

RIRS V EKO



NEW!

AHU with heat recovery

Centrales de traitement d'air avec récupération de chaleur

Lüftungsgeräte mit Wärmerückgewinnung

AHU med varmegenvinding



Air handling units RIRS V EKO 3.0 have high efficiency rotor heat exchanger. AHU is used for ventilation of houses and other heated areas.

- Energy saving and low noise EC fans.
- Efficiency of rotor heat exchanger up to 80%.
- Integrated electrical heater optional water heating/cooling.
- Electrical heater control 0 - 10V (RIRS 1200 – 2500 V EKO 3.0).
- Controlled air flow.
- RIRS V EKO 3.0 versions can be controlled with Flex, Stouch.
- Acoustic insulation of the walls – RIRS 200 - 300 EKO - 20 mm, RIRS 400 - 5500 V EKO 3.0 – 50mm.
- Low noise level.
- Easy mounting.
- Full integrated plug & play control system.
- Integrated pressure switch for filter pollution (RIRS 1200 - 2500 V EKO 3.0).
- Optional CO₂, pressure or airflow transmitter (RIRS 400 – 5500 V EKO 3.0).



Les centrales de traitement d'air RIRS V EKO 3.0 sont équipées d'un échangeur de chaleur rotatif efficace. Ces centrales de traitement d'air avec récupération de chaleur sont utilisées pour la ventilation des locaux chauffés.

- Ventilateurs EC économes en énergie et silencieux.
- Échangeur de chaleur rotatif efficace, dont le rendement thermique fait jusqu'à 80%.
- Batterie électrique intégrée et batterie à eau chaude / batterie à eau glacée en option.
- Contrôle de la batterie électrique 0-10V (RIRS 1200 – 2500 V EKO 3.0).
- Possibilité d'inverser le flux d'air.
- Réglage de la température de l'air soufflé.
- Peut être réglée à l'aide des boîtiers de commande Flex, Stouch.
- Isolation acoustique des parois : RIRS 200 - 300 EKO - 20 mm, RIRS 400 - 5500 V EKO 3.0 – 50 mm.
- Faible niveau de bruit.
- Installation facile et rapide.
- Pré équipement « Plug & play » et carte de contrôle automatique entièrement intégrée.
- Capteur d'encrassement des filtres intégré (RIRS 1200 - 2500 V EKO 3.0).
- Possibilité de connecter les convertisseurs de pression, de CO₂ et d'humidité (RIRS 400 – 5500 V EKO 3.0).



Lüftungsgeräte RIRS V EKO 3.0 mit hocheffizientem Rotationswärmetauscher. WRG sind für Lüftung von Häusern und anderen beheizten Räumen bestimmt.









- Wirtschaftliche und geräuscharme EC Ventilatoren.
- Hocheffizienter Rotationswärmetauscher bis zu 80%.
- Eingebautes Elektro-Register oder optional Warmwasserregister oder Wasserkühler für externe Einbau im Rohrsystem.
- Steuerung des Elektroregisters 0-10 V (RIRS 1200-2500 V 3.0)
- Regelung des Luftstromes.
- Zulufttemperatur-Regelung.
- Steuerung mittels Fernbedienung Flex, Stouch.
- Schall- und Wärmedämmung RIRS 200 - RIRS 300 EKO – 20mm, RIRS 400 - 5500 V EKO 3.0 – 50mm.
- Niedriges Geräuscheniveau.
- Montage freundlich.
- Vollständig eingebaute Plug & Play-Steuerung.
- Eingebaute Druckdifferenzschalter für Filterüberwachung (RIRS 1200-2500 V EKO 3.0).
- Optional CO₂-, Druck- oder Feuchtefühler (RIRS 400-5500 V EKO 3.0).



Ventilationsaggregatet RIRS V EKO 3.0 har en særdeles effektiv rotorvarmeveksler. AHU anvendes til ventilation af huse og andre opvarmede områder.

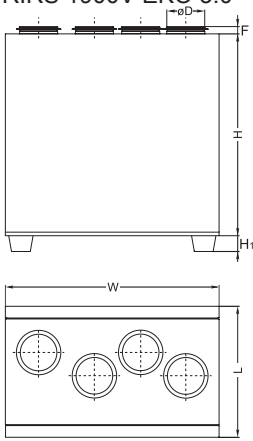
- Energibesparende, støjsvage EC-ventilatorer.
- Virkningsgrad op til 80%.
- Integreret elvarme eller valgfri vandvarme/køle-flade.
- Elektrisk varme kontrol 0-10V (RIRS 1200 – 2500 V EKO 3.0).
- Regulerbar luftmængde.
- Regulerbar indblæsnings-temperatur.
- Lavt støjniveau.
- Støjdæmpende isolering af kabinettet, RIRS 200 - 300 EKO – 20mm / RIRS 400-5500 V EKO 3.0 – 50mm.
- Alle varianter af RIRS V EKO 3.0 kan styres med Flex, Stouch.
- Nem montering.
- Integreret "plug & play" kontrolsystem.
- Filter overvågning
- Mulighed for CO₂-, tryk- og flow-transmitter (RIRS 400 – 5500 V EKO 3.0).

Accessories

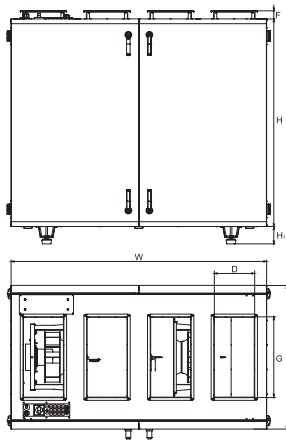
Remote controller	Sensor controller	Pressure transmitter	CO2 sensor	Duct humidity sensor	Circular duct silencer	Mounting clips	Shuft-off damper
							
Flex p. 178	Stouch p. 179	S-1141 p. 181	s-RC02-F2 p. 182	S-KFF-U p. 183	AKS p. 230	AP p. 229	SKG p. 226

RIRS V EKO

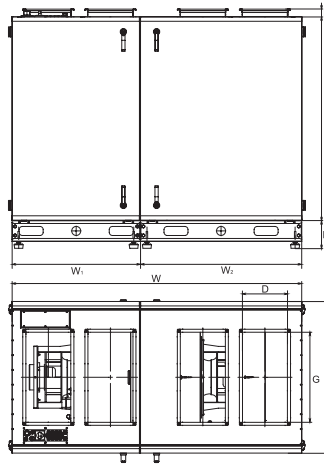
RIRS 200V EKO -
RIRS 1900V EKO 3.0



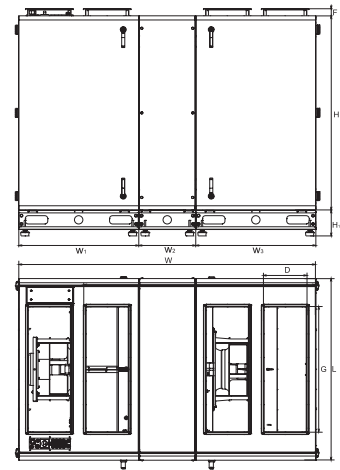
RIRS 2500V EKO 3.0



RIRS 3500V EKO 3.0



RIRS 5500V EKO 3.0



RIRS 400 V E L EKO 3.0

- Equipped with new PRV V2.4 control board
- AHU with EC motors
- Air intake side (L - left; R - right)
- 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 rotor heat-exchanger

Type	Dimensions [mm]										
	W	W ₁	W ₂	W ₃	L	H	øD	D	G	H ₁	F
RIRS 200VE EKO	598	-	-	-	320	620	125	-	-	-	30
RIRS 300VE EKO	598	-	-	-	320	620	125	-	-	-	30
RIRS 400VE/VW EKO 3.0	900	-	-	-	553	850	160	-	-	40	30
RIRS 700VE/VW EKO 3.0	1100	-	-	-	655	980	250	-	-	40	40
RIRS 1200VE/VW EKO 3.0	1500	-	-	-	855	1150	315	-	-	70	40
RIRS 1900VE/VW EKO 3.0	1500	-	-	-	855	1150	315	-	-	70	40
RIRS 2500VE/VW EKO 3.0	1600	-	-	-	900	1300	-	250	500	110	50
RIRS 3500VE/VW EKO 3.0	1930	850	1075	-	1010	1355	-	300	600	190	50
RIRS 5500VE/VW EKO 3.0	2120	855	400	855	1310	1400	-	300	900	190	50

AHU produced according VDI 6022

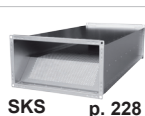
Accessories

Damper for rectangular duct



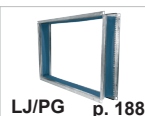
SSK p. 228

Rectangular duct silencer



SKS p. 228

Flexible connection



LJ/PG p. 188

Flange-adaptor



STP p. 234

Water heating coil



SVS p. 198

Cimfort Box



CB p. 190

RIRS V EKO

Type	Accessories						
	Flex Stouch	S-1141 S-RC02-F2 S-KFF-U	AKS AP SKG	SSK SKS LJ/PG	STP	SVS CB	SP
RIRS 200VE EKO	+	+	125	-	-	-	LM230A-TP
RIRS 300VE EKO	+	+	125	-	-	-	LM230A-TP
RIRS 400VE EKO 3.0	+	+	160	-	-	-	LM230A-TP
RIRS 400VW EKO 3.0	+	+	160	-	-	160	TF230
RIRS 700VE EKO 3.0	+	+	250	-	-	-	LM230A-TP
RIRS 700VW EKO 3.0	+	+	250	-	-	250	TF230
RIRS 1200VE EKO 3.0	+	+	315	-	-	-	LM230A-TP
RIRS 1200VW EKO 3.0	+	+	315	-	-	315	LF230
RIRS 1900VE EKO 3.0	+	+	315	-	-	-	LM230A-TP
RIRS 1900VW EKO 3.0	+	+	315	-	-	315	LF230
RIRS 2500VE EKO 3.0	+	+	-	500x250	500x250-400	500x250/400	LM230A-TP
RIRS 2500VW EKO 3.0	+	+	-	500x250	500x250-400	500x250/400	LF230
RIRS 3500VE EKO 3.0	+	+	-	600x300	600x300-500	600x300	LM230A-TP
RIRS 3500VW EKO 3.0	+	+	-	600x300	600x300-500	600x300	LF230
RIRS 5500VE EKO 3.0	+	+	-	800x500	900x300-800x500	800x500	LM230A-TP
RIRS 5500VW EKO 3.0	+	+	-	800x500	900x300-800x500	800x500	LF230

