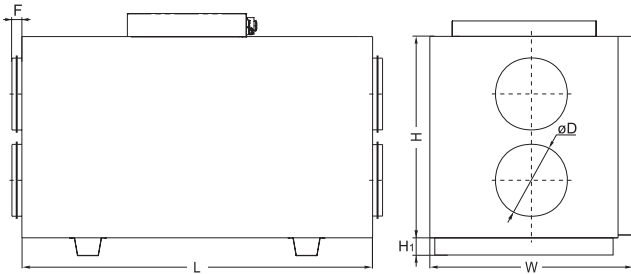
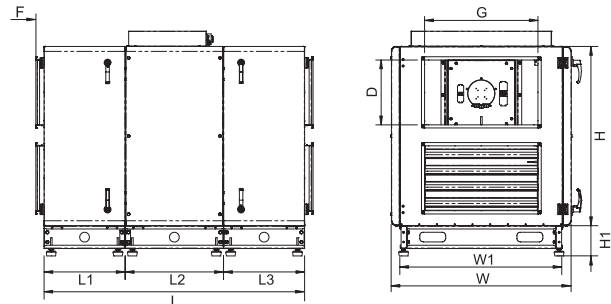


| | |
|--------------------------|--|
| Application | Ventilation of houses, small public buildings, offices or other heated premises (classrooms, apartments, conference rooms, etc.). |
| Description | <p>RIRS H EKO 3.0 is a range of heat recovery units with high-efficiency rotor heat exchangers. The units are designed for horizontal placement in auxiliary heated or non-heated premises (basements, boiler rooms, etc.) or outdoors (with roofing).</p> <p>There are 7 sizes (airflow interval 430-6000 m³/h) with separate heaters available for different climate zones. RIRS H EKO 3.0 units have high overall energy savings due to the highly efficient heat recovery (up to 85%), quiet and economical EC fans, effective low pressure drop filters and top-level of air tightness.</p> <p>All RIRS H EKO 3.0 units are fully equipped with automatic controls.</p> <p>Optional external sensors for CO₂ and humidity and the summer mode feature will guarantee the highest comfort (demand-level control).</p> <p>RIRS H EKO 3.0 units are service-friendly and easy to mount. Filter pollution may be identified by timers or contamination controls (RIRS 1200-5500 H EKO 3.0). Rotor fault indicator is included in every AHU. All units are supplied tested and ready to install.</p> |
| Controls | <p>Three remote control options are available:</p> <ol style="list-style-type: none"> 1. Flex, Stouch or Ptouch remote controllers. 2. Building management system connections. 3. Remote control via PC MB-Gateway. |
| The main Features | <ul style="list-style-type: none"> › Efficient rotor heat exchanger with up to 85% heat recovery. › Water/electrical heating options. › Easy and quick mounting. › Controlled airflow. › Fully integrated plug-and-play control system. › Outdoor versions and convertible inspection side. |
| Rotor | <ul style="list-style-type: none"> › Eurovent certified. › Plate gap 1,4-1,9 mm. › Rotor fault indicator. › Minimal airflow mixing. › Appropriate "Purge sector" size (for RIRS 2500, 3500 and 5500 H EKO 3.0). |
| Construction | <ul style="list-style-type: none"> › Frameless construction from double-skinned steel, with powder coated paint, panels. › Acoustic and thermal wall insulation – 50 mm. › Hinged door with locks grants easy access to internal components. › Separate compartment on the side of the unit grants quick access to the control board (plug-and-play). › Three sensors for fresh, supply and extract air temperatures. › Anti-vibration pads (optional for RIRS 400-1900 H EKO 3.0; standard for RIRS 2500-5500 H EKO 3.0). › Integrated electrical heater or optional water heater/cooler (on duct). › Water heater with frost protection kit available. › Low pressure drop filters: F7/M5. › RIRS 1200-5500 H EKO 3.0 optional roof and outlet covers for outdoor placement. › RIRS 2500-5500 H EKO 3.0 delivered in three sections › RIRS 2500-5500 H EKO 3.0 integrated motorized dampers for fresh and exhaust air. › Integrated pressure switch for filter pollution alarm (RIRS 1200-5500 H EKO 3.0). › RHX versions (rotor speed control, using stepper motor and driver). |

RIRS 400 - 1900H EKO 3.0



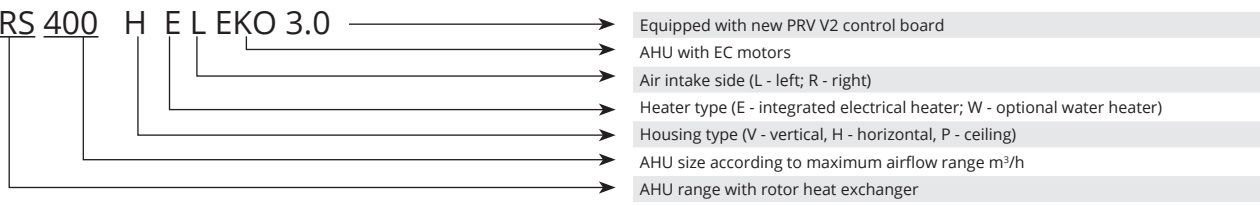
RIRS 2500 - 5500H EKO 3.0



Dimensions [mm]

| Unit | L | L1 | L2 | L3 | W | W1 | H | H ₁ | ØD | G | D | F |
|------------------------|------|-----|-----|-----|------|------|------|----------------|-----|-----|-----|----|
| RIRS 400HE/HW EKO 3.0 | 1000 | - | - | - | 560 | 560 | 610 | 40 | 200 | - | - | 30 |
| RIRS 700HE/HW EKO 3.0 | 1100 | - | - | - | 654 | 653 | 700 | 40 | 250 | - | - | 40 |
| RIRS 1200HE/HW EKO 3.0 | 1350 | - | - | - | 855 | 853 | 900 | 70 | 315 | - | - | 40 |
| RIRS 1900HE/HW EKO 3.0 | 1350 | - | - | - | 855 | 853 | 900 | 70 | 315 | - | - | 40 |
| RIRS 2500HE/HW EKO 3.0 | 1608 | 500 | 606 | 500 | 1110 | 1000 | 1105 | 190 | - | 700 | 400 | 50 |
| RIRS 3500HE/HW EKO 3.0 | 1900 | 630 | 628 | 630 | 1040 | 1205 | 1300 | 190 | - | 700 | 400 | 50 |
| RIRS 5500HE/HW EKO 3.0 | 1908 | 600 | 700 | 600 | 1404 | 1394 | 1485 | 190 | - | 800 | 500 | 50 |

RIRS 400 H E L EKO 3.0



Accessories

| | | | | | | | |
|---|---|---|---|---|---|--|---|
| Remote controller Ptouch p. 175 | Control panel FLEX p. 177 | Remote controller Stouch p. 176 | Net module MB-Gateway p. 178 | Pressure transmitter S-1141 p. 179 | CO2 sensor S-RC02-F2 p. 180 | Humidity sensor S-KFF-U p. 181 | Thermic water valve actuator SSB p. 195 |
| Circular duct silencer AKS p. 216 | Mounting clamp AP p. 219 | Shut-off damper SKG p. 212 | Heating coil AVS p. 185 | Circular duct water cooler AVA p. 193 | Rectangular duct silencer SKS p. 215 | Water heating coil SVS p. 190 | Comfort Box CB p. 183 |
| Actuator for dampers SP p. 210 | Temperature sensor TJP-10K p. 182 | Mixing point RMG p. 196 | 2 and 3 way valves VVP/VXP p. 197 | Electrical duct pre-heater EKA NV PH p. 201 | Electrical duct pre-heater EKS NV PH p. 203 | | |

