

RIS H



AHU with heat recovery

Rekuperatoriniai įrenginiai

Centrale wentylacyjne z odzyskiem ciepła

Вентиляционные агрегаты с рекуперацией тепла



Air handling units RIS H 3.0 have high efficiency plate heat exchanger. AHU is used for ventilation of houses and other heated areas.

- Efficient, low noise fans.
- Efficiency of plate heat exchanger up to 65%.
- Electrical or water heater.
- Controlled air flow.
- Anti-freeze protection of the heat exchanger.
- Low noise level.
- Every unit is tested
- RIS 400H - 1900H 3.0 all versions can be controlled with Flex, Stouch remote control devices.
- Acoustic insulation of the walls – 50 mm.
- RIS 400H - 1900H 3.0 housing: powder coated painting RAL 7040.
- Easy mounting.



Vėdinimo įrenginiai RIS H 3.0 pagaminti su efektyviu plokštelių šilumokaičiu. Rekuperatoriai montuojami vėdinti šildomas patalpas.

- Energiją taupantys ir tyliai dirbantys ventiliatoriai.
- Efektyvus plokštelinis šilumokaitis, kurio gražinama šiluma iki 65%.
- Elektrinis arba papildomai užsakomas kanalinis vandeninis šildytuvas.
- Keičiamas oro srautas.
- Tiekiamo oro temperatūros valdymas.
- Priešužšaliminė šilumokaičio apsauga.
- Žemas triukšmo lygis.
- Galima valdyti su Flex, Stouch pulteliais.
- Sienelių triukšmo izoliacija – 50mm.
- Miltelinio būdu dažytas korpusas - spalva RAL 7040.
- Greitas ir lengvas montavimas.



Centrale wentylacyjne z odzyskiem ciepła – RIS H 3.0
Centrale wentylacyjne RIS H 3.0 są wyposażone w krzyżowy wymiennik ciepła. Przeznaczone są do wentylacji ogrzewanych pomieszczeń.

- Układ centrali – poziomy
- Wymiennik krzyżowy wykonany w całości z aluminium.
- Energooszczędne i ciche wentylatory AC.
- Zabezpieczenie wymiennika nagrzewnicą elektryczną lub BY-PASS.
- Zabudowane nagrzewnice elektryczne wtórne lub wodne (czasami - montowane na kanale).
- Zmiana wydatku (3 biegi).
- Zmiana temperatury powietrza nawiewanego.
- Strony serwisowe L-lewa oraz R-prawa.
- Możliwość sterownia sterownikami Flex, Stouch.
- Izolacja wełną mineralną 50 mm.
- Obudowa malowana proszkowo (RAL 7040).



Установки с рекуперацией тепла RIS H 3.0 очищают, нагревают и подают свежий воздух. Установки RIS H 3.0 извлекают тепло у выходящего воздуха и передают его поступающему воздуху.

- Производительные и бесшумные вентиляторы.
- Пластинчатый теплообменник, эффективность теплоотдачи до 65%.
- Электрический или водяной нагреватель.
- Регулируемый воздушный поток.
- Регулируемая температура подаваемого воздуха.
- Защита теплообменника от замерзания.
- Низкий уровень шума.
- Каждый агрегат проверен отдельно.
- RIS 400H - 1900H 3.0 с интегрированными возможностями управления и наблюдения с помощью пультов управления Flex, Stouch.
- Акустическая изоляция стенок – 50мм.
- RIS 400H - 1900H 3.0 корпус: окрашенный RAL 7040.
- Легко монтируются.

Accessories

Control panel



Flex

p. 178

Sensor controller



Stouch

p. 179

Circular duct silencer



AKS

p. 230

Shuft-off damper



SKG

p. 226

Mounting clamp



AP

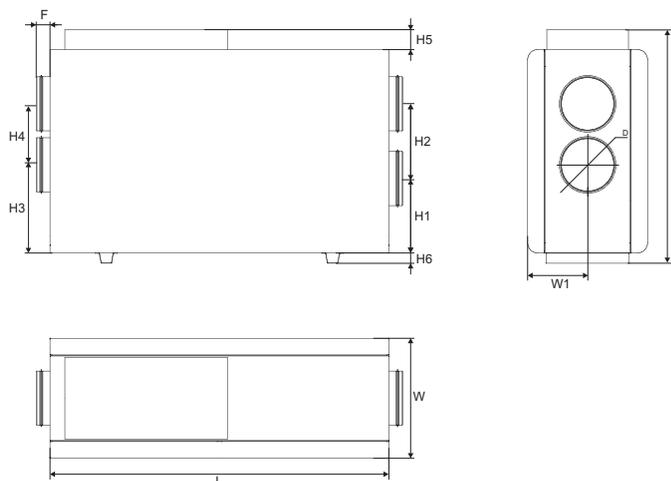
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Actuator for dampers

