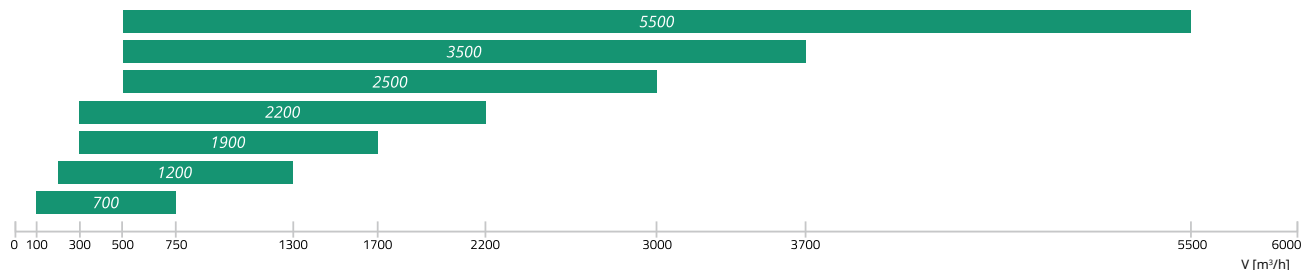
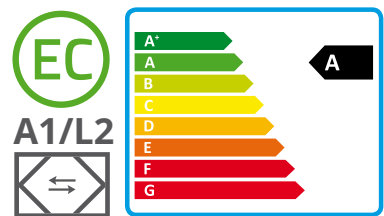


# RIS H EKO

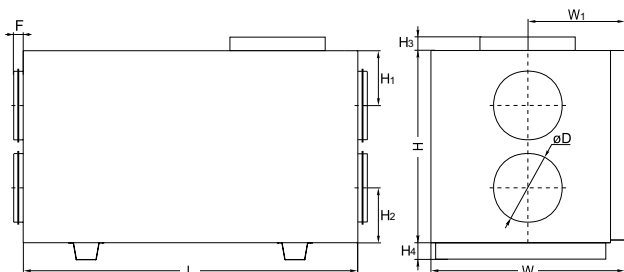


|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application    | Ventilation of houses, offices or other heated premises (classrooms, apartments, conference rooms, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Description    | <p>RIS H EKO 3.0 is a range of heat recovery units with high-efficiency counter-flow heat exchangers and horizontal duct connections. Units are designed for placement on the floor. Due to the horizontal ducting, there is a wide range of applications for outdoor placement. There are 7 sizes (airflow interval 700-5500 m³/h). RIS H EKO 3.0 units have high overall energy savings due to the highly efficient heat recovery (up to 90%), quiet and economical EC fans, effective low-pressure-drop filters and top-level of air tightness. Energy efficiency ensures full thermal comfort for passive houses, without an additional pre-heater at temperatures above -5°C.</p> <p>All the RIS H EKO 3.0 units are fully equipped with automatic controls. Optional external sensors for CO<sub>2</sub> and humidity and the event planning feature will help to control automatically your climate (demand-level control).</p> <p>RIS 1200-5500 H EKO 3.0 units have outdoor versions with roofing and outlet cover.</p> <p>RIS H EKO 3.0 units are service-friendly and are easy to mount. Filter pollution may be identified by timers or contamination controls (RIS 1200-5500 H EKO 3.0).</p> <p>All units are supplied tested and ready to install.</p> |
| Remote control | <p>Three* remote control options are available:</p> <ol style="list-style-type: none"><li>1. Flex, Stouch or Ptouch remote controllers.</li><li>2. Building management system connections.</li><li>3. Remote control via PC MB-Gateway.</li></ol> <p>*RIS 1900-5500 H EKO 3.0 units can be optionally provided with SIEMENS Climatix controllers.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Features       | <ul style="list-style-type: none"><li>› Outdoor versions.</li><li>› Ready for Passive House technology: high efficiency.</li><li>› Easy and quick mounting.</li><li>› Water/electrical heating options.</li><li>› Fully integrated plug-and-play control system.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Construction   | <ul style="list-style-type: none"><li>› Construction from double-skinned steel, with powder coated paint, panels.</li><li>› Acoustic and thermal wall insulation: RIS 700 H EKO 3.0 – 30 mm, RIS 1200-5500 H EKO 3.0 – 50 mm.</li><li>› RIS 700 H EKO 3.0 powder-coated white housing RAL 9016; RIS 1200 – 5500 powder-coated grey housing RAL7040.</li><li>› RIS 1900-5500 H EKO 3.0 optional roof and outlet covers for outdoor placement.</li><li>› RIS 3500 H EKO 3.0 delivered in three sections and RIS 5500 H EKO 3.0 - in two sections.</li><li>› Integrated electrical heater or optional duct-based water heater/cooler.</li><li>› Low-pressure-drop filters: F7/M5.</li><li>› Hinged door with locks grants easy access to internal components.</li><li>› Separate compartment on the top of the unit grants quick access to the control board (plug-and-play).</li><li>› Stainless steel condensate tray.</li><li>› Fitted with mounting brackets (optional for RIS 700-1900 H EKO 3.0, RIS 2500-5500 H EKO 3.0 - included).</li><li>› Integrated anti-frost pressure switch (RIS H 1200-5500 H EKO 3.0).</li></ul>                                                                                                                                      |

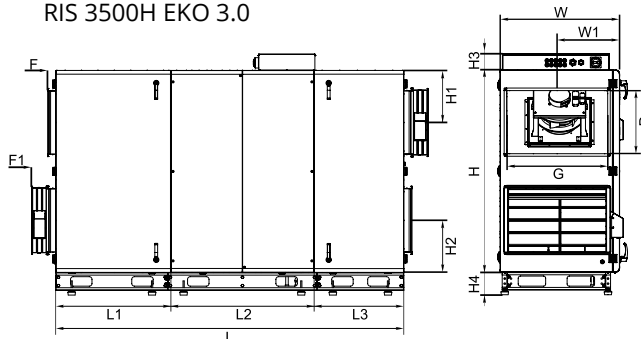
## RIS 1200 H W EKO 3.0

|   |                                                                           |
|---|---------------------------------------------------------------------------|
| → | Equipped with new PRV V2 control board                                    |
| → | AHU with EC motors and efficient heat exchanger                           |
| → | Heater type (E - integrated electrical heater; W - optional water heater) |
| → | Housing type (V - vertical, H - horizontal, P - ceiling)                  |
| → | AHU size according to maximum airflow range m³/h                          |
| → | AHU with plate heat exchanger                                             |

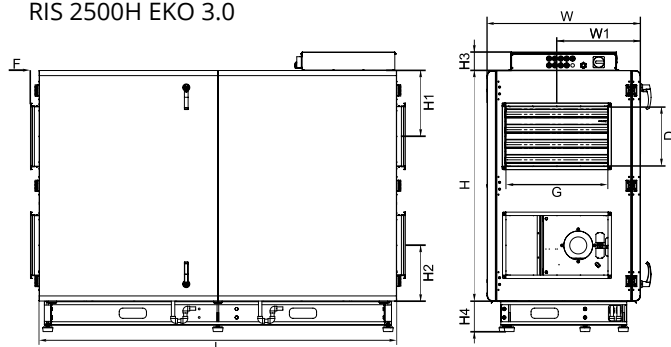
RIS 700H EKO 3.0 - RIS 2200H EKO 3.0



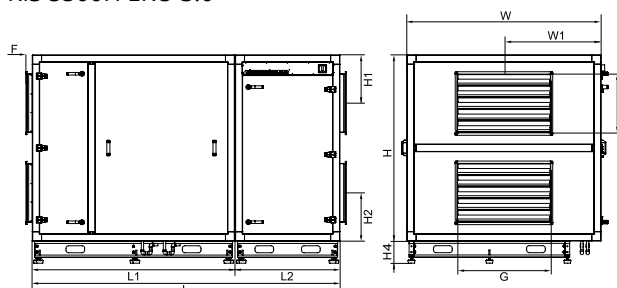
RIS 3500H EKO 3.0



RIS 2500H EKO 3.0



RIS 5500H EKO 3.0



| Unit                  | Dimensions [mm] |                |                |                |      |                |     |     |     |      |                |                |                |                |    |                |
|-----------------------|-----------------|----------------|----------------|----------------|------|----------------|-----|-----|-----|------|----------------|----------------|----------------|----------------|----|----------------|
|                       | L               | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | W    | W <sub>1</sub> | ØD  | G   | D   | H    | H <sub>1</sub> | H <sub>2</sub> | H <sub>3</sub> | H <sub>4</sub> | F  | F <sub>1</sub> |
| RIS 700HE/HW EKO 3.0  | 1200            | -              | -              | -              | 670  | 335            | 250 | -   | -   | 780  | 210            | 210            | 65             | 126            | 40 | -              |
| RIS 1200HE/HW EKO 3.0 | 1500            | -              | -              | -              | 760  | 380            | 315 | -   | -   | 1000 | 269            | 269            | 70             | 141            | 40 | -              |
| RIS 1900HE/HW EKO 3.0 | 1800            | -              | -              | -              | 800  | 400            | 400 | -   | -   | 1245 | 331            | 331            | 106            | 141            | 70 | -              |
| RIS 2200HE/HW EKO 3.0 | 1800            | -              | -              | -              | 800  | 400            | 400 | -   | -   | 1245 | 331            | 331            | 106            | 141            | 70 | -              |
| RIS 2500HE/HW EKO 3.0 | 2100            | -              | -              | -              | 900  | 490            | -   | 600 | 350 | 1355 | 387            | 327            | 108            | 180            | 50 | -              |
| RIS 3500HE/HW EKO 3.0 | 2756            | 909            | 1132           | 709            | 946  | 494            | -   | 800 | 500 | 1600 | 413            | 413            | 129            | 180            | 65 | 192            |
| RIS 5500HE/HW EKO 3.0 | 2644            | 1740           | 900            | -              | 1670 | 835            | -   | 800 | 500 | 1600 | 415            | 415            | -              | 180            | 55 | -              |

## Accessories

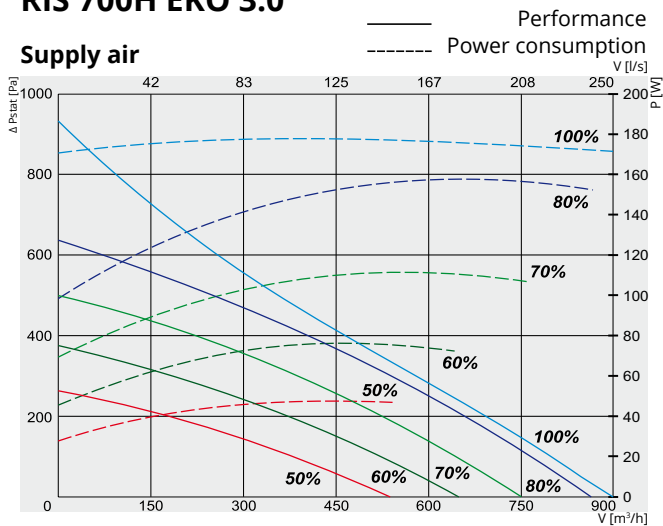
|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Remote controller                                                                   | Control panel                                                                       | Remote controller                                                                   | Net module                                                                          | Shut-off damper                                                                     | Pressure transmitter                                                                 | CO2 sensor                                                                            |                                                                                       |
|  |  |  |  |  |  |  |                                                                                       |
| <b>Ptouch p. 175</b>                                                                | <b>FLEX p. 177</b>                                                                  | <b>Stouch p. 176</b>                                                                | <b>MB-Gateway p. 178</b>                                                            | <b>SKG p. 212</b>                                                                   | <b>S-1141 p. 179</b>                                                                 | <b>S-RC02-F2 p. 180</b>                                                               |                                                                                       |
| Humidity sensor                                                                     | Thermic water valve actuator                                                        | Actuator for dampers                                                                | Circular duct silencer                                                              | Mounting clamp                                                                      | Heating coil                                                                         | Electrical duct pre-heater                                                            | Electrical duct pre-heater                                                            |
|  |  |  |  |  |  |  |  |
| <b>S-KFF-U p. 181</b>                                                               | <b>SSB p. 195</b>                                                                   | <b>SP p. 210</b>                                                                    | <b>AKS p. 216</b>                                                                   | <b>AP p. 219</b>                                                                    | <b>AVS p. 185</b>                                                                    | <b>EKS NV PH p. 203</b>                                                               | <b>EKA NV PH p. 201</b>                                                               |
| Circular duct water cooler                                                          | Water heater coil                                                                   | Mixing point                                                                        | 2 and 3 way valves                                                                  | Comfort Box                                                                         | Rectangular duct silencer                                                            | Outlet cover                                                                          | Roof                                                                                  |
|  |  |  |  |  |  |  |  |
| <b>AVA p. 193</b>                                                                   | <b>SVS p. 190</b>                                                                   | <b>RMG p. 196</b>                                                                   | <b>VVP/VXP p. 197</b>                                                               | <b>CB p. 183</b>                                                                    | <b>SKS p. 215</b>                                                                    |                                                                                       |                                                                                       |

