

RIRS H EKO



Heat recovery ventilators with rotating exchanger, automatic control and EC motor, designed for horizontal ducts and installation on roof or in technical room.



FLEX panel included in all models

Common characteristics:

- Efficient low-noise EC adjustable fans.
- Maintenance switch – disconnecter incorporated.
- Thermal efficiency of up to 80%.
- Sound insulation 50mm thick for low noise level.
- Large access doors for correct maintenance.
- Tray for collecting condensation with drainage.

PRV 3.0 control functions incorporated:

- Free cooling function.
- Fan speed control by manual selection or optional external sensors (CO2 or pressure).
- Frost protection built-in.
- Built-in control system with FLEX remote control panel (including 13 m cable).
- ON/OFF and speed control available through panel or external switches.
- Control of external DX coolers.
- Built-in temperature and humidity sensors.

- Filter condition control through built-in pressure switches (for some models).
- Management of fire alarms and equipment failure alarms.
- Compatible with MODBUS RTU.
- Models 400 and 700 have additional extraction without recovery, for kitchen fumes.

Finish:

- Silver/Ral 7040 paint.

Versions:

- Environmental: Renewal of air without supplying heat (S).
- Electric: With heating supplied by single-stage electrically heated coils (E).
- Water battery: With heating supplied by water coils external to the machine (W).



On request:

- Boxes with special filters.
- Adiabatic module.
- Cover for roof installation.

Order code

RIRS	—	3500	—	H-EKO	—	E	—	D	—	F7
RIRS: Heat recovery ventilators with rotating exchanger, automatic control and EC motor, designed for installation on roof or in technical room		Size		Horizontal ducts and high efficiency		S: No battery or water coils E: Electrical battery W: External water coil		Side on which the air supply to the premises is located, seen from the maintenance access. D: Right-hand side (standard) K: left-hand side		F7 filter (air supply filter)

Characteristics, depending on size

	RIRS-400	RIRS-700	RIRS-1200	RIRS-1900	RIRS-3500	RIRS-5500
Standard filters (supply/extraction)	F7/M5	F7/M5	F7/M5	F7/M5	F7/M5	F7/M5
Free cooling function 100% of flow	YES	YES	YES	YES	YES	YES
Side for maintenance access can be changed (D↔K)	YES	YES	YES	YES	YES	NO
Version availability according to maintenance access side (versions D or K)	D/K	D/K	D/K	D/K	D/K	D
Built-in pressure switches for filter condition control	-	-	YES	YES	YES	YES

Technical characteristics

Model	Double-inlet			Maximum flow F7 (m ³ /h)	Thermal efficiency (%)	LpA radiated 3m dB(A)	Total voltage (V)	Total current (A)	Total power (kW)	Weight (Kg)	According ErP
	Speed (r/min)	Current (A)	Power (kW)								
RIRS-400-H-EKO S	3490	2x1.20	2x0,132	540	75	55	1x230	2.46	0.3	72	2018
RIRS-400-H-EKO E	3490	2x1.20	2x0,132	540	75	55	1x230	7.66	1.5	72	2018
RIRS-400-H-EKO W	3490	2x1.20	2x0,132	540	75	55	1x230	2.46	0.3	80.5	2018
RIRS-700-H-EKO S	3380	2x1.80	2x0,210	750	75	55	1x230	3.74	0.4	96	2018
RIRS-700-H-EKO E	3380	2x1.80	2x0,210	750	75	55	1x230	12.44	2.4	96	2018
RIRS-700-H-EKO W	3380	2x1.80	2x0,210	750	75	55	1x230	3.74	0.4	108.5	2018
RIRS-1200-H-EKO S	3400	2x2.80	2x0,430	1400	80	57	1x230	5.87	0.9	160	2018
RIRS-1200-H-EKO E	3400	2x2.80	2x0,430	1400	80	57	3x400	15.87	4.9	162	2018
RIRS-1200-H-EKO W	3400	2x2.80	2x0,430	1400	80	57	1x230	5.87	0.9	176	2018
RIRS-1900-H-EKO S	2600	2x3.20	2x0,500	2150	74	61	1x230	6.62	1.0	160	2018
RIRS-1900-H-EKO E	2600	2x3.20	2x0,500	2150	74	61	3x400	19.62	10.0	162	2018
RIRS-1900-H-EKO W	2600	2x3.20	2x0,500	2150	74	61	1x230	6.62	1.0	176	2018
RIRS-3500-H-EKO S	2390	2x5.75	2x1,300	4500	80	66	1x230	12.13	2.7	490	2018
RIRS-3500-H-EKO E	2390	2x5.75	2x1,300	4500	80	66	3x400	29.43	14.7	492	2018
RIRS-3500-H-EKO W	2390	2x5.75	2x1,300	4500	80	66	1x230	12.13	2.7	514	2018
RIRS-5500-H-EKO S	2180	2x3.20	2x2,000	6900	80	78	3x400	6.65	4.2	623	2018
RIRS-5500-H-EKO E	2180	2x3.20	2x2,000	6900	80	78	3x400	28.35	19	625	2018
RIRS-5500-H-EKO W	2180	2x3.20	2x2,000	6900	80	78	3x400	6.65	4.2	647	2018

**Erp. (Energy Related Products)**

Information on Directive 2009/125/EC can be downloaded from the SODECA website or the QuickFan selector programme.