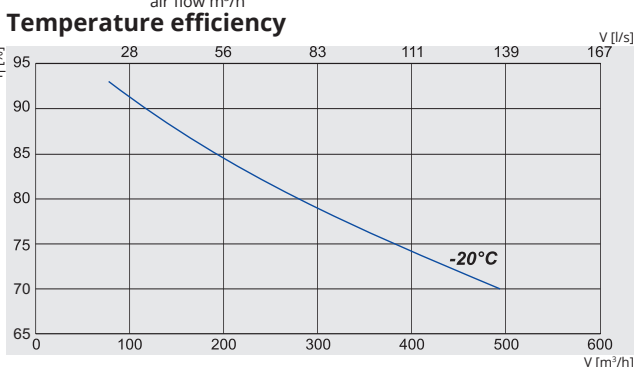
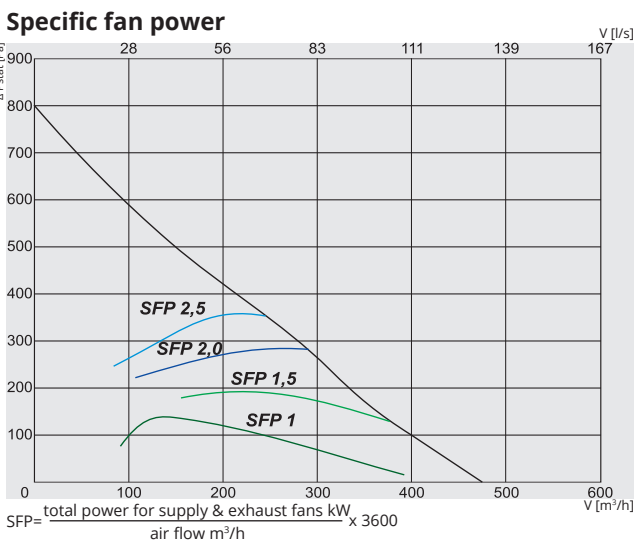
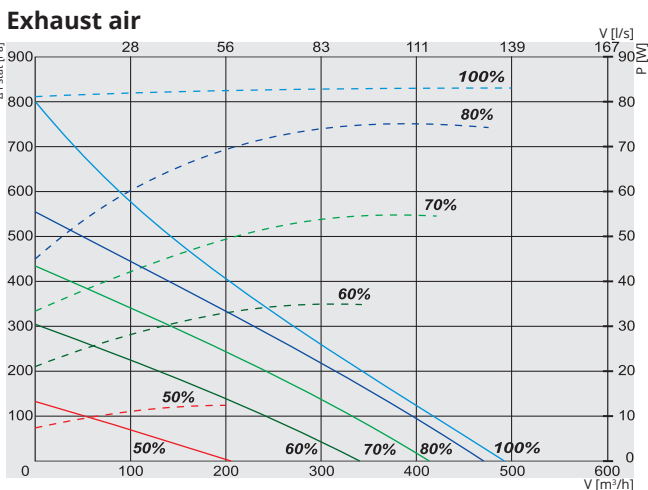
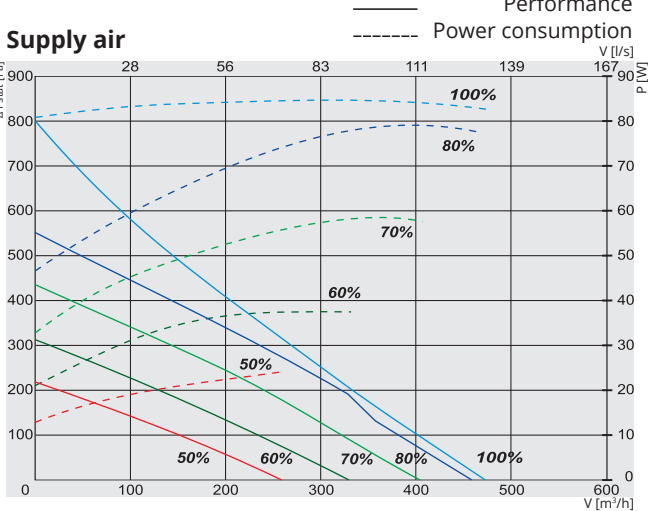
| Unit | Optional accessories | | | | | | | | | |
|---------------------|-------------------------------|--------------------------|------------|---------|---------|---------|-------------|-------------|-------------|-----------------|
| | Flex Stouch Ptouch MB-Gateway | S-1141 S-RC02-F2 S-KFF-U | AKS SKG AP | AVS AVA | SKS | SVS | Comfort Box | SP Supply | SP Exhaust | TJP 10P CO4C*** |
| RIRS 400HE EKO 3.0 | + | + | 160 | 160 | - | - | - | CM230-1-F-L | CM230-1-F-L | - |
| RIRS 400HW EKO 3.0 | + | + | 160 | 160 | - | - | - | TF230 | CM230-1-F-L | incl |
| RIRS 700HE EKO 3.0 | + | + | 250 | 250 | - | - | - | CM230-1-F-L | CM230-1-F-L | - |
| RIRS 700HW EKO 3.0 | + | + | 250 | 250 | - | - | - | TF230 | CM230-1-F-L | incl |
| RIRS 1200HE EKO 3.0 | + | + | 315 | 315 | - | - | - | LM230A-TP | LM230A-TP | - |
| RIRS 1200HW EKO 3.0 | + | + | 315 | 315 | - | - | - | LF230 | LM230A-TP | incl |
| RIRS 1900HE EKO 3.0 | + | + | 315 | 315 | - | - | - | LM230A-TP | LM230A-TP | - |
| RIRS 1900HW EKO 3.0 | + | + | 315 | 315 | - | - | - | LF230 | LM230A-TP | incl |
| RIRS 2500HE EKO 3.0 | + | + | - | - | 700x400 | - | 600x350 | int | | - |
| RIRS 2500HW EKO 3.0 | + | + | - | - | 700x400 | 700x400 | 600x350 | int | | incl |
| RIRS 3500HE EKO 3.0 | + | + | - | - | 700x400 | - | 800x500 | int | | - |
| RIRS 3500HW EKO 3.0 | + | + | - | - | 700x400 | 700x400 | 800x500 | int | | incl |
| RIRS 5500HE EKO 3.0 | + | + | - | - | 800x500 | - | 800x500 | int | | - |
| RIRS 5500HW EKO 3.0 | + | + | - | - | 800x500 | 800x500 | 800x500 | int | | incl |

*** - anti-frost thermostat
incl - included

| Unit | Optional accessories | | | | | | | |
|---------------------|----------------------|-----------|-------------|-------------|-------------|-------------|-----------------|-----------------|
| | EKA NV PH | EKS NV PH | SSB Heating | SSB Cooling | RMG 80/60°C | RMG 60/40°C | VVP/VXP 80/60°C | VVP/VXP 60/40°C |
| RIRS 400HE EKO 3.0 | 160 | - | - | 81 | - | - | - | - |
| RIRS 400HW EKO 3.0 | 160 | - | 61 | 81 | 3-0,63-4 | 3-0,63-4 | 45.10-0,63 | 45.10-0,63 |
| RIRS 700HE EKO 3.0 | 250 | - | - | 81 | - | - | - | - |
| RIRS 700HW EKO 3.0 | 250 | - | 61 | 81 | 3-1,0-4 | 3-0,63-4 | 45.10-1,0 | 45.10-0,63 |
| RIRS 1200HE EKO 3.0 | 315 | - | - | 81 | - | - | - | - |
| RIRS 1200HW EKO 3.0 | 315 | - | 61 | 81 | 3-1,0-4 | 3-0,63-4 | 45.10-1,0 | 45.10-0,63 |
| RIRS 1900HE EKO 3.0 | 315 | - | - | 81 | - | - | - | - |
| RIRS 1900HW EKO 3.0 | 315 | - | 61 | 81 | 3-1,0-4 | 3-0,63-4 | 45.10-1,0 | 45.10-0,63 |
| RIRS 2500HE EKO 3.0 | - | - | - | - | - | - | - | - |
| RIRS 2500HW EKO 3.0 | - | 700x400 | 61 | 81 | + | + | + | + |
| RIRS 3500HE EKO 3.0 | - | 700x400 | - | - | - | - | - | - |
| RIRS 3500HW EKO 3.0 | - | 700x400 | 61 | 81 | + | + | + | + |
| RIRS 5500HE EKO 3.0 | - | 800x500 | - | - | - | - | - | - |
| RIRS 5500HW EKO 3.0 | - | 800x500 | 61 | 81 | + | + | + | + |

*** - anti-frost thermostat
incl - included

RIRS 400H EKO 3.0



RIRS 400H EKO 3.0
Air supply side (R - right default, convertible)



🏠 Exhaust air
 🏠 Extract air
 🏠 Outdoor air
 🏠 Supply air

| Article No. | Version |
|-------------------|---|
| GAGRIRS1749_0022A | 400HE EKO 3.0 Integrated electrical heater. |
| GAGRIRS1750_0023A | 400HW EKO 3.0 Optional water heater. |

400HE / HW EKO 3.0

| | | |
|---------------------------------------|--------------------------------|------------|
| Water heater (optional) HW ver. | | AVS 160 |
| 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] | 0,085/0,75 |
| | fan speed [min ⁻¹] | 3200 |
| supply | power/current [kW/A] | 0,085/0,75 |
| | fan speed [min ⁻¹] | 3200 |
| Thermal efficiency up to* | | 75% |
| Max power consumption HE/HW | [kW/A] | 1,38/6,80 |
| Control board | | PRV V2 |
| Filter class | exhaust/supply | M5/F7 |
| Housing insulation, mineral wool | [mm] | 50 |
| Colour | RAL | white |
| Weight (net, without packing) HE / HW | [kg] | 9016 |
| Weight (net, without packing) HE / HW | | 72 |
| Comply with ERP | | 2016; 2018 |
| Operation | | indoors |
| Housing protection class | IP | 34 |

* Calculated wet efficiency.

