130x620	385x1,210x1,015	385x1,600x1,295	525x1,800x1,130	525x1,800x1,430
Diameter dimensions air intake mouth	Ø 160	Ø 200	Ø 250	Ø 300	Ø 350	Ø 350
Weight	34.0	46.0	51.0	79.0	97.0	106.0
Filter type included	G3	G3	G3	G3	G3	G3
Electrical power	1- 230 V 50 Hz	1- 230 V 50 Hz	1- 230 V 50 Hz	1- 230 V 50 Hz	1- 230 V 50 Hz	1- 230 V 50 Hz

* An electric heater and an additional air input thermostat (THM+) to be installed before the electric heater must be installed when the temperature drops below -5°C (DB).

Compatible controls and accessories:



Wired control with programmer
PC-ARPF1E



Noise attenuator
SL-30-2004,600
Compatible with KPI-502E4E



High-efficiency filter

HEF-252
Compatible with KPI-252E4E
HEF-502
Compatible with KPI-502E4E
HEF-802
Compatible with KPI-802E4E
HEF-1002
Compatible with KPI-1002E4E
HEF-1502
Compatible with KPI-1502E4E
HEF-2002
Compatible with KPI-2002E4E