| Unit               | Optional accessories                   |                                |                  |            |              |            |              |              |               |
|--------------------|----------------------------------------|--------------------------------|------------------|------------|--------------|------------|--------------|--------------|---------------|
|                    | Ptouch<br>Stouch<br>Flex<br>MB-Gateway | S-1141<br>S-RC02-F2<br>S-KFF-U | AKS<br>SKG<br>AP | SKS<br>SVS | EKS<br>NV PH | AVA<br>AVS | EKA<br>NV PH | SP<br>Supply | SP<br>Exhaust |
| RIS 700HE EKO 3.0  | +                                      | +                              | 250              | -          | -            | 250        | 250          | CM230-1-F-L  |               |
| RIS 700HW EKO 3.0  | +                                      | +                              | 250              | -          | -            | 250        | 250          | TF230        | CM230-1-F-L   |
| RIS 1200HE EKO 3.0 | +                                      | +                              | 315              | -          | -            | 315        | 315          | LM230A-TP    |               |
| RIS 1200HW EKO 3.0 | +                                      | +                              | 315              | -          | -            | 315        | 315          | LF230        | LM230A-TP     |
| RIS 1900HE EKO 3.0 | +                                      | +                              | 400              | -          | -            | 400        | 400          | SM230A-TP    |               |
| RIS 1900HW EKO 3.0 | +                                      | +                              | 400              | -          | -            | 400        | 400          | NF230        | SM230A-TP     |
| RIS 2200HW EKO 3.0 | +                                      | +                              | 400              | -          | -            | 400        | 400          | SM230A-TP    |               |
| RIS 2200HE EKO 3.0 | +                                      | +                              | 400              | -          | -            | 400        | 400          | NF230        | SM230A-TP     |
| RIS 2500HE EKO 3.0 | +                                      | +                              | -                | 600x350    | 600x350      | -          | -            | int          |               |
| RIS 2500HW EKO 3.0 | +                                      | +                              | -                | 600x350    | 600x350      | -          | -            | int          |               |
| RIS 3500HE EKO 3.0 | +                                      | +                              | -                | 800x500    | 800x500      | -          | -            | int          |               |
| RIS 3500HW EKO 3.0 | +                                      | +                              | -                | 800x500    | 800x500      | -          | -            | int          |               |
| RIS 5500HE EKO 3.0 | +                                      | +                              | -                | 800x500    | 800x500      | -          | -            | int          |               |
| RIS 5500HW EKO 3.0 | +                                      | +                              | -                | 800x500    | 800x500      | -          | -            | int          |               |

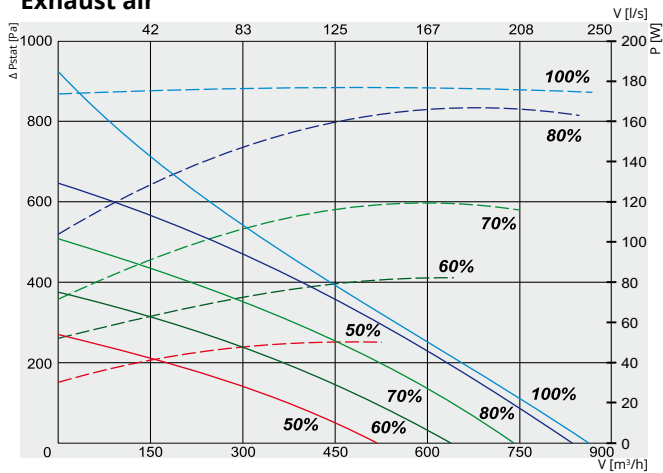
| Unit               | Optional accessories |                |                                                                                                                   |                |                    |                    |                |                      |
|--------------------|----------------------|----------------|-------------------------------------------------------------------------------------------------------------------|----------------|--------------------|--------------------|----------------|----------------------|
|                    | SSB<br>Heating       | SSB<br>Cooling | RMG<br>80/60°C                                                                                                    | RMG<br>60/40°C | VVP/VXP<br>80/60°C | VVP/VXP<br>60/40°C | Comfort<br>Box | Roof<br>Outlet cover |
| RIS 700HE EKO 3.0  | -                    | 81             | -                                                                                                                 | -              | -                  | -                  | -              | -                    |
| RIS 700HW EKO 3.0  | 61                   | 81             | 3-1,0-4                                                                                                           | 3-0,63-4       | 45.10-1,1          | 45.10-0,63         | -              | -                    |
| RIS 1200HE EKO 3.0 | -                    | 81             | -                                                                                                                 | -              | -                  | -                  | -              | -                    |
| RIS 1200HW EKO 3.0 | 61                   | 81             | 3-0,63-4                                                                                                          | 3-0,63-4       | 45.10-0,63         | 45.10-0,63         | -              | -                    |
| RIS 1900HE EKO 3.0 | -                    | 81             | Heaters, coolers and RMG/VVP/VXP<br>data online selection program: <a href="http://www.salda.it">www.salda.it</a> |                |                    |                    | 400            | +                    |
| RIS 1900HW EKO 3.0 | 61                   | 81             |                                                                                                                   |                |                    |                    | 400            | +                    |
| RIS 2200HE EKO 3.0 | -                    | 81             |                                                                                                                   |                |                    |                    | 400            | +                    |
| RIS 2200HW EKO 3.0 | 61                   | 81             |                                                                                                                   |                |                    |                    | 400            | +                    |
| RIS 2500HE EKO 3.0 | -                    | -              |                                                                                                                   |                |                    |                    | 600x350        | +                    |
| RIS 2500HW EKO 3.0 | 61                   | -              |                                                                                                                   |                |                    |                    | 600x350        | +                    |
| RIS 3500HE EKO 3.0 | -                    | -              |                                                                                                                   |                |                    |                    | 800x500        | +                    |
| RIS 3500HW EKO 3.0 | 61                   | -              |                                                                                                                   |                |                    |                    | 800x500        | +                    |
| RIS 5500HE EKO 3.0 | -                    | -              |                                                                                                                   |                |                    |                    | 800x500        | +                    |
| RIS 5500HW EKO 3.0 | 61                   | -              |                                                                                                                   |                |                    |                    | 800x500        | +                    |

## RIS 700H EKO 3.0

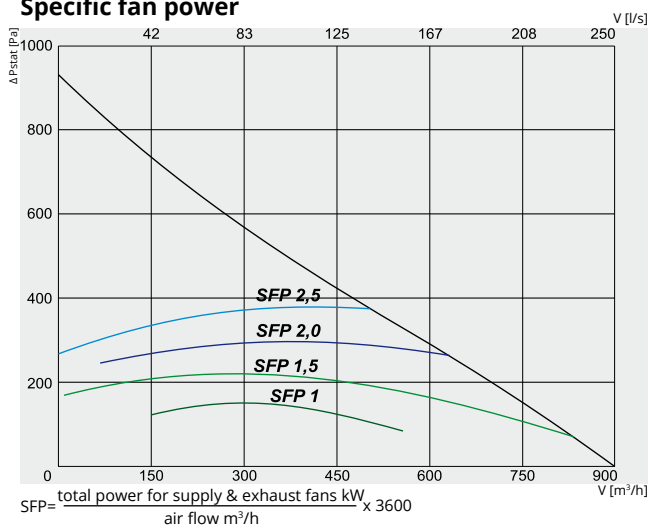
### Supply air



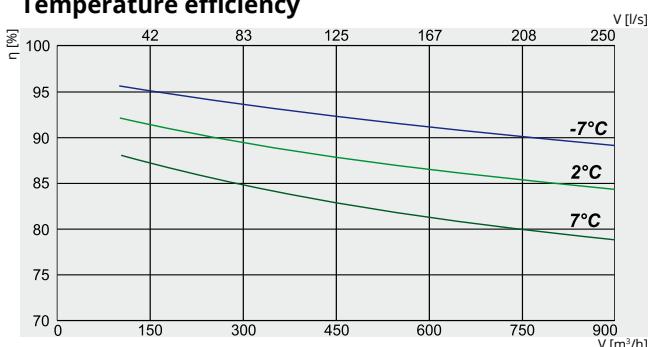
### Exhaust air



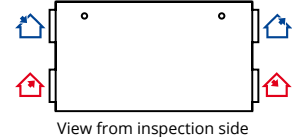
### Specific fan power



### Temperature efficiency



### RIS 700H EKO 3.0 (convertible) ver.



Exhaust air Extract air outdoor air Supply air

| Article No.      | Version                                    |
|------------------|--------------------------------------------|
| GAGRIS1791_0036A | 700HE EKO 3.0 Integrated electrical heater |
| GAGRIS1972_0037A | 700HW EKO 3.0 Optional water heater        |

### 700HE / HW EKO 3.0

|                                  |                                     |
|----------------------------------|-------------------------------------|
| Water heater (optional) HW ver.  | AVS 250                             |
| Electrical heater HE ver.        | phase/voltage [50Hz/VAC] ~1, 230    |
|                                  | [kW] 1,2                            |
| EC fans                          | phase/voltage [50Hz/VAC] ~1, 230    |
| exhaust                          | power/current [kW/A] 0,168/1,4      |
|                                  | fan speed [min <sup>-1</sup> ] 3230 |
| supply                           | power/current [kW/A] 0,168/1,4      |
|                                  | fan speed [min <sup>-1</sup> ] 3230 |
| Thermal efficiency up to*        | 90%                                 |
| Motorized by-pass                | +                                   |
| Max power consumption HE/HW      | [kW/A] 1,54/8,02 0,34/2,80          |
| Control board                    | PRV V2                              |
| Filter class                     | exhaust/supply M5/M5                |
| Housing insulation, mineral wool | [mm] 30                             |
| Colour                           | RAL white 9016                      |
| Weight (net, without packing)    | [kg] 111 110                        |
| Comply with ERP                  | 2016; 2018                          |
| Operation                        | indoors                             |
| Fresh air temperature limits**   | °C -5 - +40                         |
| Housing protection class         | IP 34                               |

\* Calculated according EN 13141-7.

\*\*For temperatures lower than recommended, use electrical pre-heater to ensure balanced operation.