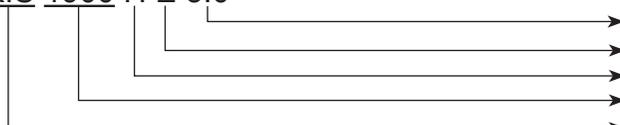


SP

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RIS 1900 H E 3.0



- Equipped with new PRV V1.1 control board
- Heater type (E - integrated electrical heater; W - optional water heater)
- Housing type (V - vertical, H - horizontal, P - under - ceiling)
- AHU size according to air flow range m³/h
- AHU with plate heat-exchanger

| Type | Dimensions [mm] | | | | | | | | | | | |
|----------------|-----------------|-----|-----|------|-----|-----|-----|-----|----|-----|-----|----|
| | L | W | W1 | H | H1 | H2 | H3 | H4 | H5 | H6 | øD | F |
| RIS 400HE 3.0 | 1000 | 354 | 177 | 768 | 220 | 220 | 260 | 180 | 60 | 48 | 160 | 40 |
| RIS 400HW 3.0 | 1700 | 354 | 202 | 768 | 220 | 220 | 260 | 180 | 60 | 48 | 160 | 40 |
| RIS 700HE 3.0 | 1170 | 507 | 253 | 690 | 150 | 310 | 150 | 310 | 58 | 31 | 250 | 40 |
| RIS 700HW 3.0 | 1320 | 507 | 253 | 690 | 150 | 310 | 150 | 310 | 58 | 31 | 250 | 40 |
| RIS 1000HE 3.0 | 1500 | 647 | 324 | 887 | 233 | 400 | 233 | 400 | 25 | 145 | 315 | 40 |
| RIS 1000HW 3.0 | 1500 | 647 | 324 | 887 | 233 | 400 | 233 | 400 | 25 | 145 | 315 | 40 |
| RIS 1500HE 3.0 | 1500 | 647 | 324 | 887 | 233 | 400 | 233 | 400 | 25 | 145 | 315 | 40 |
| RIS 1500HW 3.0 | 1500 | 647 | 324 | 887 | 233 | 400 | 233 | 400 | 25 | 145 | 315 | 40 |
| RIS 1900HE 3.0 | 1800 | 793 | 395 | 1195 | 275 | 500 | 275 | 500 | - | 145 | 400 | 72 |
| RIS 1900HW 3.0 | 1800 | 793 | 395 | 1195 | 275 | 500 | 275 | 500 | - | 145 | 400 | 72 |

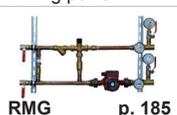
| Type | Accessories | | | | | | | | | | | |
|----------------|--------------|-----|-----|---------|-----------|------------|-------------|-------------|--------------|-------------|-----------------|-----------------|
| | Flex, Stouch | AKS | SKS | SKG, AP | SP | SP by-pass | SSB Heating | SSB Cooling | RMG 80/60°C | RMG 60/40°C | VVP/VXP 80/60°C | VVP/VXP 60/40°C |
| RIS 400HE 3.0 | + | 160 | - | 160 | LM230A-TP | - | - | 81 | www.salda.it | | | |
| RIS 400HW 3.0 | + | 160 | - | 160 | TF230 | - | 61 | 81 | | | | |
| RIS 700HE 3.0 | + | 250 | - | 250 | LM230A-TP | - | - | 81 | | | | |
| RIS 700HW 3.0 | + | 250 | - | 250 | TF230 | - | 61 | 81 | | | | |
| RIS 1000HE 3.0 | + | 315 | - | 315 | LM230A-TP | int | - | 81 | | | | |
| RIS 1000HW 3.0 | + | 315 | - | 315 | LF230 | int | 61 | 81 | | | | |
| RIS 1500HE 3.0 | + | 315 | - | 315 | LM230A-TP | int | - | 81 | | | | |
| RIS 1500HW 3.0 | + | 315 | - | 315 | LF230 | int | 61 | 81 | | | | |
| RIS 1900HE 3.0 | + | 400 | - | 400 | SM230A-TP | int | - | 81 | | | | |
| RIS 1900HW 3.0 | + | 400 | - | 400 | SF230A | int | 61 | 81 | | | | |

