RIS P EKO

NEW!

AHU with heat recovery

Centrales de traitement d'air
avec récupération de chaleur

Lüftungsgeräte mit wärmerückgewinnung

AHU med varmegenvinding

Air handling units RIS P EKO 3.0 are equipped with high efficiency cross - counter flow heat exchanger and EC motors. AHU range is used for ventilation of houses, offices or other heated premises: classrooms, apartments, conference rooms and other.

- Extremely low height!
- Energy saving and low noise EC fans compliant with ErP directive 2009/125/EC.
- Efficiency of heat exchanger up to 94%.
- Integrated electrical heater or optional water heater/cooler on the duct.
- Efficient and low pressure loss panel filters F7/M5.
- Designed for installation under the ceiling.
- Full integrated Plug&Play control system.
- Frameless construction from double skinned panels.
- Easy removable or plug in electrical heater (Plug&Play).
- Access to internal components by hinged door with locks (removable doors also).
- Quick and easy access to control board and plug&play by opening separate compartment on the side of the unit.
- Stainless steel condensate tray.
- Fitted with mounting brackets.
- Easy and quick installation.
- Ceiling mounted, supplied with rubber gaskets – vibration absorbers.
- Unit designed for indoor installation only.

Les centrales de traitement d'air RIS P EKO 3.0 sont équipées d'un échangeur haut rendement à contre-courant à plaques. Ces centrales de traitement d'air avec la récupération de chaleurs sont utilisées pour la ventilation des locaux chauffés.

- Moteurs EC silencieux basse consommation.
- Echangeur statique haut rendement à contre-courant à plaques en aluminium ayant un rendement jusqu'à 94%.
- By-pass avec moteur de registre propotionnel (RIS 400 – 2500 P EKO 3.0). Faible niveau sonore.
- Pré équipement « Plug and play » et platine de régulation entièrement intégrée.
- Pressostat d'encrassement des filtres intégré (RIS 1200 – 2500 P EKO 3.0).
- Possibilité de connecter les convertisseurs de pression ou de CO2.
- Faible hauteur!

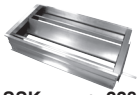
Lüftungsgeräte RIS P KO mit hocheffizientem Gegenstromwärmetauscher. WRG sind für Lüftung von Häusern und anderen beheizten. Räumen bestimmt.

- Energiesparend und sparsame EC - Ventilatoren.
- Wirkungsgrad von Wärmetauscher bis zu 94%.
- Eingebautes Elektroheizregister (für RIS 400 – 2500 P EKO 3.0) oder optional Warmwasserheizregister/Küller.
- Eingebautes Elektroheizregister 0-10V.
- Controlled air flow.
- Regelbarer Lufstrom.
- Regelung nach Zulufttemparatur.
- Motorisierte Bypass-Klappe (für RIS 400 – 2500 P EKO 3.0).
- Frostschutz von Wärmetauscher (für RIS 400 – 2500 P EKO 3.0).
- Niedriges Geräuscheniveau.
- Schall- und Wärmedämmung: RIS 150 P EKO - 20mm, RIS 400 - 2500 P EKO 3.0 – 30/50mm.
- Alle RIS 400 – 2500 P EKO 3.0 werden mittels Fernbedienung Flex, Stouch gesteuert.
- Leicht montierbar.
- RIS 400 – 2500 P EKO 3.0 - als plug&play Ausführung.
- Eingebaute Druckdiferenzschalter für Filterüberwachung (RIS 1200 – 2500 P EKO 3.0).
- Optional CO_2-, Druck- oder Luftstromfühler (RIS 400 – 2500 P EKO 3.0).
- Extrem niedrige Bauhöhe!

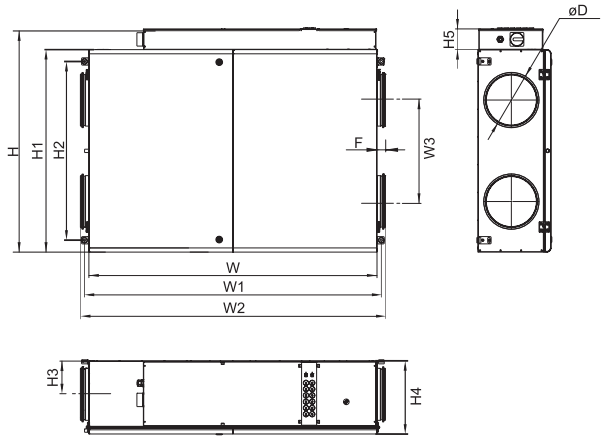
AHU med modstrømsveksler. Ventilationsaggregatet RIS P EKO 3.0 her en særdeles effektiv modstrømsvarmeveksler. AHU anvendes til ventilation af huse og andre opvarmede områder.

- Energibesparende, støjsvage EC-ventilatorer. ErP direktiv 2009/125EC.
- Virkningsgrad op til 94%.
- Integreret el-varmeflade eller valgfri vand varme-/køle flade til kanal.
- Regulerbar luftmængde.
- Regulerbar indblæsnings-temperatur.
- Effektiv og med lav tryktab, panel filter F7/M5
- Let udtagelig eller isætning af elektrisk varmeflade
- Hurtig adgang til automatik.
- Rammeløs konstruktion med dobbelte paneler.
- Nem og hurtig montering.
- Rustfri drypbakke
- Integreret "plug & play" automatik, som sidder på siden af anlæg
- Meget lav indbygningshøjde.
- Indendørs montage til under loft, med vibrationsdæmper

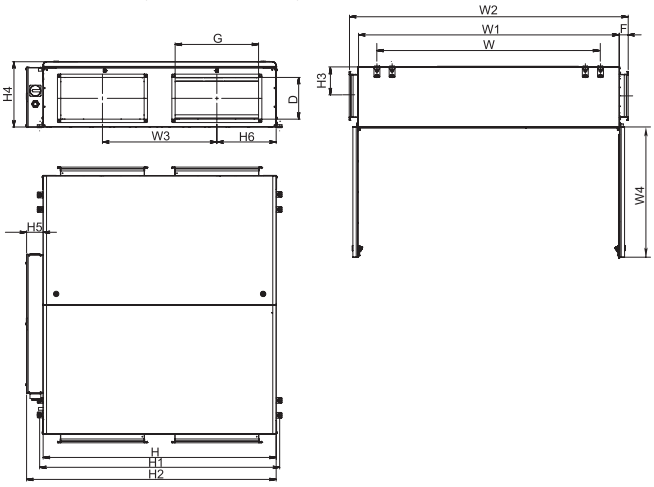
Accessories

Control panel	Sensor controller	Pressure transmitter	CO2 sensor	Duct humidity sensor	Actuator for dampers	Water heater coil	Damper for rectangular duct
							
Flex p. 178	**Stouch** p. 179	**S-1141** p. 181	**S-RC02-F2** p. 182	**S-KFF-U** p. 183	**SP** p. 188	**SVS** p. 198	**SSK** p. 228

RIS 150P EKO - RIS 700P EKO 3.0



RIS 1200P EKO 3.0, RIS 1900P EKO 3.0, RIS 2500P EKO 3.0



RIS 400 P E 0.9 EKO 3.0

- RIS — Equipped with new PRV V2.2 control board
- 400 — AHU with EC motors and efficient cross - counter flow heat exchanger
- P — Electrical heater power in kW
- E — Heater type (E - integrated electrical heater; W - optional water heater)
- 0.9 — Housing type (V - vertical, H - horozontal, P - under - ceiling)
- EKO — AHU size according to air flow range m³/h
- 3.0 — AHU with plate heat-exchanger

Type	Dimensions [mm]														
	W	W1	W2	W3	H	H1	H2	H3	H4	H5	H6	F	øD	G	D
RIS 150P EKO	850	604	911	240	548	500	548	122	263	48	-	31	160	-	-
RIS 400PE/PW EKO 3.0	1300	1014	1361	304	768	670	712	148	330	100	-	31	200		
RIS 700PE/PW EKO 3.0	1380	1422	1461	487	1074	970	857	160	350	104	-	40	250	-	-
RIS 1200PE/PW EKO 3.0	1550	1320	1655	685	1400	1440	1500	175	390	100	-	52	-	500	250
RIS 1900PE/PW EKO 3.0	1710	1750	1870	861	1850	1892	1955	194	399	105	495	60	-	700	300
RIS 2500PE/PW EKO 3.0	1810	1850	1970	961	1950	1992	2055	244	499	105	-	60	-	700	400

Type	Accessories											
	Flex Stouch	S-1141 S-RC02-F2 KFF-U	SSB Heating	Supply SP	Exhaust SP	SVS	SSK	SKS	RMG	VVP/ VXP	SKG AKS AP	AVS AVA EKA
RIS 150P EKO	-	-	-	-	-	-	-	-	-	-	160	160
RIS 400PE EKO 3.0	+	+	-	LM230A-TP	LM230A-TP	-	-	-	-	-	200	200
RIS 400PW EKO 3.0	+	+	61	NF230A	LM230A-TP	-	-	-	+	+	200	200
RIS 700PE EKO 3.0	+	+	-	LM230A-TP	LM230A-TP	-	-	-	-	-	250	250
RIS 700PW EKO 3.0	+	+	61	NF230A	LM230A-TP	-	-	-	+	+	250	250
RIS 1200PE EKO 3.0	+	+	-	LM230A-TP	LM230A-TP	-	500x250	500x250	-	-	-	-
RIS 1200PW EKO 3.0	+	+	61	NF230A	LM230A-TP	500x250	500x250	500x250	+	+	-	-
RIS 1900PE EKO 3.0	+	+	-	LM230A-TP	LM230A-TP	-	700x400*	700x400*	-	-	-	-
RIS 1900PW EKO 3.0	+	+	61	NF230A	LM230A-TP	700x400*	700x400*	700x400*	+	+	-	-
RIS 2500PE EKO 3.0	+	+	-	LM230A-TP	LM230A-TP	-	700x400	700x400	-	-	-	-
RIS 2500PW EKO 3.0	+	+	61	NF230A	LM230A-TP	700x400	700x400	700x400	+	+	-	-