Temperature efficiency (balanced mass flow) EN 13141-7:  
Extract air = 20°C/60%RH  
Outdoor air = -7°C / 2°C / 7°C

| 700HE EKO 3.0 | Lwa total, dB(A) | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
|---------------|------------------|--------|--------|--------|-------|-------|-------|-------|
| Supply        | 73               | 65     | 67     | 65     | 64    | 66    | 63    | 54    |
| Extract       | 61               | 54     | 55     | 57     | 49    | 46    | 41    | 40    |
| Surrounding   | 56               | 45     | 49     | 54     | 45    | 43    | 40    | 37    |

Measured at 760 m³/h, 101 Pa

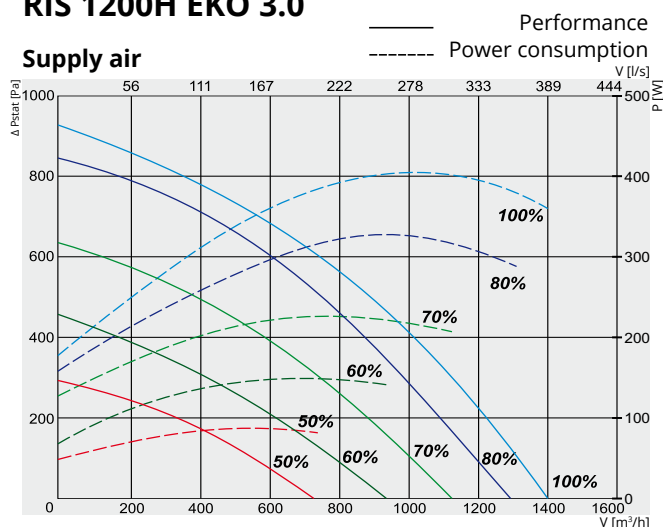
### Certifications

EUROVENT certified  
heat exchanger performance

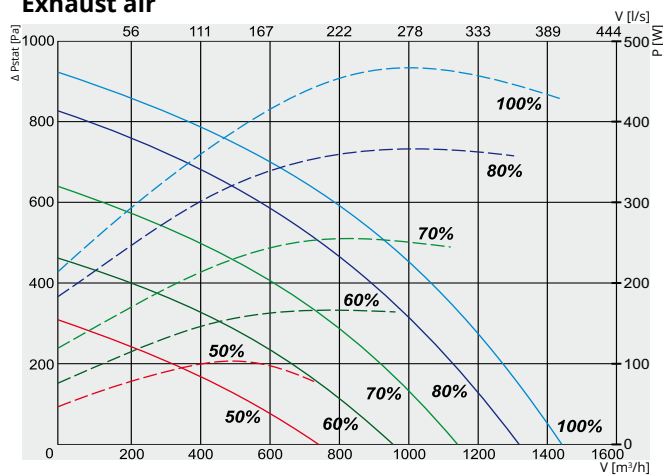


## RIS 1200H EKO 3.0

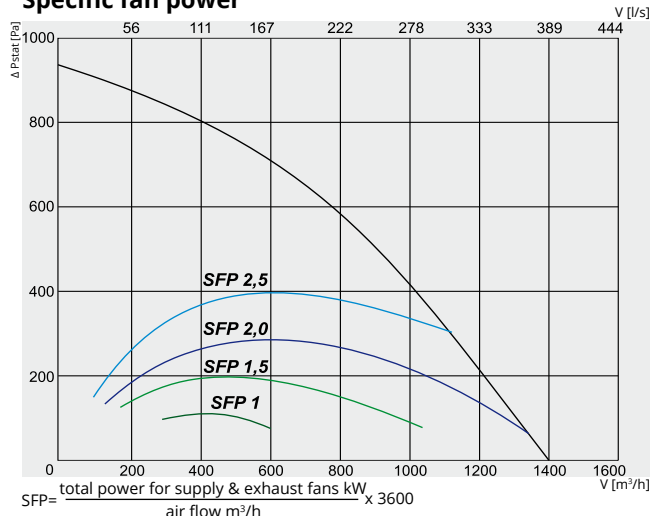
### Supply air



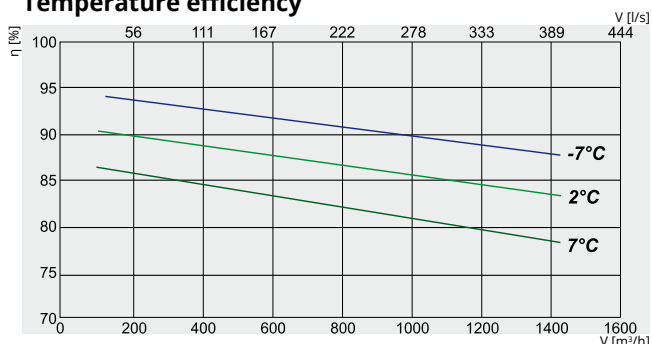
### Exhaust air



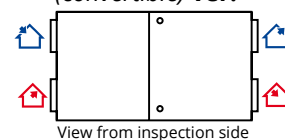
### Specific fan power



### Temperature efficiency



### RIS 1200H EKO 3.0 (convertible) ver.



Exhaust air Extract air outdoor air Supply air

| Article No.      | Version                                     |
|------------------|---------------------------------------------|
| GAGRIS1740_0006A | 1200HE EKO 3.0 Integrated electrical heater |
| GAGRIS1767_0030A | 1200HW EKO 3.0 Optional water heater        |

### 1200HE / HW EKO 3.0

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Water heater (optional) HW ver.     | AVS 315                             |
| Electrical heater HE ver.           | phase/voltage [50Hz/VAC] ~1, 230    |
|                                     | [kW] 2,0                            |
| EC fans                             | phase/voltage [50Hz/VAC] ~1, 230    |
| exhaust                             | power/current [kW/A] 0,4/2,61       |
|                                     | fan speed [min <sup>-1</sup> ] 3400 |
| supply                              | power/current [kW/A] 0,42/2,72      |
|                                     | fan speed [min <sup>-1</sup> ] 3400 |
| Thermal efficiency up to*           | 90%                                 |
| Motorized by-pass                   | +                                   |
| Max power consumption HE/HW         | [kW/A] 2,82/14,07 0,82 /5,37        |
| Control board                       | PRV V2                              |
| Filter class                        | exhaust/supply M5/F7                |
| Housing insulation, mineral wool    | [mm] 50                             |
| Colour                              | RAL grey 7040                       |
| Weight (net, without packing) HE/HW | [kg] 171 173                        |
| Comply with ERP                     | 2016; 2018                          |
| Operation                           | indoors/outdoors***                 |
| Fresh air temperature limits**      | °C -5 - +40                         |
| Housing protection class            | IP 34                               |

\* Calculated wet efficiency.

\*\*For temperatures lower than recommended, use electrical pre-heater to ensure balanced operation.

\*\*\*With proper roof mounted.

Temperature efficiency (balanced mass flow) :  
Extract air = 20°C/60%RH  
Outdoor air = -7°C / 2°C / 7°C

| 1200H EKO 3.0 | Lwa total, dB(A) | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
|---------------|------------------|--------|--------|--------|-------|-------|-------|-------|
| Supply        | 75               | 62     | 65     | 71     | 70    | 65    | 63    | 53    |
| Extract       | 57               | 51     | 49     | 52     | 51    | 45    | 40    | 32    |
| Surrounding   | 53               | 44     | 43     | 48     | 47    | 43    | 40    | 33    |

Measured at 1271 m³/h, 119 Pa

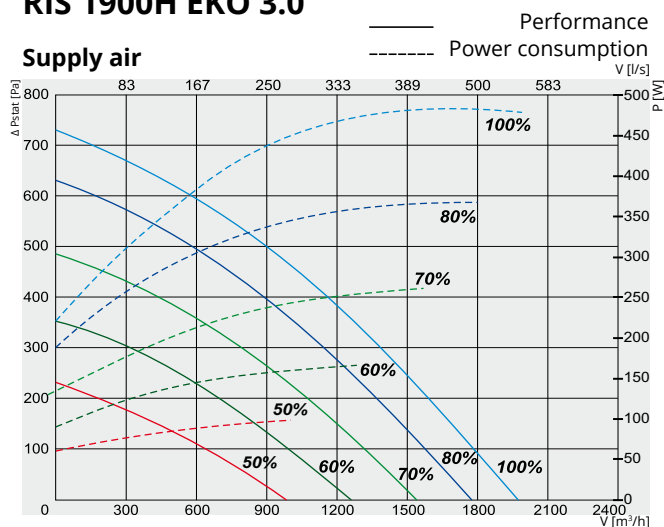
### Certifications

EUROVENT certified  
heat exchanger performance

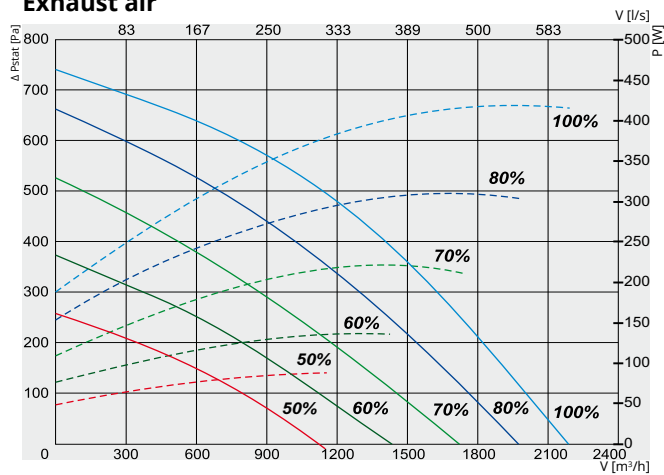


## RIS 1900H EKO 3.0

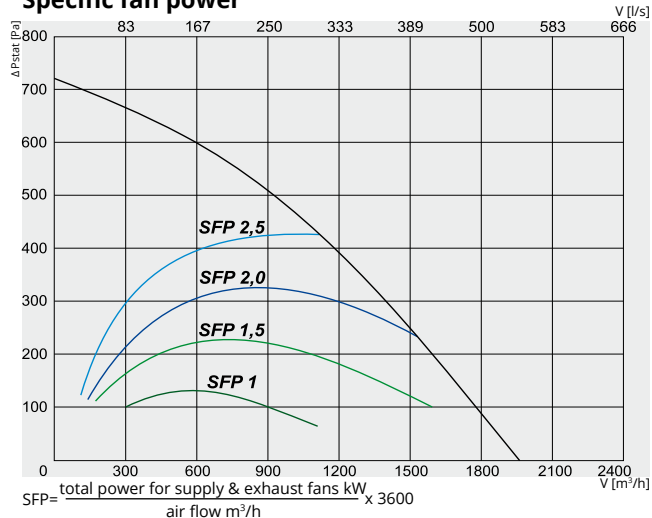
### Supply air



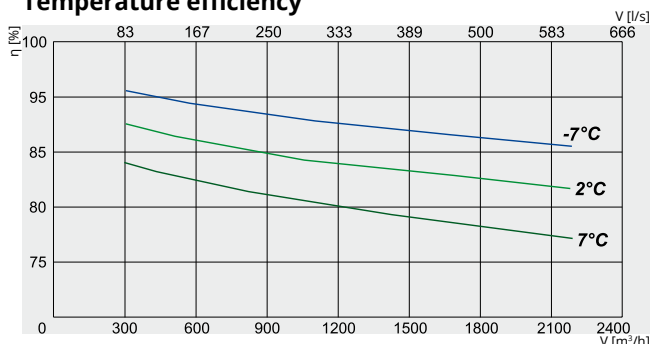
### Exhaust air



### Specific fan power



### Temperature efficiency



### RIS 1900HE EKO 3.0 (convertible) ver.



Exhaust air Extract air outdoor air Supply air

Article No. Version  
GAGRIS1789\_0046A 1900HE EKO 3.0 Integrated electrical heater  
GAGRIS1790\_0047A 1900HW EKO 3.0 Optional water heater

### 1900HE / HW EKO 3.0

|                                  |                                     |
|----------------------------------|-------------------------------------|
| Water heater (optional) HW ver.  | AVS / Comfort Box 400               |
| Electrical heater HE ver.        | phase/voltage [50Hz/VAC] ~1, 230    |
|                                  | [kW] 3,0                            |
| EC fans                          | phase/voltage [50Hz/VAC] ~1, 230    |
| exhaust                          | power/current [kW/A] 0,48/3,1       |
|                                  | fan speed [min <sup>-1</sup> ] 2540 |
| supply                           | power/current [kW/A] 0,505/3,2      |
|                                  | fan speed [min <sup>-1</sup> ] 2540 |
| Thermal efficiency up to*        | 90%                                 |
| Motorized by-pass                | +                                   |
| Max power consumption HE/HW      | [kW/A] 3,99 / 19,32 0,99/6,32       |
| Control board                    | PRV V2                              |
| Filter class                     | exhaust/supply M5/F7                |
| Housing insulation, mineral wool | [mm] 50                             |
| Colour                           | RAL grey 7040                       |
| Weight (net, without packing)    | [kg] 252 251                        |
| Comply with ERP                  | 2016; 2018                          |
| Operation                        | indoors/outdoors***                 |
| Fresh air temperature limits**   | °C -5 - +40                         |
| Housing protection class         | IP 34                               |

\* Calculated wet efficiency.

\*\*For temperatures lower than recommended, use electrical pre-heater to ensure balanced operation.

\*\*\*With proper roof mounted.

