



Fresh Air Ventilation and Heat Exchange unit SAF-E4

Model No.
SAF250E4
SAF350E4
SAF500E4
SAF800E4
SAF1000E4/E4S



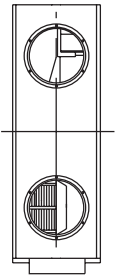
Re; Building Regulations Part L2

The Part L2 (April 2006) regulations limit the amount of electrical/gas power to be used to provide heating or cooling in commercial buildings. Therefore the building designer needs to select energy efficient heating/cooling equipment, and to minimise energy losses through ventilation systems.

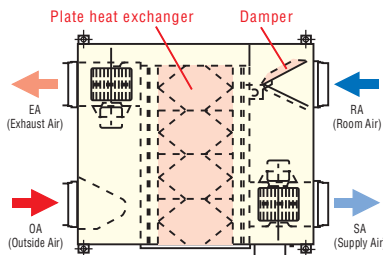
Capturing this waste energy, means the heating/ cooling requirements of the building are reduced, so smaller size plant can be selected, savings can be made in long term energy consumption, and carbon emissions are reduced.

The SAF recovers heat energy which would otherwise be exhausted to atmosphere, and uses this energy to warm the air entering the building. The reverse happens in warmer climates, where the exhausted cool air is used to partially cool the incoming air.

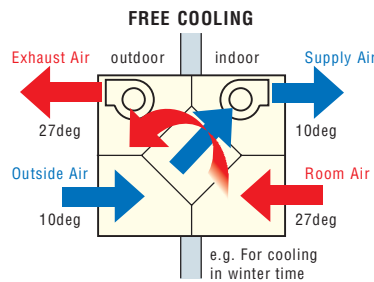
The inclusion of the SAF energy recovery ventilation units in the building design, will reduce the total amount of carbon emissions.



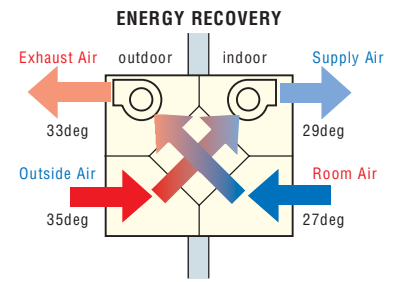
Structure (SAF1000E4)



Principle of operation (simple ventilation)



Principle of operation (heat exchanging)



Item	Model		SAF250E4	SAF350E4	SAF500E4	SAF800E4	SAF1000E4	SAF1000E4S
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				1 Phase 220-240V, 50Hz	1 Phase 220V, 60Hz
Exterior dimensions								
Height x Width x Depth	mm		270x882x599	170x882x804	270x962x904	388x1322x884	388x1322x1135	
Exterior appearance			Galvanised steel sheet					
Power input	W		99-114/118	124-137/149	169-188/202	309-359/391	360-399	429
	Running current	A	0.46/-0.48/0.55	0.59-0.60/0.75	0.79-0.81/1.00	1.48-1.50/1.92	1.85-1.93	2.31
Capacity	UHi	Enthalpy exchange efficiency	Cooling	63	66	62		65
		Enthalpy exchange efficiency	Heating	70	69	67		71
		Temperature exchange efficiency		75				
	Hi	Enthalpy exchange efficiency	Cooling	63	66	62		65
		Enthalpy exchange efficiency	Heating	70	69	67		71
		Temperature exchange efficiency		75				
Lo	Enthalpy exchange efficiency	Cooling	66/68	69/71	77/79	68/69	68	70
	Enthalpy exchange efficiency	Heating	73/75	71/73	67/69	74/75	73	75
	Temperature exchange efficiency		77/78	77/79	75/79	76/77	76	79
Motor & Q'ty	kW	0.02/0.02x2	0.018/0.044x2	0.035/0.062x2	0.081/0.117x2	0.118x2	0.137x2	
Air handling equipment	Fan type & Q'ty		Sirocco fan x 2					
Air flow	UHi	m ³ /h	250	350	500	800	1000	
	Hi		250	350	500	800	1000	
	Lo		170/135	280/240	370/310	650/575	810	700
Available static pressure	UHi	Pa	90/135	95/155	105/165	140/190	90	110
	Hi		80/100	65/90	70/85	110/100	55	40
	Lo		37/30	42/43	38/33	70/50	35	20
Air filter	Outake intake air		Protection for element (Washable) PS400					
	Exhaust air							