*necessary to order reducer STP 700x400-700x300

Accessories

Rectangular duct silencer — SKS p. 233

Shut-off damper — SKG p. 226

Circular duct silencer — AKS p. 230

Mounting clips — AP p. 229

Heating coil — AVS p. 192

Circular duct water cooler — AVA p. 202

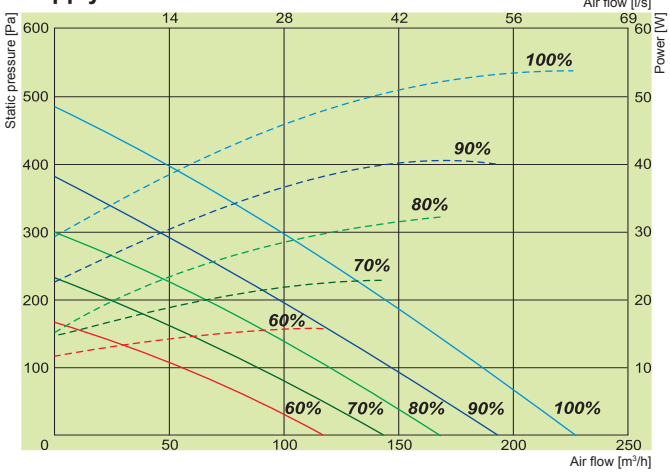
Flange adapter — STP p. 234

RIS P EKO

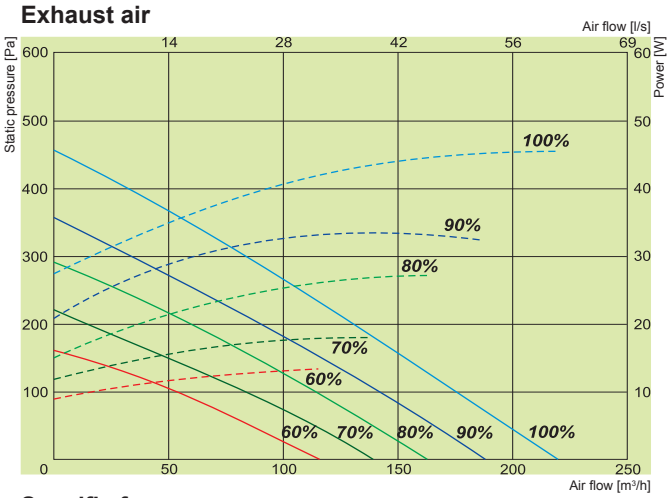
RIS 150P EKO

Performance
Power consumption

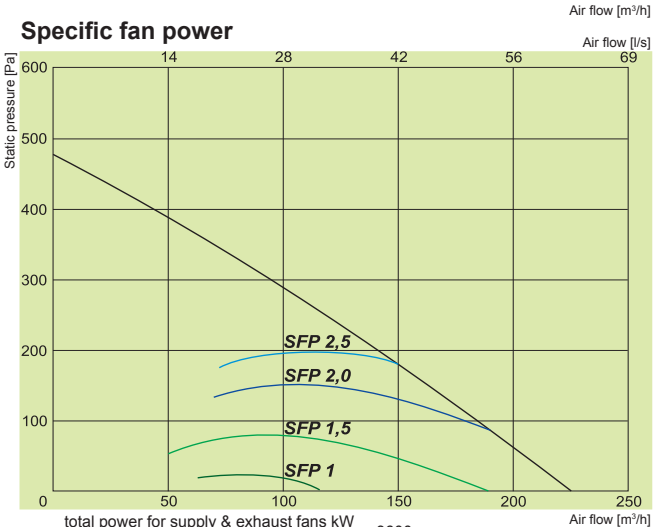
Supply air



Exhaust air



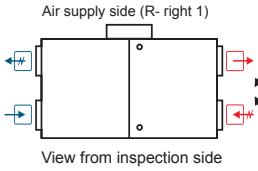
Specific fan power



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

Temperature efficiency

RIS 150P EKO
Air supply side (R- right 1)



View from inspection side

RIS 150P EKO
Air supply side (R- right 2)

View from inspection side

Exhaust air | Extract air | Fresh air | Supply air

Article No.		Version
GRERIS240	150P EKO	Optional controls and heater.

			150P EKO
Fans	phase/voltage	[50Hz/VAC]	~1, 230
exhaust	power/current	[kW/A]	0,055/0,52
	fan speed	[min⁻¹]	4480
supply	power/current	[kW/A]	0,055/0,52
	fan speed	[min⁻¹]	4480
Thermal efficiency up to*			90%
Motorized by-pass			-
Max power consumption		[kW/A]	0,11/1,04
Control board			-
Filter class	exhaust/supply		M5/F7
Housing insulation, mineral wool		[mm]	20
Colour	RAL	white	9016
Weight (net, without packing)		[kg]	33
Comply with ERP			2015
Operation			indoors
Fresh air temperature limits**		°C	-5 - +40
Housing protection class	IP		34

* Calculated according EN 13141-7.
**For temperatures lower than recommended use electrical pre-heater to ensure balanced operation.

150P EKO	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	62	50	54	58	55	52	48	43
Extract	54	42	48	50	47	38	27	22
Surrounding	43	33	36	39	37	33	26	23
Measured at 203 m³/h, 59 Pa								

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

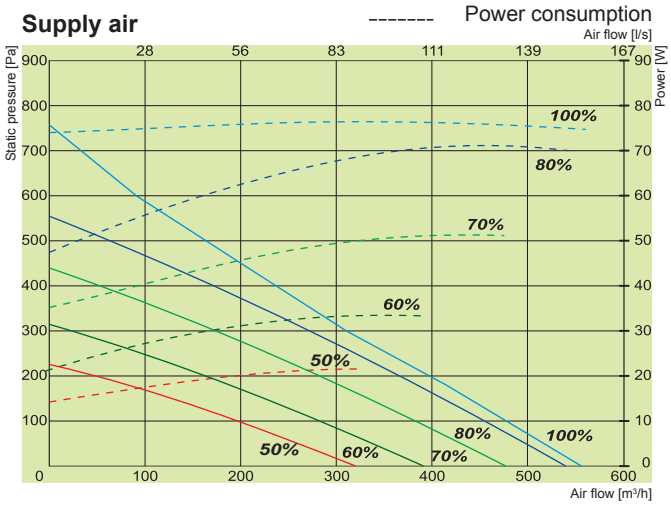
Certifications

EUROVENT certified counter flow heat exchanger performance

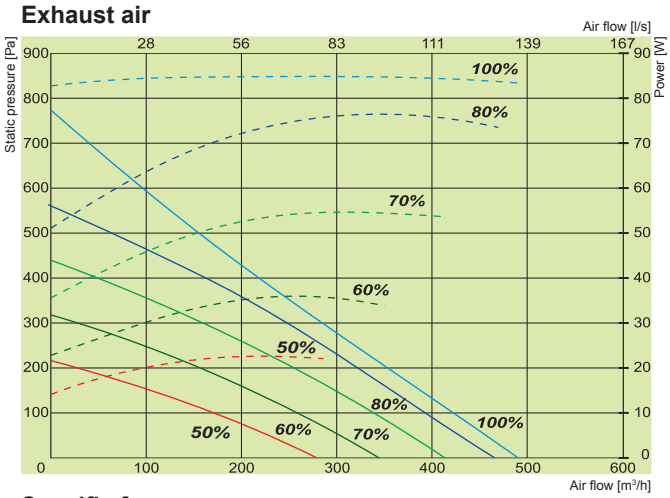
RIS 400PE EKO 3.0

Performance
Power consumption

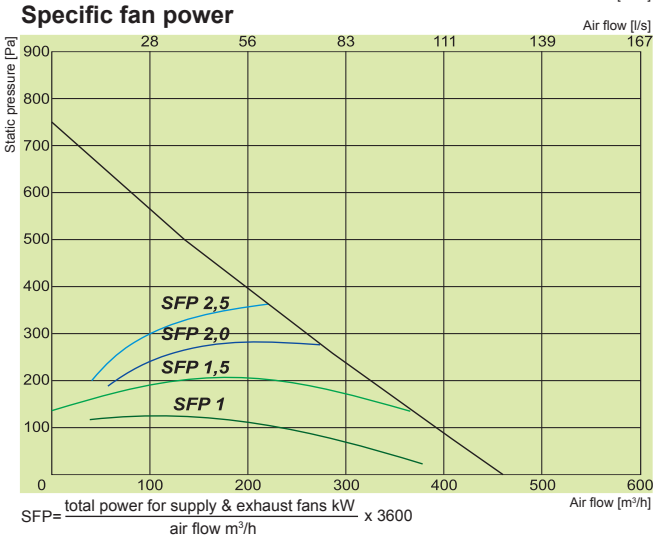
Supply air



Exhaust air



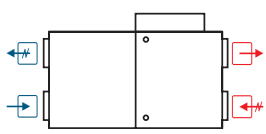
Specific fan power



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

Temperature efficiency

RIS 400PE EKO 3.0



View from inspection side

Exhaust air | Extract air | Fresh air | Supply air

Article No.		Version
GAGRIS1747_0017A	400PE 0.9 EKO 3.0	Integrated electrical heater.
GAGRIS1746_0017A	400PE 1.6 EKO 3.0	Integrated electrical heater.
GAGRIS1692_0016A	400PE 3.0 EKO 3.0	Integrated electrical heater.

			0.9 EKO 3.0	1.6 EKO 3.0	3.0 EKO 3.0
Electrical heater	phase/voltage	[50Hz/VAC]	~1, 230	~1, 230	~1, 230
		[kW]	0,9	1,6	3,0
EC fans	phase/voltage	[50Hz/VAC]		~1, 230	
exhaust	power/current	[kW/A]		0,085/0,73	
	fan speed	[min⁻¹]		3200	
supply	power/current	[kW/A]		0,085/0,73	
	fan speed	[min⁻¹]		3200	
Thermal efficiency up to*				90%	
Motorized by-pass				+	
Max power consumption		[kW/A]	1,07/5,50	1,77/8,50	3,17/14,50
Control board				PRV V2.2	
Filter class	exhaust/supply			M5/F7	
Housing insulation, mineral wool		[mm]		30	
Colour	RAL	white		9016	
Weight (net, without packing)		[kg]		74	
Comply with ERP				2015	
Operation				indoors	
Fresh air temperature limits**		°C		-5 - +40	
Housing protection class	IP			34	

* Calculated according EN 13141-7.
**For temperatures lower than recommended use electrical pre-heater to ensure balanced operation.

RIS 400PE 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	67	54	59	64	58	57	54	47
Extract	58	48	50	53	51	48	46	41
Surrounding	51	40	43	46	45	40	39	36
Measured at 443 m³/h, 100 Pa								

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

Certifications

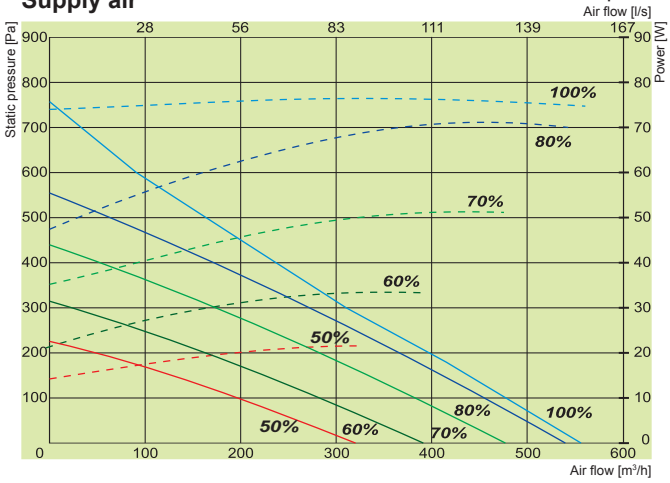
EUROVENT certified counter flow heat exchanger performance