Temperature efficiency (balanced mass flow) :  
Extract air = 20°C/60%RH  
Outdoor air = -7°C / 2°C / 7°C

| 1900H EKO 3.0 | Lwa total, dB(A) | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
|---------------|------------------|--------|--------|--------|-------|-------|-------|-------|
| Supply        | 78               | 58     | 71     | 72     | 73    | 71    | 65    | 62    |
| Extract       | 67               | 49     | 58     | 60     | 59    | 58    | 57    | 44    |
| Surrounding   | 60               | 41     | 51     | 55     | 53    | 52    | 49    | 42    |

Measured at 2016 m³/h, 100 Pa

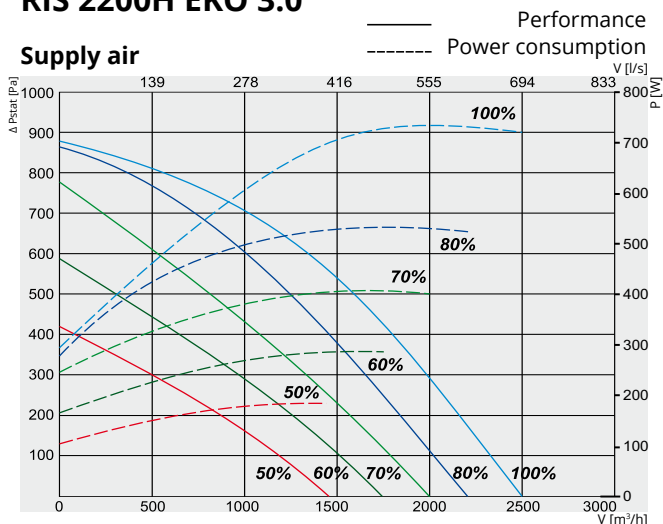
### Certifications

EUROVENT certified  
heat exchanger performance

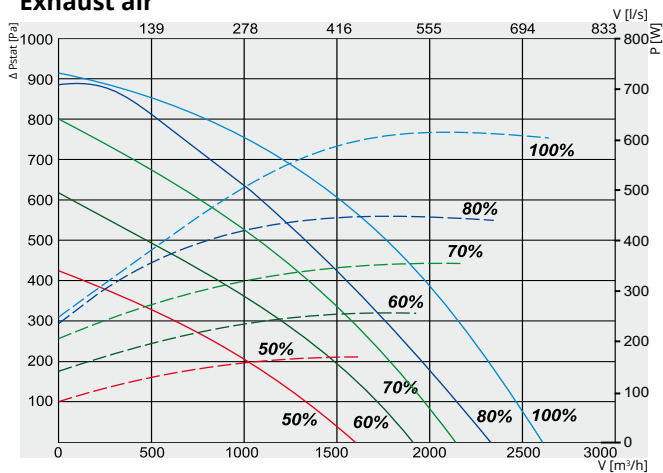


## RIS 2200H EKO 3.0

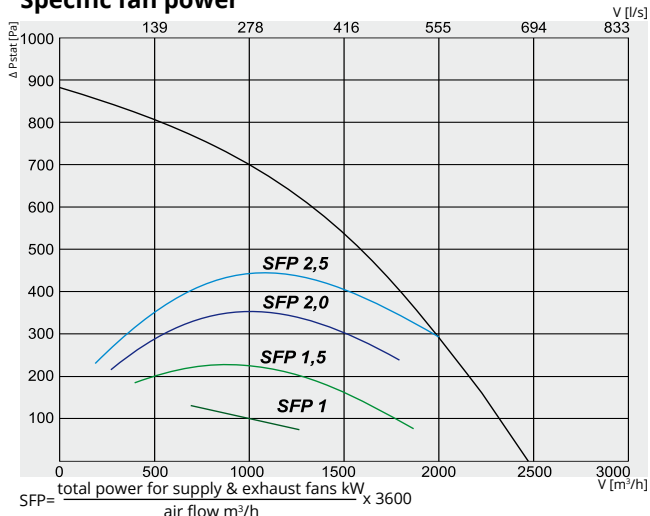
### Supply air



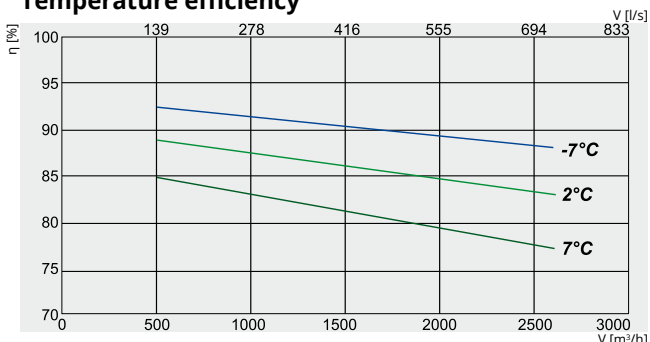
### Exhaust air



### Specific fan power



### Temperature efficiency



**NEW!**



### RIS 2200H EKO 3.0 (convertible) ver.



Exhaust air Extract air outdoor air Supply air

| Article No.      | Version                                     |
|------------------|---------------------------------------------|
| GAGRIS1970_0151A | 2200HE EKO 3.0 Integrated electrical heater |
| GAGRIS1971_0153A | 2200HW EKO 3.0 Optional water heater        |

### 2200HE / HW EKO 3.0

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Water heater (optional) HW ver.     | AVS / Comfort Box 400               |
| Electrical heater HE ver.           | phase/voltage [50Hz/VAC] ~1, 230    |
|                                     | [kW] 3,0                            |
| EC fans                             | phase/voltage [50Hz/VAC] ~1, 230    |
| exhaust                             | power/current [kW/A] 0,72/3,1       |
|                                     | fan speed [min <sup>-1</sup> ] 2800 |
| supply                              | power/current [kW/A] 0,72/3,1       |
|                                     | fan speed [min <sup>-1</sup> ] 2800 |
| Thermal efficiency up to*           | 90%                                 |
| Motorized by-pass                   | +                                   |
| Max power consumption HE/HW         | [kW/A] 4,44/19,20 1,44/6,22         |
| Control board                       | PRV V2                              |
| Filter class                        | exhaust/supply M5/F7                |
| Housing insulation, mineral wool    | [mm] 50                             |
| Colour                              | RAL grey 7040                       |
| Weight (net, without packing) HE/HW | [kg] 252 250                        |
| Comply with ERP                     | 2016; 2018                          |
| Operation                           | indoors/outdoors***                 |
| Fresh air temperature limits**      | °C -5 - +40                         |
| Housing protection class            | IP 34                               |

\* Calculated wet efficiency.

\*\*For temperatures lower than recommended, use electrical pre-heater to ensure balanced operation.

\*\*\*With proper roof mounted

Temperature efficiency (balanced mass flow):  
Extract air = 20°C/60%RH  
Outdoor air = -7°C / 2°C / 7°C

| 2200H EKO 3.0 | Lwa total, dB(A) | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
|---------------|------------------|-------|--------|--------|--------|-------|-------|-------|-------|
| Supply        | 79               | 63    | 64     | 68     | 70     | 73    | 74    | 68    | 63    |
| Extract       | 70               | 60    | 58     | 62     | 65     | 63    | 61    | 59    | 51    |
| Surrounding   | 62               | 43    | 48     | 57     | 56     | 54    | 52    | 48    | 44    |

Measured at 2070 m³/h, 250 Pa

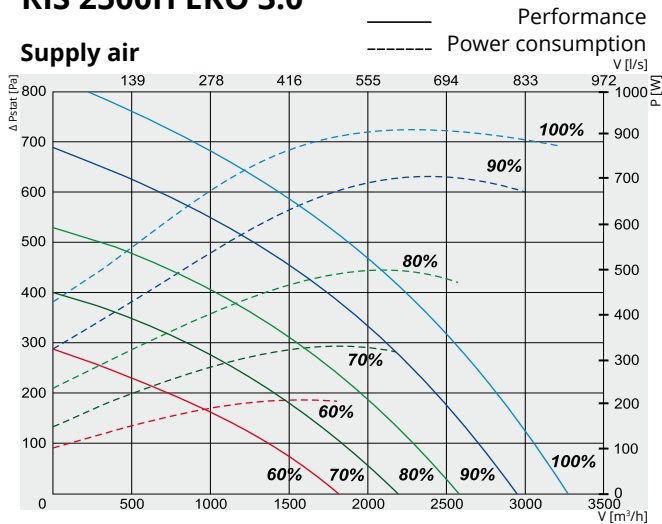
### Certifications

EUROVENT certified  
heat exchanger performance

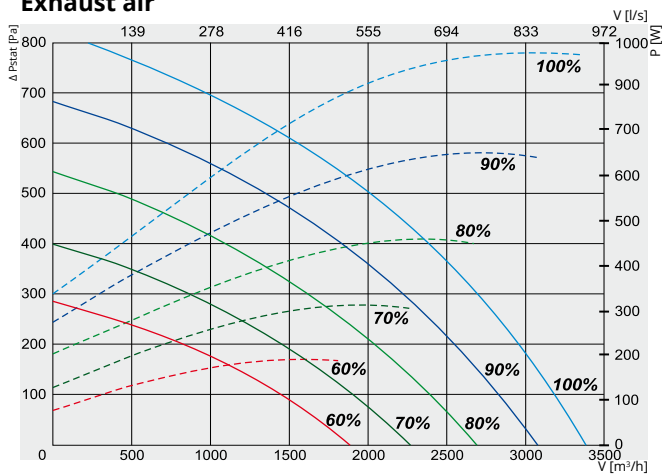


## RIS 2500H EKO 3.0

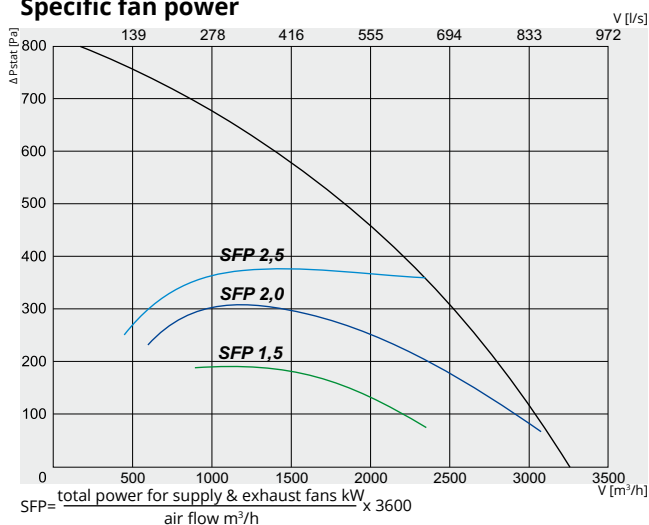
### Supply air



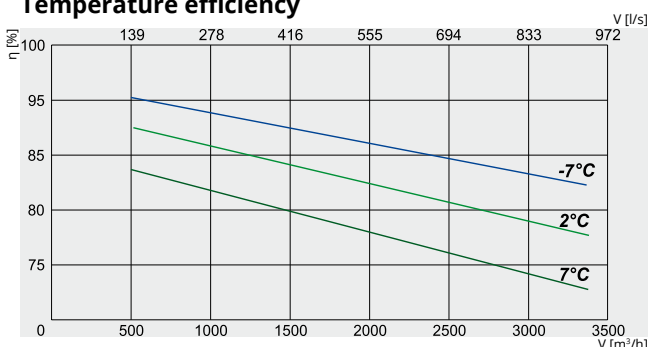
### Exhaust air



### Specific fan power

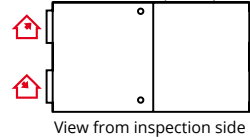


### Temperature efficiency



### RIS 2500HL EKO 3.0

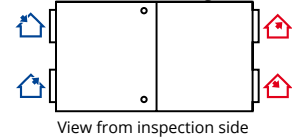
Air intake side (L - left)



View from inspection side

### RIS 2500HR EKO 3.0

Air intake side (R - right)



View from inspection side

Exhaust air Extract air outdoor air Supply air

| Article No.      | Version                                                                          |
|------------------|----------------------------------------------------------------------------------|
| GAGRIS1793_0031B | 2500HE EKO 3.0 Right-hand maintenance version with integrated electrical heater  |
| GAGRIS1794_0032A | 2500HW EKO 3.0 Right-hand maintenance version prepared for optional water heater |

### 2500HE / HW EKO 3.0

|                                  |                                                                    |
|----------------------------------|--------------------------------------------------------------------|
| Water heater (optional) HW ver.  | SVS / Comfort Box 600x350                                          |
| Electrical heater HE ver.        | phase/voltage [50Hz/VAC] ~3, 400 [kW] 3,6                          |
| EC fans                          | phase/voltage [50Hz/VAC] ~1, 230                                   |
| exhaust                          | power/current [kW/A] 0,88/3,92 fan speed [min <sup>-1</sup> ] 2200 |
| supply                           | power/current [kW/A] 1,0/4,47 fan speed [min <sup>-1</sup> ] 2200  |
| Thermal efficiency up to*        | 90%                                                                |
| Motorized by-pass                | +                                                                  |
| Max power consumption HE/HW      | [kW/A] 5,49/13,69 1,89/8,49                                        |
| Control board                    | PRV V2                                                             |
| Filter class                     | exhaust/supply M5/F7                                               |
| Housing insulation, mineral wool | [mm] 50                                                            |
| Colour                           | RAL grey 7040                                                      |
| Weight (net, without packing)    | [kg] 390 360                                                       |
| Comply with ERP                  | 2016; 2018                                                         |
| Operation                        | indoors/outdoors***                                                |
| Fresh air temperature limits**   | °C -5 - +40                                                        |
| Housing protection class         | IP 34                                                              |

\* Calculated wet efficiency.