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

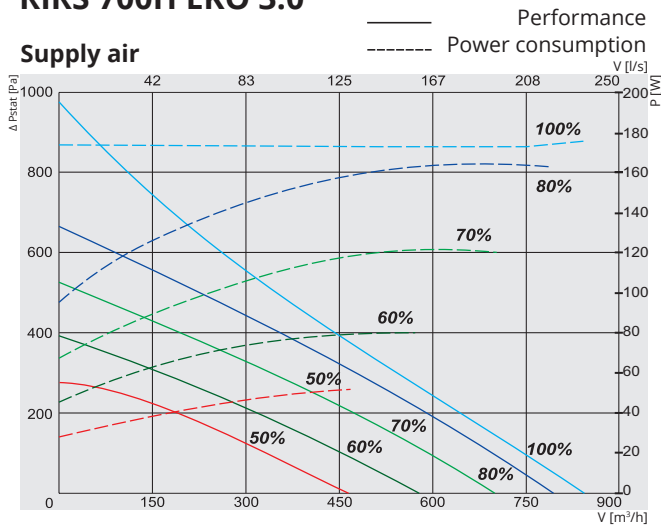
| 400H EKO 3.0 | Lwa total, dB(A) | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
|--------------|------------------|--------|--------|--------|-------|-------|-------|-------|
| Supply | 78 | 70 | 68 | 72 | 72 | 70 | 64 | 65 |
| Extract | 63 | 53 | 57 | 61 | 49 | 45 | 40 | 32 |
| Surrounding | 55 | 43 | 44 | 53 | 48 | 45 | 44 | 41 |

Measured at 380 m³/h, 124 Pa

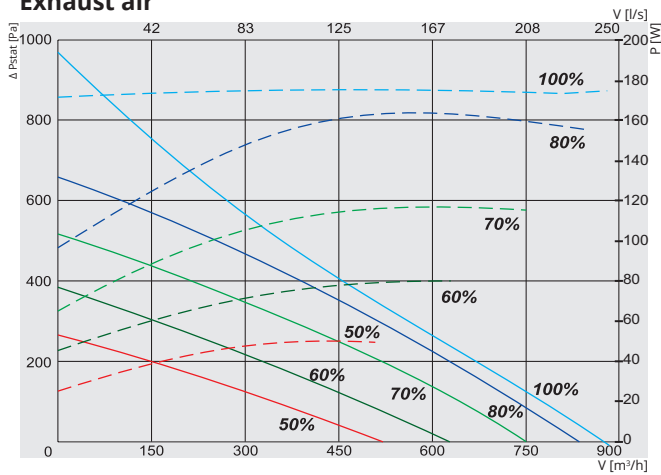
RIRS H EKO

RIRS 700H EKO 3.0

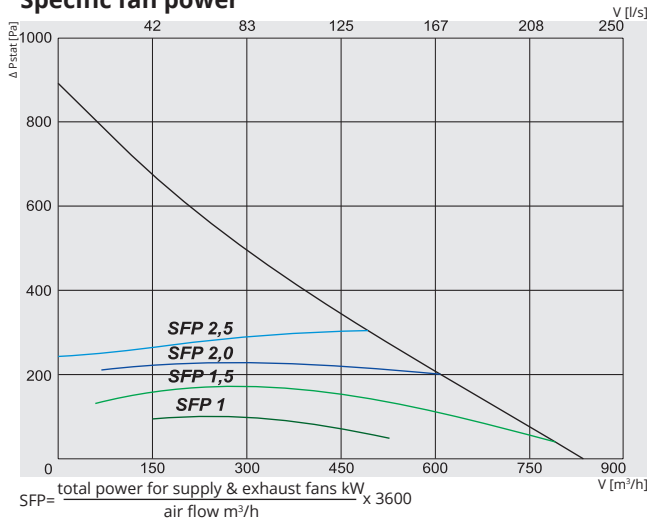
Supply air



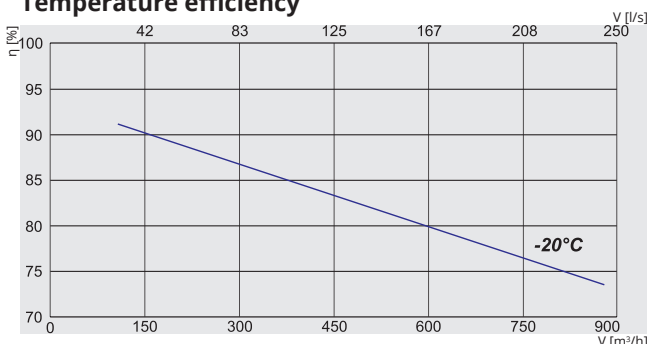
Exhaust air



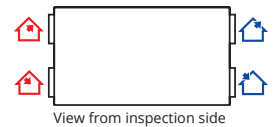
Specific fan power



Temperature efficiency



RIRS 700H EKO 3.0
Air supply side (R - right default, convertible)



- Exhaust air
- Extract air
- Outdoor air
- Supply air

| Article No. | Version |
|-------------------|---|
| GAGRIRS1662_0013A | 700HE EKO 3.0 Integrated electrical heater. |
| GAGRIRS1697_0014A | 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] | 2,0 |
| EC fans | phase/voltage [50Hz/VAC] | ~1, 230 |
| exhaust | power/current [kW/A] | 0,168/1,4 |
| | fan speed [min ⁻¹] | 3230 |
| supply | power/current [kW/A] | 0,168/1,4 |
| | fan speed [min ⁻¹] | 3230 |
| Thermal efficiency up to* | 75% | |
| Max power consumption HE / HW | [kW/A] | 2,34/11,60 0,34/2,90 |
| Control board | PRV V2 | |
| Filter class | exhaust/supply | M5/F7 |
| Housing insulation, mineral wool | [mm] | 50 |
| Colour | RAL | white 9016 |
| Weight (net, without packing) | [kg] | 96 |
| Comply with ERP | 2016; 2018 | |
| Operation | indoors | |
| Housing protection class | IP | 34 |

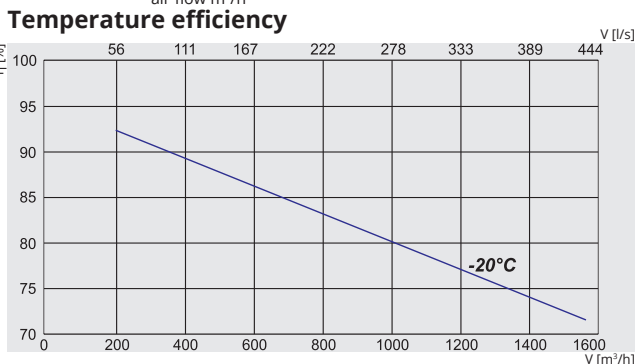
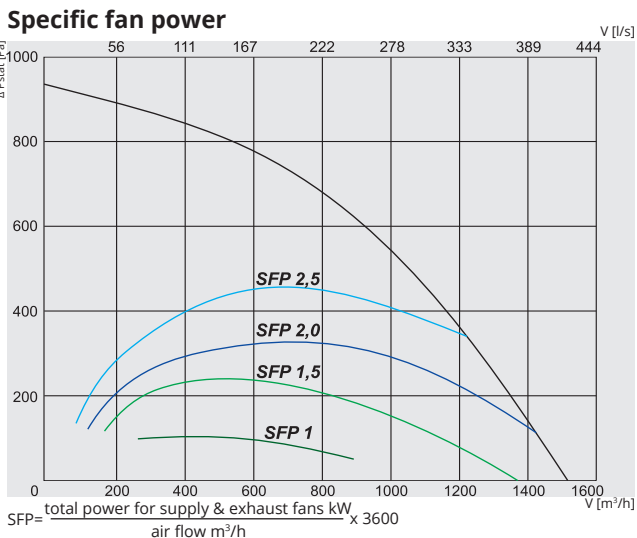
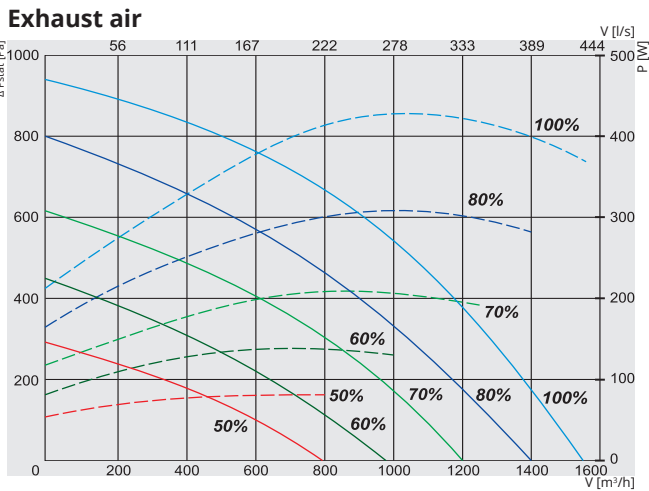
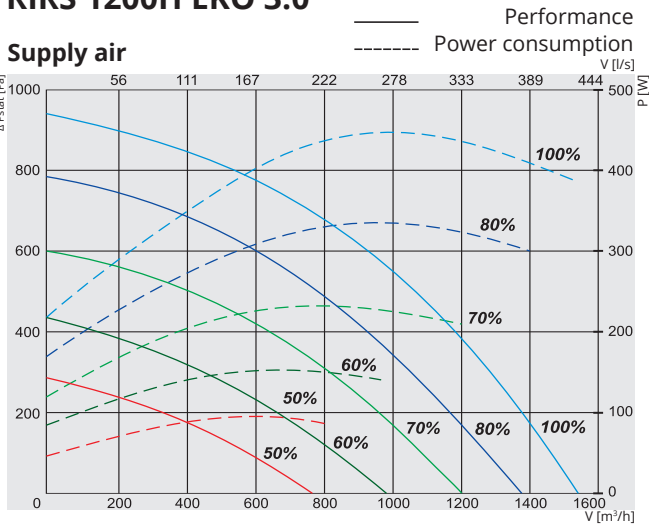
* Calculated wet efficiency.