RIS P EKO

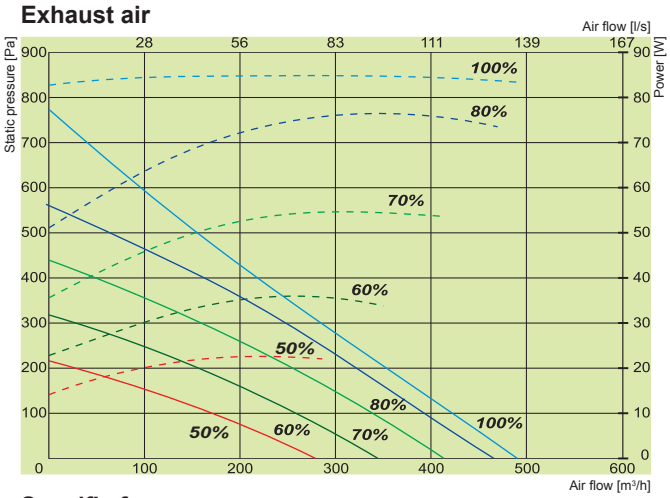
RIS 400PW EKO 3.0

Performance
Power consumption

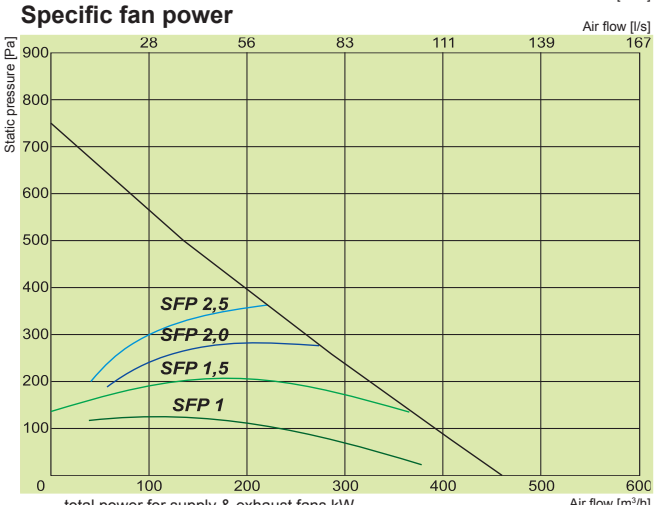
Supply air



Exhaust air

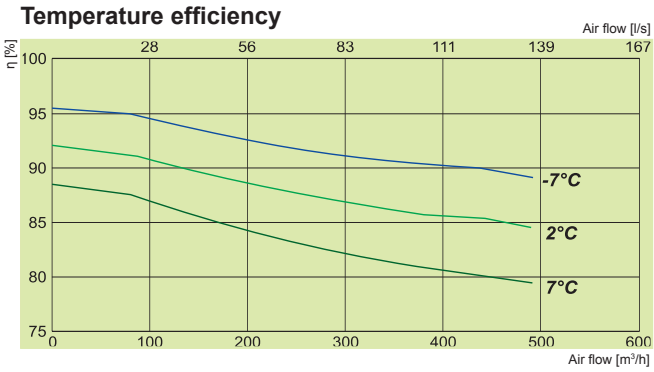


Specific fan power

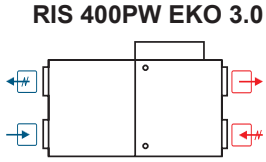


$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

Temperature efficiency



RIS 400PW EKO 3.0



View from inspection side

Exhaust air | Extract air | Fresh air | Supply air

Article No.	Version	
GAGRIS1748_0019A	400PW EKO 3.0	Optional water heater.

			400PW EKO 3.0
Water heater (optional)	phase/voltage	[50Hz/VAC]	AVS 200
	power consumption	[kW]	
Fans	phase/voltage	[50Hz/VAC]	~1, 230
exhaust	power/current	[kW/A]	0,085/0,73
	fan speed	[min⁻¹]	3200
supply	power/current	[kW/A]	0,085/0,73
	fan speed	[min⁻¹]	3490
Thermal efficiency up to*			90%
Motorized by-pass			+
Max power consumption		[kW/A]	0,17/1,50
Control board			PRV V2.2
Filter class	exhaust/supply		M5/F7
Housing insulation, mineral wool		[mm]	30
Colour	RAL	white	9016
Weight (net, without packing)		[kg]	73
Comply with ERP			2015
Operation			indoors
Fresh air temperature limits**		°C	-5 - +40
Housing protection class	IP		34

* Calculated according EN 13141-7.
**For temperatures lower than recommended use electrical pre-heater to ensure balanced operation.

RIS 400PW 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	67	54	59	64	58	57	54	47
Extract	58	48	50	53	51	48	46	41
Surrounding	51	40	43	46	45	40	39	36
Measured at 443 m³/h, 100 Pa								

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

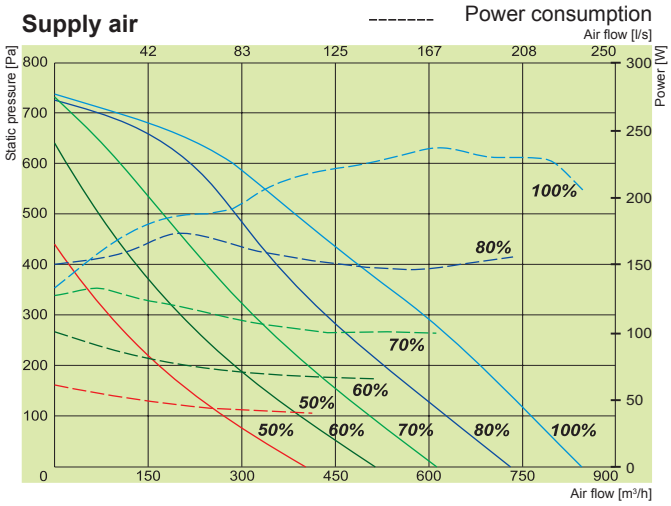
Certifications

EUROVENT certified counter flow heat exchanger performance

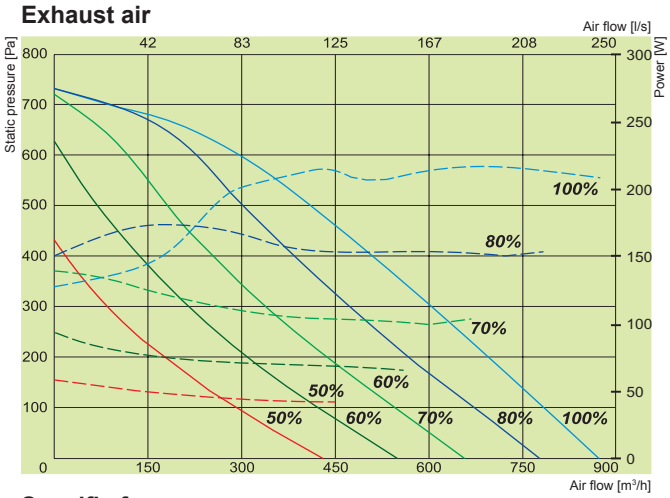
RIS 700PE EKO 3.0

Performance
Power consumption

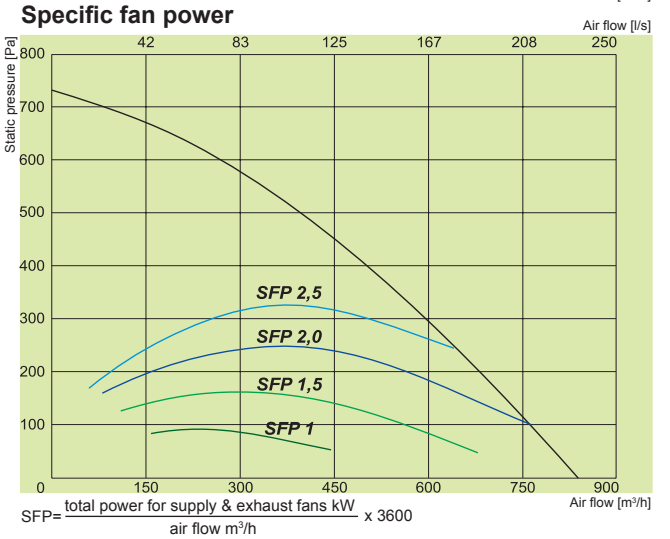
Supply air



Exhaust air

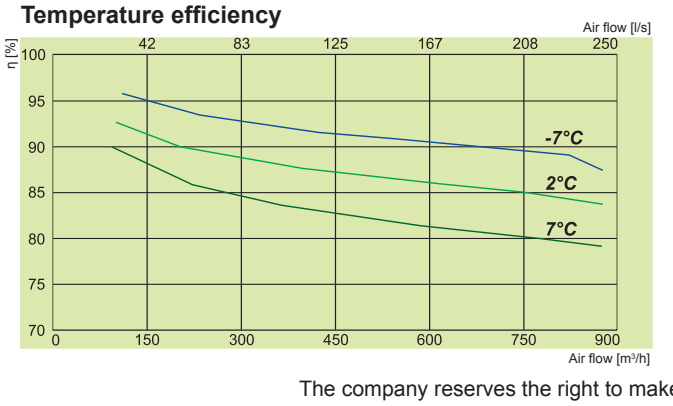


Specific fan power

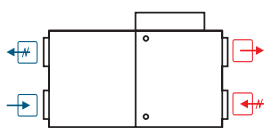


$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

Temperature efficiency



RIS 700PE EKO 3.0



View from inspection side

Exhaust air | Extract air | Fresh air | Supply air

Article No.		Version
GAGRIS1737_0008A	700PE 1.2 EKO 3.0	Integrated electrical heater.
GAGRIS1736_0007A	700PE 3.0 EKO 3.0	Integrated electrical heater.
GAGRIS1693_0005B	700PE 4.5 EKO 3.0	Integrated electrical heater.

			1.2 EKO 3.0	3.0 EKO 3.0	4.5 EKO 3.0
Electrical heater	phase/voltage	[50Hz/VAC]	~1, 230	~1, 230	~3, 400
		[kW]	1,2	3,0	4,5
EC fans	phase/voltage	[50Hz/VAC]		~1, 230	
exhaust	power/current	[kW/A]		0,218/1,9	
	fan speed	[min⁻¹]		3380	
supply	power/current	[kW/A]		0,237/2,07	
	fan speed	[min⁻¹]		3380	
Thermal efficiency up to*				90%	
Motorized by-pass				+	
Max power consumption		[kW/A]	1,66/9,51	3,46 /17,01	4,96 /10,51
Control board				PRV V2.2	
Filter class	exhaust/supply			M5/F7	
Housing insulation, mineral wool		[mm]		30	
Colour	RAL	white		9016	
Weight (net, without packing)		[kg]		106	
Comply with ERP				2015	
Operation				indoors	
Fresh air temperature limits**		°C		-5 - +40	
Housing protection class	IP			34	

* Calculated according EN 13141-7.
**For temperatures lower than recommended use electrical pre-heater to ensure balanced operation.