\*\*For temperatures lower than recommended, use electrical pre-heater to ensure balanced operation.

\*\*\*With proper roof mounted.

Temperature efficiency (balanced mass flow):  
Extract air = 20°C/60%RH  
Outdoor air = -7°C / 2°C / 7°C

### 2500H EKO 3.0

|             | Lwa total, dB(A) | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
|-------------|------------------|--------|--------|--------|-------|-------|-------|-------|
| Supply      | 83               | 65     | 73     | 75     | 78    | 79    | 71    | 61    |
| Extract     | 65               | 57     | 61     | 59     | 56    | 54    | 49    | 39    |
| Surrounding | 62               | 45     | 57     | 58     | 55    | 52    | 44    | 36    |

Measured at 2976 m³/h, 121 Pa

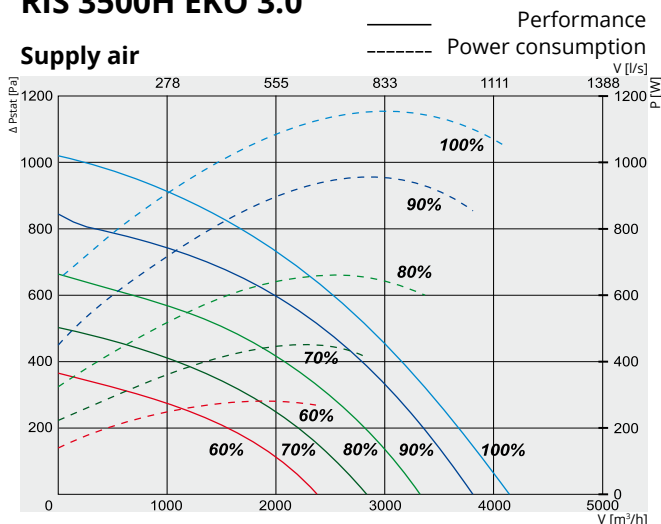
### Certifications

EUROVENT certified  
heat exchanger performance

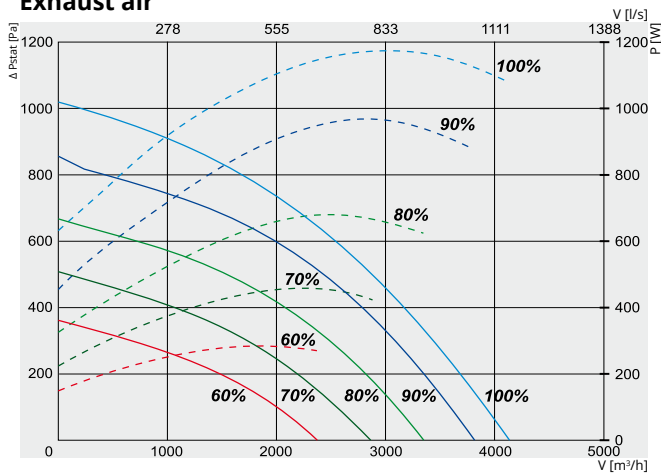


## RIS 3500H EKO 3.0

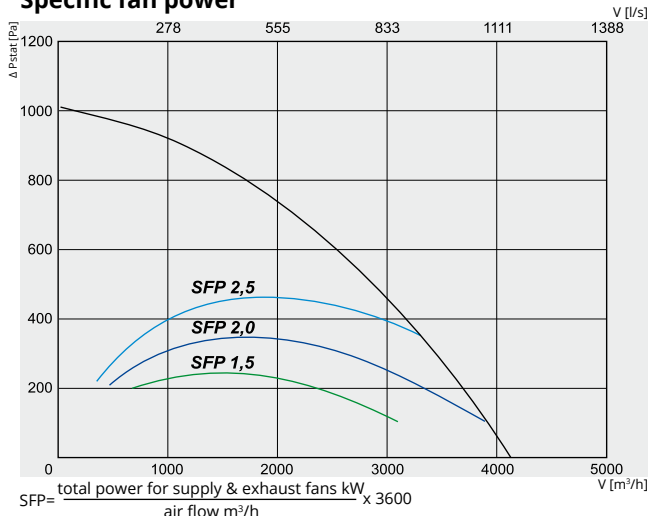
### Supply air



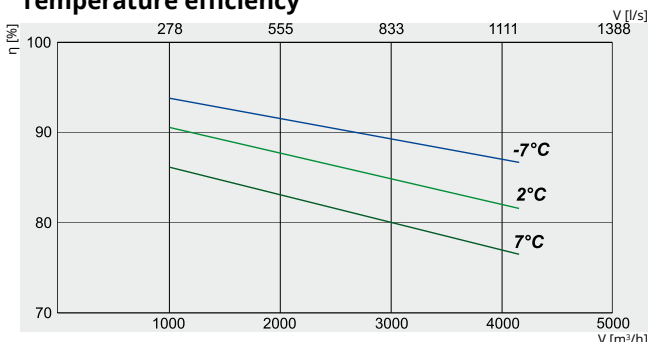
### Exhaust air



### Specific fan power

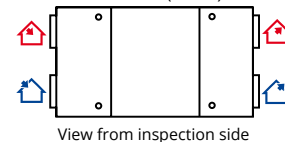


### Temperature efficiency



## RIS 3500HL EKO 3.0

Air intake side (L - left)



Exhaust air Extract air outdoor air Supply air

| Article No.      | Version                                                                          |
|------------------|----------------------------------------------------------------------------------|
| GAGRIS1781_0052B | 3500HEL EKO 3.0 Left-hand maintenance version with integrated electrical heater  |
| GAGRIS1782_0053A | 3500HWL EKO 3.0 Left-hand maintenance version prepared for optional water heater |

## 3500HE / HW EKO 3.0

|                                  |                                  |
|----------------------------------|----------------------------------|
| Water heater (optional) HW ver.  | SVS / Comfort Box 800x500        |
| Electrical heater HE ver.        | phase/voltage [50Hz/VAC] ~3, 400 |
|                                  | [kW] 6,0                         |
| EC fans                          | phase/voltage [50Hz/VAC] ~1, 230 |
| exhaust                          | power/current [kW/A] 1,16/5,4    |
|                                  | fan speed [min⁻¹] 2390           |
| supply                           | power/current [kW/A] 1,173/5,43  |
|                                  | fan speed [min⁻¹] 2390           |
| Thermal efficiency up to*        | 90%                              |
| Motorized by-pass                | +                                |
| Max power consumption HE / HW    | [kW/A] 8,34 / 19,59 2,34 / 10,95 |
| Control board                    | PRV V2                           |
| Filter class                     | exhaust/supply M5/F7             |
| Housing insulation, mineral wool | [mm] 50                          |
| Colour                           | RAL grey 7040                    |
| Weight (net, without packing)    | [kg] 627 622                     |
| Comply with ERP                  | 2016; 2018                       |
| Operation                        | indoors/outdoors***              |
| Fresh air temperature limits**   | °C -5 - +40                      |
| Housing protection class         | IP 34                            |

\* Calculated wet efficiency.

\*\*For temperatures lower than recommended, use electrical pre-heater to ensure balanced operation.

\*\*\*With proper roof mounted.

Temperature efficiency (balanced mass flow) :  
Extract air = 20°C/60%RH  
Outdoor air = -7°C / 2°C / 7°C

| 3500H EKO 3.0 | Lwa total, dB(A) | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
|---------------|------------------|--------|--------|--------|-------|-------|-------|-------|
| Supply        | 86               | 68     | 82     | 78     | 80    | 77    | 70    | 68    |
| Extract       | 72               | 66     | 66     | 65     | 64    | 58    | 49    | 45    |
| Surrounding   | 69               | 59     | 65     | 62     | 62    | 59    | 52    | 58    |

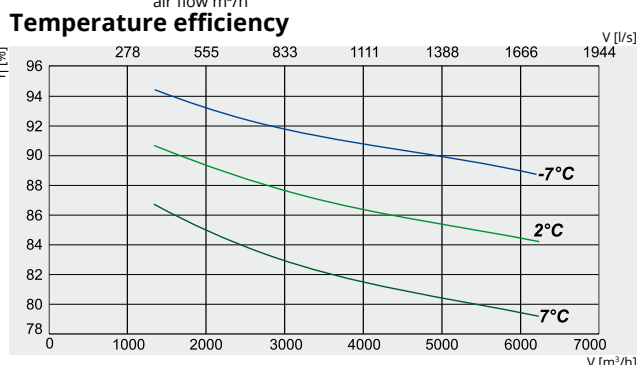
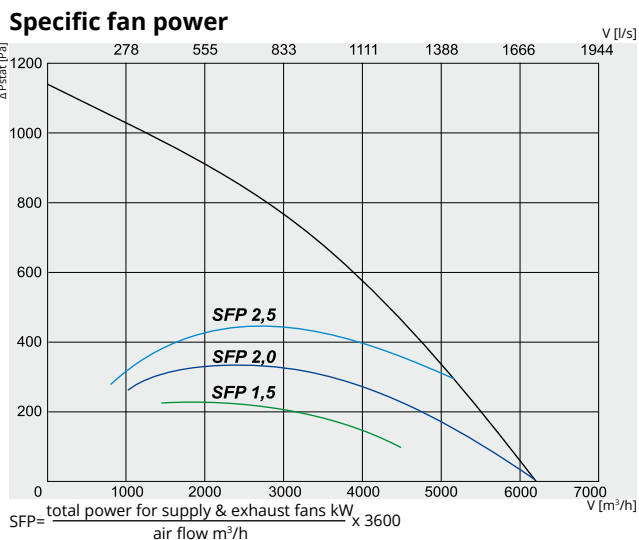
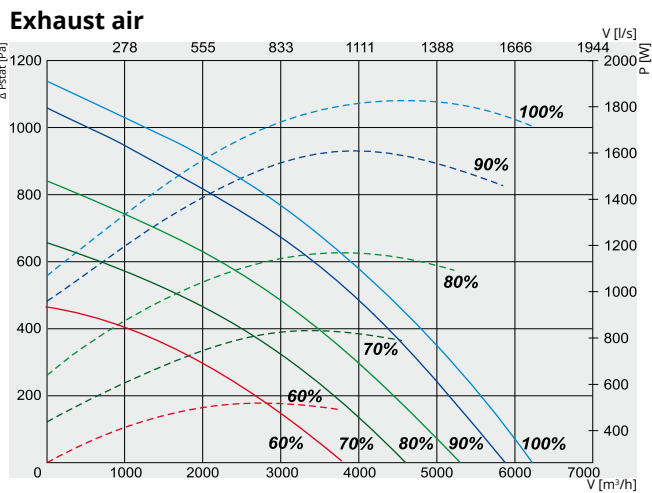
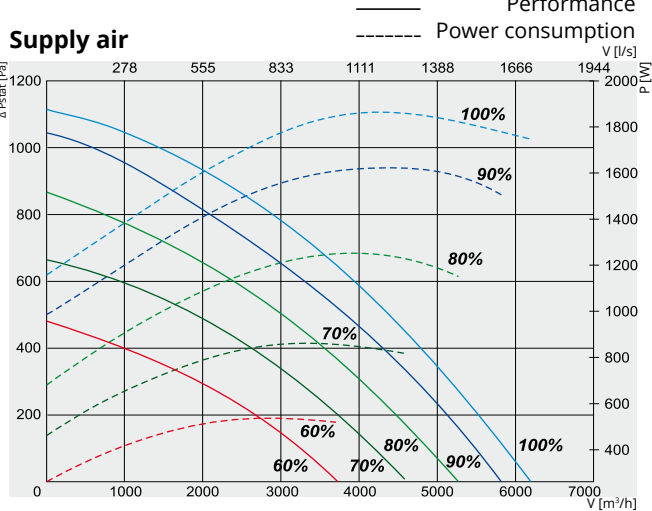
Measured at 3746 m³/h, 181 Pa