Type	TJP 10K CO4C***	SSB Heating	SSB Cooling	RMG 80/60°C	RMG 60/40°C	VVP/VXP 80/60°C	VVP/VXP 60/40°C
	RIRS 200VE EKO	-	-	-	-	-	-
RIRS 300VE EKO	-	-	-	-	-	-	-
RIRS 400VE EKO 3.0	-	-	-	-	-	-	-
RIRS 400VW EKO 3.0	int	61	81	3-0,63-4	3-0,63-4	45.10-0,63	45.10-0,63
RIRS 700VE EKO 3.0	-	-	-	-	-	-	-
RIRS 700VW EKO 3.0	int	61	81	3-1,0-4	3-1,0-4	45.10-1,0	45.10-1,0
RIRS 1200VE EKO 3.0	-	-	-	-	-	-	-
RIRS 1200VW EKO 3.0	int	61	81	3-1,0-4	3-1,0-4	45.10-1,0	45.10-1,0
RIRS 1900VE EKO 3.0	-	-	-	-	-	-	-
RIRS 1900VW EKO 3.0	int	61	81	3-1,0-4	3-1,0-4	45.10-1,0	45.10-1,0
RIRS 2500VE EKO 3.0	-	-	81	Heaters, coolers and RMG/VVP/VXP data online selection program: www.salda.it			
RIRS 2500VW EKO 3.0	int	61	81				
RIRS 3500VE EKO 3.0	-	-	81				
RIRS 3500VW EKO 3.0	int	61	81				
RIRS 5500VE EKO 3.0	-	-	81				
RIRS 5500VW EKO 3.0	int	61	81				

Actuator for dampers



SP p. 188

Duct sensor



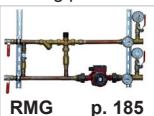
TJP 10K p. 187

Thermic water valve actuator



SSB p. 184

Mixing point



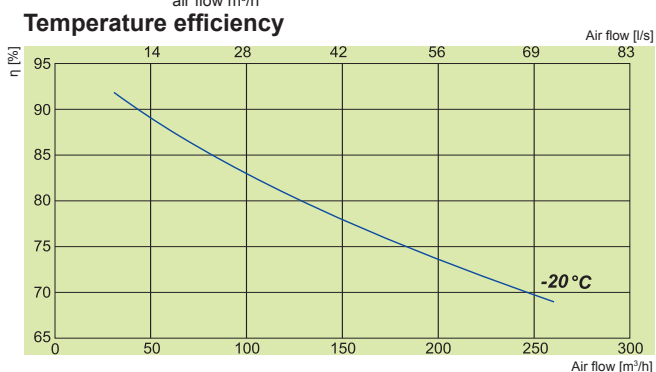
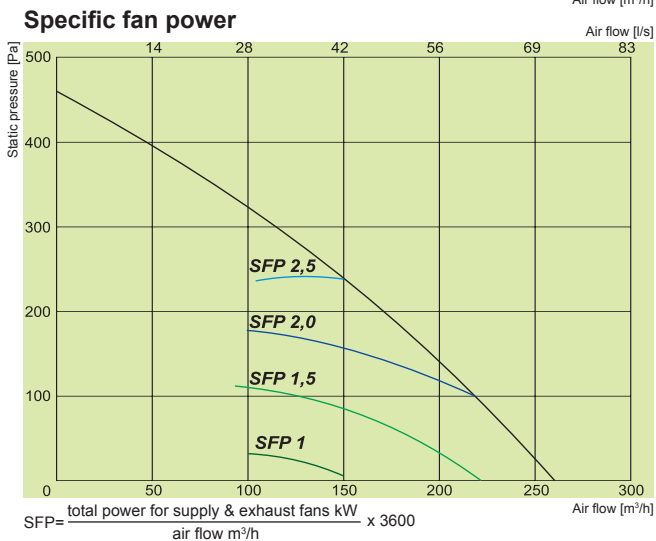
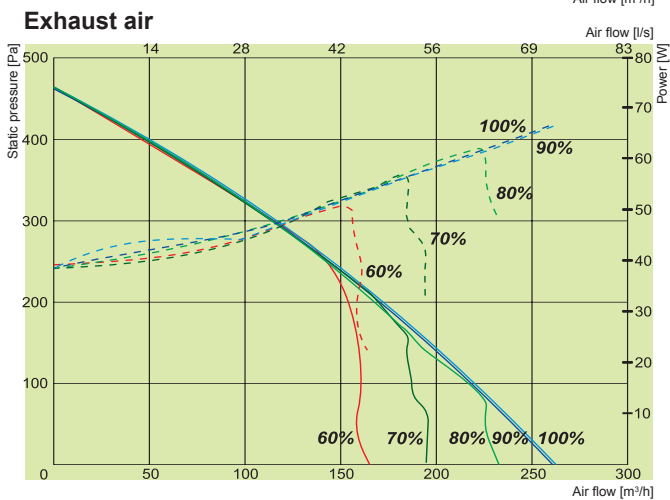
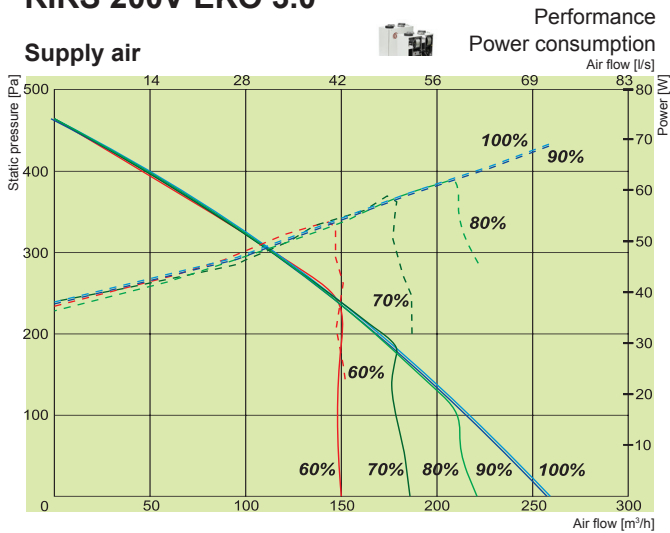
RMG p. 185

2 and 3 way valves



VVP/VXP p. 186

RIRS 200V EKO 3.0



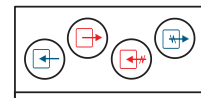
Performance

Power consumption



RIRS 200VEL EKO

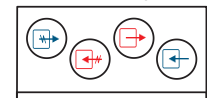
Air intake side (L- left convertible)



View from inspection side

RIRS 200VER EKO

Air intake side (D- right convertible)



View from inspection side

Exhaust air
 Extract air
 Fresh air
 Supply air

Article No.	Version
GRERIRS2007	200VEL EKO Left-hand maintenance version with integrated electrical heater.
GAGRIRS055	200VER EKO Right-hand maintenance version with integrated electrical heater.

RIRS 200VE EKO

Heater	-phase/voltage [50Hz/VAC]	~1, 230
	-power consumption [kW]	0,6
EC Fans	-phase/voltage [50Hz/VAC]	~1, 230
exhaust	-power/current [kW/A]	0,067 / 0,66
	-fan speed [min ⁻¹]	2300
supply	-power/current [kW/A]	0,069 / 0,65
	-fan speed [min ⁻¹]	2300
Motor protection class		IP-44
Thermal efficiency		80%
Max power consumption	[kW/A]	0,74 / 4,01
Automatic control		integrated
Filter class	-exhaust	M5
	-supply	M5
Thermal insulation	[mm]	20
Weight	[kg]	41,0
Comply with ERP 2013		+

Air flow temperature range from -20°C to +40°C

Designed for operation indoors only

200VE EKO	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	65	50	59	61	59	55	51	40
Extract	60	45	58	53	45	37	28	21
Surrounding	46	37	40	42	38	29	19	16

Measured at 214 m³/h, 100 Pa

Extract air = 20°C/60% RH - Outdoor air = -20°C/90% RH
Balance between supply air/extract air = 1.0

Temperature efficiency calculated according EN 308.

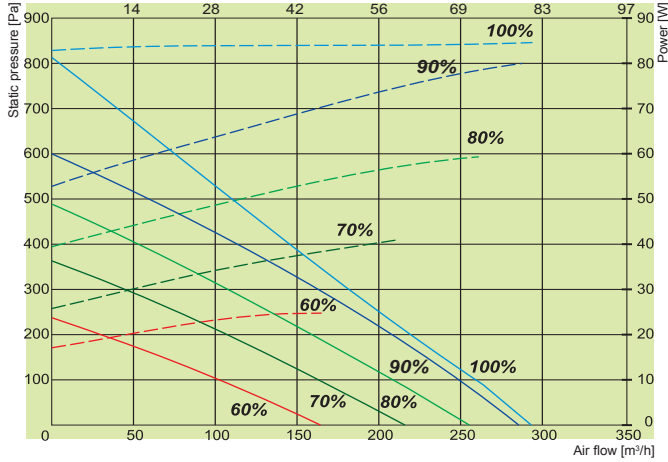
Accessories



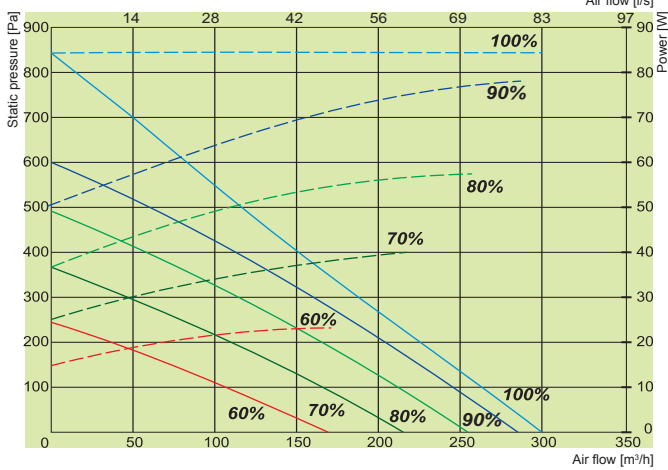
RIRS V EKO

RIRS 300VE EKO 3.0

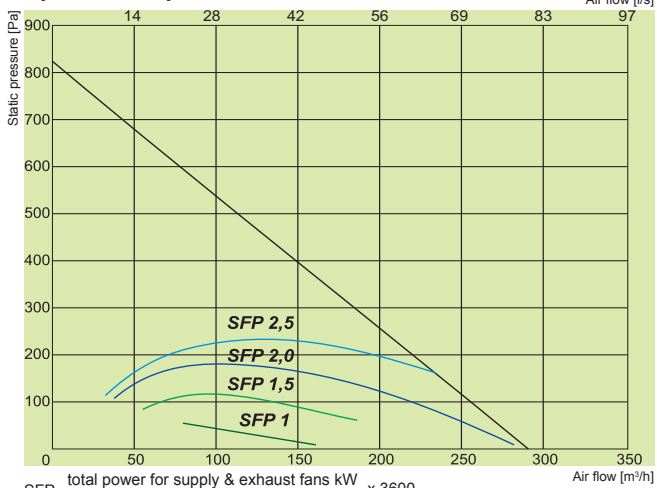
Supply air Performance
Power consumption
Air flow [l/s]