RIS 700PE 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	75	64	66	68	70	66	60	59
Extract	62	53	55	57	56	52	49	45
Surrounding	56	45	47	50	50	47	43	42
Measured at 764 m³/h, 100 Pa								

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

Certifications

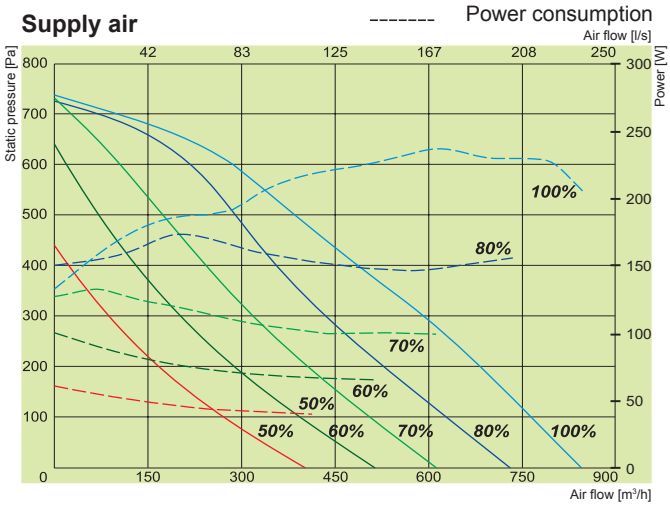
EUROVENT certified counter flow heat exchanger performance

RIS P EKO

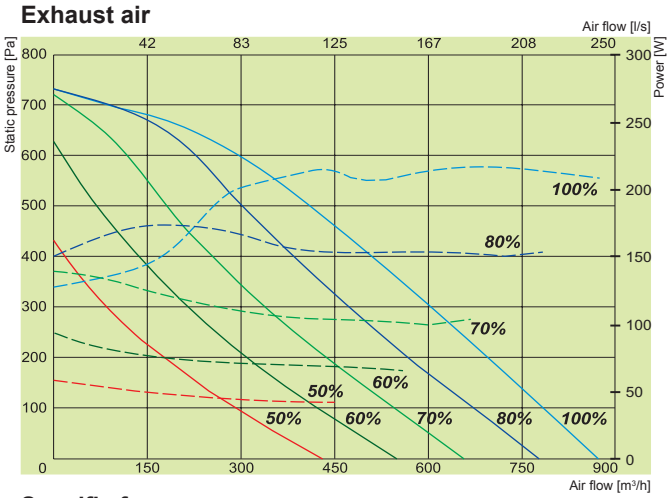
RIS 700PW EKO 3.0

Performance
Power consumption

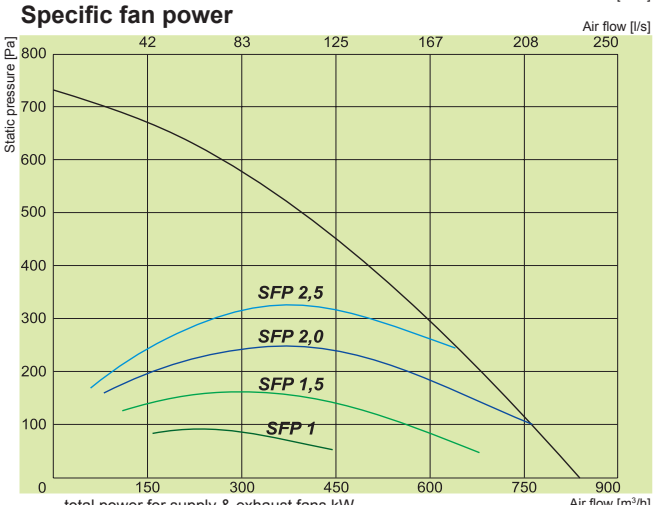
Supply air



Exhaust air



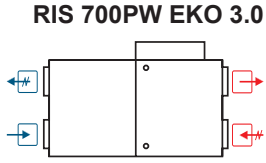
Specific fan power



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

Temperature efficiency

RIS 700PW EKO 3.0



View from inspection side

Exhaust air | Extract air | Fresh air | Supply air

Article No.	Version	
GAGRIS1738_0009A	700PW EKO 3.0	Optional water heater.

			700PW EKO 3.0
Water heater (optional)	phase/voltage	[50Hz/VAC]	AVS 250
	power consumption	[kW]	
Fans	phase/voltage	[50Hz/VAC]	~1, 230
exhaust	power/current	[kW/A]	0,218/1,9
	fan speed	[min⁻¹]	3380
supply	power/current	[kW/A]	0,237/2,07
	fan speed	[min⁻¹]	3380
Thermal efficiency up to*			90%
Motorized by-pass			+
Max power consumption		[kW/A]	0,46 /4,01
Control board			PRV V2.2
Filter class	exhaust/supply		M5/F7
Housing insulation, mineral wool		[mm]	30
Colour	RAL	white	9016
Weight (net, without packing)		[kg]	106
Comply with ERP			2015
Operation			indoors
Fresh air temperature limits**		°C	-5 - +40
Housing protection class	IP		34

* Calculated according EN 13141-7.
**For temperatures lower than recommended use electrical pre-heater to ensure balanced operation.

RIS 700PW 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	75	64	66	68	70	66	60	59
Extract	62	53	55	57	56	52	49	45
Surrounding	56	45	47	50	50	47	43	42
Measured at 764 m³/h, 100 Pa								

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

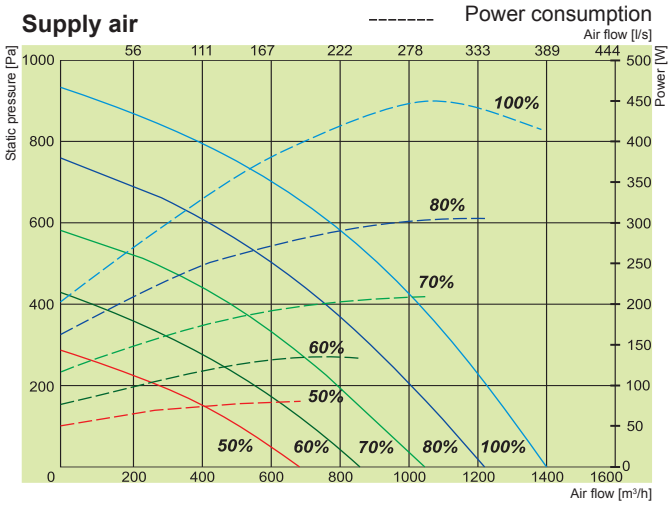
Certifications

EUROVENT certified counter flow heat exchanger performance

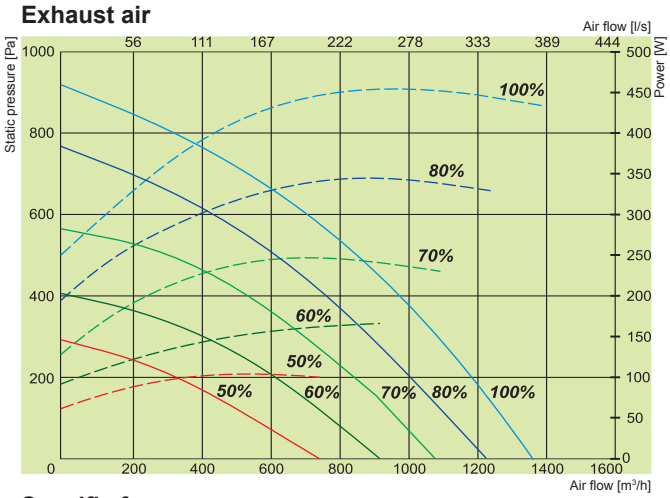
RIS 1200PE EKO 3.0

Performance
Power consumption

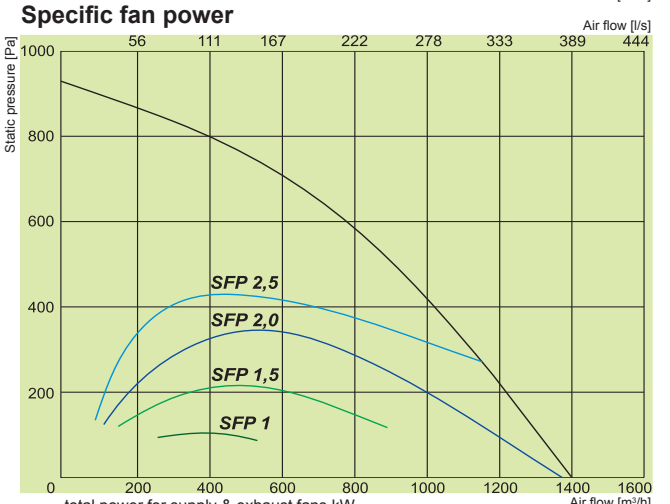
Supply air



Exhaust air

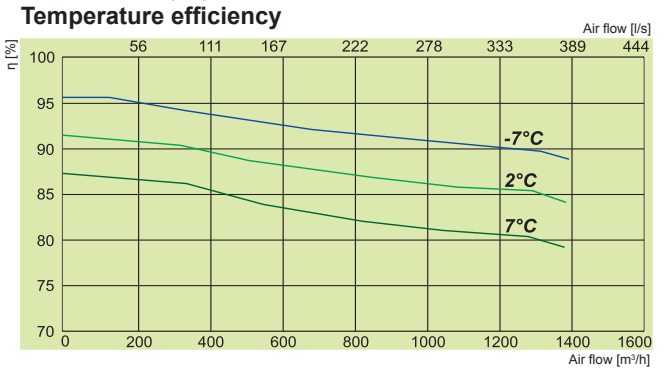


Specific fan power

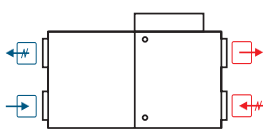


$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

Temperature efficiency



RIS 1200PE EKO 3.0



View from inspection side

Exhaust air | Extract air | Fresh air | Supply air

Article No.		Version
GAGRIS1744_0022A	1200PE 3.0 EKO 3.0	Integrated electrical heater.
GAGRIS1745_0021B	1200PE 6.0 EKO 3.0	Integrated electrical heater.
GAGRIS1701_0020B	1200PE 9.0 EKO 3.0	Integrated electrical heater.

			3.0 EKO 3.0	6.0 EKO 3.0	9.0 EKO 3.0
Electrical heater	phase/voltage	[50Hz/VAC]	~1, 230	~3, 400	~3, 400
		[kW]	3,0	6,0	9,0
EC fans	phase/voltage	[50Hz/VAC]		~1, 230	
exhaust	power/current	[kW/A]		0,37/2,5	
	fan speed	[min⁻¹]		3400	
supply	power/current	[kW/A]		0,45/2,95	
	fan speed	[min⁻¹]		3400	
Thermal efficiency up to*				90%	
Motorized by-pass				+	
Max power consumption		[kW/A]	3,82/18,49	6,82/14,49	9,82/18,49
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]		170	
Comply with ERP				2015	
Operation				indoors	
Fresh air temperature limits**		°C		-5 - +40	
Housing protection class	IP			34	

* Calculated according EN 13141-7.
**For temperatures lower than recommended use electrical pre-heater to ensure balanced operation.