## Certifications

EUROVENT certified  
heat exchanger performance

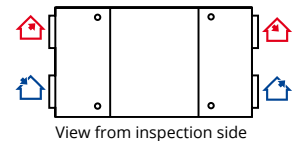


## RIS 5500H EKO 3.0



## RIS 5500HR EKO 3.0

Air intake side (R - right)



Exhaust air Extract air outdoor air Supply air

| Article No.      | Version                                                                           |
|------------------|-----------------------------------------------------------------------------------|
| GAGRIS1773_0054B | 5500HER EKO 3.0 Right-hand maintenance version with integrated electrical heater  |
| GAGRIS1774_0055B | 5500HWR EKO 3.0 Right-hand maintenance version prepared for optional water heater |

## 5500HE / HW EKO 3.0

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Water heater (optional) HW ver.       | SVS / Comfort Box 800x500           |
| Electrical heater HE ver.             | phase/voltage [50Hz/VAC] ~3, 400    |
|                                       | [kW] 12                             |
| EC fans                               | phase/voltage [50Hz/VAC] ~3, 400    |
| exhaust                               | power/current [kW/A] 1,87/3,06      |
|                                       | fan speed [min <sup>-1</sup> ] 2180 |
| supply                                | power/current [kW/A] 1,84/2,88      |
|                                       | fan speed [min <sup>-1</sup> ] 2180 |
| Thermal efficiency up to*             | 90%                                 |
| Motorized by-pass                     | +                                   |
| Max power consumption HE/HW           | [kW/A] 15,71/23,38 3,72/6,04        |
| Control board                         | PRV V2                              |
| Filter class                          | exhaust/supply M5/F7                |
| Housing insulation, mineral wool      | [mm] 60                             |
| Colour                                | RAL grey 7040                       |
| Weight (net, without packing) HE / HW | [kg] 788                            |
| Comply with ERP                       | 2016; 2018                          |
| Operation                             | indoors/outdoors***                 |
| Fresh air temperature limits**        | °C -5 - +40                         |
| Housing protection class              | IP 34                               |

\* Calculated wet efficiency.

\*\*For temperatures lower than recommended, use electrical pre-heater to ensure balanced operation.

\*\*\*With proper roof mounted.

Temperature efficiency (balanced mass flow) :  
Extract air = 20°C/60%RH  
Outdoor air = -7°C / 2°C / 7°C

| 5500HW EKO 3.0 | Lwa total, dB(A) | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
|----------------|------------------|--------|--------|--------|-------|-------|-------|-------|
| Supply         | 88               | 65     | 82     | 81     | 83    | 81    | 78    | 69    |
| Extract        | 75               | 64     | 72     | 70     | 66    | 60    | 55    | 50    |
| Surrounding    | 77               | 54     | 71     | 72     | 71    | 68    | 65    | 58    |

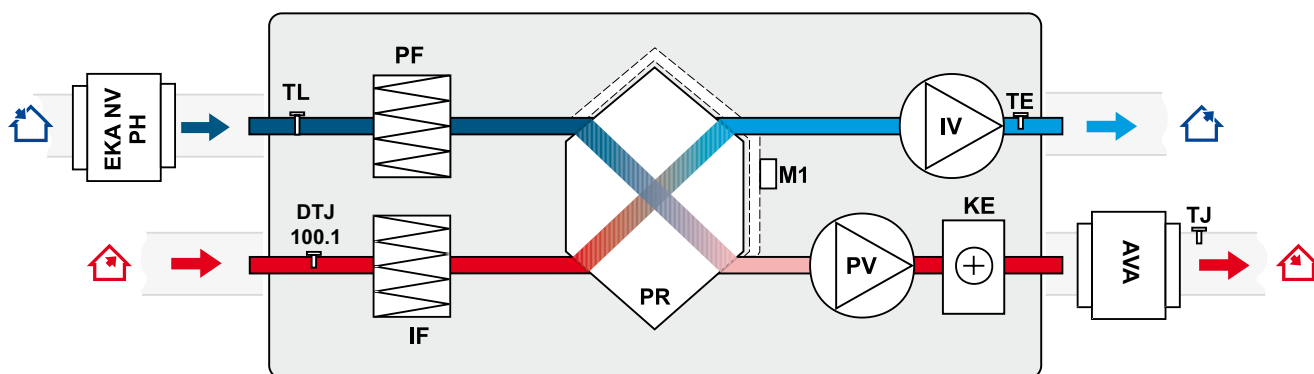
Measured at 5819 m³/h, 120 Pa

## Certifications

EUROVENT certified  
heat exchanger performance



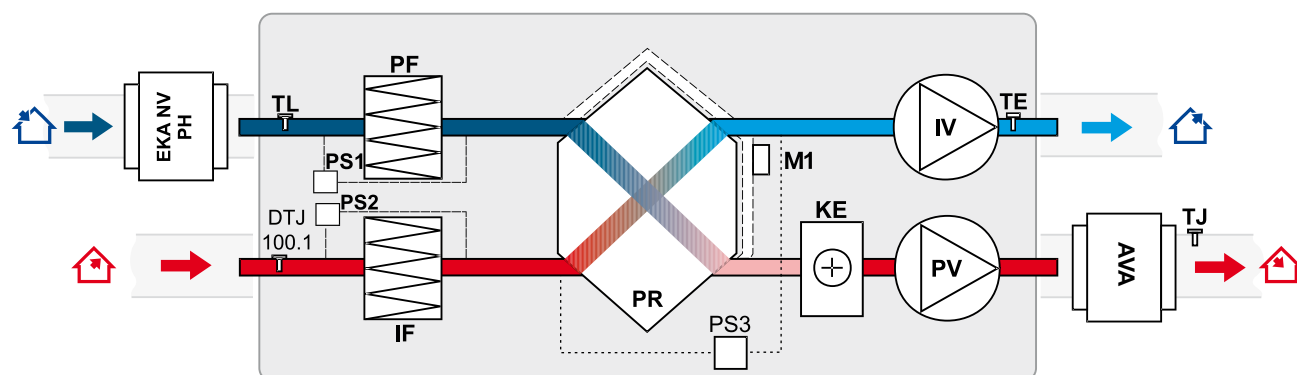
## RIS 700HE EKO 3.0 (horizontal) version with electrical heater



IV - exhaust air fan  
PV - supply air fan  
PR - plate heat exchanger  
KE - electrical heater  
PF - filter for supply air (class M5)  
IF - filter for extract air (class M5)

TJ - temperature sensor for supply air  
TL - temperature sensor for fresh air  
TE - temperature sensor for exhaust air  
M1 - actuator of by-pass damper  
DTJ 100.1 - humidity + temperature sensor  
EKA NV PH - optional fresh air pre-heater  
AVA - optionally supplied water cooler

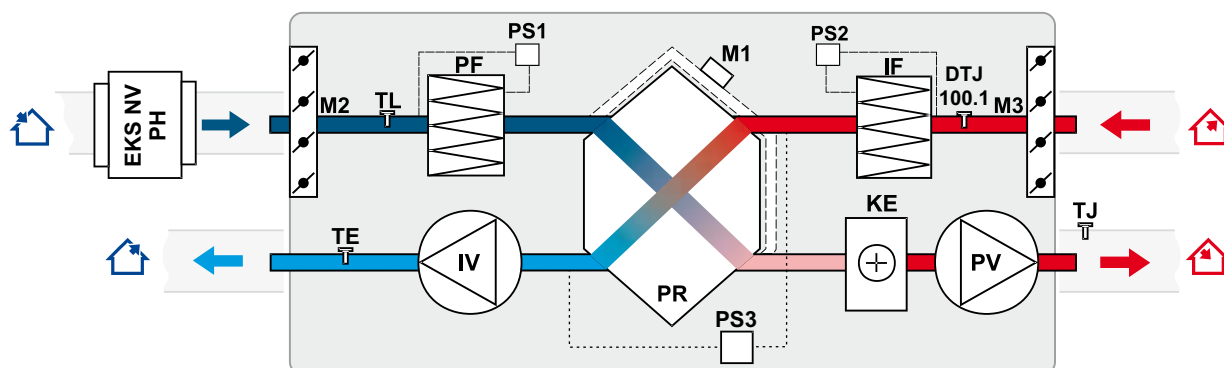
## RIS 1200HE EKO 3.0 / RIS 1900HE EKO 3.0 / RIS 2200HE EKO 3.0 (horizontal) versions with electrical heater



EKA NV PH - optional fresh air pre-heater  
IV - exhaust air fan  
PV - supply air fan  
PR - plate heat exchanger  
KE - electrical heater  
PF - filter for supply air (class F7)  
IF - filter for extract air (class M5)  
TE - temperature sensor for extract air

AVA - optionally supplied water cooler  
TL - temperature sensor for fresh air  
TJ - temperature sensor for supply air  
M1 - actuator of by-pass damper  
PS1 - supply air differential pressure switch  
PS2 - extract air differential pressure switch  
PS3 - heat exchanger antifrost pressure switch  
DTJ 100.1 - humidity + temperature sensor

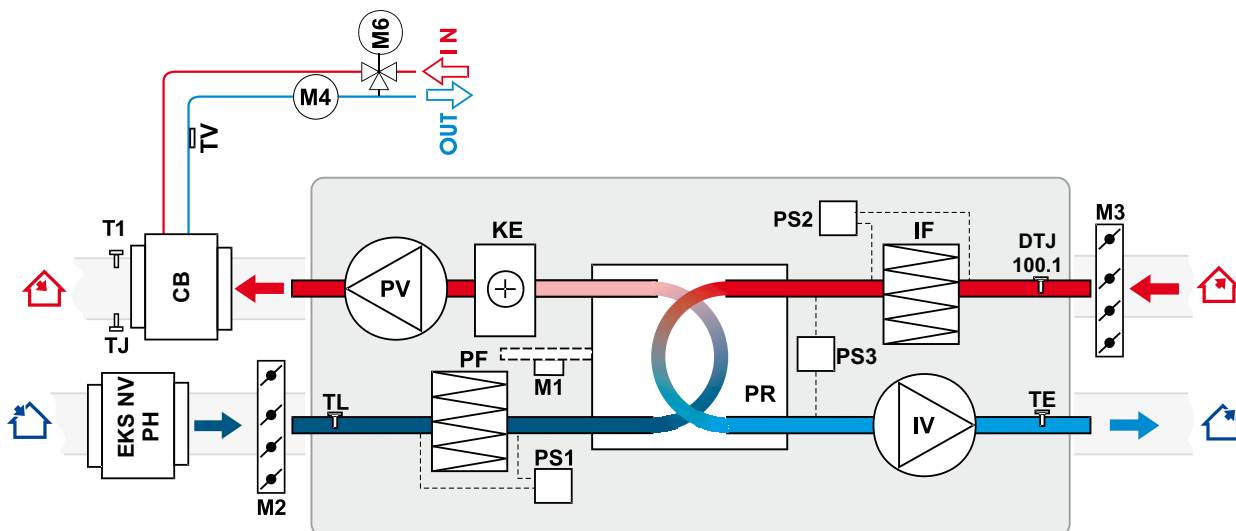
## RIS 2500HE EKO 3.0 (horizontal) version with electrical heater



**IV** - exhaust air fan  
**PV** - supply air fan  
**PR** - plate heat exchanger  
**KE** - electrical heater  
**PF** - filter for supply air (class F7)  
**IF** - filter for extract air (class M5)  
**DTJ 100.1** - humidity + temperature sensor  
**TE** - temperature sensor for extract air  
**EKS NV PH** - optional outdoor air heater