Technical characteristics of models with electrically heated coil

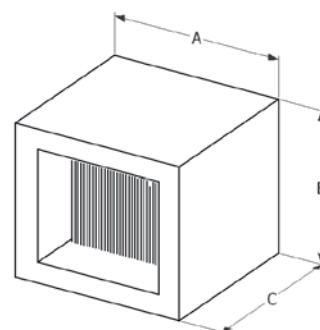
Model	Voltage (V)	Power (kW)
RIRS-400-H-EKO-E	1X230	1.2
RIRS-700-H-EKO-E	1X230	2
RIRS-1200-H-EKO-E	3x400	4
RIRS-1900-H-EKO-E	3X400	9
RIRS-3500-H-EKO-E	3X400	12
RIRS-5500-H-EKO-E	3X400	14.8

Technical characteristics of models with water coil at 80/60 °C

Model	Heat power (kW)	Water flow (l/s)	Head loss (kPa)	Air speed (m/s)	Max. temperature difference (°C)	Coil thread diam
RIRS-400-H-EKO-W	6.25	0.08	15.24	3.4	33.5	1/2"
RIRS-700-H-EKO-W	10.6	0.13	9.32	3.37	31.38	1/2"
RIRS-1200-H-EKO-W	15.6	0.19	9.49	2.9	33	1/2"
RIRS-1900-H-EKO-W	18.2	0.22	12.5	3.83	30	1/2"
RIRS-3500-H-EKO-W	18.25	0.35	18.25	2.06	21.5	3/4"
RIRS-5500-H-EKO-W	33	0.4	22,97	2,57	20	3/4"

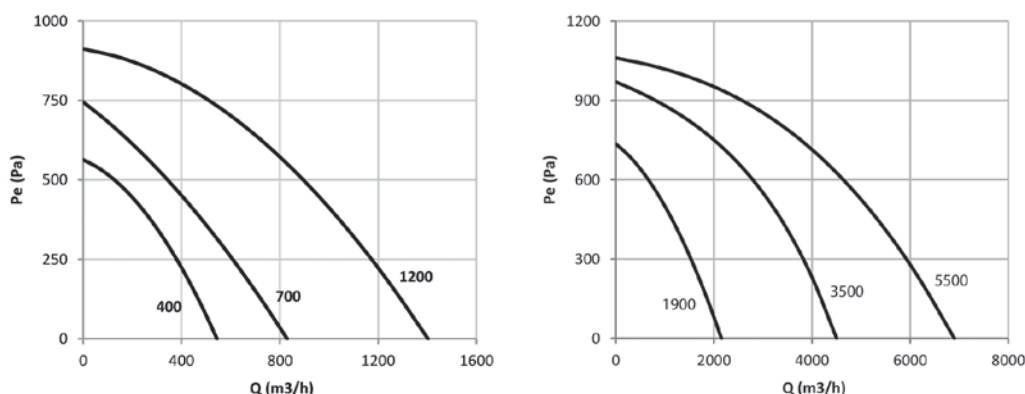
* Data at 80/60°C, machine's maximum flow and outside temperature = 0°C

Model	A	B	C
RIRS-400-H-EKO-W	289	265	304
RIRS-700-H-EKO-W	364	395	342
RIRS-1200-H-EKO-W	439	460	342
RIRS-1900-H-EKO-W	439	460	342
RIRS-3500-H-EKO-W	880	838	756
RIRS-5500-H-EKO-W	1150	944	795



External water coils

Characteristic Curves



Acoustic features

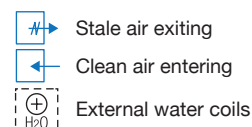
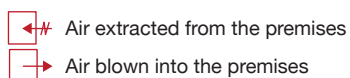
The values specified are determined according to free field measurements of sound levels in dB(A) at a distance of no less than 3 m from the equipment.