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

| 700H EKO 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|--------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 78 | 67 | 68 | 74 | 72 | 71 | 65 | 63 |
| Extract | 65 | 54 | 62 | 63 | 53 | 52 | 48 | 36 |
| Surrounding | 55 | 48 | 49 | 51 | 49 | 46 | 44 | 43 |

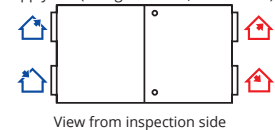
Measured at 657 m³/h, 200 Pa

RIRS 1200H EKO 3.0



RIRS 1200H EKO 3.0

Air supply side(R - right default, convertible)



🏠 Exhaust air
 🏠 Extract air
 🏠 Outdoor air
 🏠 Supply air

| | |
|-------------------|--|
| Article No. | Version |
| GAGRIRS1671_0015C | 1200HE EKO 3.0 Integrated electrical heater. |
| GAGRIRS1672_0016A | 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] ~2, 400 |
| | [kW] 4,0 |
| EC fans | phase/voltage [50Hz/VAC] ~1, 230 |
| exhaust | power/current [kW/A] 0,444/2,9 |
| | fan speed [min ⁻¹] 3400 |
| supply | power/current [kW/A] 0,435/2,8 |
| | fan speed [min ⁻¹] 3400 |
| Thermal efficiency up to* | 75% |
| Max power consumption HE / HW | [kW/A] 4,9/15,87 0,9/5,87 |
| 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] 162 |
| Comply with ERP | 2016; 2018 |
| Operation | indoors/outdoors** |
| Housing protection class | IP 34 |

* Calculated wet efficiency.

**Under covered area or with roof.

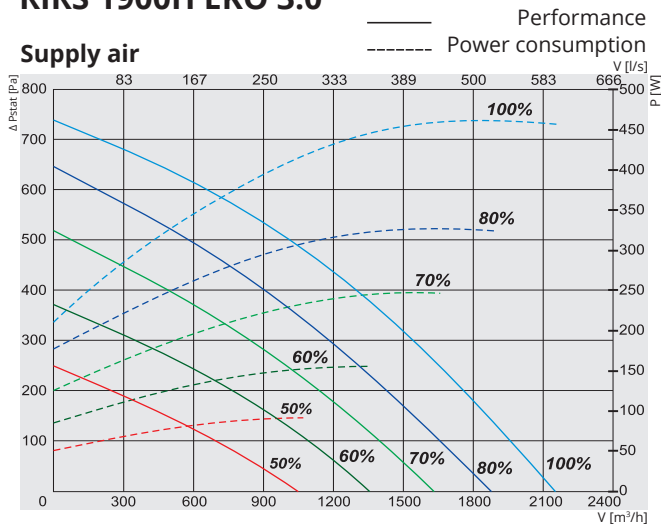
| | | | | | | | | |
|----------------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| 1200H EKO 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 77 | 66 | 73 | 71 | 70 | 66 | 62 | 53 |
| Extract | 68 | 63 | 64 | 62 | 56 | 46 | 41 | 31 |
| Surrounding | 57 | 52 | 53 | 47 | 44 | 41 | 35 | 33 |

Measured at 1437 m³/h, 102 Pa

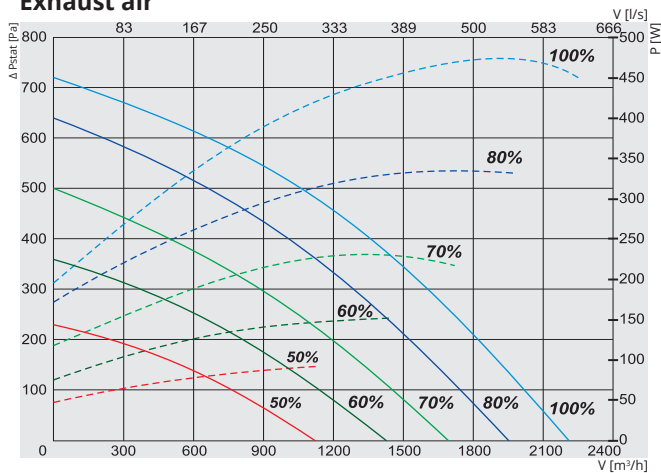
RIRS H EKO

RIRS 1900H EKO 3.0

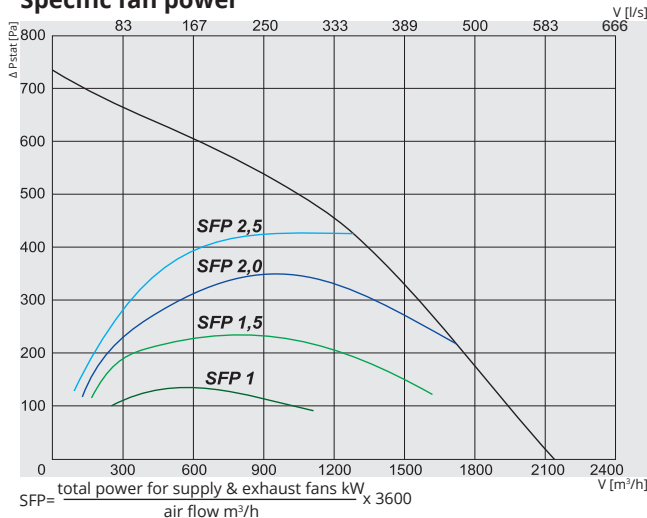
Supply air



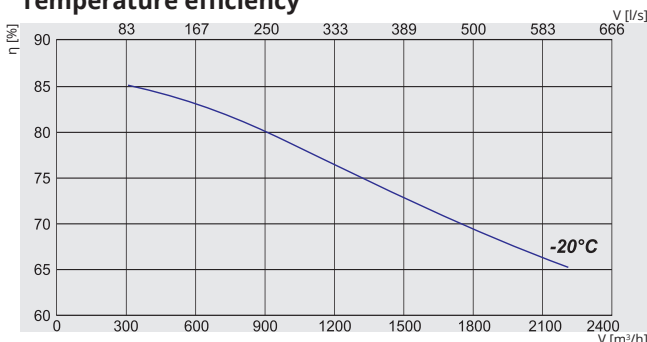
Exhaust air



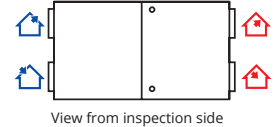
Specific fan power



Temperature efficiency



RIRS 1900H EKO 3.0
Air supply side (R - right default, convertible)



Exhaust air Extract air Outdoor air Supply air

| Article No. | Version |
|-------------------|--|
| GAGRIRS1719_0017B | 1900HE EKO 3.0 Integrated electrical heater. |
| GAGRIRS1720_0019A | 1900HW EKO 3.0 Optional water heater. |

1900HE / HW EKO 3.0

| | |
|----------------------------------|-------------------------------------|
| Water heater (optional) HW ver. | AVS 315 |
| Electrical heater HE ver. | phase/voltage [50Hz/VAC] ~3, 400 |
| | [kW] 9,0 |
| EC fans | phase/voltage [50Hz/VAC] ~1, 230 |
| exhaust | power/current [kW/A] 0,49/3,2 |
| | fan speed [min ⁻¹] 2540 |
| supply | power/current [kW/A] 0,5/3,25 |
| | fan speed [min ⁻¹] 2540 |
| Thermal efficiency up to* | 68,4% |
| Max power consumption HE / HW | [kW/A] 10/19,62 1/6,62 |
| 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] 162 |
| Comply with ERP | 2016; 2018 |
| Operation | indoors/outdoors** |
| Housing protection class | IP 34 |

* Calculated wet efficiency.