**TL** - temperature sensor for fresh air  
**TJ** - temperature sensor for supply air  
**M1** - actuator of by-pass damper  
**M2** - actuator of fresh air damper  
**M3** - actuator of extract air damper  
**PS1** - supply air differential pressure switch  
**PS2** - extract air differential pressure switch  
**PS3** - heat exchanger antifrost pressure switch

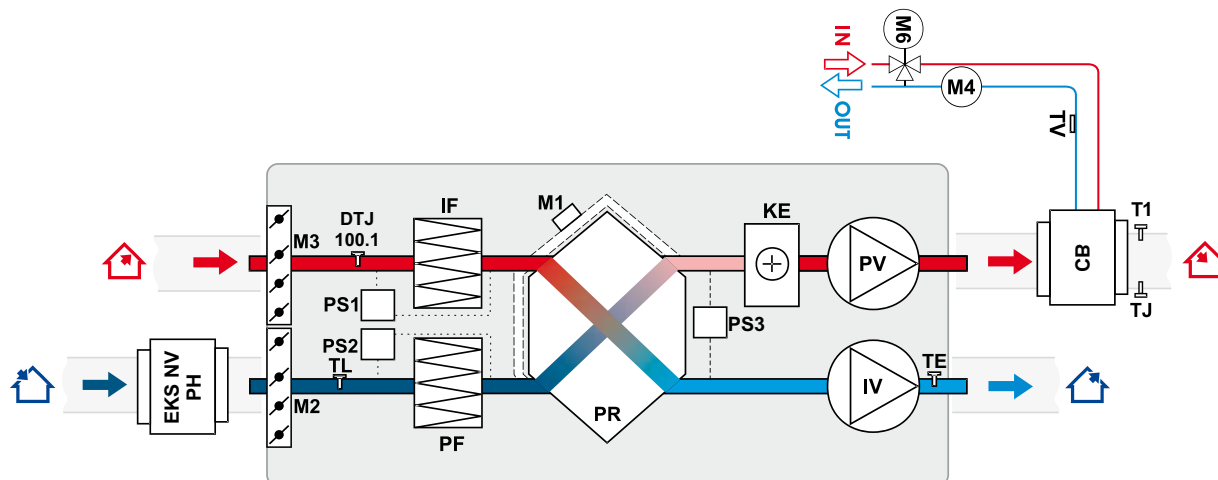
## RIS 3500HE EKO 3.0 (horizontal) version with electrical heater



**IV** - exhaust air fan  
**PV** - supply air fan  
**PR** - plate heat exchanger  
**KE** - electrical heater  
**PF** - filter for fresh air (class F7)  
**IF** - filter for extract air (class M5)  
**DTJ 100.1** - humidity + temperature sensor  
**TL** - temperature sensor for fresh air  
**CB** - water heater/cooler  
**M6** - optionally supplied mixing valve and motor  
**M4** - water heater circulation pump

**TE** - temperature sensor for exhaust air  
**TV** - antifrost sensor  
**T1** - antifrost thermostat  
**EKS NV PH** - optional outdoor air heater  
**TJ** - temperature sensor for supply air  
**M1** - actuator of by-pass damper  
**M2** - actuator of fresh air damper  
**M3** - actuator of extract air damper  
**PS1** - supply air differential pressure switch  
**PS2** - extract air differential pressure switch  
**PS3** - heat exchanger antifrost pressure switch

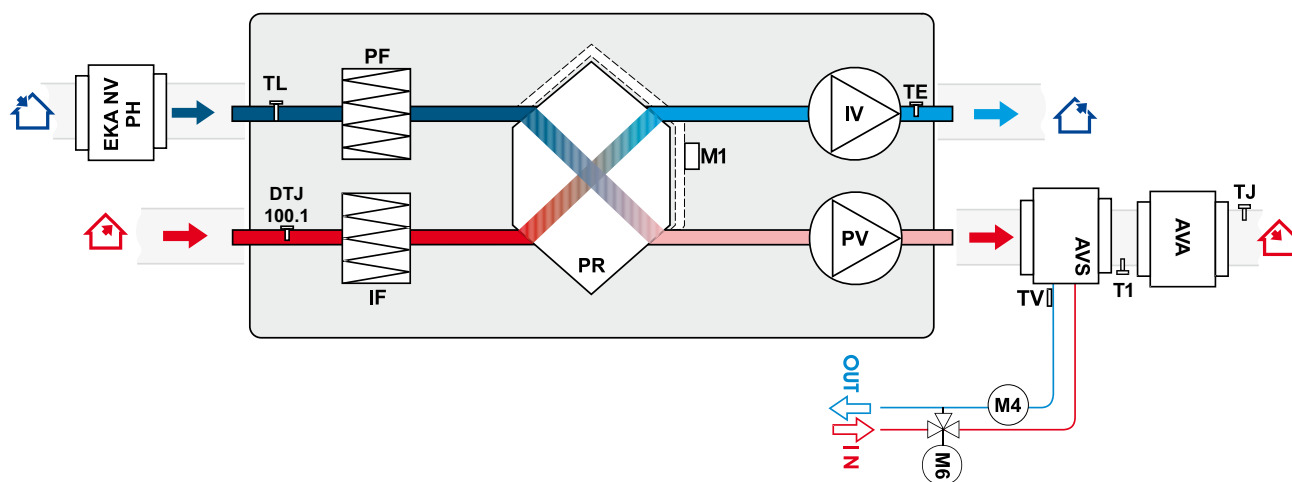
## RIS 5500HE EKO 3.0 (horizontal) version with electrical heater



**IV** - exhaust air fan  
**PV** - supply air fan  
**PR** - plate heat exchanger  
**KE** - electrical heater  
**PF** - filter for supply air (class F7)  
**IF** - filter for extract air (class M5)  
**DTJ 100.1** - humidity + temperature sensor  
**TL** - temperature sensor for fresh air  
**TE** - temperature sensor for exhaust air  
**TV** - antifrost sensor  
**T1** - antifrost thermostat

**CB** - water heater/cooler  
**EKS NV PH** - optional outdoor air heater  
**TJ** - temperature sensor for supply air  
**M1** - actuator of by-pass damper  
**M2** - actuator of fresh air damper  
**M3** - actuator of extract air damper  
**M6** - optionally supplied mixing valve and motor  
**M4** - water heater circulation pump  
**PS1** - supply air differential pressure switch  
**PS2** - extract air differential pressure switch  
**PS3** - heat exchanger antifrost pressure switch

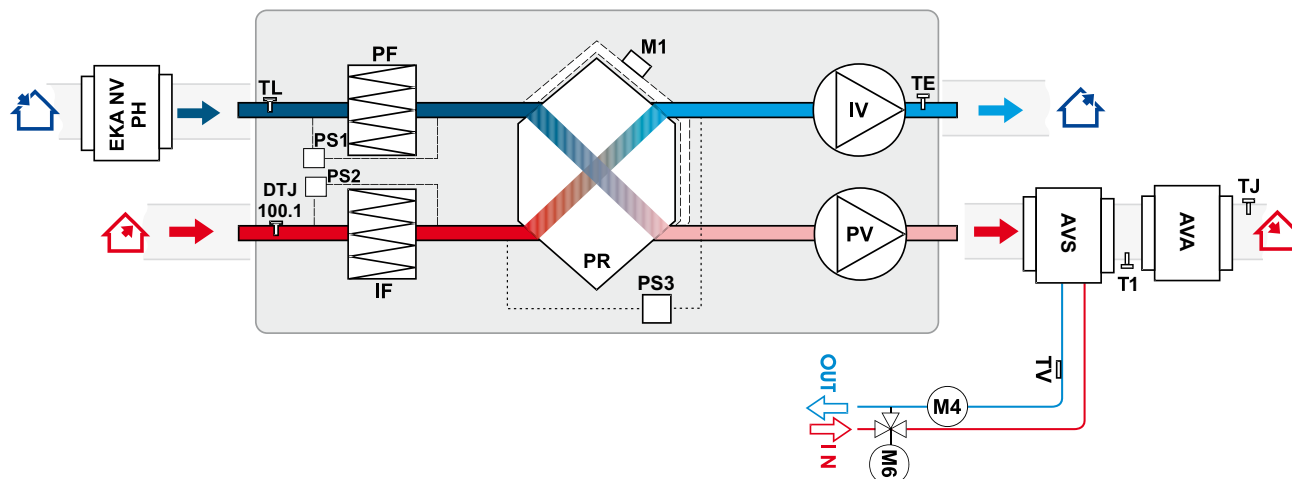
## RIS 700HW EKO 3.0 version with optional water heater



**AVS** - optionally supplied water heater  
**AVA** - optionally supplied water cooler  
**IV** - exhaust air fan  
**PV** - supply air fan  
**PR** - plate heat exchanger  
**PF** - filter for supply air (class M5)  
**IF** - filter for extract air (class M5)  
**TJ** - temperature sensor for supply air  
**TL** - temperature sensor for fresh air

**TE** - temperature sensor for exhaust air  
**TV** - antifrost sensor  
**T1** - antifrost thermostat  
**DTJ 100.1** - humidity + temperature sensor  
**M1** - actuator of by-pass damper  
**M4** - water heater circulation pump  
**M6** - optionally supplied mixing valve and motor  
**EKA NV PH** - optional fresh air pre-heater

## RIS 1200HW EKO 3.0 / RIS 1900HW EKO 3.0 / RIS 2200HW EKO 3.0 (horizontal) version with optional water heater



**EKA NV PH** - optional fresh air pre-heater

**IV** - exhaust air fan

**PV** - supply air fan

**PR** - plate heat exchanger

**PF** - filter for supply air (class F7)

**IF** - filter for extract air (class M5)

**TL** - temperature sensor for fresh air

**TJ** - temperature sensor for supply air

**TV** - antifrost sensor

**T1** - antifrost thermostat

**AVA** - optionally supplied water cooler

**AVS** - water heater

**M1** - actuator of by-pass damper

**M6** - optionally supplied mixing valve and motor

**M4** - water heater circulation pump

**PS1** - supply air differential pressure switch

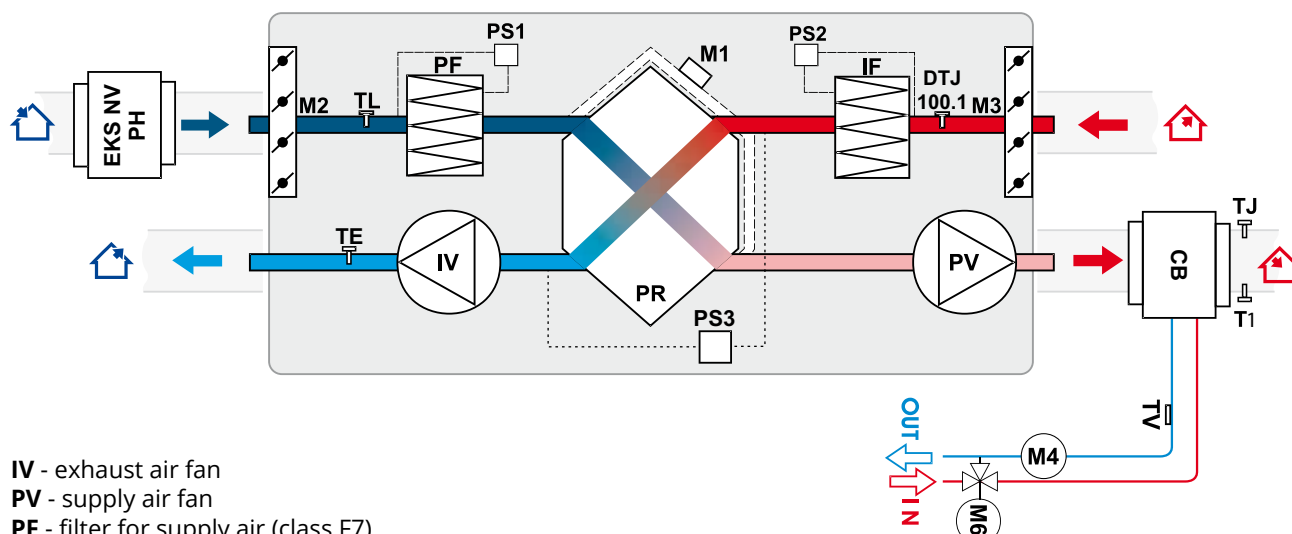
**PS2** - extract air differential pressure switch