Accessories

Thermic water valve actuator

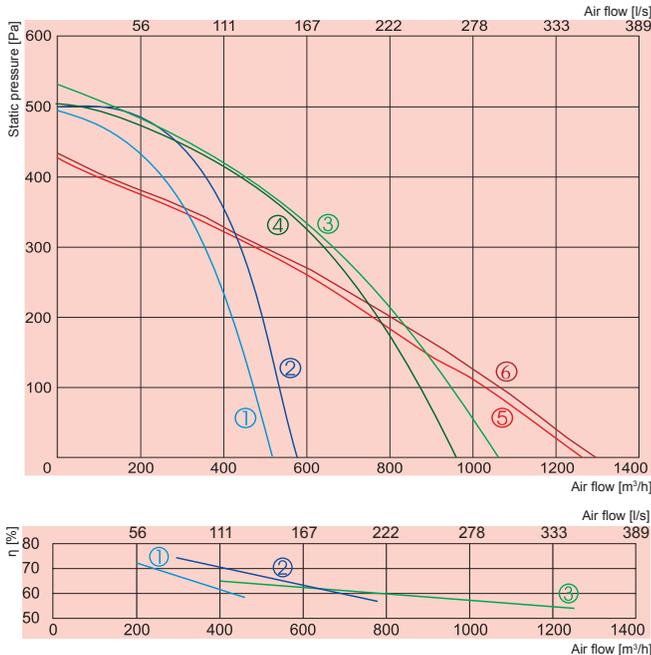


Mixing point



2 and 3 - way valves





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

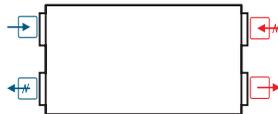
- ① — supply **RIS 400HE 3.0**
- ② — exhaust
- ③ — supply **RIS 700HE 3.0**
- ④ — exhaust
- ⑤ — supply **RIS 1000HE 3.0**
- ⑥ — exhaust

- ① — **RIS 400HE 3.0**
- ② — **RIS 700HE 3.0**
- ③ — **RIS 1000HE 3.0**

| | 400HE 3.0 | 700HE 3.0 | 1000HE 3.0 |
|------------------------------------|-------------|------------|------------|
| Heater -phase/voltage [50Hz/VAC] | ~1, 230 | ~1, 230 | ~3, 400 |
| -power consumption [kW] | 2,0 | 3 | 6,0 |
| Pre-heater for heat exchanger [kW] | 1,0 | 1,2 | - |
| Fans -phase/voltage [50Hz/VAC] | ~1, 230 | ~1, 230 | ~1, 230 |
| exhaust -power/current [kW/A] | 0,175/0,77 | 0,255/1,2 | 0,230/1,0 |
| -fan speed [min ⁻¹] | 2100 | 2000 | 2650 |
| supply -power/current [kW/A] | 0,225/1,1 | 0,255/1,2 | 0,226/0,98 |
| -fan speed [min ⁻¹] | 1850 | 2000 | 2650 |
| Motor protection class | IP-54/IP-44 | IP-54 | IP-44 |
| Thermal efficiency | 60% | 60% | 54% |
| Max power consumption [kW/A] | 3,40/14,91 | 4,71/20,50 | 6,45/10,64 |
| Automatic control | integrated | integrated | integrated |
| Filter class -exhaust | G4 | G4 | M5 |
| supply | M5 | M5 | M5 |
| Thermal insulation [mm] | 50 | 50 | 50 |
| Weight [kg] | 48,0 | 57,0 | 152,0 |
| Comply with ERP 2013 | + | + | - |

Designed for operation indoors only

RIS 400HE 3.0 ver.



RIS 700HE 3.0 ver.



RIS 1000HE 3.0 (convertible) ver.



View from inspection side

- Exhaust air
- Extract air
- Fresh air
- Supply air

| 400HE 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 72 | 69 | 63 | 62 | 64 | 61 | 59 | 55 |
| Extract | 56 | 49 | 51 | 52 | 45 | 44 | 39 | 35 |
| Surrounding | 51 | 42 | 45 | 46 | 43 | 41 | 37 | 35 |