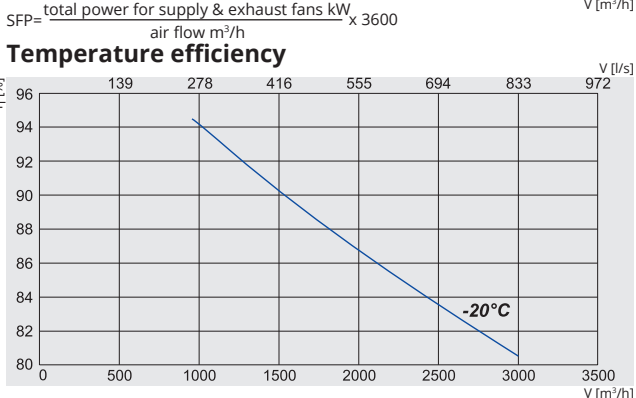
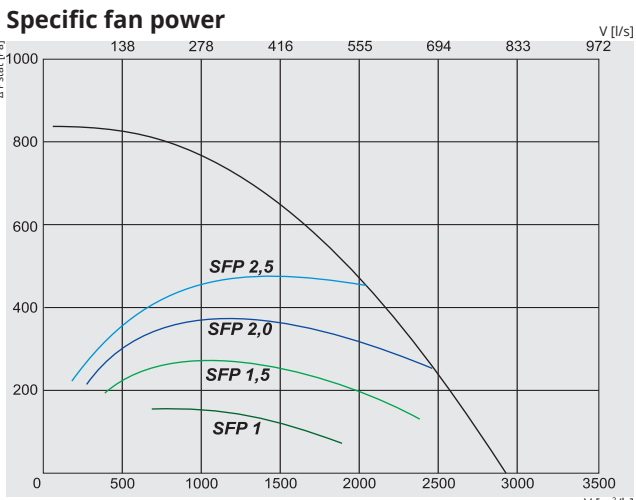
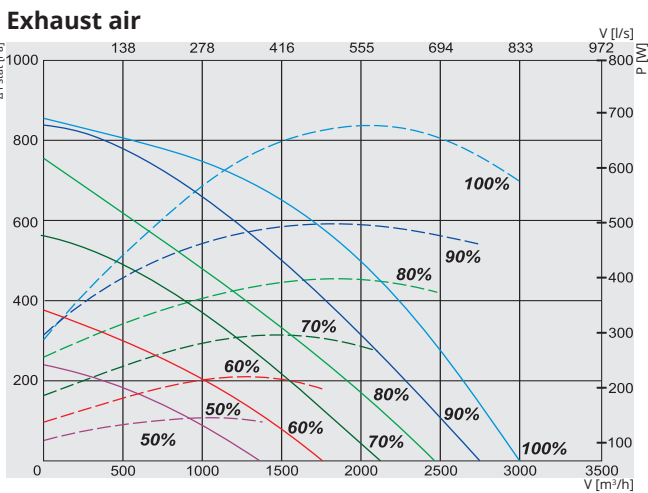
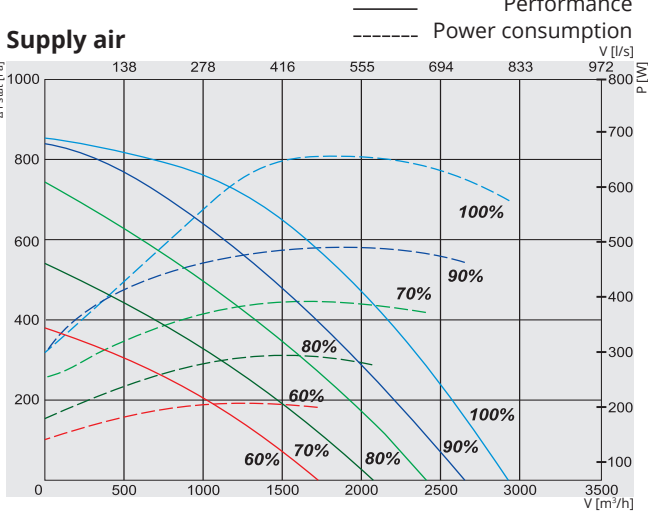
** Under covered area.

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

| 1900H EKO 3.0 | LWA, dB(A) | | | | | | | |
|---------------|------------------|--------|--------|--------|-------|-------|-------|-------|
| | Lwa total, dB(A) | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 79 | 55 | 70 | 70 | 71 | 75 | 72 | 63 |
| Extract | 67 | 53 | 65 | 60 | 53 | 54 | 50 | 36 |
| Surrounding | 61 | 44 | 58 | 53 | 51 | 53 | 50 | 48 |

Measured at 1906 m³/h, 100 Pa

RIRS 2500H EKO 3.0



RIRS 2500H EKO 3.0 (convertible) ver.



🏠 Exhaust air
 🏠 Extract air
 🏠 Outdoor air
 🏠 Supply air

| Article No. | Version |
|-------------------|--|
| GAGRIRS1742_0026B | 2500HE EKO 3.0 Integrated electrical heater. |
| GAGRIRS1772_0027A | 2500HW EKO 3.0 Optional water heater. |

2500HE / HW EKO 3.0

| | | |
|---------------------------------------|--------------------------------|------------------------|
| Water heater (optional) HW ver. | Comfort Box 600x350 | |
| Electrical heater HE ver. | phase/voltage [50Hz/VAC] | ~3, 400 [kW] |
| EC fans | phase/voltage [50Hz/VAC] | ~1, 230 |
| exhaust | power/current [kW/A] | 0,71/3,19 |
| | fan speed [min ⁻¹] | 2800 |
| supply | power/current [kW/A] | 0,75/3,35 |
| | fan speed [min ⁻¹] | 2800 |
| Thermal efficiency up to* | 83,6% | |
| Max power consumption HE / HW | [kW/A] | 10,5/19,95 1,5/6,95 |
| Control board | PRV V2 | |
| Filter class | exhaust/supply | M5/F7 |
| Housing insulation, mineral wool | [mm] | 50 |
| Colour | RAL | grey 7040 |
| Weight (net, without packing) HE / HW | [kg] | 350 |
| Comply with ERP | 2016; 2018 | |
| Operation | indoors/outdoors** | |
| Housing protection class | IP | 34 |

* Calculated wet efficiency.

