

# ENTHALPY HEAT RECOVERY UNIT

## SAF 150-1000E7

During winter, these recover some of the energy contained in the renewal air expelled from the rooms that would otherwise be dispersed into the atmosphere, using it to preheat the air coming in from outside.

During summer, the exchange is more effective in warmer climates, where the cool air expelled is used to pre-cool the air coming in from outside.

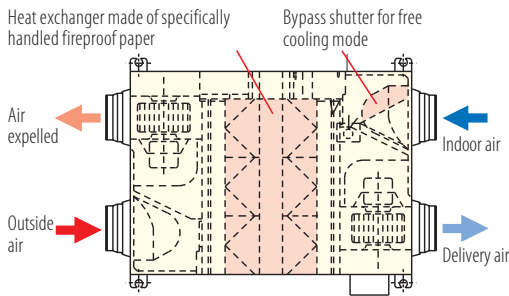
The recovery of dispersed energy reduces the heating requirements of the spaces in a building, ensuring lower emissions and considerable long-term savings on energy consumption and system maintenance.

Wired control included.

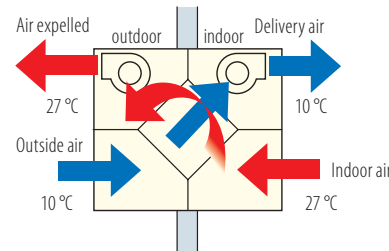


SAF 150E7  
SAF 250E7  
SAF 350E7  
SAF 500E7  
SAF 800E7  
SAF 1000E7

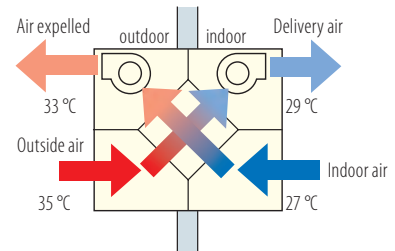
### Structure (SAF 800E7)



### Operating principle in free cooling mode



### Operating principle in heat recovery mode



**Warning:** the drawings above represent only the operation principles; they do not represent the real position of the air inlets. For the correct position, refer to the drawing on the left.

Model			SAF 150E7	SAF 250E7	SAF 350E7	SAF 500E7	SAF 800E7	SAF 1000E7
Type	Enthalpy heat recovery unit							
Control (included)	Wired control							
Enthalpy exchange efficiency <sup>1</sup>	Cooling	%	63	63	66	62	65	65
	Heating	%	70	70	69	67	71	71
Heat exchange efficiency		%	75	75	75	75	75	75
<b>Electrical data</b>								
Power supply	Ph-V-Hz		1-220~240-50					
Power input	W		92~107	108~123	178~185	204~225	360~378	416~432
Rated absorbed current	A		0.42~0.45	0.49~0.51	0.77~0.81	0.93~0.94	1.58~1.64	1.80~1.89
<b>Product specifications</b>								
Outdoor dimensions	LxDxH	mm	970x467x270	882x599x270	1050x804x317	1090x904x317	1322x884x388	1322x1134x388
Net weight	Kg		25	29	49	57	71	83
Sound pressure level	Max	dB(A)	29	31.5	33	37.5	37.5	38.5
Volume of air treated	m <sup>3</sup> /h		150	250	350	500	800	1000
Fan static pressure	Max	Pa	80	105	140	120	140	105
Ducting flange	mm		ø98	ø144	ø144	ø194	ø242	ø242
Field of application	Max UR 85%	°C	-10~40					
Specific energy consumption <sup>2</sup>	SEC	kWh/m <sup>2</sup> y	-28.6	-	-	-	-	-
Class SEC <sup>2</sup>			B	-	-	-	-	-

<sup>1</sup> Values related to the maximum speed of the 3 levels settable by wired remote control. <sup>2</sup> Mandatory data for residential ventilation units (RVU) only.

Reference standards:

EU Ecodesign Directive 1253/2014 for non-residential ventilation units (NRVU) and residential ventilation (RVU).

EU Energy Labelling 1254/2014 Residential Ventilation Unit (RVU).