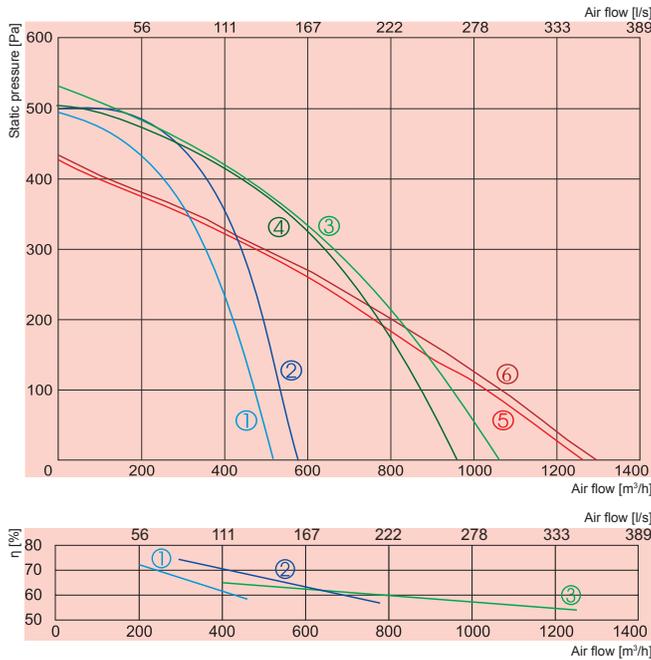
Measured at 413 m³/h, 120 Pa

| 700HE 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 74 | 66 | 65 | 67 | 68 | 64 | 63 | 55 |
| Extract | 60 | 51 | 55 | 57 | 51 | 45 | 40 | 36 |
| Surrounding | 53 | 45 | 46 | 47 | 46 | 43 | 40 | 36 |

Measured at 622 m³/h, 100 Pa

| 1000HE 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 75 | 69 | 65 | 69 | 70 | 66 | 59 | 56 |
| Extract | 58 | 52 | 50 | 53 | 51 | 46 | 41 | 35 |
| Surrounding | 55 | 48 | 45 | 50 | 48 | 44 | 38 | 34 |

Measured at 1050 m³/h, 90 Pa



- ① — supply **RIS 400HW 3.0**
- ② — exhaust
- ③ — supply **RIS 700HW 3.0**
- ④ — exhaust
- ⑤ — supply **RIS 1000HW 3.0**
- ⑥ — exhaust

- ① — **RIS 400HW 3.0**
- ② — **RIS 700HW 3.0**
- ③ — **RIS 1000HW 3.0**

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

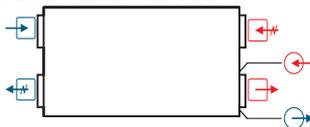
| | | 400HW 3.0 | 700HW 3.0 | 1000HW 3.0 |
|-------------------------------|------------------------------------|------------|------------|------------|
| Water heater | -power [kW] | 2,7 | 4,7 | 6,75 |
| | -water temp. T_{in}/T_{out} [°C] | 80/60 | 80/60 | 80/60 |
| | -water flow rate [l/s] | 0,03 | 0,06 | 0,08 |
| | -water pressure drop [kPa] | 2,47 | 4,9 | 1,8 |
| | -kvs value [m³/h] | 0,7 | 1 | 2,2 |
| Pre-heater for heat exchanger | [kW] | 1 | 1,2 | - |
| Fans | -phase/voltage [50Hz/VAC] | ~1, 230 | ~1, 230 | ~1, 230 |
| exhaust | -power/current [kW/A] | 0,175/0,77 | 0,255/1,12 | 0,214/0,93 |
| | -fan speed [min ⁻¹] | 2100 | 2000 | 2650 |
| supply | -power/current [kW/A] | 0,225/1,1 | 0,255/1,12 | 0,228/1,0 |
| | -fan speed [min ⁻¹] | 1850 | 2000 | 2650 |
| Motor protection class | | IP-54 | IP-54 | IP-44 |
| Thermal efficiency | | 60% | 60% | 54% |
| Max power consumption | [kW/A] | 1,40/6,22 | 1,71/7,46 | 0,44/1,98 |
| Automatic control | | integrated | integrated | integrated |
| Filter class | -exhaust | G4 | G4 | M5 |
| | supply | M5 | M5 | M5 |
| Thermal insulation | [mm] | 50 | 50 | 50 |
| Weight | [kg] | 48,0 | 57,0 | 152,0 |
| Comply with ERP 2013 | | + | + | - |

Designed for operation indoors only

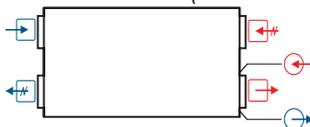
RIS 400HW 3.0 ver.



RIS 700HW 3.0 ver.



RIS 1000HW 3.0 (convertible) ver.