RIS 1200PE 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	58	69	71	69	67	64	56
Extract	64	52	56	61	56	50	45	42
Surrounding	56	42	48	50	49	48	46	40
Measured at 1298 m³/h, 100 Pa								

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

Certifications

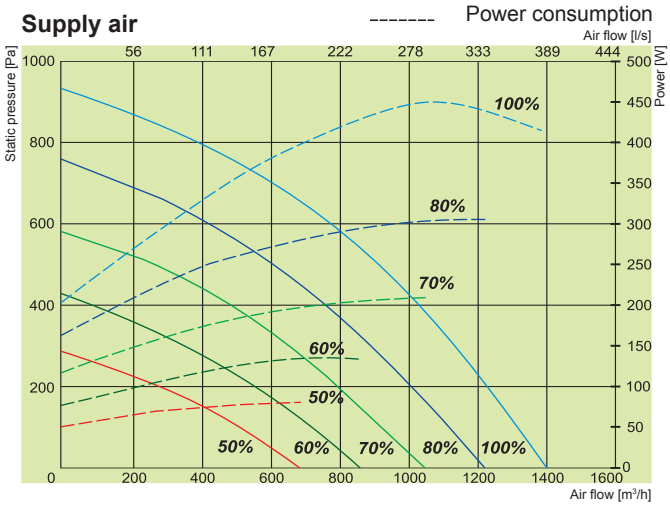
EUROVENT certified counter flow heat exchanger performance

RIS P EKO

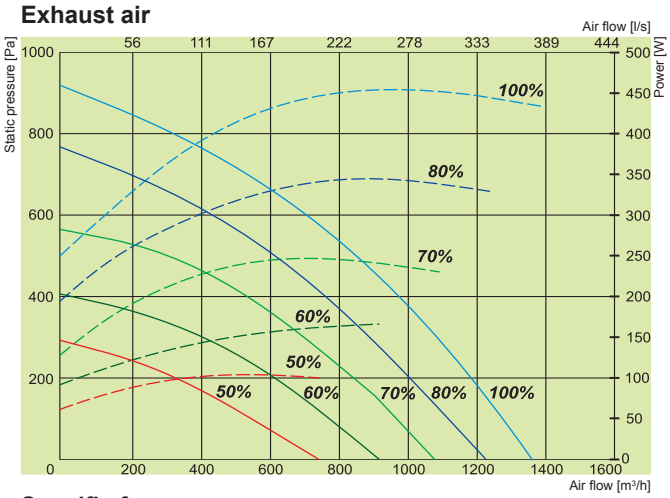
RIS 1200PW EKO 3.0

Performance
Power consumption

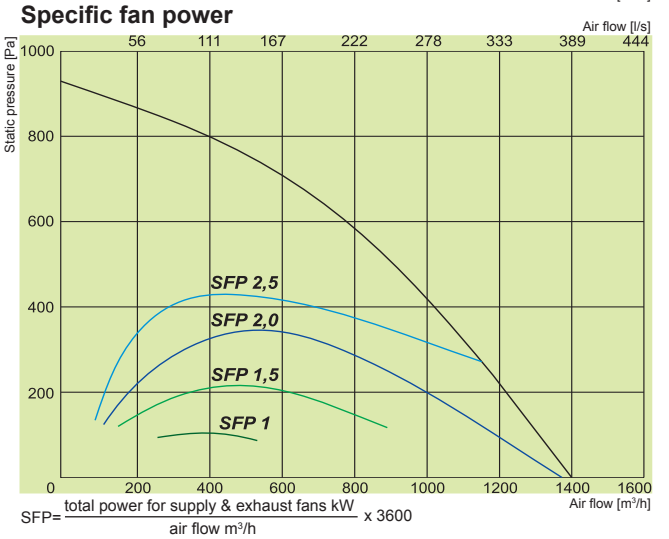
Supply air



Exhaust air

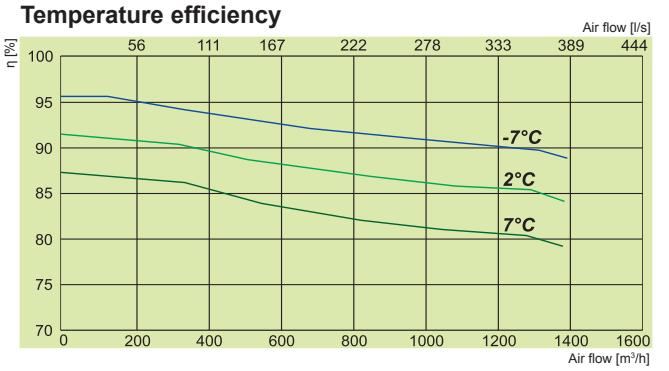


Specific fan power

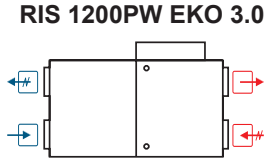


$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

Temperature efficiency



RIS 1200PW EKO 3.0



View from inspection side

Exhaust air | Extract air | Fresh air | Supply air

Article No.	Version	
GAGRIS1721_0023A	1200PW EKO 3.0	Optional water heater.

			1200PW EKO 3.0
Water heater (optional)	phase/voltage	[50Hz/VAC]	SVS 500x250
	power consumption	[kW]	
Fans	phase/voltage	[50Hz/VAC]	~1, 230
exhaust	power/current	[kW/A]	0,37/2,5
	fan speed	[min⁻¹]	3400
supply	power/current	[kW/A]	0,45/2,95
	fan speed	[min⁻¹]	3400
Thermal efficiency up to*			90%
Motorized by-pass			+
Max power consumption		[kW/A]	0,82/5,49
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]	170
Comply with ERP			2015
Operation			indoors
Fresh air temperature limits**		°C	-5 - +40
Housing protection class	IP		34

* Calculated according EN 13141-7.
**For temperatures lower than recommended use electrical pre-heater to ensure balanced operation.

RIS 1200PE 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	58	69	71	69	67	64	56
Extract	64	52	56	61	56	50	45	42
Surrounding	56	42	48	50	49	48	46	40
Measured at 1298 m³/h, 100 Pa								

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

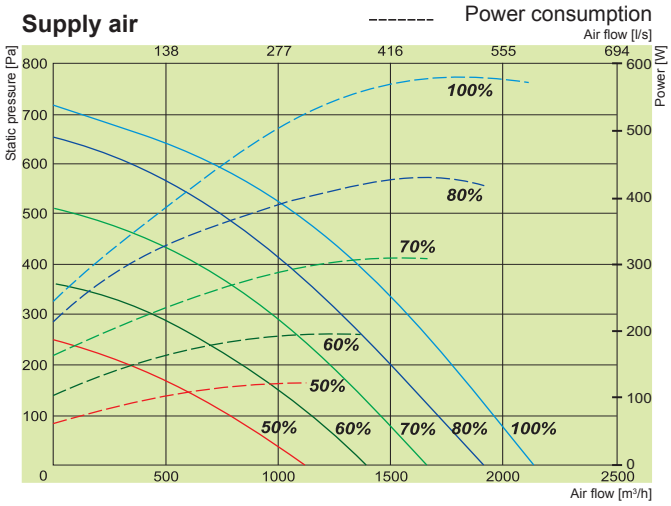
Certifications

EUROVENT certified counter flow heat exchanger performance

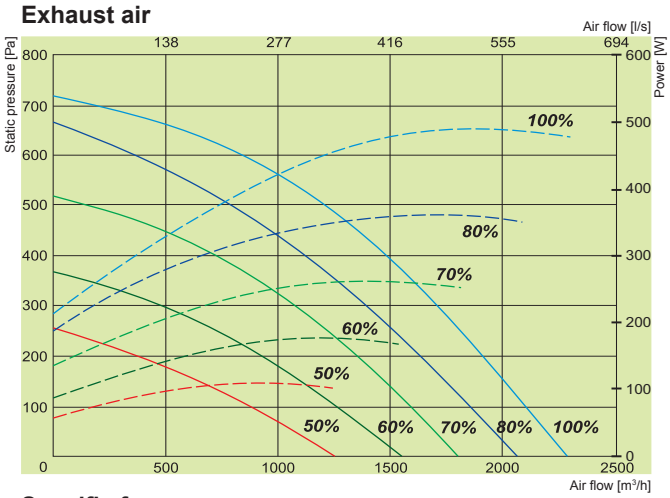
RIS 1900PE EKO 3.0

Performance
Power consumption

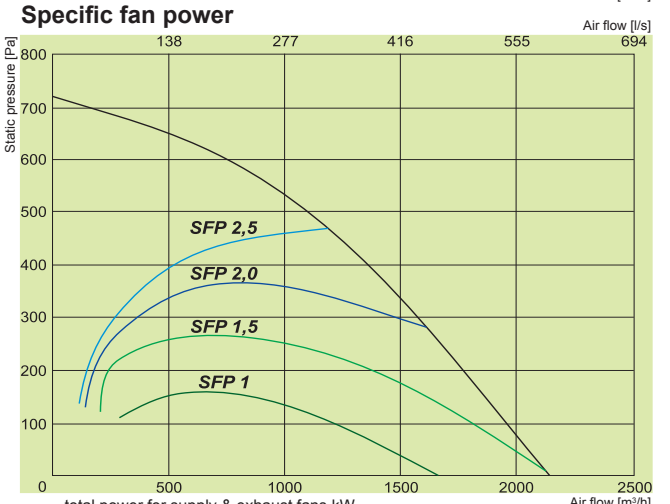
Supply air



Exhaust air



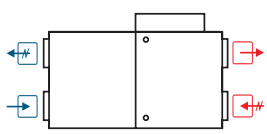
Specific fan power



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

Temperature efficiency

RIS 1900PE EKO 3.0



View from inspection side

Exhaust air | Extract air | Fresh air | Supply air

Article No.	Version
GAGRIS1751_0025A	1900PE 3.0 EKO 3.0 Integrated electrical heater.
GAGRIS1752_0024B	1900PE 6.0 EKO 3.0 Integrated electrical heater.
GAGRIS1706_0001B	1900PE 12.0 EKO 3.0 Integrated electrical heater.

			3.0 EKO 3.0	6.0 EKO 3.0	12.0 EKO 3.0
Electrical heater	phase/voltage	[50Hz/VAC]	~1, 230	~3, 400	~3, 400
		[kW]	3,0	6,0	12,0
EC fans	phase/voltage	[50Hz/VAC]		~1, 230	
exhaust	power/current	[kW/A]		0,488/3,16	
	fan speed	[min⁻¹]		2540	
supply	power/current	[kW/A]		0,485/3,12	
	fan speed	[min⁻¹]		2540	
Thermal efficiency up to*				90%	
Motorized by-pass				+	
Max power consumption		[kW/A]	3,97 /20,32	6,97 /14,92	12,97 /24,32
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]	269	270	272
Comply with ERP				2015	
Operation				indoors	
Fresh air temperature limits**		°C		-5 - +40	
Housing protection class	IP			34	

* Calculated according EN 13141-7.
**For temperatures lower than recommended use electrical pre-heater to ensure balanced operation.