Exhaust air

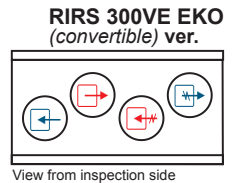
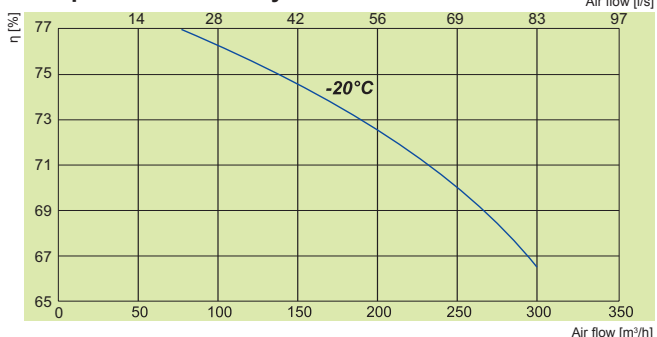


Specific fan power



$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

Temperature efficiency



Exhaust air Extract air Fresh air Supply air

Article No.	Version
GRERIRS3002	300VE EKO Integrated electrical heater.

RIRS 300VE EKO

Heater	-phase/voltage [50Hz/VAC]	~1, 230
	-power consumption [kW]	0,6
EC Fans	-phase/voltage [50Hz/VAC]	~1, 230
exhaust	-power/current [kW/A]	0,084/0,73
	-fan speed [min ⁻¹]	3200
supply	-power/current [kW/A]	0,084/0,75
	-fan speed [min ⁻¹]	3200
Motor protection class		IP-44
Thermal efficiency		75%
Max power consumption	[kW/A]	0,77 /4,11
Automatic control		integrated
Filter class	-exhaust	M5
	-supply	M5
Thermal insulation	[mm]	20
Weight	[kg]	36,0
Comply with ERP 2015		+

* Calculated according EN 380.

300VE EKO	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	64	45	47	54	56	60	57	46
Extract	59	44	46	54	53	51	49	40
Surrounding	48	32	32	39	41	44	41	37

Measured at 258 m³/h, 111 Pa

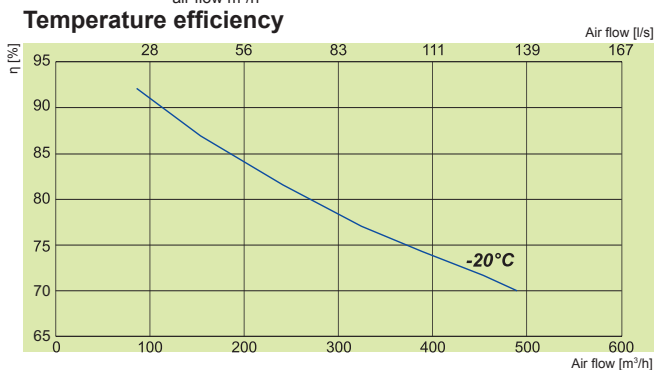
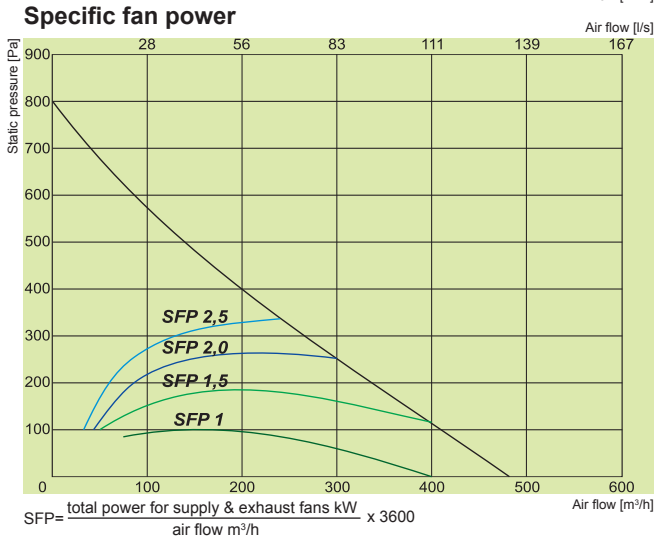
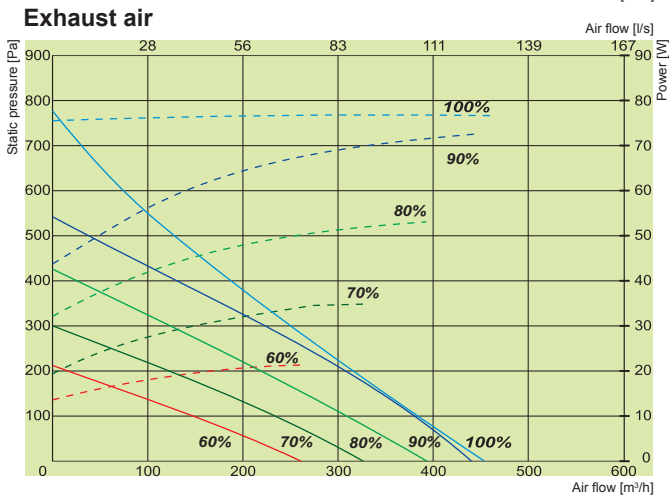
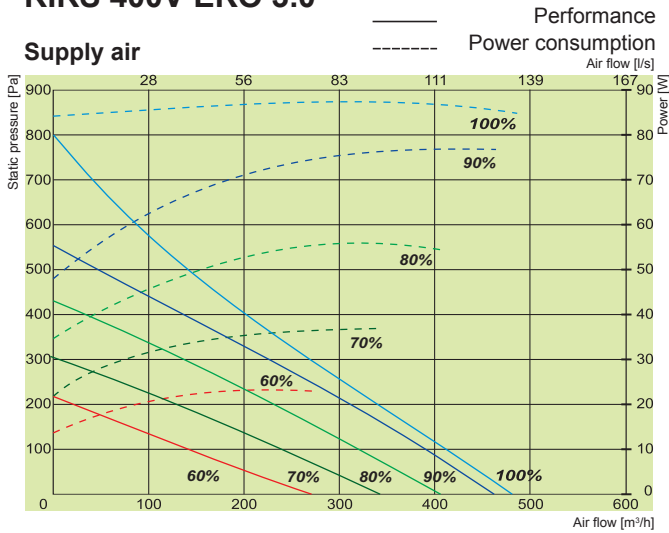
Extract air = 20°C/60% RH - Outdoor air = -20°C/90% RH
Balance between supply air/extract air = 1.0

Temperature efficiency calculated according EN 380.

Accessories

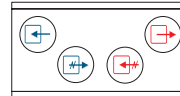


RIRS 400V EKO 3.0



RIRS 400VL EKO 3.0

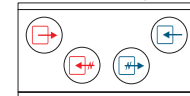
Air intake side (L- left)



View from inspection side

RIRS 400VR EKO 3.0

Air intake side (R- right)



View from inspection side

Exhaust air

Extract air

Fresh air

Supply air

Article No.	Version
GAGRIRS1759_0037A	400VEL EKO 3.0 Left-hand maintenance version with integrated electrical heater.
GAGRIRS1760_0039A	400VWL EKO 3.0 Left-hand maintenance version prepared for optional water heater.
GAGRIRS1757_0036A	400VER EKO 3.0 Right-hand maintenance version with integrated electrical heater.
GAGRIRS1758_0038A	400VVR EKO 3.0 Right-hand maintenance version prepared for optional water heater.

400VE / VW EKO 3.0

Water heater (optional) VW ver.	AVS 200
Electrical heater VE 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 VE / VW	[kW/A] 1,38/5,94 0,18/1,60
Control board	PRV V2.2
Filter class	exhaust/supply M5/F7
Housing insulation, mineral wool	[mm] 50
Colour	RAL white 9016
Weight (net, without packing)	[kg] 79,5
Comply with ERP	2015
Operation	indoors
Housing protection class	IP 34

* Calculated according EN 380.