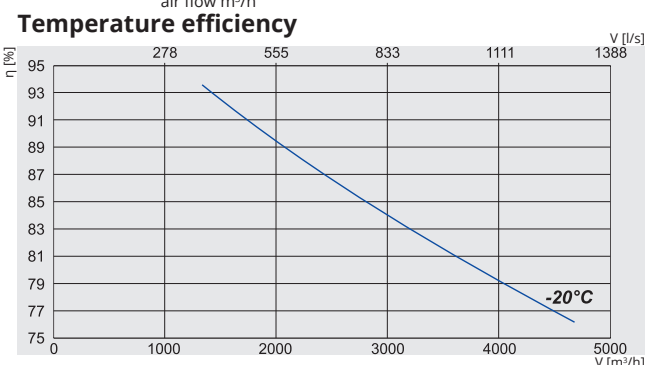
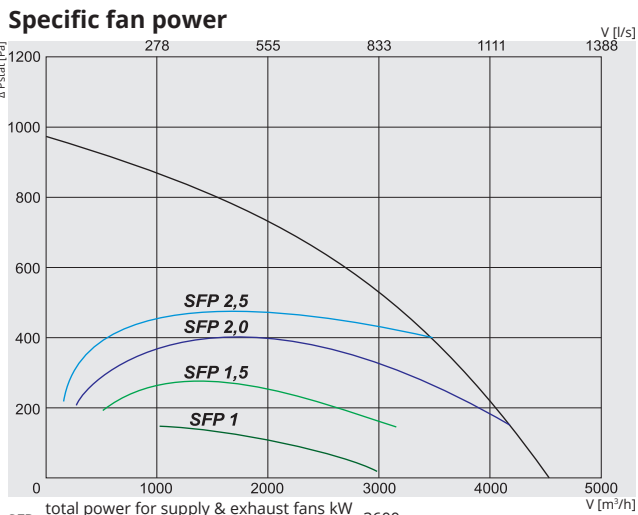
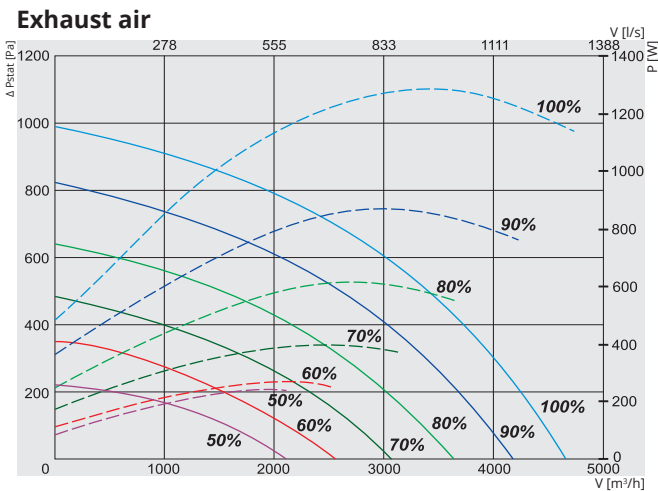
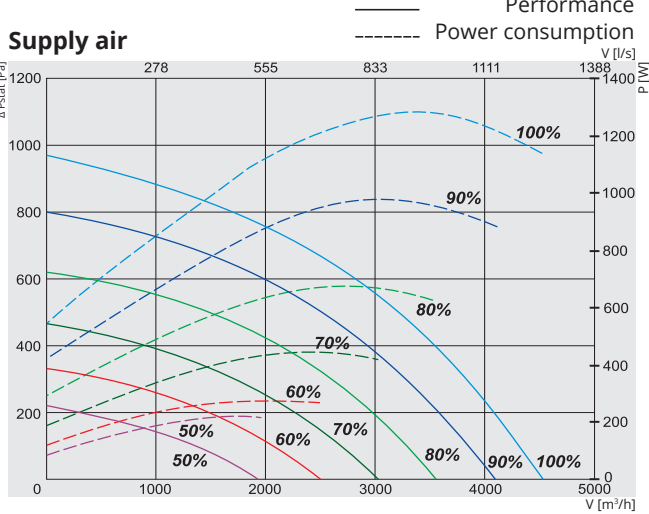
** Under covered area.

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

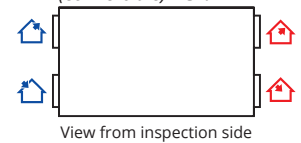
| 2500H EKO 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|---------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 79 | 61 | 69 | 71 | 75 | 71 | 65 | 64 |
| Extract | 68 | 60 | 61 | 65 | 56 | 51 | 46 | 41 |
| Surrounding | 62 | 45 | 52 | 60 | 54 | 52 | 48 | 43 |

Measured at 2599 m³/h, 180 Pa

RIRS 3500H EKO 3.0



RIRS 3500H EKO 3.0
(convertible) ver.



🏠 Exhaust air
 🏠 Extract air
 🏠 Outdoor air
 🏠 Supply air

| Article No. | Version |
|-------------------|--|
| GAGRIRS1764_0020B | 3500HE EKO 3.0 Integrated electrical heater. |
| GAGRIRS1765_0021A | 3500HW EKO 3.0 Optional water heater. |

3500HE / HW EKO 3.0

| | | |
|---------------------------------------|--------------------------------|------------------------|
| Water heater (optional) HW ver. | Comfort Box 800x500 | |
| Electrical heater HE ver. | phase/voltage [50Hz/VAC] | ~3, 400 [kW] |
| EC fans | phase/voltage [50Hz/VAC] | ~1, 230 |
| exhaust | power/current [kW/A] | 1,3/5,75 |
| | fan speed [min ⁻¹] | 2390 |
| supply | power/current [kW/A] | 1,30/5,75 |
| | fan speed [min ⁻¹] | 2390 |
| Thermal efficiency up to* | 80% | |
| Max power consumption HE / HW | [kW/A] | 14,64/29,18 2,64/11,88 |
| 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] | 492 |
| Comply with ERP | 2016; 2018 | |
| Operation | indoors/outdoors** | |
| Housing protection class | IP | 34 |

* Calculated wet efficiency.

**Under covered area.

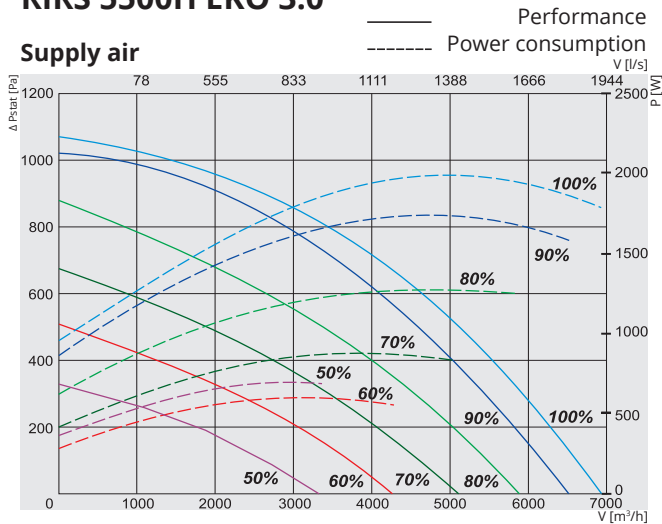
Temperature efficiency (balanced mass flow):
Extract air = 20°C/60%RH
Outdoor air = -20°C

| 3500HW EKO 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|----------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 84 | 59 | 73 | 79 | 78 | 77 | 75 | 70 |
| Extract | 74 | 60 | 72 | 68 | 62 | 59 | 53 | 42 |
| Surrounding | 66 | 55 | 60 | 61 | 58 | 56 | 50 | 48 |

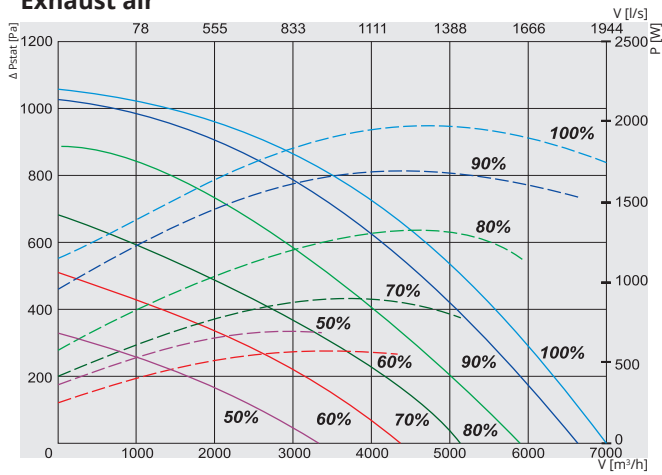
Measured at 4055 m³/h, 225 Pa

RIRS 5500H EKO 3.0

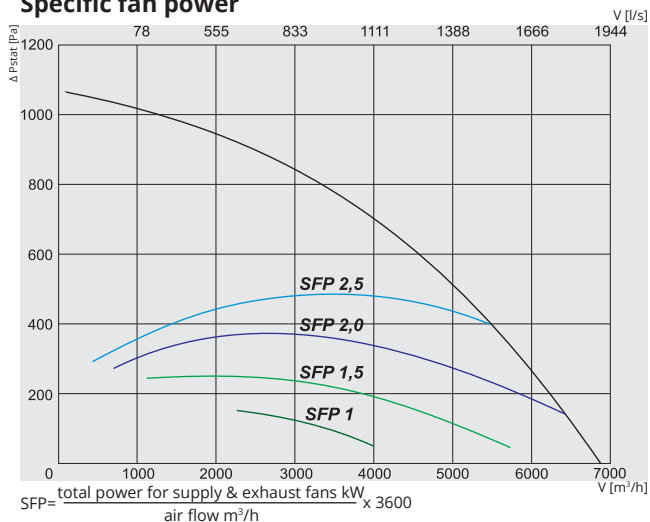
Supply air



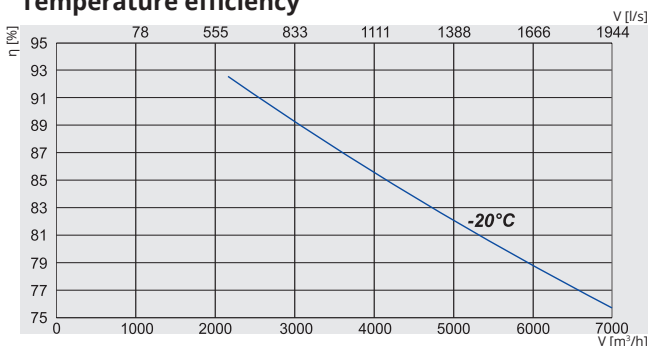
Exhaust air



Specific fan power



Temperature efficiency



RIRS 5500H EKO 3.0 (convertible) ver.