RIS 1900PE 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	53	64	69	73	70	65	61
Extract	68	42	58	64	62	61	58	55
Surrounding	60	50	52	54	54	50	48	41
Measured at 1938 m³/h, 100 Pa								

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

Certifications

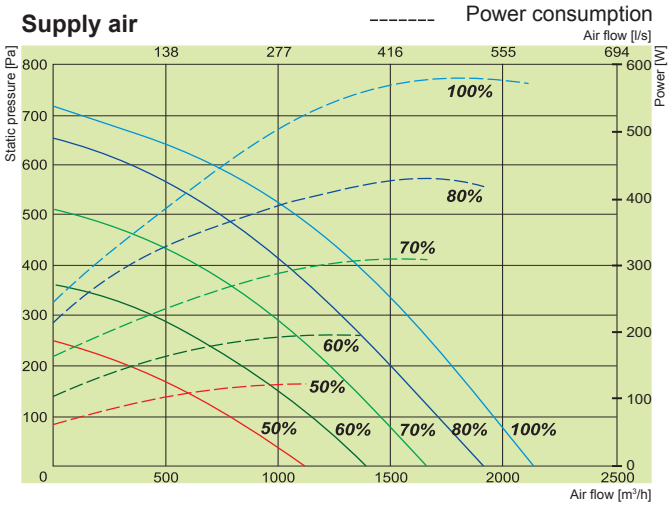
EUROVENT certified counter flow heat exchanger performance

RIS P EKO

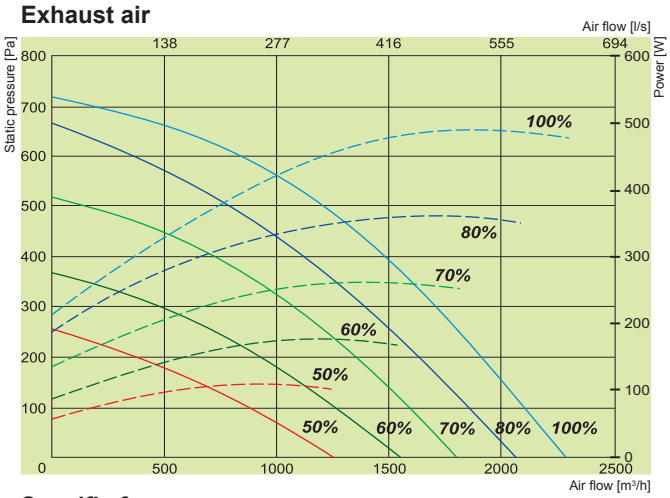
RIS 1900PW EKO 3.0

Performance
Power consumption

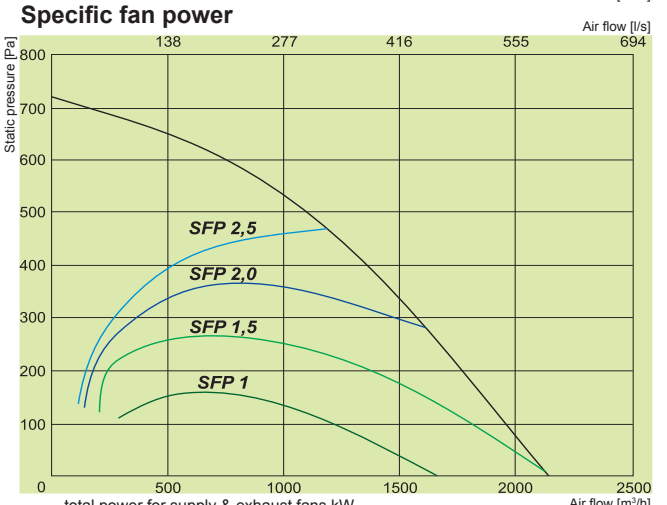
Supply air



Exhaust air



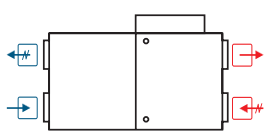
Specific fan power



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

Temperature efficiency

RIS 1900PW EKO 3.0



View from inspection side

Exhaust air | Extract air | Fresh air | Supply air

Article No.	Version	
GAGRIS1753_0026A	1900PW EKO 3.0	Optional water heater.

			1900PW EKO 3.0
Water heater (optional)	phase/voltage	[50Hz/VAC]	SVS 700x400
	power consumption	[kW]	
Fans	phase/voltage	[50Hz/VAC]	~1, 230
exhaust	power/current	[kW/A]	0,488/3,16
	fan speed	[min⁻¹]	2540
supply	power/current	[kW/A]	0,485/3,12
	fan speed	[min⁻¹]	2540
Thermal efficiency up to*			90%
Motorized by-pass			+
Max power consumption		[kW/A]	0,97 /6,32
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]	269
Comply with ERP			2015
Operation			indoors
Fresh air temperature limits**		°C	-5 - +40
Housing protection class	IP		34

* Calculated according EN 13141-7.
**For temperatures lower than recommended use electrical pre-heater to ensure balanced operation.

RIS 1900PW 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	53	64	69	73	70	65	61
Extract	68	42	58	64	62	61	58	55
Surrounding	60	50	52	54	54	50	48	41
Measured at 1938 m³/h, 100 Pa								

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

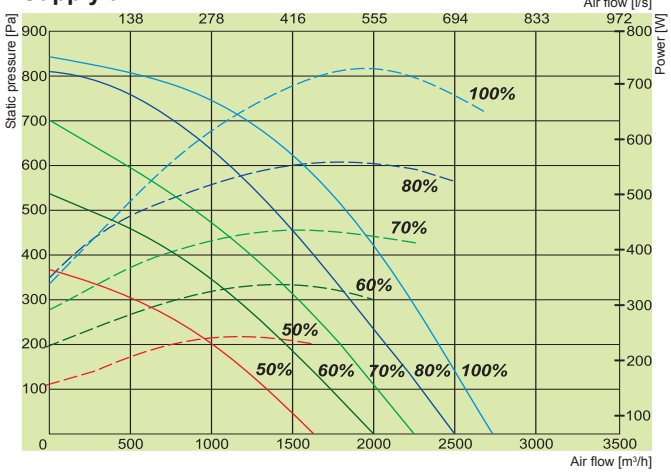
Certifications

EUROVENT certified counter flow heat exchanger performance

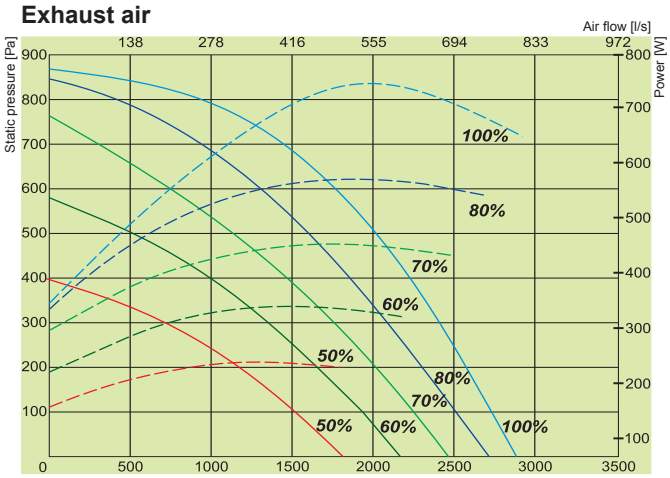
RIS 2500PE EKO 3.0

Performance
Power consumption

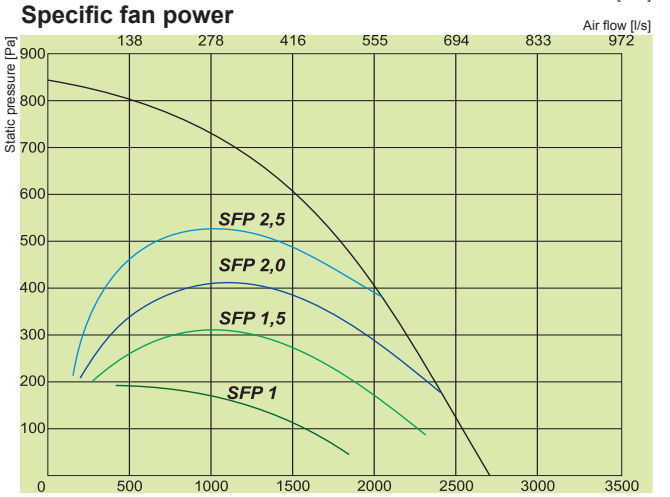
Supply air



Exhaust air

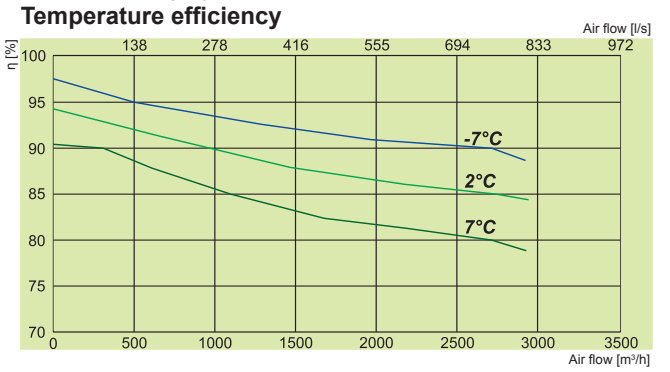


Specific fan power

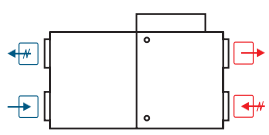


$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

Temperature efficiency



RIS 2500PE EKO 3.0



View from inspection side

Exhaust air | Extract air | Fresh air | Supply air

Article No.	Version
GAGRIS1754_0027B	2500PE 4.5 EKO 3.0 Integrated electrical heater.
GAGRIS1755_0028B	2500PE 9.0 EKO 3.0 Integrated electrical heater.
GAGRIS1707_0015B	2500PE 18.0 EKO 3.0 Integrated electrical heater.

			4.5 EKO 3.0	9.0 EKO 3.0	18.0 EKO 3.0
Electrical heater	phase/voltage	[50Hz/VAC]	~3, 400	~3, 400	~3, 400
		[kW]	4,5	9,0	18,0
EC fans	phase/voltage	[50Hz/VAC]		~1, 230	
exhaust	power/current	[kW/A]		0,675/3,0	
	fan speed	[min⁻¹]		2800	
supply	power/current	[kW/A]		0,725/3,24	
	fan speed	[min⁻¹]		2800	
Thermal efficiency up to*				90%	
Motorized by-pass				+	
Max power consumption		[kW/A]	5,90 /12,78	10,40 /19,2	19,40 /32,28
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]	316	320	322
Comply with ERP				2015	
Operation				indoors	
Fresh air temperature limits**		°C		-5 - +40	
Housing protection class	IP			34	

* Calculated according EN 13141-7.
**For temperatures lower than recommended use electrical pre-heater to ensure balanced operation.

RIS 2500PE 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	60	68	72	75	74	71	65
Extract	69	56	60	64	63	60	58	41
Surrounding	62	46	54	56	57	54	50	45
Measured at 2548 m³/h, 102 Pa								

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

Certifications

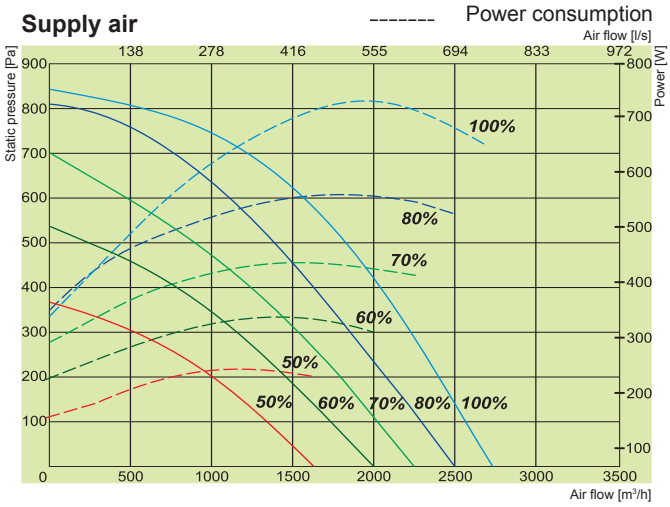
EUROVENT certified counter flow heat exchanger performance