View from inspection side

- Used water outlet
- Water inlet
- Exhaust air
- Extract air
- Fresh air
- Supply air

| 400HW 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 72 | 69 | 63 | 62 | 64 | 61 | 59 | 55 |
| Extract | 56 | 49 | 51 | 52 | 45 | 44 | 39 | 35 |
| Surrounding | 51 | 42 | 45 | 46 | 43 | 41 | 37 | 35 |

Measured at 413 m³/h, 120 Pa

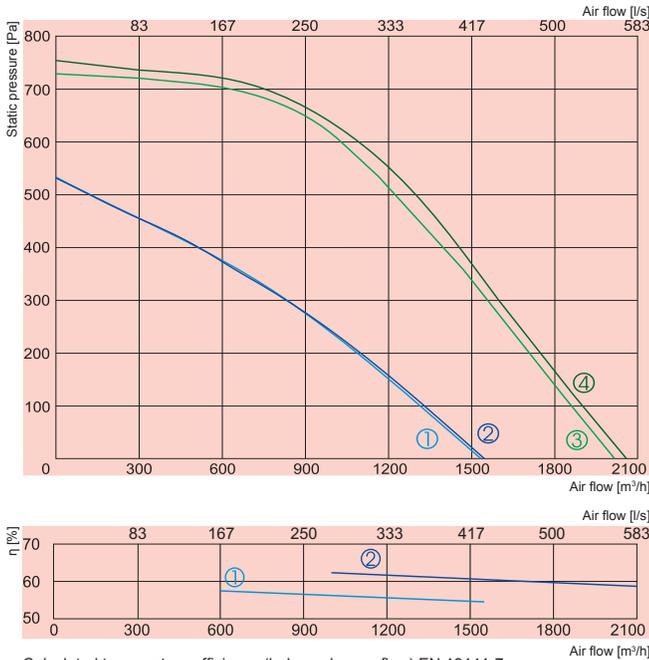
| 700HW 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 74 | 66 | 65 | 67 | 68 | 64 | 63 | 55 |
| Extract | 60 | 51 | 55 | 57 | 51 | 45 | 40 | 36 |
| Surrounding | 53 | 45 | 46 | 47 | 46 | 43 | 40 | 36 |

Measured at 622 m³/h, 100 Pa

| 1000HW 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 75 | 69 | 65 | 69 | 70 | 66 | 59 | 56 |
| Extract | 58 | 52 | 50 | 53 | 51 | 46 | 41 | 35 |
| Surrounding | 55 | 48 | 45 | 50 | 48 | 44 | 38 | 34 |

Measured at 1050 m³/h, 90 Pa

RIS H



- ① — supply **RIS 1500HE 3.0**
- ② — exhaust
- ③ — supply **RIS 1900HE 3.0**
- ④ — exhaust

- ① — **RIS 1500HE 3.0**
- ② — **RIS 1900HE 3.0**

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

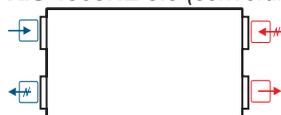
| | | 1500HE 3.0 | 1900HE 3.0 |
|------------------------|---------------------------------|-------------|-------------|
| Heater | -phase/voltage [50Hz/VAC] | ~3, 400 | ~3, 400 |
| | -power consumption [kW] | 9,0 | 15,0 |
| Fans | -phase/voltage [50Hz/VAC] | ~1, 230 | ~1, 230 |
| exhaust | -power/current [kW/A] | 0,356/1,55 | 0,669/2,95 |
| | -fan speed [min ⁻¹] | 2750 | 2830 |
| supply | -power/current [kW/A] | 0,369/1,6 | 0,669/2,95 |
| | -fan speed [min ⁻¹] | 2750 | 2830 |
| Motor protection class | | IP-44 | IP-54 |
| Thermal efficiency | | 54% | 60% |
| Max power consumption | [kW/A] | 9,725/16,14 | 16,34/27,55 |
| Automatic control | | integrated | integrated |
| Filter class | -exhaust | M5 | M5 |
| | supply | M5 | M5 |
| Thermal insulation | [mm] | 50 | 50 |
| Weight | [kg] | 152,0 | 214,0 |
| Comply with ERP 2013 | | - | - |

Designed for operation indoors only

RIS 1500HE 3.0 (convertible) ver.



RIS 1900HE 3.0 (convertible) ver.



View from inspection side

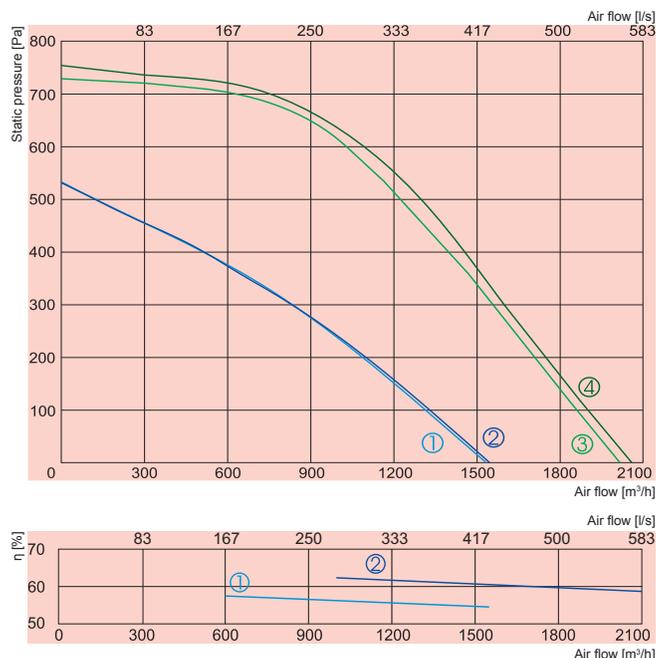
- Exhaust air
- Extract air
- Fresh air
- Supply air

