

# 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.

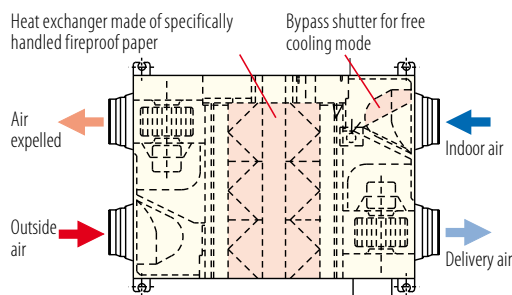
Unit equipped with nylon-polyester fibre filters in class G3.

Wired control included.

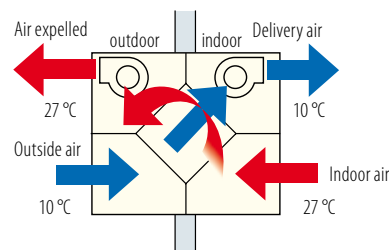


SAF 150E7  
SAF 250E7  
SAF 350E7  
SAF 500E7  
SAF 800E7  
SAF 1000E7

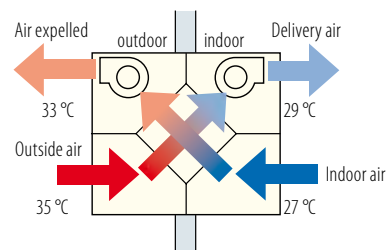
### Structure (SAF 800E7)



### 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            |
| Electrical data                           |            |          |                             |             |              |              |              |               |
| 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     |
| Product specifications                    |            |          |                             |             |              |              |              |               |
| 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                     |            | m³/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/m² y | -28.6                       | -           | -            | -            | -            | -             |
| Class SEC2                                |            |          | R                           | -           | -            | -            | -            | -             |

1 Values related to the maximum speed of the 3 levels settable by wired remote control. 2 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).