RIS P EKO

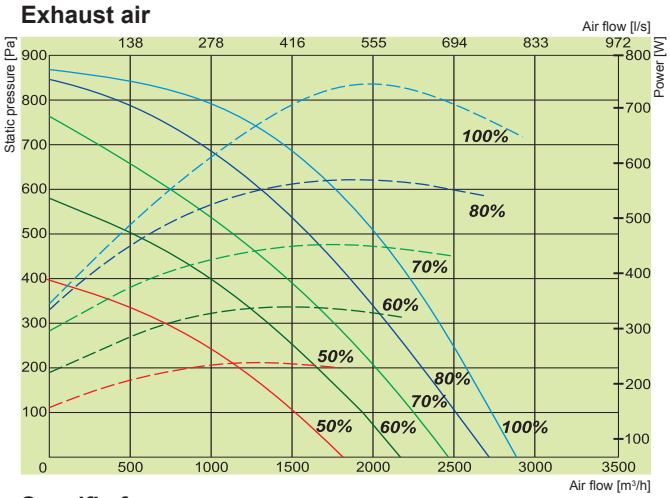
RIS 2500PW EKO 3.0

Performance
Power consumption

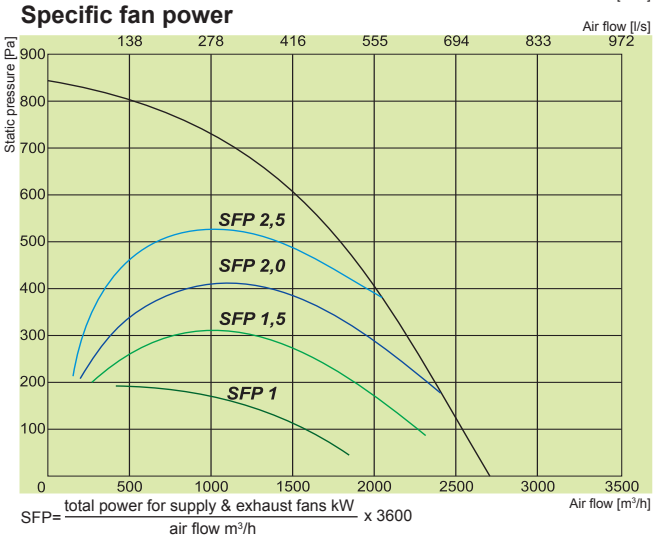
Supply air



Exhaust air

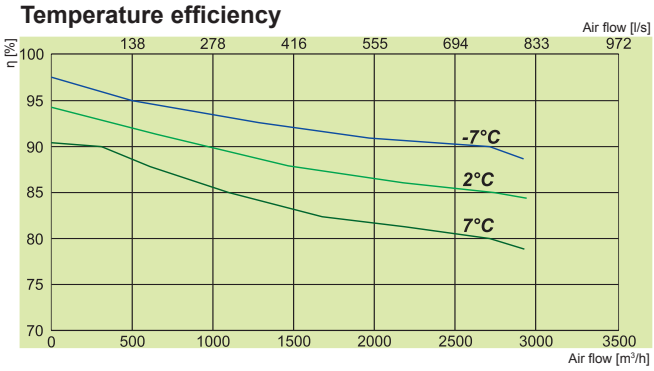


Specific fan power

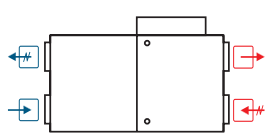


$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

Temperature efficiency



RIS 2500PW EKO 3.0



View from inspection side

Exhaust air | Extract air | Fresh air | Supply air

Article No.	Version	
GAGRIS1756_0029A	2500PW EKO 3.0	Optional water heater.

			2500PW EKO 3.0
Water heater (optional)	phase/voltage	[50Hz/VAC]	SVS 700x400
	power consumption	[kW]	
Fans	phase/voltage	[50Hz/VAC]	~1, 230
exhaust	power/current	[kW/A]	0,675/3,0
	fan speed	[min⁻¹]	2800
supply	power/current	[kW/A]	0,725/3,24
	fan speed	[min⁻¹]	2800
Thermal efficiency up to*			90%
Motorized by-pass			+
Max power consumption		[kW/A]	1,40 /6,28
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]	313
Comply with ERP			2015
Operation			indoors
Fresh air temperature limits**		°C	-5 - +40
Housing protection class	IP		34

* Calculated according EN 13141-7.
**For temperatures lower than recommended use electrical pre-heater to ensure balanced operation.

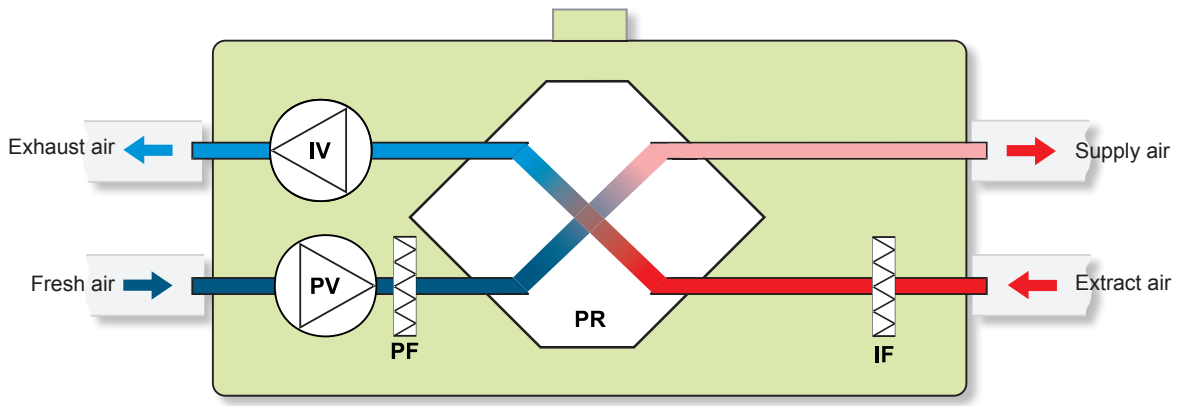
RIS 2500PW EKO 3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	80	60	68	72	75	74	71	65
Extract	69	56	60	64	63	60	58	41
Surrounding	62	46	54	56	57	54	50	45
Measured at 2548 m³/h, 102 Pa								

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

Certifications

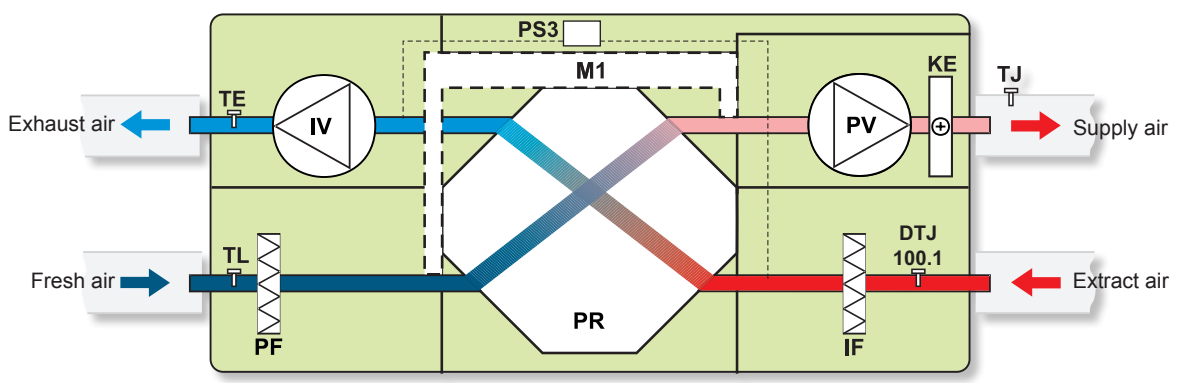
EUROVENT certified counter flow heat exchanger performance

RIS 150PE EKO (ceiling mounted) **versions without electrical heater**



IV - exhaust air fan
PV - supply air fan
PR - plate heat exchanger
PF - filter for supply air (class M5)
IF - filter for extract air (class F7)

RIS 400PE EKO 3.0 (ceiling mounted) **version with electrical**

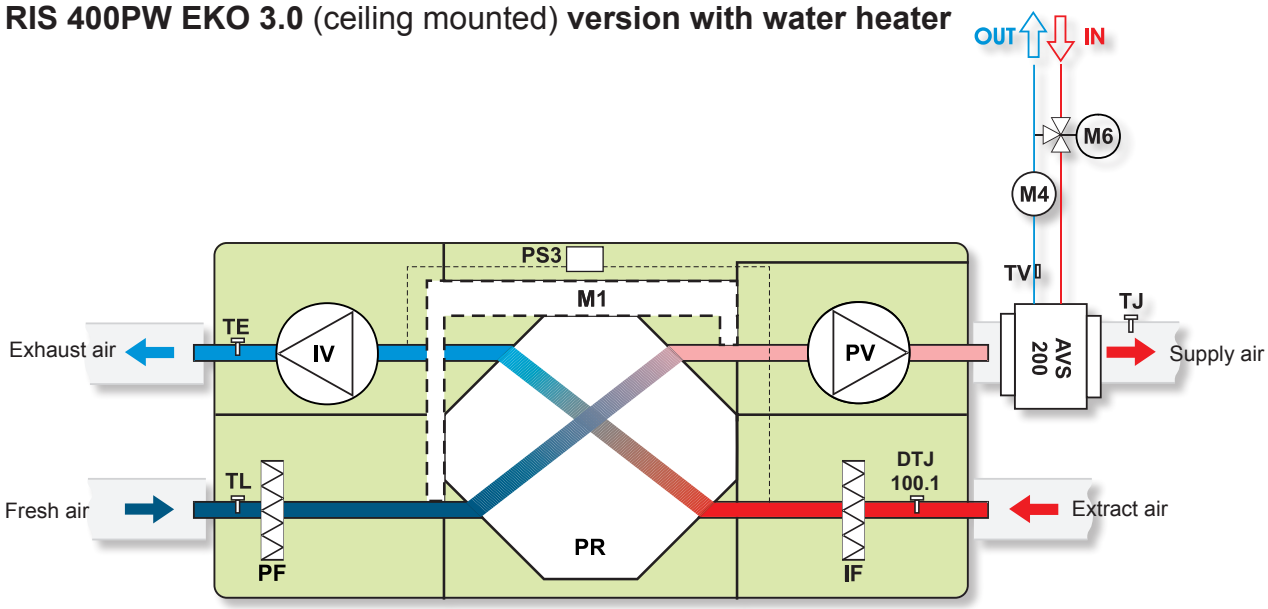


IV - exhaust air fan
PV - supply air fan
PR - plate heat exchanger
PF - filter for supply air (class F7)
IF - filter for extract air (class M5)
KE - electrical heater

M1 - actuator of by-pass damper
TL - fresh air temperature sensor
TJ - supply air temperature sensor
TE - exhaust air temperature sensor
DTJ 100.1 - humidity + temperature sensor
PS3 - heat exchanger antifrost pressure switch

RIS P EKO

RIS 400PW EKO 3.0 (ceiling mounted) version with water heater

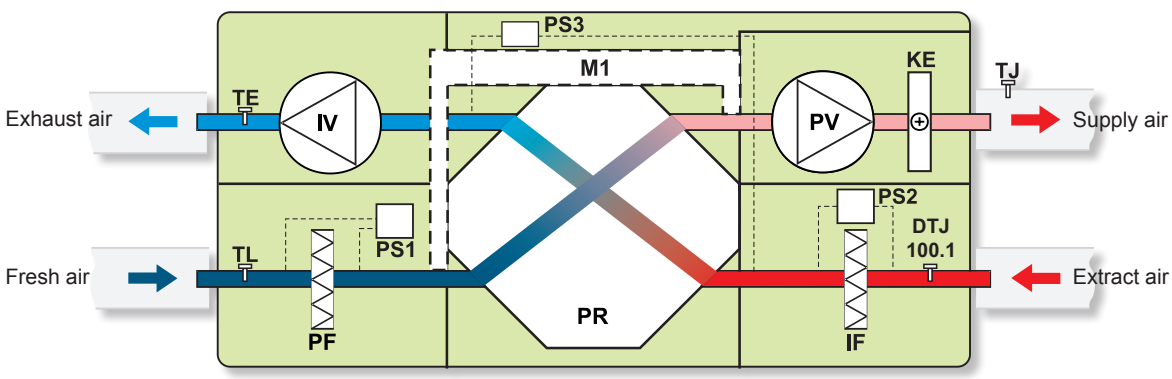


IV - exhaust air fan
PV - supply air fan
PR - plate heat exchanger
PF - filter for supply air (class F7)
IF - filter for extract air (class M5)
TV - antifrost sensor
PS3 - heat exchanger antifrost pressure switch