| 1500HE 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 76 | 67 | 66 | 70 | 70 | 67 | 62 | 56 |
| Extract | 58 | 51 | 49 | 53 | 51 | 45 | 40 | 33 |
| Surrounding | 57 | 49 | 50 | 52 | 48 | 45 | 41 | 37 |

Measured at 1380 m³/h, 70 Pa

| 1900HE 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 83 | 65 | 69 | 75 | 79 | 77 | 71 | 63 |
| Extract | 68 | 53 | 59 | 65 | 61 | 52 | 47 | 41 |
| Surrounding | 60 | 46 | 51 | 54 | 56 | 53 | 47 | 42 |

Measured at 1885 m³/h, 120 Pa



- ① supply **RIS 1500HW 3.0**
- ② exhaust
- ③ supply **RIS 1900HW 3.0**
- ④ exhaust

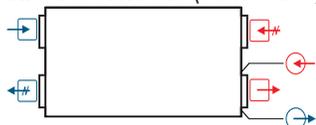
- ① **RIS 1500HW 3.0**
- ② **RIS 1900HW 3.0**

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

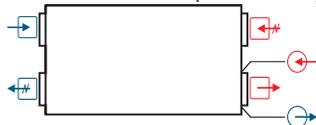
| | | 1500HW 3.0 | 1900HW 3.0 |
|------------------------|------------------------------------|------------|------------|
| Water heater | -power [kW] | 10,12 | 12,82 |
| | -water temp. T_{in}/T_{out} [°C] | 80/60 | 80/60 |
| | -water flow rate [l/s] | 0,12 | 0,16 |
| | -water pressure drop [kPa] | 3,3 | 4,70 |
| | -kvs value [m³/h] | 2,4 | 2,7 |
| Fans | -phase/voltage [50Hz/VAC] | ~1, 230 | ~1, 230 |
| exhaust | -power/current [kW/A] | 0,351/1,52 | 0,669/2,95 |
| | -fan speed [min ⁻¹] | 2750 | 2830 |
| supply | -power/current [kW/A] | 0,368/1,6 | 0,669/2,95 |
| | -fan speed [min ⁻¹] | 2750 | 2830 |
| Motor protection class | | IP-44 | IP-55 |
| Thermal efficiency | | 54% | 60% |
| Max power consumption | [kW/A] | 0,72/3,12 | 1,338/5,9 |
| Automatic control | | integrated | integrated |
| Filter class | -exhaust | M5 | M5 |
| | supply | M5 | M5 |
| Thermal insulation | [mm] | 50 | 50 |
| Weight | [kg] | 152,0 | 216,0 |
| Comply with ERP 2013 | | - | - |

Designed for operation indoors only

RIS 1500HW 3.0 (convertible) ver.



RIS 1900HW 3.0 (convertible) ver.



View from inspection side

- Used water outlet
- Water inlet
- Exhaust air
- Extract air
- Fresh air
- Supply air

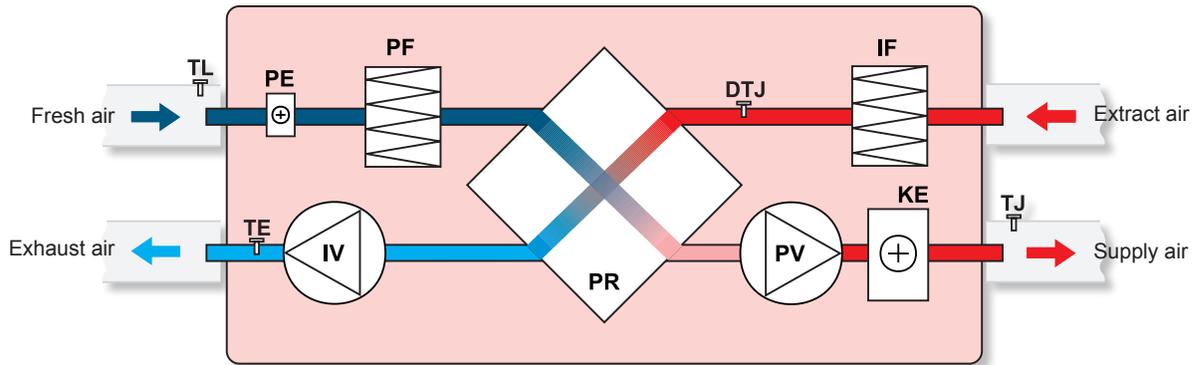
| 1500HW 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 76 | 67 | 66 | 70 | 70 | 67 | 62 | 56 |
| Extract | 58 | 51 | 49 | 53 | 51 | 45 | 40 | 33 |
| Surrounding | 57 | 49 | 50 | 52 | 48 | 45 | 41 | 37 |

