

# Ventilation

## Fresh Air Ventilation and Heat Exchange unit

### SAF-E7



Helping you to reduce energy consumption and carbon emissions by capturing waste energy. EFB also allows for smaller sized units as less heating/cooling requirements are needed!



Switch box (option)



### Energy Performance of Building Directive - EPBD

The EPBD function limits electrical/gas power to provide heating or cooling to commercial buildings. To use this function, the building designer needs to select energy efficient heating/cooling equipment and to minimise energy losses through ventilation systems.

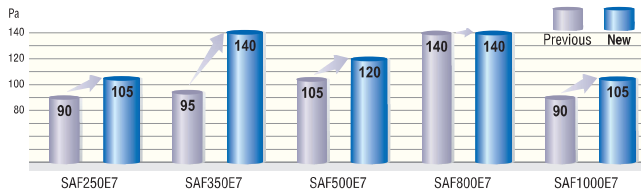
SAF smart technology recovers heat energy in the atmosphere which would have otherwise been lost. It then uses this energy to warm air entering the building. The reverse happens in warmer climates where the exhausted cool air is used to partially cool the incoming air.

#### Remote control

The following functions are newly available.

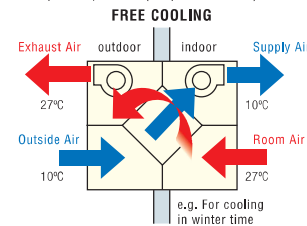
- ON/OFF Timer – The hour and minute of timer on/off can be set.
- Filter Sign – Announces the due time for cleaning the air filter.

#### Increased external static pressure at UHi air flow

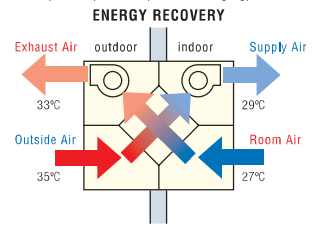


#### Principle of Operation

##### Principle of operation (simple ventilation)



##### Principle of operation (heat exchanging)



## SPECIFICATIONS

Indoor unit			SAF	150E7	250E7	350E7	500E7	800E7	1000E7
Power source				1 Phase 220-240V, 50Hz					
Exterior dimensions (HxWxD)			mm	270x970x467	270x882x599	317x1050x804	317x1090x904	388x1322x884	388x1322x1134
Exterior appearance				Galvanized steel sheet					
Power input			W	92-107	108-123	178-185	204-225	360-378	416-432
Running current			A	0.42-0.45	0.49-0.51	0.81-0.77	0.93-0.94	1.64-1.58	1.89-1.80
Capacity	UHi	Enthalpy exchange efficiency	Cooling	63		66	62	65	
		Heating		70		69	67	71	
		Temperature exchange efficiency		75					
	Hi	Enthalpy exchange efficiency	Cooling	63		66	62	65	
		Heating		70		69	67	71	
		Temperature exchange efficiency		75					
	Lo	Enthalpy exchange efficiency	Cooling	66	65	71	64	68	70
		Heating		73	72	73	69	74	76
		Temperature exchange efficiency		77		78	76		79
Motor & Q'ty			W	10 x 2	20 x 2	40 x 2	70 x 2	180 x 2	180 x 2
Air handling equipment Fan type & Q'ty				Sirocco fan x 2					
Air flow (UHi/Hi/Lo)			m³/h	150/150/120	250/250/190	350/350/240	500/500/440	800/800/630	1000/1000/700
External static pressure (UHi/Hi/Lo)			Pa	80/70/25	105/95/45	140/60/45	120/60/35	140/110/55	105/80/75
Net weight			kg	25	29	49	57	71	83
Air filter	Supply air Exhaust air			Protection for element (Washable) PS400					

(1) The data are measured at the following conditions.

		Summer	Winter
Indoor side (Supply air)	DB	27°C	20°C
	WB	20°C	14°C
Outdoor side (Outside air)	DB	35°C	5°C
	WB	29°C	2°C
Unit around	DB	27°C	20°C