Exhaust air Extract air Outdoor air Supply air

| Article No. | Version |
|-------------------|--|
| GAGRIRS1743_0030B | 5500HE EKO 3.0 Integrated electrical heater. |
| GAGRIRS1761_0031B | 5500HW EKO 3.0 Optional water heater. |

5500HE / HW EKO 3.0

| Water heater (optional) HW ver. | | Comfort Box 800x500 | |
|---------------------------------------|--------------------------------|---------------------|-----------|
| Electrical heater HE ver. | phase/voltage [50Hz/VAC] | ~3,400 | |
| | [kW] | 15,0 | |
| EC fans | phase/voltage [50Hz/VAC] | ~3,400 | |
| exhaust | power/current [kW/A] | 2/3,17 | |
| | fan speed [min ⁻¹] | 2180 | |
| supply | power/current [kW/A] | 1,98/3,06 | |
| | fan speed [min ⁻¹] | 2180 | |
| Thermal efficiency up to* | | 80% | |
| Max power consumption HE / HW | [kW/A] | 19,02/28,35 | 4,02/6,65 |
| 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] | 625 | |
| Comply with ERP | | 2016; 2018 | |
| Operation | | indoors/outdoor** | |
| Housing protection class | IP | 34 | |

* Calculated wet efficiency.

** Under covered area.

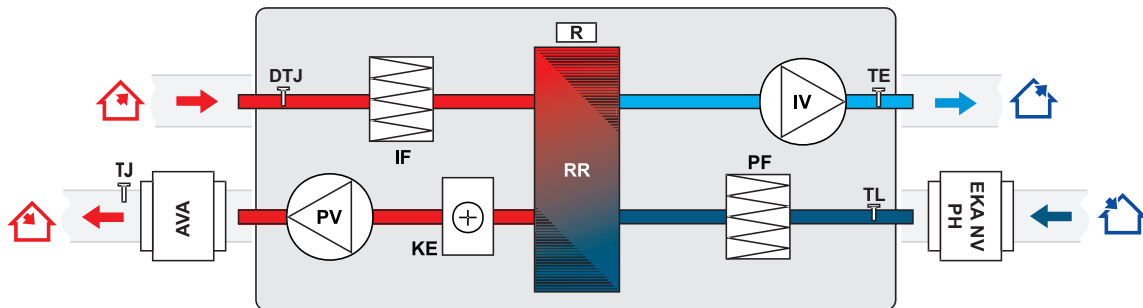
Temperature efficiency (balanced mass flow):
Extract air = 20°C/60%RH
Outdoor air = -20°C

| 5500H EKO 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|---------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 90 | 69 | 82 | 83 | 85 | 81 | 80 | 76 |
| Extract | 76 | 62 | 70 | 73 | 67 | 61 | 58 | 53 |
| Surrounding | 78 | 60 | 71 | 73 | 72 | 69 | 64 | 57 |

Measured at 6219 m³/h, 210 Pa

RIRS H EKO

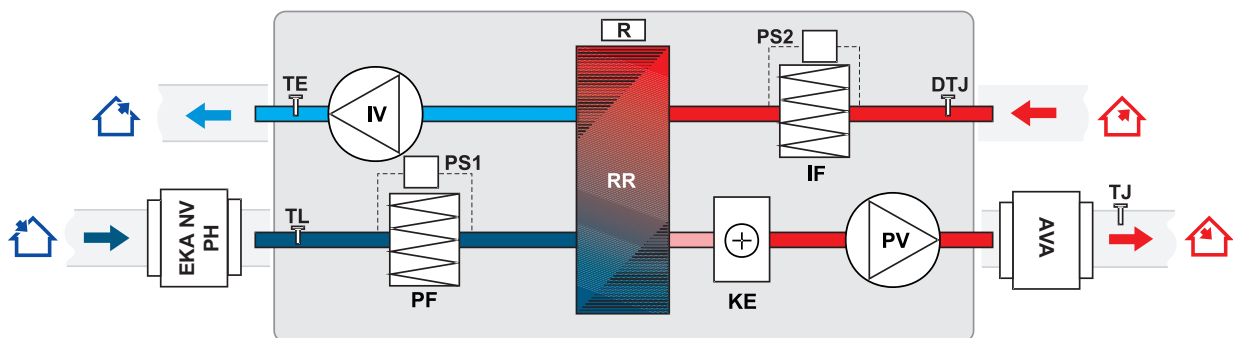
RIRS 400HE EKO 3.0 / 700HE EKO 3.0 (horizontal) versions with electrical heater



- IV** - exhaust air fan
- PV** - supply air fan
- RR** - rotary heat exchanger
- R** - rotor motor
- KE** - electrical heater
- PF** - fresh air filter (class F7)
- IF** - extract air filter (class M5)

- TJ** - temperature sensor for supply air
- TL** - temperature sensor for fresh air
- TE** - temperature sensor for exhaust air
- DTJ** - humidity + temperature sensor
- AVA** - optionally supplied water cooler
- EKA NV PH** - optional fresh air pre-heater

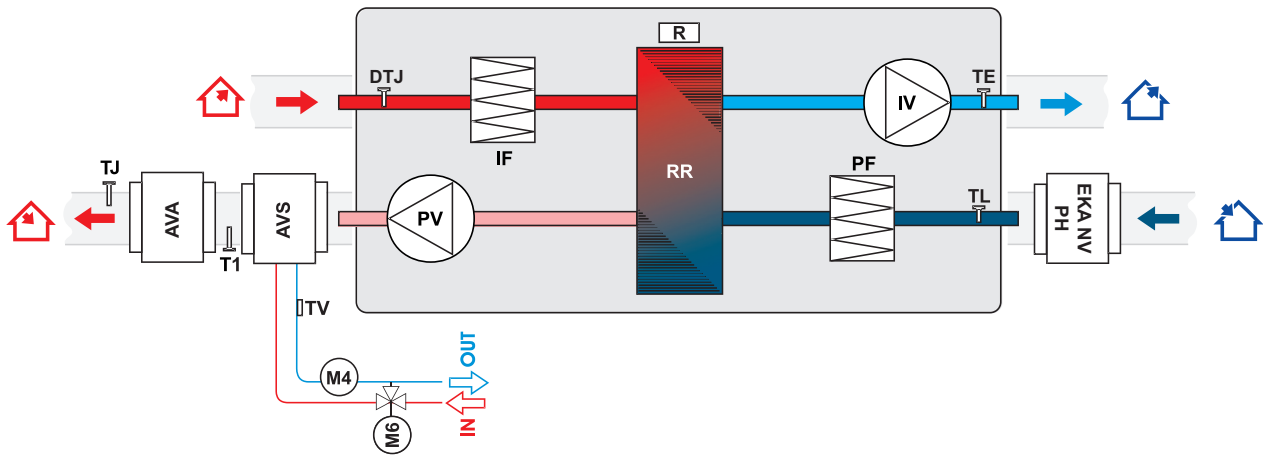
RIRS 1200HE EKO 3.0 / 1900HE EKO 3.0 (horizontal) versions with electrical heater



- IV** - exhaust air fan
- PV** - supply air fan
- RR** - rotary heat exchanger
- R** - rotor motor
- KE** - electrical heater
- PF** - fresh air filter (class F7)
- IF** - extract air filter (class M5)

- PS2** - extract air differential pressure switch
- PS1** - fresh air differential pressure switch
- TJ** - temperature sensor for supply air
- TL** - temperature sensor for fresh air
- TE** - temperature sensor for exhaust air
- DTJ** - humidity + temperature sensor
- AVA** - optionally supplied water cooler
- EKA NV PH** - optional fresh air pre-heater