400V 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	70	64	59	61	66	63	54	52
Extract	61	55	57	57	49	43	34	30
Surrounding	54	51	48	41	42	43	33	28

Measured at 418 m³/h, 120 Pa

Temperature efficiency (balanced mass flow) EN 308:
Extract air = 20°C/60%RH
Outdoor air = -20°C

Certifications

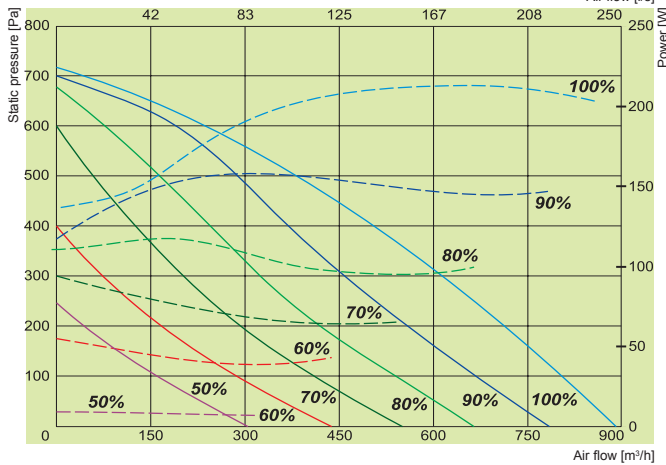
EUROVENT certified
rotor heat exchanger performance



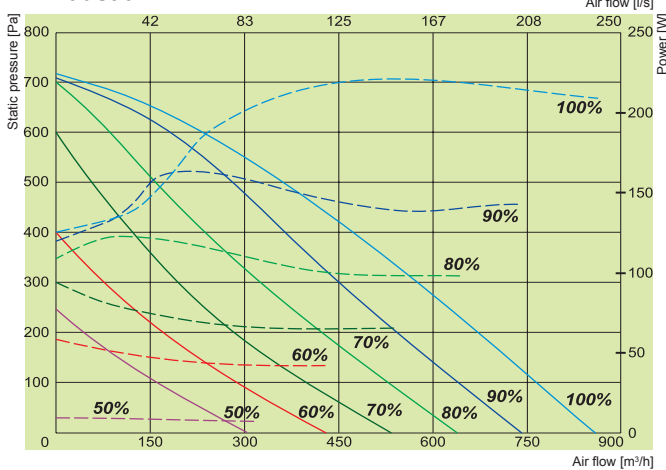
RIRS V EKO

RIRS 700V EKO 3.0

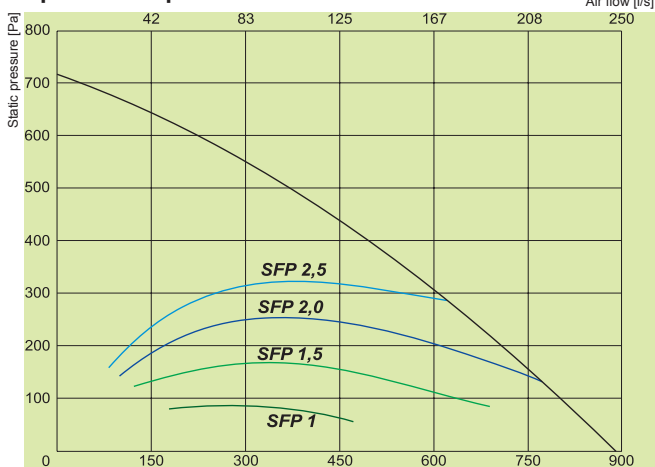
Supply air Performance
Power consumption



Exhaust air

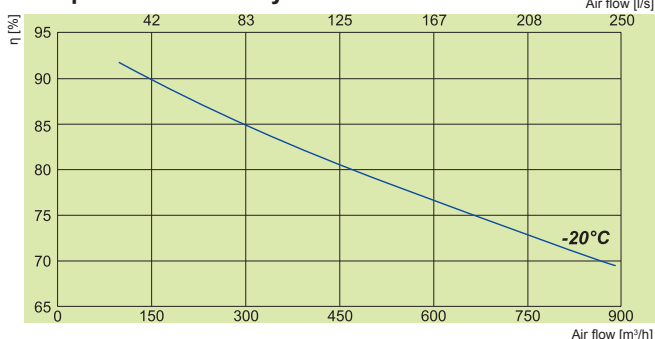


Specific fan power



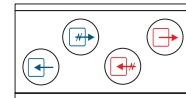
$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

Temperature efficiency



RIRS 700VL EKO 3.0

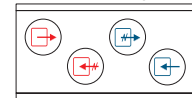
Air intake side (L- left)



View from inspection side

RIRS 700VR EKO 3.0

Air intake side (R- right)



View from inspection side

Exhaust air Extract air Fresh air Supply air

Article No.	Version
GAGRIRS1770_0033A	700VEL EKO 3.0 Left-hand maintenance version with integrated electrical heater.
GAGRIRS1771_0035A	700VWL EKO 3.0 Left-hand maintenance version prepared for optional water heater.
GAGRIRS1766_0032A	700VER EKO 3.0 Right-hand maintenance version with integrated electrical heater.
GAGRIRS1768_0034A	700VVR EKO 3.0 Right-hand maintenance version prepared for optional water heater.

700VE / VW EKO 3.0

Water heater (optional) VW ver.	AVS 250
Electrical heater VE ver. phase/voltage [50Hz/VAC]	~1, 230
	[kW]
	2,0
EC fans phase/voltage [50Hz/VAC]	~1, 230
exhaust power/current [kW/A]	0,222 / 1,8
	fan speed [min ⁻¹]
	3380
supply power/current [kW/A]	0,216 / 1,71
	fan speed [min ⁻¹]
	3380
Thermal efficiency up to*	74%
Max power consumption VE / VW [kW/A]	2,45/12,31 0,45/3,61
Control board	PRV V2.2
Filter class exhaust/supply	M5/F7
Housing insulation, mineral wool [mm]	50
Colour RAL	white 9016
Weight (net, without packing) [kg]	104
Comply with ERP	2013; 2015
Operation	indoors
Housing protection class	IP 34

* Calculated according EN 308.

700V 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	76	67	69	70	69	68	63	62
Extract	63	52	60	58	47	44	38	35
Surrounding	55	47	50	49	44	43	39	39

Measured at 755 m³/h, 152 Pa

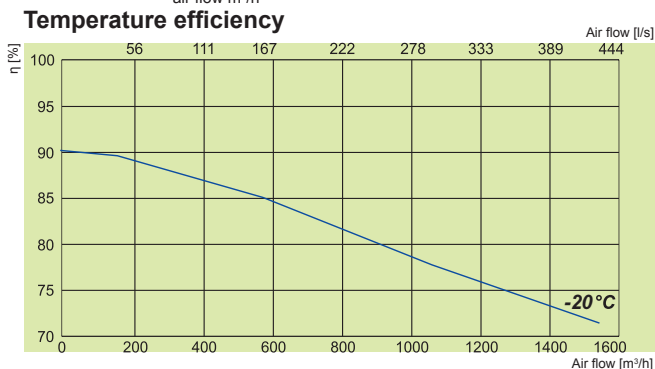
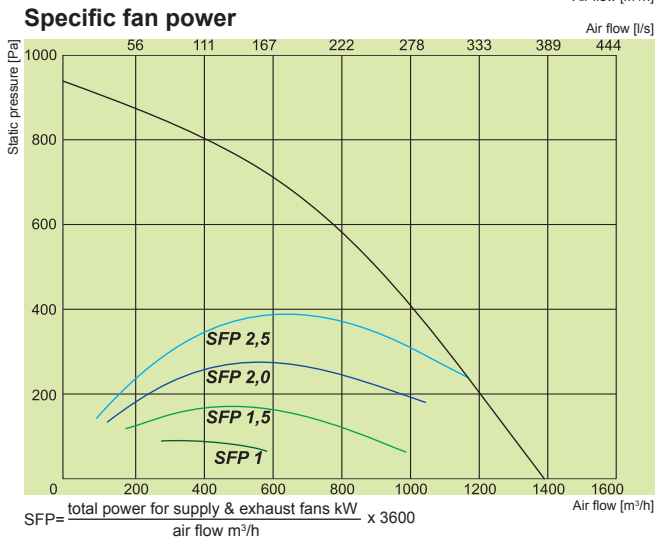
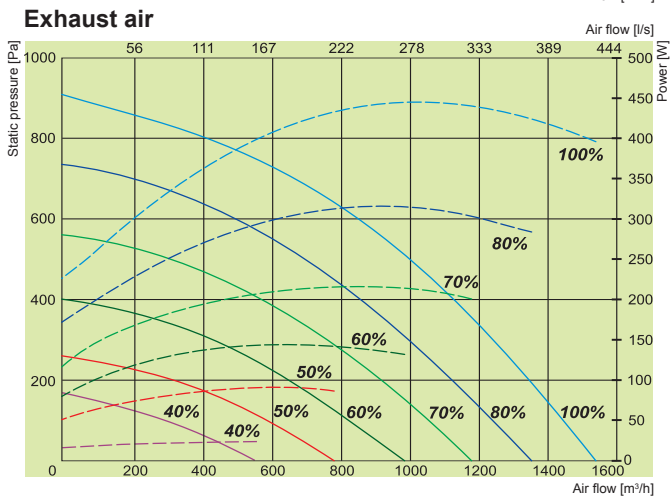
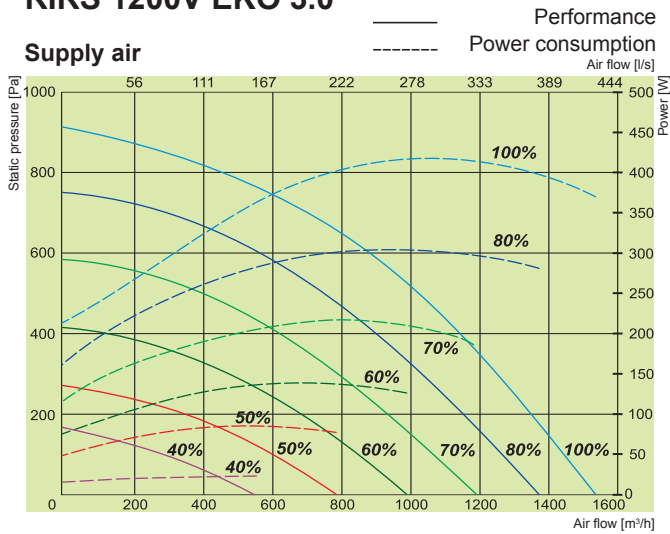
Temperature efficiency (balanced mass flow) EN 308:
Extract air = 20°C/60%RH
Outdoor air = -20°C

Certifications

EUROVENT certified
rotor heat exchanger performance

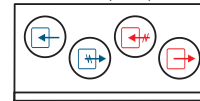


RIRS 1200V EKO 3.0



RIRS 1200VL EKO 3.0

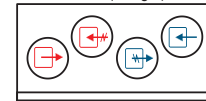
Air intake side (L- left)



View from inspection side

RIRS 1200VR EKO 3.0

Air intake side (R- right)



View from inspection side

↔ Exhaust air
 ↔ Extract air
 ← Fresh air
 → Supply air

Article No.	Version
GAGRIRS1678_0003C	1200VEL EKO 3.0 Left-hand maintenance version with integrated electrical heater.
GAGRIRS1679_0004A	1200VWL EKO 3.0 Left-hand maintenance version prepared for optional water heater.
GAGRIRS1675_0001C	1200VER EKO 3.0 Right-hand maintenance version with integrated electrical heater.
GAGRIRS1677_0002A	1200VWR EKO 3.0 Right-hand maintenance version prepared for optional water heater.