Measured at 1250 m³/h, 70 Pa

| 1900HW 3.0 | Lwa total, dB(A) | LWA, dB(A) | | | | | | |
|-------------|------------------|------------|--------|--------|-------|-------|-------|-------|
| | | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Supply | 86 | 65 | 68 | 77 | 82 | 81 | 75 | 66 |
| Extract | 71 | 57 | 59 | 69 | 64 | 55 | 49 | 44 |
| Surrounding | 63 | 48 | 50 | 55 | 57 | 56 | 50 | 45 |

Measured at 1812 m³/h, 124 Pa

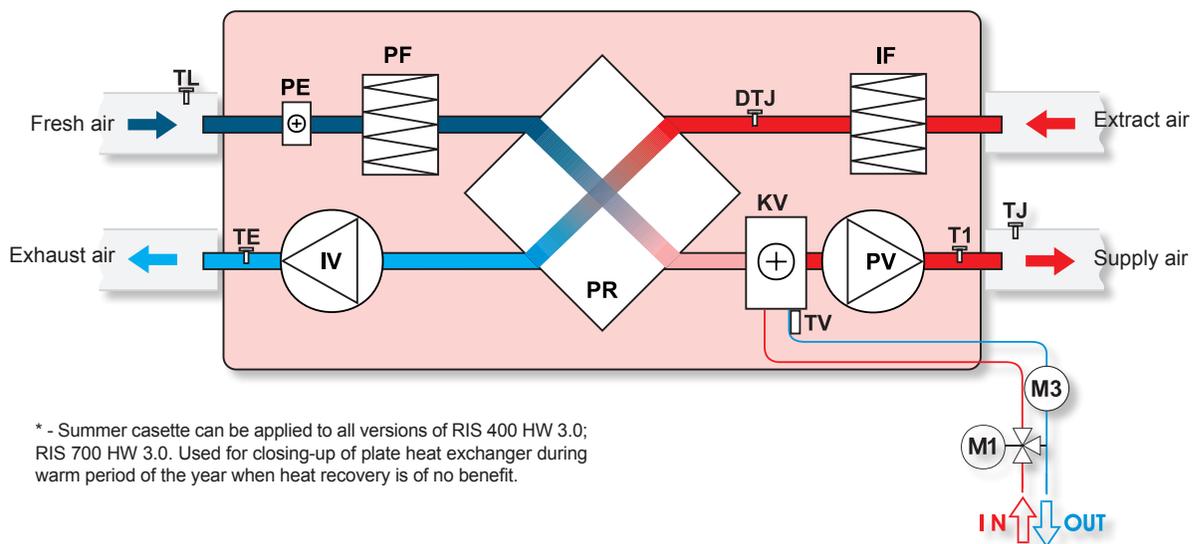
RIS 400HE 3.0; 700HE 3.0 versions with electrical heater *



- IV - exhaust air fan
- PV - supply air fan
- PR - plate heat exchanger
- KE - electrical heater
- PE - anti-freeze heater for heat exchanger
- PF - filter for supply air (class M5)
- IF - filter for extract air (class G4)
- TJ - temperature sensor for supply air
- TL - temperature sensor for fresh air
- TE - temperature sensor for exhaust air
- DTJ - humidity + temperature sensor

* - Summer cassette can be applied to all versions of RIS 400 HE 3.0; RIS 700 HE 3.0. Used for closing-up of plate heat exchanger during warm period of the year when heat recovery is of no benefit.