M1 - actuator of by-pass damper
M4 - water heater circulator pump
M6 - optionally supplied mixing valve and motor
TL - fresh air temperature sensor
TJ - supply air temperature sensor
TE - exhaust air temperature sensor
AVS - optionally supplied water heater
DTJ 100.1 - humidity + temperature sensor

RIS 700PE EKO 3.0; 1200PE EKO 3.0; 1900PE EKO 3.0; 2500PE EKO 3.0

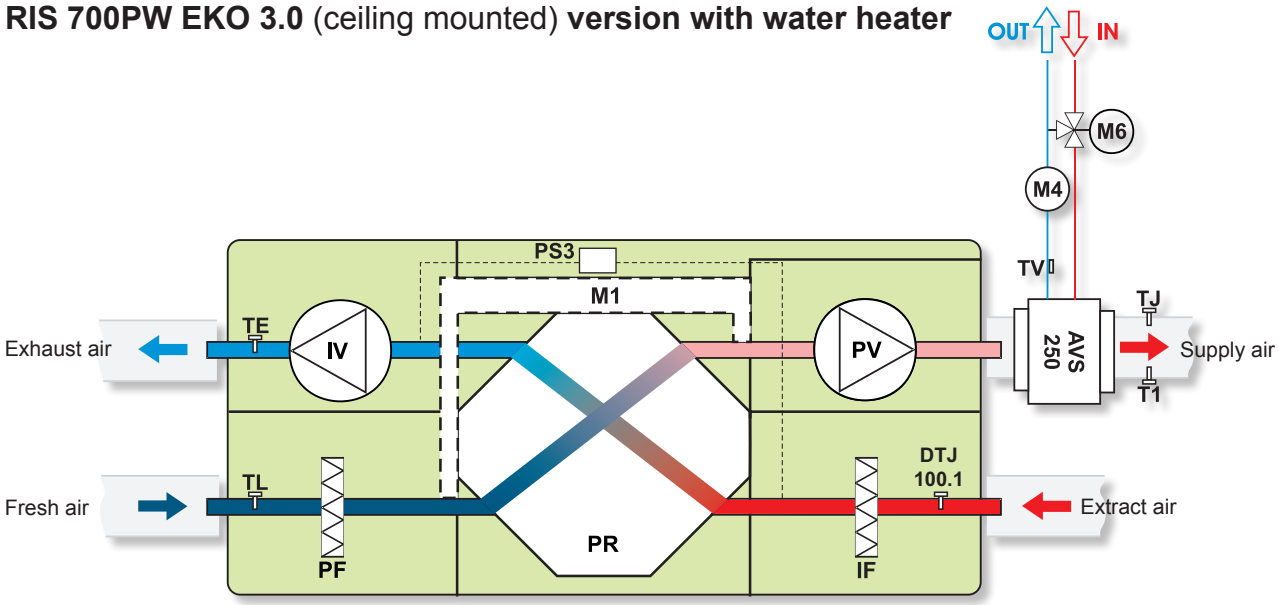
(ceiling mounted) **versions with electrical heater**



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

DTJ 100.1 - humidity + temperature sensor
TJ - temperature sensor for supply air
M1 - actuator of by-pass damper
PS1 - supply air differential pressure switch (RIS 1200 - 2500 PE EKO 3.0)
PS2 - extract air differential pressure switch (RIS 1200 - 2500 PE EKO 3.0)
PS3 - heat exchanger antifrost pressure switch

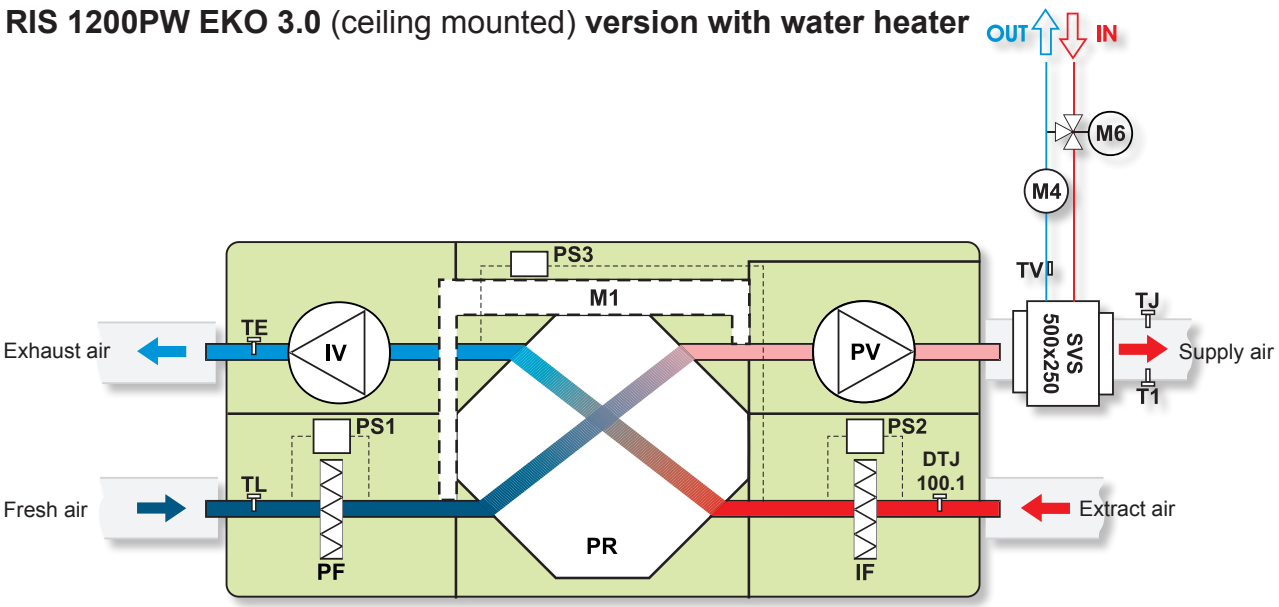
RIS 700PW EKO 3.0 (ceiling mounted) **version with water heater**



IV - exhaust air fan
PV - supply air fan
PR - plate heat exchanger
PF - filter for supply air (class F7)
IF - filter for extract air (class M5)
TE - temperature sensor for exhaust air
TL - temperature sensor for fresh air
TJ - temperature sensor for supply air
T1 - temperature sensor

TV - antifrost sensor
DTJ 100.1 - humidity + temperature sensor
M1 - actuator of by-pass damper
M4 - water heater circulator pump
M6 - optionally supplied mixing valve and motor
AVS - optionally supplied water heater
PS3 - heat exchanger antifrost pressure switch

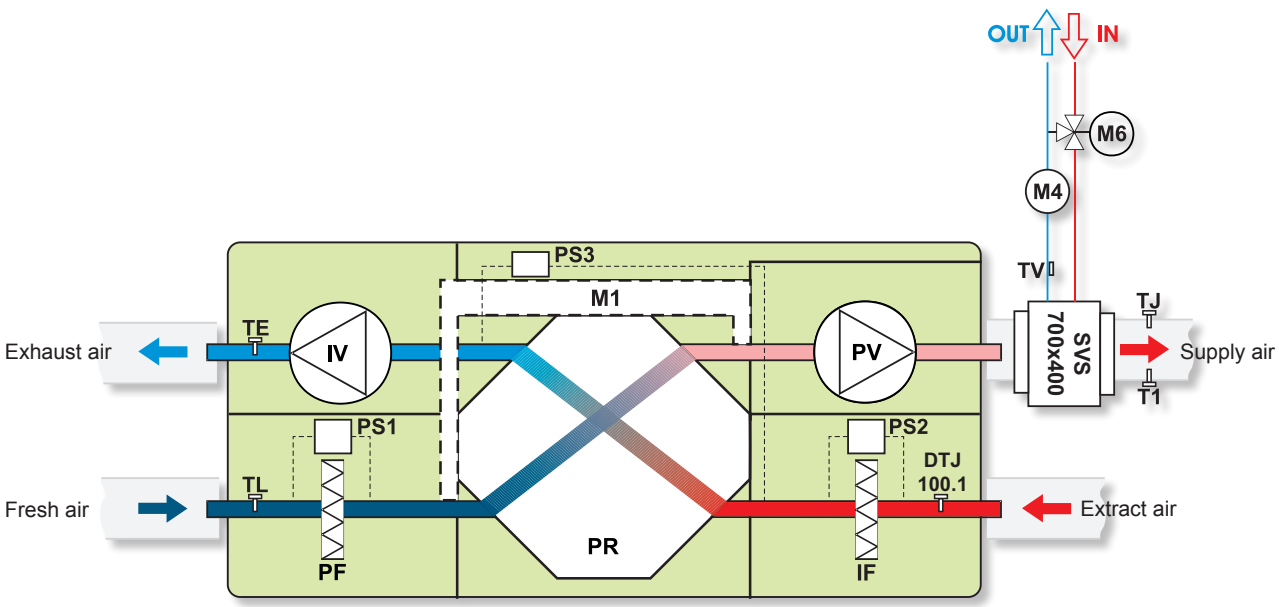
RIS 1200PW EKO 3.0 (ceiling mounted) **version with water heater**



IV - exhaust air fan
PV - supply air fan
PR - plate heat exchanger
PF - filter for supply air (class F7)
IF - filter for extract air (class M5)
TE - temperature sensor for exhaust air
TL - temperature sensor for fresh air
TJ - temperature sensor for supply air
T1 - temperature sensor

TV - antifrost sensor
DTJ 100.1 - humidity + temperature sensor
M1 - actuator of by-pass damper
M4 - water heater circulator pump
M6 - optionally supplied mixing valve and motor
PS1 - supply air differential pressure switch
PS2 - extract air differential pressure switch
PS3 - heat exchanger antifrost pressure switch
SVS - optionally supplied water heater

RIS 1900PW EKO 3.0; 2500PW EKO 3.0 (ceiling mounted) version with water heater



IV - exhaust air fan
PV - supply air fan
PR - plate heat exchanger
PF - filter for supply air (class F7)
IF - filter for extract air (class M5)
TE - temperature sensor for exhaust air
TL - temperature sensor for fresh air
TJ - temperature sensor for supply air
T1 - temperature sensor

TV - antifrost sensor
DTJ 100.1 - humidity + temperature sensor
M1 - actuator of by-pass damper
M4 - water heater circulator pump
M6 - optionally supplied mixing valve and motor
PS1 - supply air differential pressure switch
PS2 - extract air differential pressure switch
PS3 - heat exchanger antifrost pressure switch
SVS - optionally supplied water heater