1200VE / VW EKO 3.0

Water heater (optional) VW ver.	AVS 315
Electrical heater VE ver.	phase/voltage [50Hz/VAC] ~2, 400
	[kW] 4,0
EC fans	phase/voltage [50Hz/VAC] ~1, 230
exhaust	power/current [kW/A] 0,408 /2,71
	fan speed [min ⁻¹] 3400
supply	power/current [kW/A] 0,415 /2,81
	fan speed [min ⁻¹] 3400
Thermal efficiency up to*	74%
Max power consumption VE/VW	[kW/A] 4,84 /15,69
Control board	PRV V2.2
Filter class	exhaust/supply M5/F7
Housing insulation, mineral wool	[mm] 50
Colour	RAL grey 7040
Weight (net, without packing)	[kg] 180
Comply with ERP	2013; 2015
Operation	indoors
Housing protection class	IP 34

* Calculated according EN 308.

1200V 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	63	74	71	70	69	64	55
Extract	67	57	63	56	52	53	51	37
Surrounding	57	47	54	49	47	49	46	36

Measured at 1351 m³/h, 181 Pa

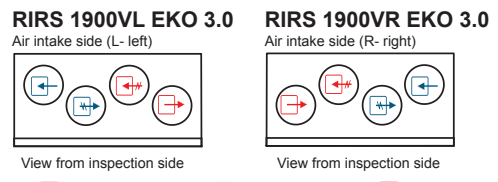
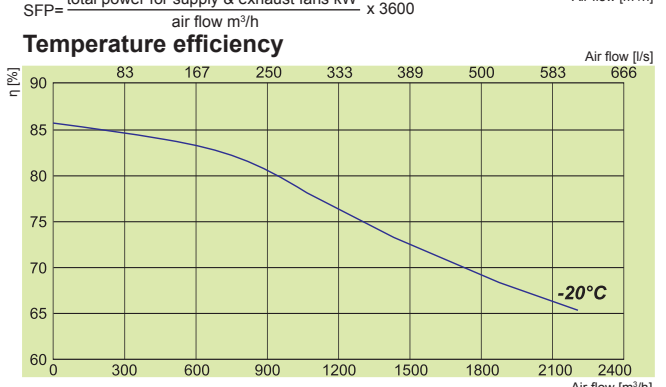
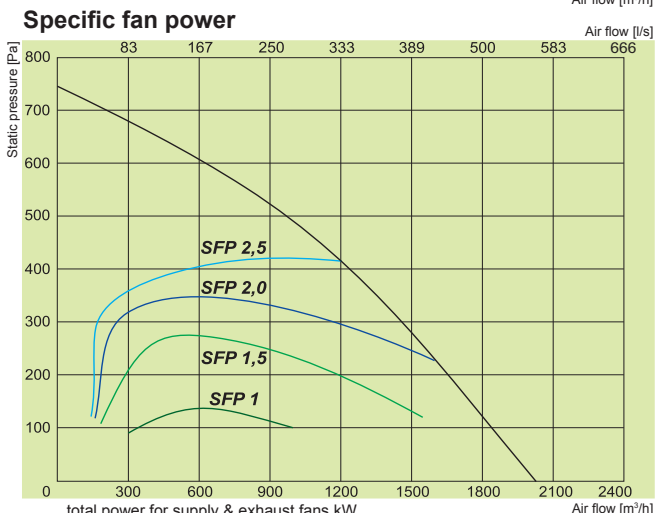
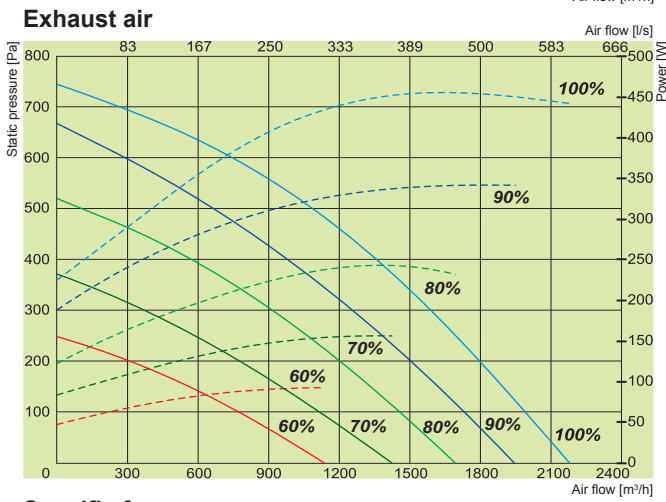
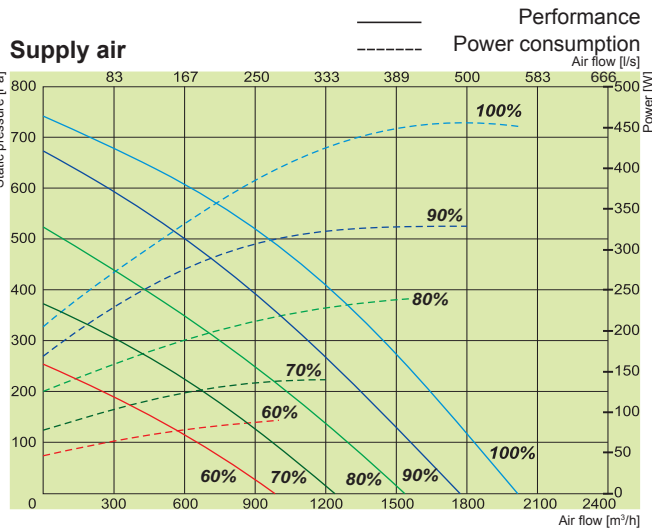
Temperature efficiency (balanced mass flow) EN 308:
 Extract air = 20°C/60%RH
 Outdoor air = -20°C

Certifications

EUROVENT certified
 rotor heat exchanger performance



RIRS V EKO



← Exhaust air
 → Extract air
 ← Fresh air
 → Supply air

Article No.	Version	Description
GAGRIRS1712_0011B	1900VEL EKO 3.0	Left-hand maintenance version with integrated electrical heater.
GAGRIRS1713_0012A	1900VWL EKO 3.0	Left-hand maintenance version prepared for optional water heater.
GAGRIRS1708_0009B	1900VER EKO 3.0	Right-hand maintenance version with integrated electrical heater.
GAGRIRS1711_0010A	1900VVR EKO 3.0	Right-hand maintenance version prepared for optional water heater.

1900VE / VW EKO 3.0

Water heater (optional) VW ver.	AVS 315
Electrical heater VE ver. phase/voltage [50Hz/VAC]	~3, 400
	[kW]
	9,0
EC fans phase/voltage [50Hz/VAC]	~1, 230
exhaust power/current [kW/A]	0,49/3,15
	fan speed [min ⁻¹]
	2540
supply power/current [kW/A]	0,485/3,15
	fan speed [min ⁻¹]
	2540
Thermal efficiency up to*	74%
Max power consumption VE / VW [kW/A]	9,99/19,47
Control board	PRV V2.2
Filter class exhaust/supply	M5/F7
Housing insulation, mineral wool [mm]	50
Colour RAL	grey 7040
Weight (net, without packing) [kg]	180
Comply with ERP	2013; 2015
Operation	indoors
Housing protection class	IP 34

* Calculated according to EN 308.

1900V 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	80	58	76	71	72	71	70	62
Extract	69	56	67	60	54	58	57	48
Surrounding	60	44	57	51	49	53	52	45

Measured at 1879 m³/h, 101 Pa

Temperature efficiency (balanced mass flow) EN 308:
 Extract air = 20°C/60%RH
 Outdoor air = -20°C

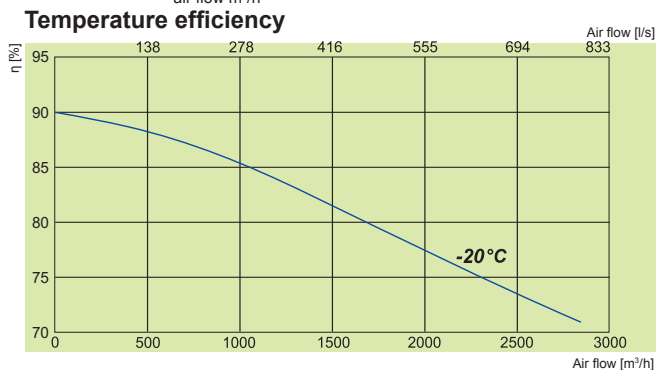
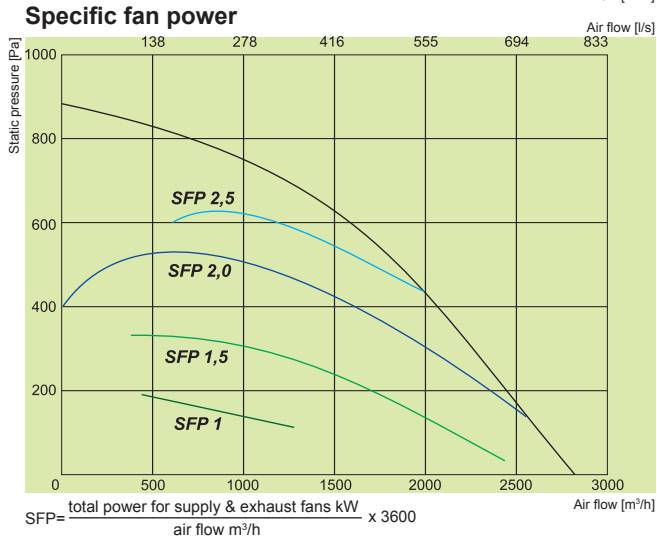
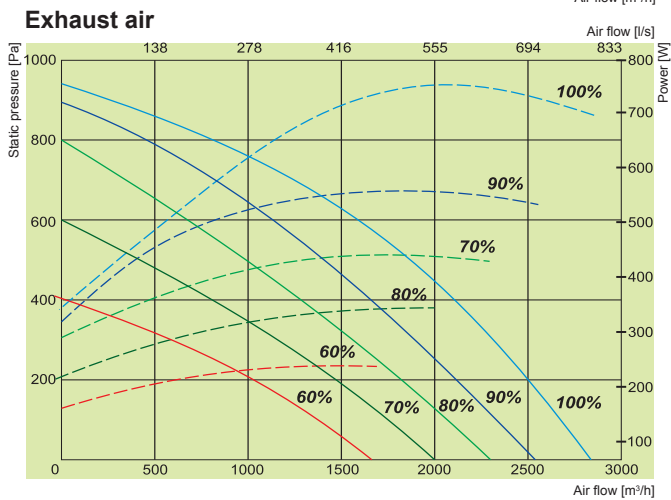
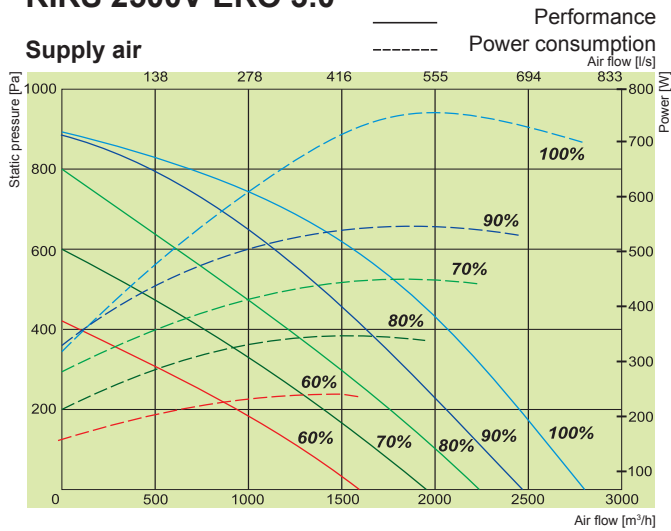
Certifications
 EUROVENT certified
 rotor heat exchanger performance



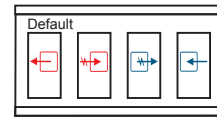
SALDA

AIR HANDLING UNITS

RIRS 2500V EKO 3.0



RIRS 2500VR EKO 3.0 (convertable) ver.