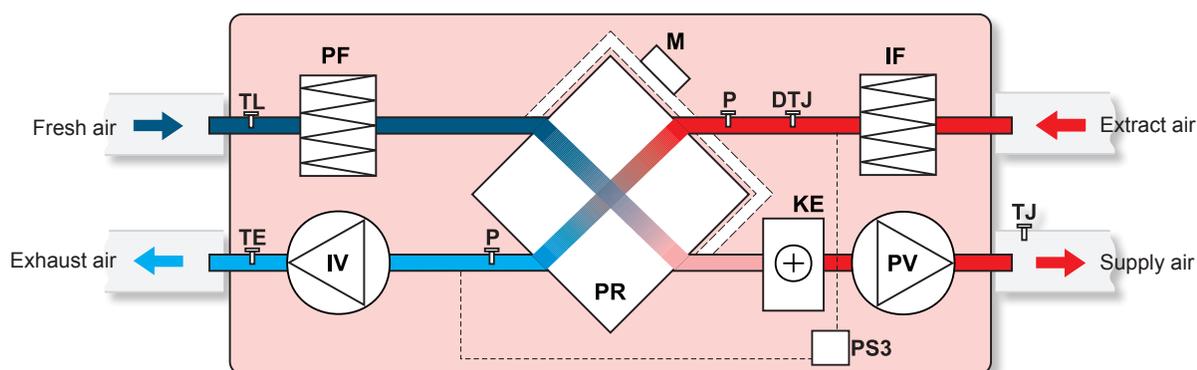
RIS 400HW 3.0; 700HW 3.0 versions with water heater *



* - Summer cassette can be applied to all versions of RIS 400 HW 3.0; RIS 700 HW 3.0. Used for closing-up of plate heat exchanger during warm period of the year when heat recovery is of no benefit.

- IV - exhaust air fan
- PV - supply air fan
- PR - plate heat exchanger
- KV - water heater
- PE - anti-freeze heater for heat exchanger
- PF - filter for supply air (class M5)
- IF - filter for exhaust air (class G5)
- TL - temperature sensor for fresh air
- TE - temperature sensor for extract air
- DTJ - humidity + temperature sensor
- T1 - antifrost thermostat
- TV - antifrost sensor
- TJ - temperature sensor for supply air
- M1 - optionally supplied mixing valve and motor
- M3 - water heater circulatory pump

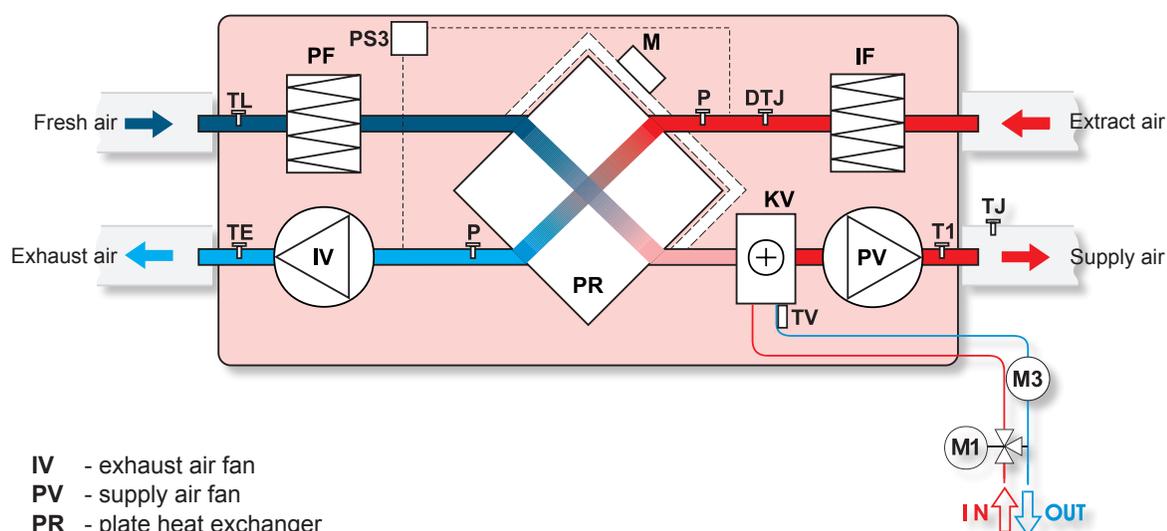
RIS 1000HE 3.0; 1500HE 3.0; 1900HE 3.0 versions with electrical heater



- 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
- DTJ** - humidity + temperature sensor
- P** - heat exchanger pressure switch
- M** - actuator of by-pass damper
- PS3** - heat exchanger antifrost pressure switch

RIS 1000HW 3.0; 1500HW 3.0; 1900HW 3.0 versions with water heater



- IV** - exhaust air fan
- PV** - supply air fan
- PR** - plate heat exchanger
- KV** - water 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
- DTJ** - humidity + temperature sensor

- P** - heat exchanger pressure switch
- T1** - antifrost thermostat
- TV** - antifrost sensor
- M** - actuator of by-pass damper
- M1** - optionally supplied mixing valve and motor
- M3** - water heater circulatory pump
- PS3** - heat exchanger antifrost pressure switch