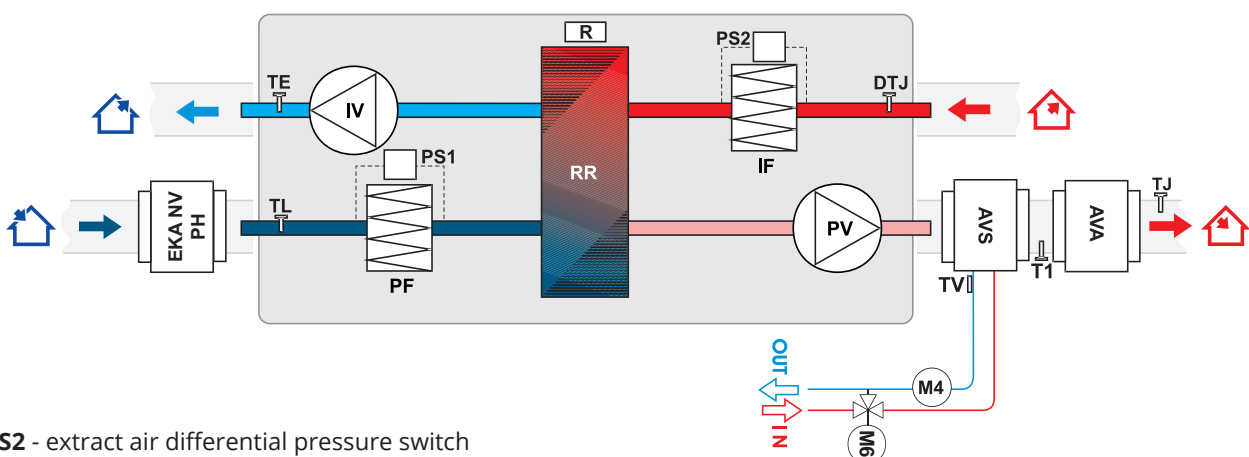
RIRS 400HW EKO 3.0 / 700HW EKO 3.0 (horizontal) versions with water heater



AVS - optionally supplied water heater
IV - exhaust air fan
PV - supply air fan
RR - rotary heat exchanger
R - rotor motor
PF - fresh air filter (class F7)
IF - extract air filter (class M5)
AVA - optionally supplied water cooler
EKA NV PH - optional fresh air pre-heater

TJ - air temperature sensor for supply air
TL - air temperature sensor for fresh air
DTJ - humidity + temperature sensor
M6 - optionally supply mixing valve and motor
M4 - water heater circulatory pump
T1 - antifrost thermostat
TV - antifrost sensor
TE - temperature sensor for exhaust air

RIRS 1200HW EKO 3.0 / 1900HW EKO 3.0 (horizontal) versions with water heater

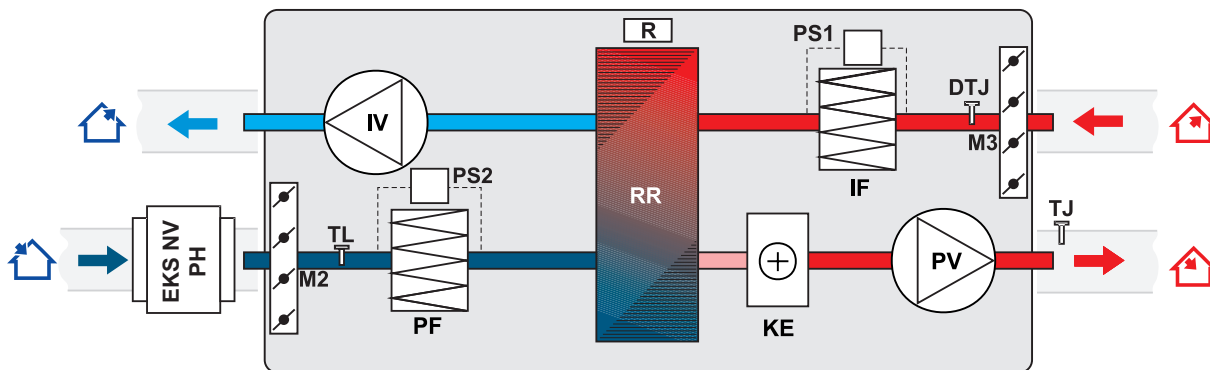


PS2 - extract air differential pressure switch
PS1 - fresh air differential pressure switch
AVS - optionally supplied water heater
AVA - optionally supplied water cooler
EKA NV PH - optional fresh air pre-heater
IV - exhaust air fan
PV - supply air fan
RR - rotary heat exchanger
R - rotor motor
PF - fresh air filter (class F7)
IF - extract air filter (class M5)

TJ - air temperature sensor for supply air
TL - air temperature sensor for fresh air
TE - temperature sensor for exhaust air
M6 - optionally supply mixing valve and motor
M4 - water heater circulatory pump
T1 - antifrost thermostat
TV - antifrost sensor
DTJ - humidity + temperature sensor

RIRS H EKO

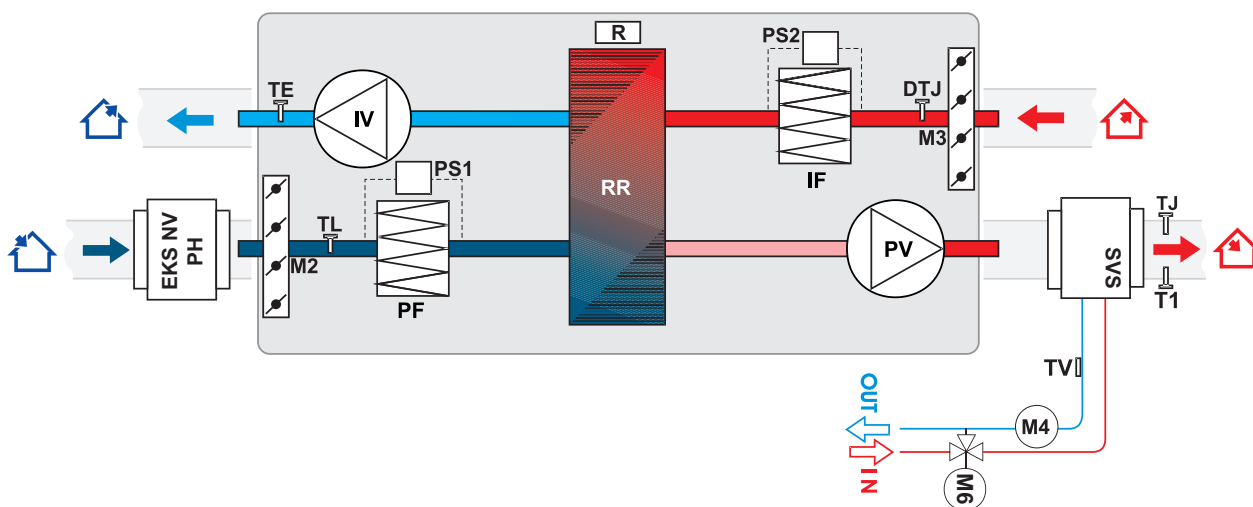
RIRS 2500HE EKO 3.0 / 3500HE EKO 3.0 / 5500HE EKO 3.0 (horizontal) versions with electrical heater



- IV - exhaust air fan
- PV - supply air fan
- RR - rotary heat exchanger
- R - rotor motor
- KE - electrical heater
- PF - fresh air filter (class F7)
- IF - extract air filter (class M5)
- EKS NV PH - optional fresh air pre-heater

- PS2 - extract air differential pressure switch
- PS1 - fresh air differential pressure switch
- TJ - temperature sensor for supply air
- TL - temperature sensor for fresh air
- TE - temperature sensor for exhaust air
- DTJ - humidity + temperature sensor
- M2 - actuator for fresh air damper
- M3 - actuator for extract air damper

RIRS 2500HW EKO 3.0 / 3500HW EKO 3.0 / 5500HW EKO 3.0 (horizontal) versions with water heater



- EKS NV PH - optional fresh air pre-heater
- IV - exhaust air fan
- PV - supply air fan
- RR - rotary heat exchanger
- R - rotor motor
- PF - fresh air filter (class F7)
- IF - extract air filter (class M5)

- PS2 - extract air differential pressure switch
- PS1 - fresh air differential pressure switch
- TJ - temperature sensor for supply air
- TL - temperature sensor for fresh air
- TE - temperature sensor for exhaust air
- DTJ - humidity + temperature sensor
- M3 - actuator for extract air damper
- M2 - actuator for fresh air damper

| FUNCTIONS | | | |
|--|---|----|----|
| Descriptions of the functions | PRV V2 | | |
| | RIRS 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 | ✓ | ✓ |
| | CO₂ 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 | ✓ | ✓ |
| Filter pollution monitoring | | | |
| | By pressure switch (NC) | ✓ | ✓ |
| | By filter timer | ✓ | ✓ |
| Rotor | | | |
| | Pulse-width modulation (PWM) (0-10VDC) motor control | ✓ | ✓ |
| | On/Off motor control | ✓ | ✓ |
| | Motor belt levers protection | ✓ | ✓ |
| 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 controller

2 Only sensors