View from inspection side

Exhaust air Extract air Fresh air Supply air

Article No.	Version
GAGRIRS1883_0066B	2500VER EKO 3.0 Integrated electrical heater
GAGRIRS1887_0069A	2500VWR EKO 3.0 Optional water heater
GAGRIRS1901_0074B	2500VER EKO 3.0 Integrated electrical heater and 0-10 rotor
GAGRIRS1902_0075A	2500VWR EKO 3.0 Optional water heater and 0-10 rotor control

2500VE / VW EKO 3.0

Water heater (optional) VW ver.	SVS
Electrical heater VE ver. phase/voltage [50Hz/VAC]	~3, 400
	[kW]
	9
EC fans phase/voltage [50Hz/VAC]	~1, 230
exhaust power/current [kW/A]	0,75 / 3,3
	2800
	fan speed [min ⁻¹]
supply power/current [kW/A]	0,76 / 3,32
	2800
	fan speed [min ⁻¹]
Thermal efficiency up to*	80%
Max power consumption VE / VW [kW/A]	10,55/19,97
Control board	PRV V2.4
Filter class exhaust/supply	M5/F7
Housing insulation, mineral wool [mm]	50
Colour RAL	grey 7040
Weight (net, without packing) [kg]	280,0 270,0
Comply with ERP	2015
Operation	indoors/outdoors**
Housing protection class	IP 34

* Calculated according EN 308.

**Under covered area.

2500V 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	61	68	72	73	70	64	62
Extract	67	59	62	63	57	52	48	43
Surrounding	62	45	54	59	52	52	49	46

Measured at 2355 m³/h, 214 Pa

Temperature efficiency (balanced mass flow) EN 308:
Extract air = 20°C/60%RH
Outdoor air = -20°C

Certifications

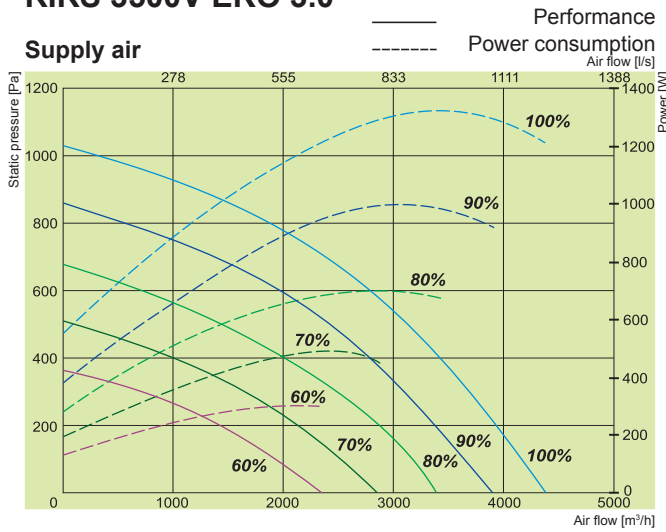
EUROVENT certified
rotor heat exchanger performance



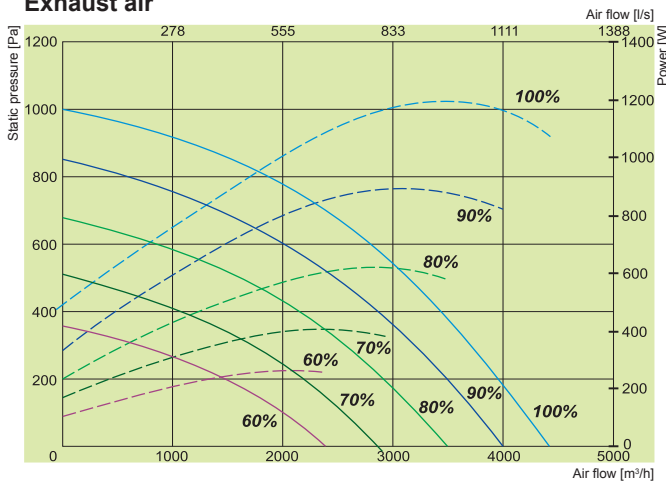
RIRS V EKO

RIRS 3500V EKO 3.0

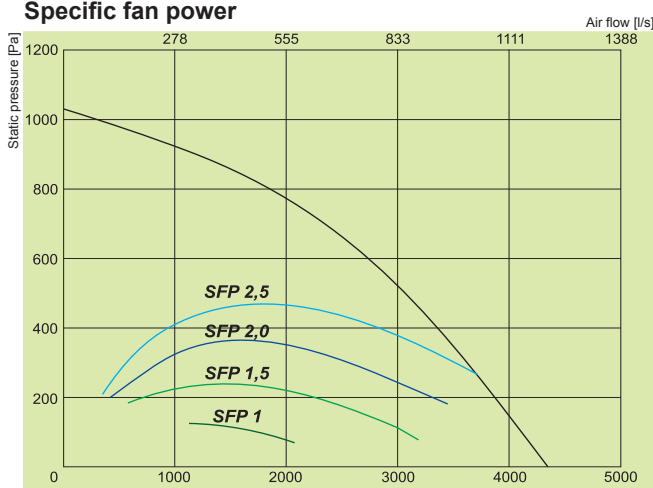
Supply air



Exhaust air

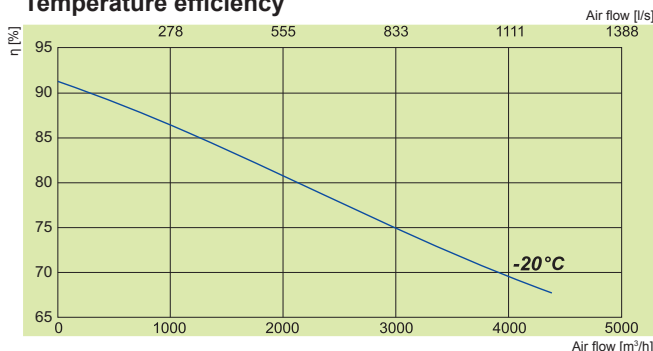


Specific fan power

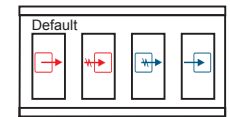


$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

Temperature efficiency



RIRS 3500VR EKO 3.0 (convertible) ver.



View from inspection side

Exhaust air Extract air Fresh air Supply air

Article No.	Version
GAGRIRS1884_0067B	3500VER EKO 3.0 Integrated electrical heater
GAGRIRS1886_0070A	3500VWR EKO 3.0 Optional water heater
GAGRIRS1897_0076B	3500VER EKO 3.0 Integrated electrical heater and 0-10 rotor
GAGRIRS1898_0077A	3500VWR EKO 3.0 Optional water heater and 0-10 rotor control

3500VE / VW EKO 3.0

Water heater (optional) VW ver.	SVS
Electrical heater VE ver. phase/voltage [50Hz/VAC]	~3, 400
	[kW]
	12
EC fans phase/voltage [50Hz/VAC]	~1, 230
exhaust power/current [kW/A]	1,35/6
	fan speed [min ⁻¹]
	2390
supply power/current [kW/A]	1,33/5,7
	fan speed [min ⁻¹]
	2390
Thermal efficiency up to*	80%
Max power consumption VE / VW [kW/A]	14,72/29,35 2,72/12,05
Control board	PRV V2.4
Filter class exhaust/supply	M5/F7
Housing insulation, mineral wool [mm]	50
Colour RAL grey	7040
Weight (net, without packing) [kg]	380,0 370,0
Comply with ERP	2015
Operation	indoors/outdoors**
Housing protection class	IP 34

* Calculated according EN 308.
** Under covered area.