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz

Model	63	125	250	500	1000	2000	4000	8000
RIRS-400	41	43	44	53	48	45	44	41
RIRS-700	44	48	48	51	49	46	44	43
RIRS-1200	51	52	53	47	44	41	35	33
RIRS-1900	42	44	58	53	51	53	50	48
RIRS-3500	52	55	60	61	58	56	50	48
RIRS-5500	58	60	71	73	72	69	64	57

Configurations

View of machine from the maintenance access side

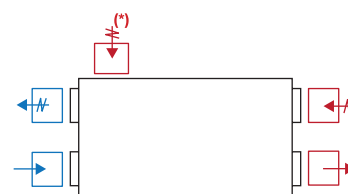
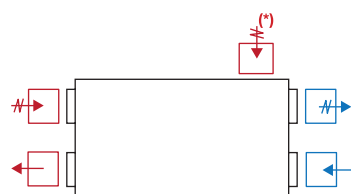


(*) Extraction of air from the premises without recovery, only for models 400 and 700.

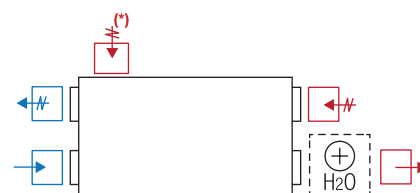
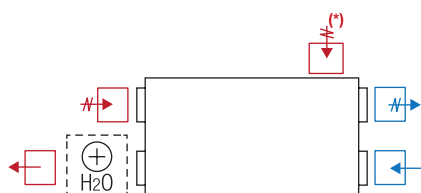
Configuration D

Configuration K

S / E Versions

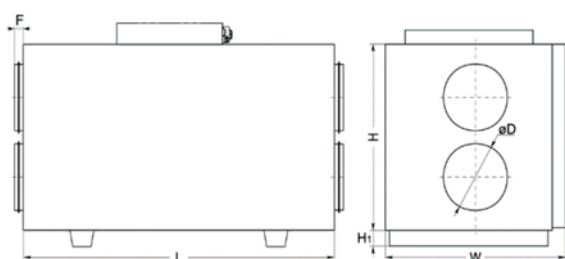


W Versiones

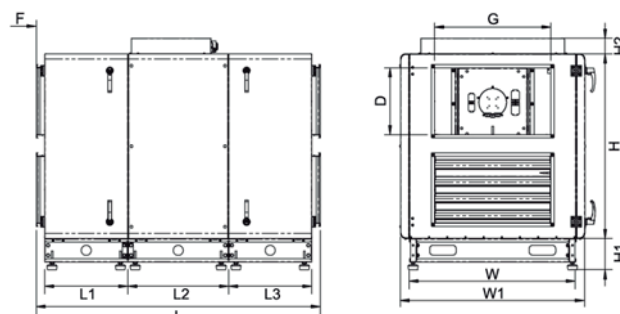


Dimensions in mm

RIRS-400/700/1200/1900



RIRS-3500/5500



Modelo	L	L1	L2	L3	W	W1	H	H1	H2	øD	G	D	F
RIRS-400-H-EKO-S/E	1000	-	-	-	560	-	610	40	-	200	-	-	30
RIRS-400-H-EKO-W	1000	-	-	-	560	-	610	40	-	200	-	-	30
RIRS-700-H-EKO-S/E	1100	-	-	-	653	-	700	40	-	250	-	-	40
RIRS-700-H-EKO-W	1100	-	-	-	653	-	700	40	-	250	-	-	40
RIRS-1200-H-EKO-S/E	1350	-	-	-	853	-	900	70	-	315	-	-	40
RIRS-1200-H-EKO-W	1350	-	-	-	853	-	900	70	-	315	-	-	40
RIRS-1900-H-EKO-S/E	1350	-	-	-	853	-	900	70	-	315	-	-	40
RIRS-1900-H-EKO-W	1350	-	-	-	853	-	900	70	-	315	-	-	40
RIRS-3500-H-EKO-S/E	1901	630	628	630	1032	1205	1302	194	131	-	700	400	50
RIRS-3500-H-EKO-W	1901	630	628	630	1032	1205	1302	194	131	-	700	400	50
RIRS-5500-H-EKO-S/E	1908	600	700	600	1394	1408	1485	192	103	-	800	500	50
RIRS-5500-H-EKO-W	1908	600	700	600	1394	1408	1485	192	103	-	800	500	50

CJFILTER/REC filter box configurations

CJFILTER/REC — 300x600-250 — CA

Air filter boxes for circular ducts equipped with different types of filter, depending on model



Box size

Filters available
F7
F9
CA (Active Carbon)
H10
H13

Filter box part numbers according to machine size and inlet/outlet cross-section

Model	Box size
RIRS-400-H-EKO	300x600-200
RIRS-700-H-EKO	300x600-250
RIRS-1200-H-EKO	600x600-315
RIRS-1900-H-EKO	600x600-315
RIRS-3500-H-EKO	600x900-400x700
RIRS-5500-H-EKO	600x1200-500x800

For more information, see CJFILTER/REC section.

Accessories

See accessories section