**PS3** - heat exchanger antifrost pressure switch

**DTJ 100.1** - humidity + temperature sensor

**TE** - temperature sensor for extract air

## RIS 2500HW EKO 3.0 (horizontal) version with optional water heater



**IV** - exhaust air fan

**PV** - supply air fan

**PF** - filter for supply air (class F7)

**IF** - filter for extract air (class M5)

**PR** - plate heat exchanger

**DTJ 100.1** - humidity + temperature sensor

**TL** - temperature sensor for fresh air

**TV** - antifrost sensor

**T1** - antifrost thermostat

**TE** - temperature sensor for extract air

**EKS NV PH** - optional outdoor air heater

**CB** - water heater/cooler

**TJ** - temperature sensor for supply air

**M** - actuator of by-pass damper

**M2** - actuator of fresh air damper

**M3** - actuator of extract air damper

**M6** - optionally supplied mixing valve and motor

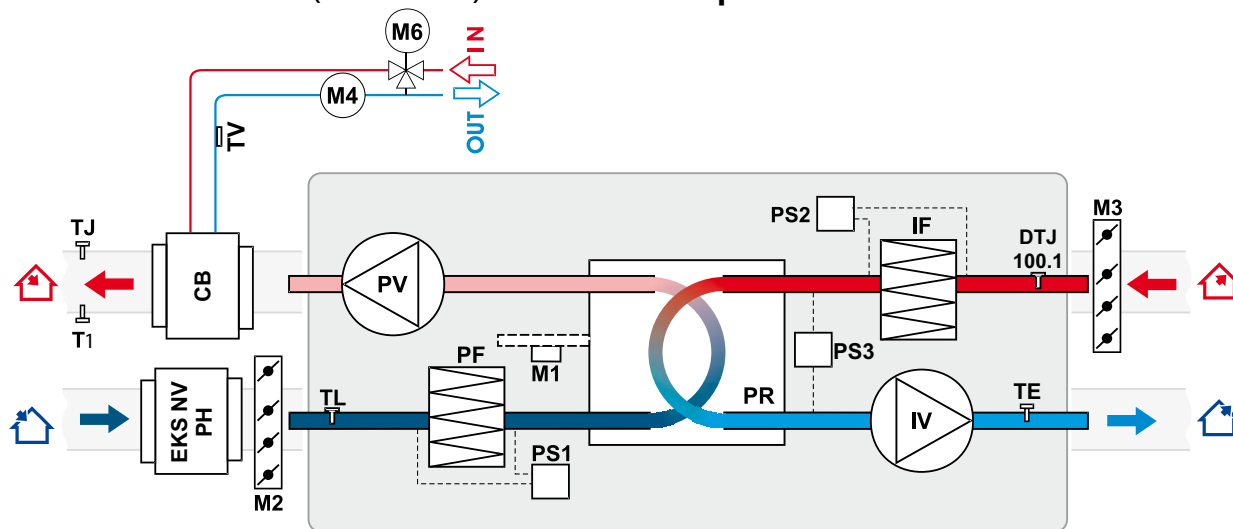
**M4** - water heater circulation pump

**PS1** - supply air differential pressure switch

**PS2** - extract air differential pressure switch

**PS3** - heat exchanger antifrost pressure switch

## RIS 3500HW EKO 3.0 (horizontal) version with optional water heater



**CB** - water heater/cooler

**IV** - exhaust air fan

**PV** - supply air fan

**PR** - plate heat exchanger

**PF** - filter for supply air (class F7)

**IF** - filter for extract air (class M5)

**DTJ 100.1** - humidity + temperature sensor

**TL** - temperature sensor for fresh air

**TV** - antifrost sensor

**T1** - antifrost thermostat

**TE** - temperature sensor for exhaust air

**EKS NV PH** - optional outdoor air heater

**TJ** - temperature sensor for supply air

**M1** - actuator of by-pass damper

**M2** - actuator of fresh air damper

**M3** - actuator of extract air damper

**M6** - optionally supplied mixing valve and motor

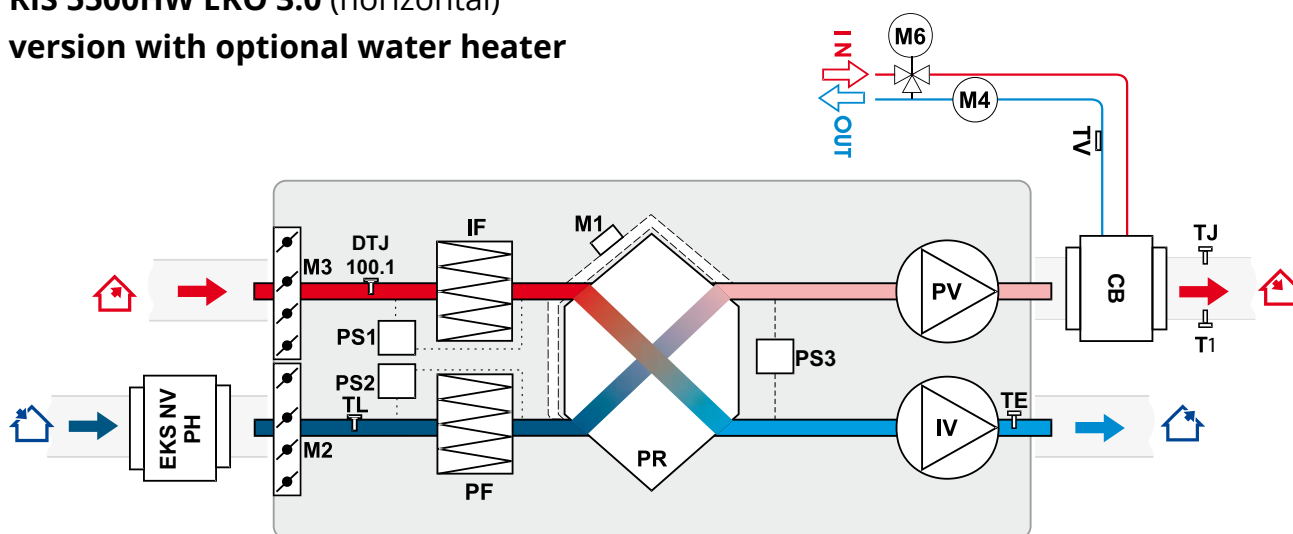
**M4** - water heater circulation pump

**PS1** - supply air differential pressure switch

**PS2** - extract air differential pressure switch

**PS3** - heat exchanger antifrost pressure switch

## RIS 5500HW EKO 3.0 (horizontal) version with optional water heater



**CB** - water heater/cooler

**IV** - exhaust air fan

**PV** - supply air fan

**PR** - plate heat exchanger

**PF** - filter for supply air (class F7)

**IF** - filter for extract air (class M5)

**DTJ 100.1** - humidity + temperature sensor

**TL** - temperature sensor for fresh air

**TV** - antifrost sensor

**T1** - antifrost thermostat

**TJ** - temperature sensor for supply air

**M1** - actuator of by-pass damper

**M2** - actuator of fresh air damper

**M3** - actuator of extract air damper

**M6** - optionally supplied mixing valve and motor

**M4** - water heater circulation pump

**PS1** - supply air differential pressure switch

**PS2** - extract air differential pressure switch

**PS3** - heat exchanger antifrost pressure switch

**EKS NV PH** - optional outdoor air heater

| FUNCTIONS                                                                                                                                                     |  |             |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|----|
| Description of the functions                                                                                                                                  |  | PRV V2      |    |
|                                                                                                                                                               |  | RIS EKO 3.0 |    |
|                                                                                                                                                               |  | E           | W  |
| Functions                                                                                                                                                     |  |             |    |
| Date and time settings                                                                                                                                        |  | ✓           | ✓  |
| 4 speeds for easy and user-friendly control ("Stop" – the unit is stopped; "Low", medium", and "High". Service menu allows adjusting each speed individually) |  | ✓           | ✓  |
| BOOST function (Fans operate at highest speed)                                                                                                                |  | ✓           | ✓  |
| Comfortable air temperature function                                                                                                                          |  | ✓           | ✓  |
| Cold/heat recovery                                                                                                                                            |  | ✓           | ✓  |
| Fire place function                                                                                                                                           |  | ✓           | ✓  |
| Dryness protection                                                                                                                                            |  | ✓           | ✓  |
| Weekly schedule                                                                                                                                               |  | ✓           | ✓  |
| Holiday schedule                                                                                                                                              |  | ✓           | ✓  |
| User and service control levels                                                                                                                               |  | ✓           | ✓  |
| Manual air flow balancing                                                                                                                                     |  | ✓           | ✓  |
| CO <sub>2</sub> level indication and reduction function                                                                                                       |  | ✓           | ✓  |
| Night cooling function                                                                                                                                        |  | ✓           | ✓  |
| Relative humidity (RH) level indication and reduction function                                                                                                |  | ✓           | ✓  |
| Software and configuration update possibility                                                                                                                 |  | ✓           | ✓  |
| Supply air temperature control according to the extract air sensor                                                                                            |  | ✓           | ✓  |
| Monitoring function (all sensors and I/O)                                                                                                                     |  | ✓2          | ✓2 |
| Mode switch (start/stop)                                                                                                                                      |  | ✓           | ✓  |
| Extracted air relative humidity converter                                                                                                                     |  | ✓           | ✓  |
| Manual components control                                                                                                                                     |  | ✓1          | ✓1 |
| Functional units                                                                                                                                              |  |             |    |
| Fans                                                                                                                                                          |  |             |    |
| Soft start and stop                                                                                                                                           |  | ✓           | ✓  |
| Fan failure protection                                                                                                                                        |  | ✓           | ✓  |
| Speed synchronous/asynchronous 0-10V control                                                                                                                  |  | ✓           | ✓  |
| Electric heater                                                                                                                                               |  |             |    |
| On/Off / PWM control                                                                                                                                          |  | ✓           |    |
| Manual protection                                                                                                                                             |  | ✓           |    |
| Overheat protection (additional protection software)                                                                                                          |  | ✓           | ✓  |
| Water heater                                                                                                                                                  |  |             |    |
| Pulse-width modulation (PWM) valve actuator control                                                                                                           |  |             | ✓  |
| Protection using temperature sensor                                                                                                                           |  |             | ✓  |
| Protection using thermostat (NC)                                                                                                                              |  |             | ✓  |
| Circulation pump control                                                                                                                                      |  |             | ✓  |
| Return water temperature sensor                                                                                                                               |  | ✓           | ✓  |
| DX cooler                                                                                                                                                     |  |             |    |
| Control On/Off                                                                                                                                                |  | ✓           | ✓  |
| Water cooler                                                                                                                                                  |  |             |    |
| Pulse-width modulation (PWM) valve actuator control                                                                                                           |  |             | ✓  |
| Control with three-positional valve actuator                                                                                                                  |  | ✓           | ✓  |
| Bypass damper                                                                                                                                                 |  |             |    |
| 3-position actuator control                                                                                                                                   |  | ✓           | ✓  |
| Filter pollution monitoring                                                                                                                                   |  |             |    |
| By pressure switch (NC)                                                                                                                                       |  | ✓           | ✓  |
| By filter timer                                                                                                                                               |  | ✓           | ✓  |
| Sensors                                                                                                                                                       |  |             |    |
| Supply air temperature sensor                                                                                                                                 |  | ✓           | ✓  |
| Fresh air temperature sensor                                                                                                                                  |  | ✓           | ✓  |
| Exhaust air temperature sensor                                                                                                                                |  | ✓           | ✓  |
| Extract air temperature sensor                                                                                                                                |  | ✓           | ✓  |
| Emergency signals and inputs/outputs                                                                                                                          |  |             |    |
| Fire protection input                                                                                                                                         |  | ✓           | ✓  |
| Working indication output                                                                                                                                     |  | ✓           | ✓  |
| Alarm indication output                                                                                                                                       |  | ✓           | ✓  |
| Remote controllers                                                                                                                                            |  |             |    |
| Stouch                                                                                                                                                        |  | ✓           | ✓  |
| Flex                                                                                                                                                          |  | ✓           | ✓  |
| Ptouch                                                                                                                                                        |  | ✓           | ✓  |
| MB-Gateway                                                                                                                                                    |  | ✓           | ✓  |

|   |                                 |   |              |
|---|---------------------------------|---|--------------|
| 1 | With FLEX TEST remote controler | 2 | Only sensors |
|---|---------------------------------|---|--------------|