3500V 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	82	60	74	75	76	75	73	68
Extract	72	58	70	66	60	57	51	43
Surrounding	64	55	58	59	57	53	49	45

Measured at 3728 m³/h, 242 Pa

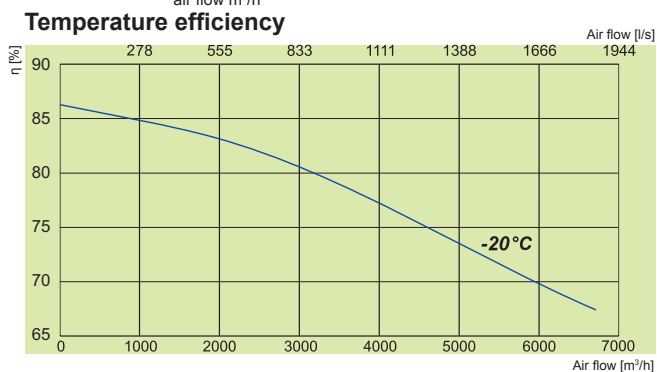
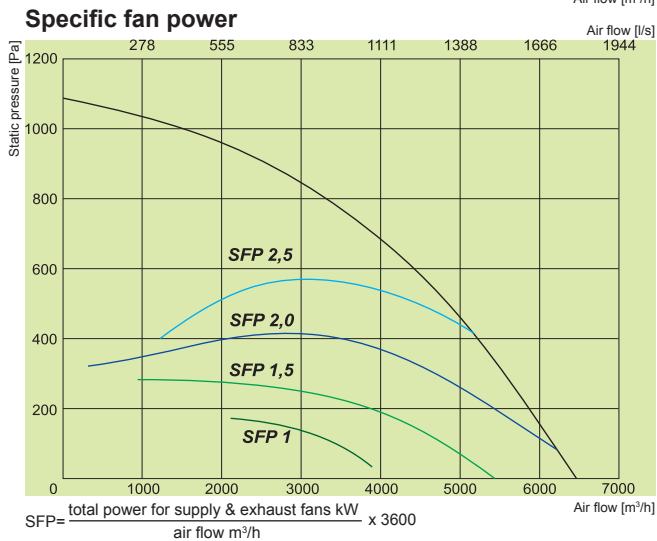
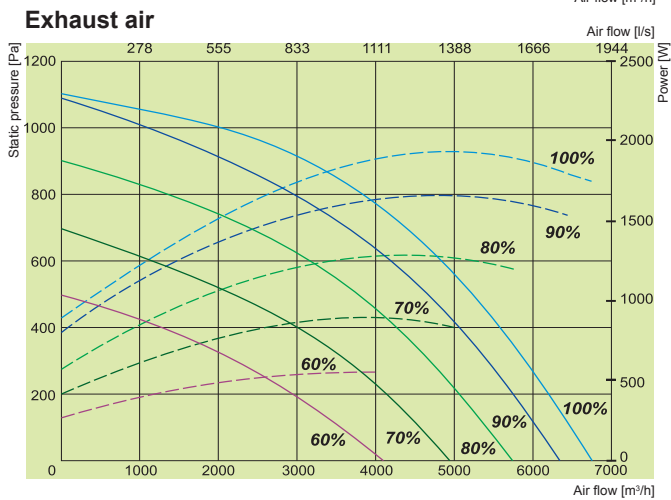
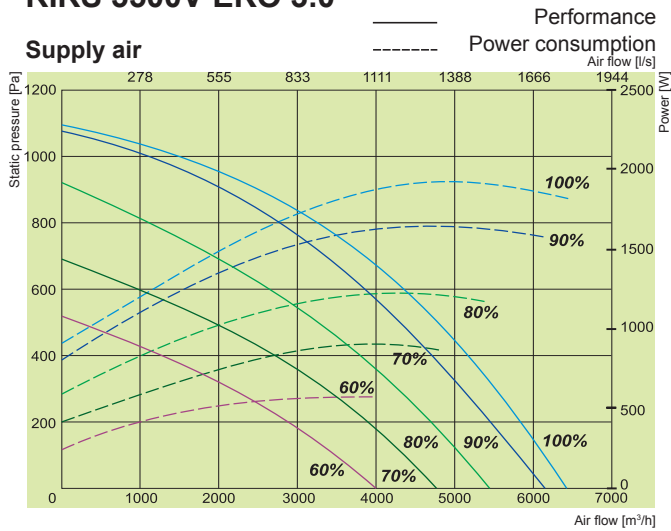
Temperature efficiency (balanced mass flow) EN 308:
Extract air = 20°C/60%RH
Outdoor air = -20°C

Certifications

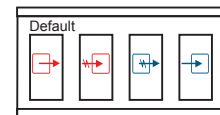
EUROVENT certified
rotor heat exchanger performance



RIRS 5500V EKO 3.0



RIRS 5500VR EKO 3.0 (convertible) ver.



View from inspection side

Exhaust air Extract air Fresh air Supply air

Article No.	Version
GAGRIRS1885_0068B	5500VER EKO 3.0 Integrated electrical heater
GAGRIRS1890_0071A	5500VWR EKO 3.0 Optional water heater

5500VE / VW EKO 3.0

Water heater (optional) VW ver.	SVS
Electrical heater VE ver. phase/voltage [50Hz/VAC]	~3, 400
	[kW]
	18
EC fans phase/voltage [50Hz/VAC]	~3, 400
exhaust power/current [kW/A]	1,9/3,1
	2180
	fan speed [min ⁻¹]
	2180
supply power/current [kW/A]	1,9/3,1
	2180
	fan speed [min ⁻¹]
	2180
Thermal efficiency up to*	80%
Max power consumption VE / VW [kW/A]	21,84/32,55
Control board	PRV V2.4
Filter class exhaust/supply	M5/F7
Housing insulation, mineral wool [mm]	50
Colour RAL grey	7040
Weight (net, without packing) [kg]	580,0
	565,0
Comply with ERP	2015
Operation	indoors/outdoors**
Housing protection class	IP 34

* Calculated according EN 308.

**Under covered area.

5500V 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	87	68	80	81	82	78	77	74
Extract	75	63	69	72	66	63	58	55
Surrounding	74	58	66	69	68	65	51	54

Measured at 5652 m³/h, 246Pa

Temperature efficiency (balanced mass flow) EN 308:
Extract air = 20°C/60%RH
Outdoor air = -20°C

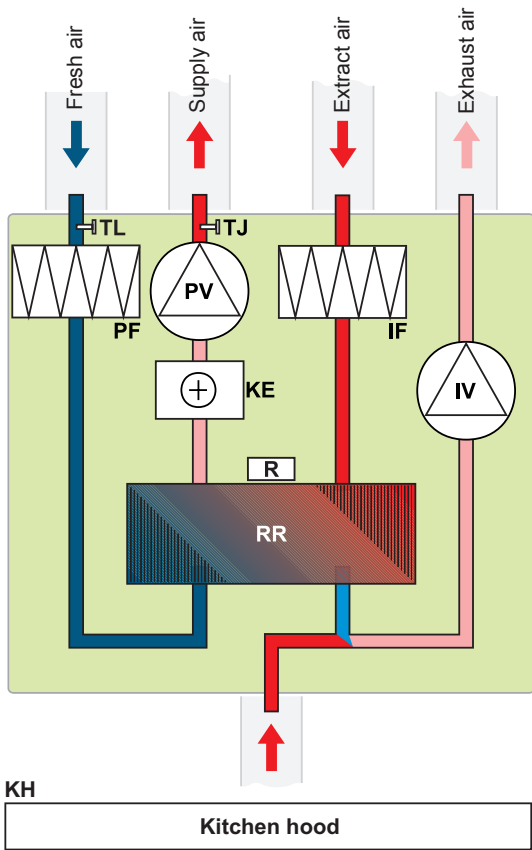
Certifications

EUROVENT certified
rotor heat exchanger performance



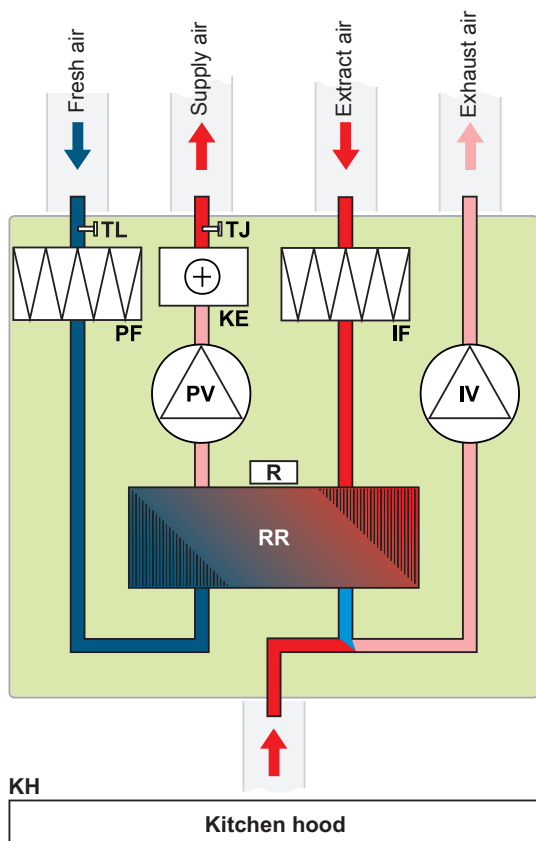
RIRS V EKO

RIRS 200VE EKO (vertical) with electrical heater



- IV - exhaust air fan
- PV - supply air fan
- RR - rotary heat exchanger
- R - motor of rotor heat exchanger
- KE - electrical heater
- PF - filter for supply air
- IF - filter for extract air
- TJ - supply air temperature sensor
- TL - fresh air temperature sensor
- KH - optionally supplied kitchen hood

RIRS 300VE EKO (vertical) with electrical heater

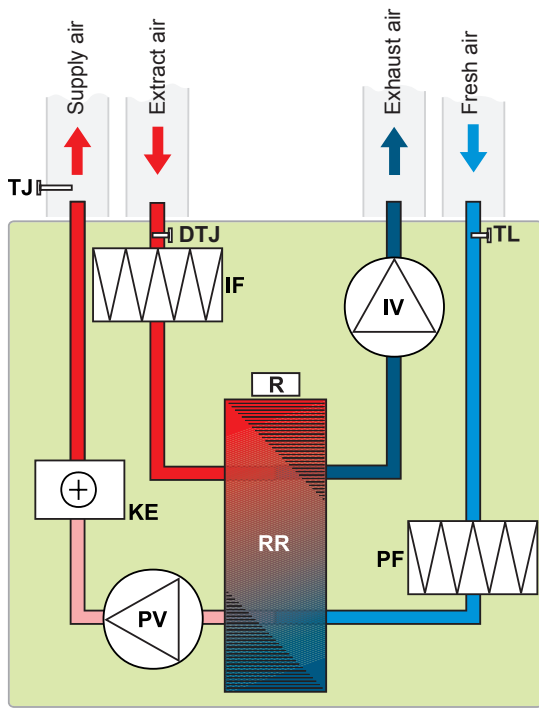


- IV - exhaust air fan
- PV - supply air fan
- RR - rotary heat exchanger
- R - rotor motor
- KE - electrical heater
- PF - fresh air filter (class M5)
- IF - extract air filter (class M5)
- TJ - temperature sensor for supply air
- TL - temperature sensor for fresh air
- KH - optionally supplied kitchen hood

SALDA

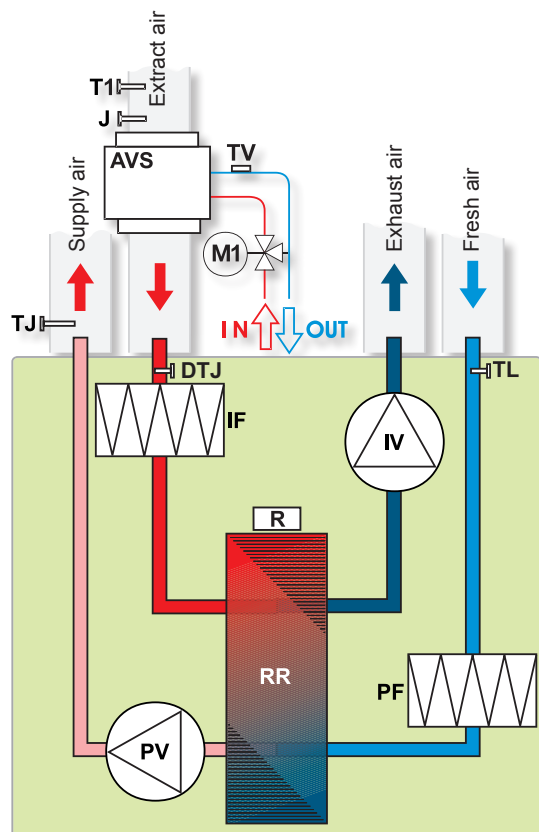
AIR HANDLING UNITS

RIRS 400VE EKO 3.0 (vertical) 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

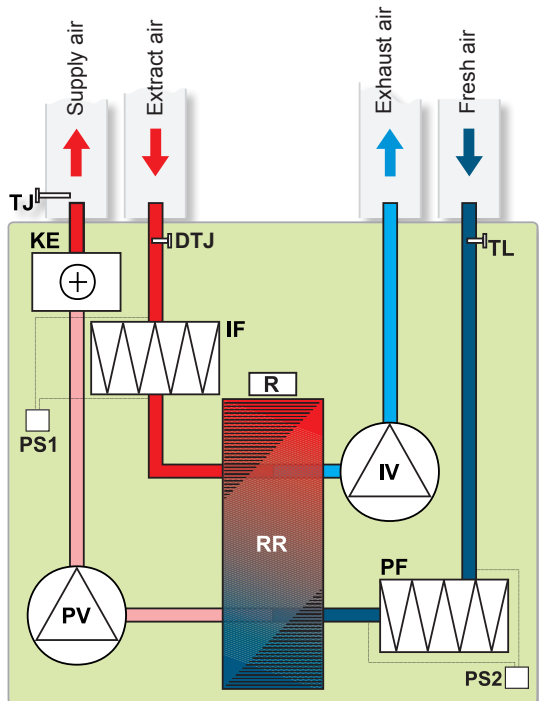
RIRS 400VW EKO 3.0 (vertical) with water heater



- AVS - optionally supplied water heater
- IV - exhaust air fan
- PV - supplied air fan
- RR - rotary heat exchanger
- R - rotor motor
- PF - fresh air filter (class F7)
- IF - extract air filter (class M5)
- TJ - supply air temperature sensor
- TL - fresh air temperature sensor
- M1 - optionally supplied mixing valve and motor
- T1 - antifrost thermostat
- TV - antifrost sensor

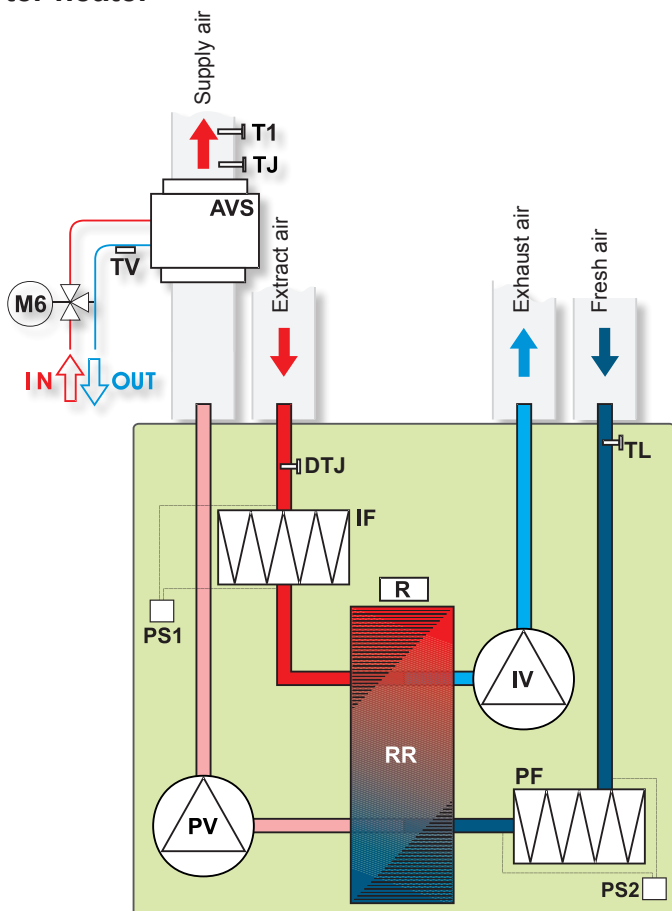
RIRS V EKO

RIRS 700VE EKO 3.0; 1200VE EKO 3.0; 1900VE EKO 3.0 (vertical) versions with electrical heater



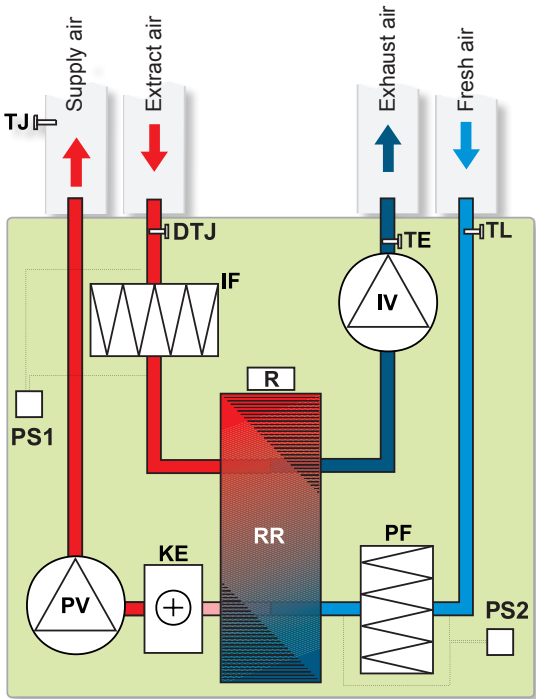
- PS1** - supply air differential pressure switch (RIRS 1200 - 1900 VE EKO 3.0)
- PS2** - extract air differential pressure switch (RIRS 1200 - 1900 VE EKO 3.0)
- DTJ** - humidity + temperature sensor
- IV** - exhaust air fan
- PV** - supplied air fan
- RR** - rotary heat exchanger
- R** - rotor motor
- 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

RIRS 700VW EKO 3.0; 1200VW EKO 3.0; 1900VW EKO 3.0 (vertical) versions with water heater



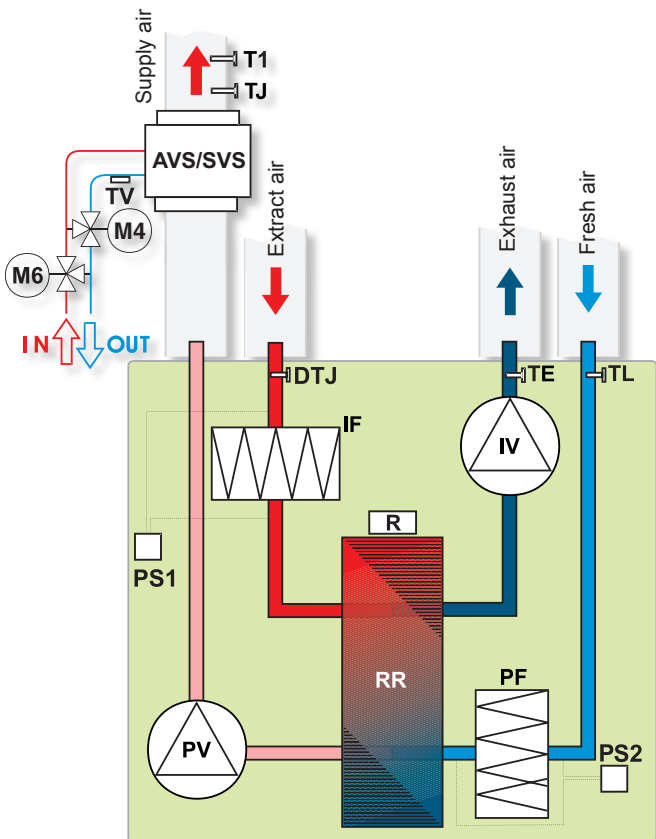
- PS1** - supply air differential pressure switch (RIRS 1200 - 1900 VW EKO 3.0)
- PS2** - extract air differential pressure switch (RIRS 1200 - 1900 VW EKO 3.0)
- AVS** - optionally supplied water heater
- DTJ** - humidity + temperature sensor
- IV** - exhaust air fan
- PV** - supplied air fan
- RR** - rotary heat exchanger
- R** - rotor motor
- PF** - fresh air filter (class F7)
- IF** - extract air filter (class M5)
- TJ** - air temperature sensor
- TL** - air temperature sensor
- M6** - optionally supplied mixing valve and motor
- T1** - supplied antifrost thermostat
- TV** - supplied antifrost sensor

RIRS 2500VE EKO 3.0; RIRS 3500VE EKO 3.0; RIRS 5500VE EKO 3.0 (vertical) with electrical heater



- PS1 - supply air differential pressure switch
- PS2 - extract air differential pressure switch
- DTJ - humidity + temperature sensor for extract air
- IV - exhaust air fan
- PV - supply air fan
- RR - rotary heat exchanger
- R - rotor motor
- KE1 - 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

RIRS 2500VW EKO 3.0; RIRS 3500VW EKO 3.0; RIRS 5500VW EKO 3.0 (vertical) with optional water heater



- AVS/SVS - optionally supplied water heater
- PS1 - supply air differential pressure switch
- PS2 - extract air differential pressure switch
- DTJ - humidity + temperature sensor
- IV - exhaust air fan
- PV - supplied 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
- TL - air temperature sensor
- TE - temperature sensor for exhaust air
- M6 - optionally supplied mixing valve and motor
- M4 - water heater circulator pump
- T1 - supplied antifrost thermostat
- TV - supplied antifrost sensor