

RIS P EKO



Heat recovery units with cross-flow panels, automatic control and E.C. motors, for horizontal ducts and installation in technical ceilings.



FLEX panel included in all models

Common characteristics:

- Efficient low-noise EC adjustable fans.
- Maintenance switch – disconnecter incorporated.
- Thermal efficiency of up to 90%.
- Sound insulation up to 50mm thick for low noise level.
- Broad access for maintenance from underneath the machine.
- Tray for collecting condensation with drainage.

PRV 3.0 control functions incorporated:

- Free cooling function with motorised BY-PASS.
- 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).
- Control of external closing hatch (hatches included).
- 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.

Finish:

- RAL 7040 or 9016 (700) 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.



Order code

RIS	—	1900	—	P-EKO	—	E	—	F7
RIS: Heat recovery units with cross-flow panels, automatic control and E.C. motors, for installation in technical ceilings.		Size		Highly efficient, for horizontal ducts and installing in false ceilings		S: No battery or water coils E: Electrical battery W: External water coils		F7 filter (air supply filter)

Characteristics, depending on size

	RIS-700	RIS-1200	RIS-1900	RIS-2500
Standard filters (supply/extraction)	F7/M5	F7/M5	F7/M5	F7/M5
Free cooling function with motorised BY-PASS	YES	YES	YES	YES
Soundproofing thickness	30mm	50mm	50mm	50mm
Built-in pressure switch for filter condition control	-	YES	YES	YES

Technical characteristics

Model	Double-inlet			Maximum flow F7 (m3/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)								
RIS-700-P-EKO-S	3380	2x2.05	2x0.23	850	90	56	1x230	4.00	0.46	106	2018
RIS-700-P-EKO-E	3380	2x2.05	2x0.23	850	90	56	1x230	17.01	3.46	106	2018
RIS-700-P-EKO-W	3380	2x2.05	2x0.23	850	90	56	1x230	4.00	0.46	118.5	2018
RIS-1200-P-EKO-S	3400	2x2.95	2x0.45	1300	90	56	1x230	5.40	0.82	170	2018
RIS-1200-P-EKO-E	3400	2x2.95	2x0.45	1300	90	56	3x400	14.50	6.80	170	2018
RIS-1200-P-EKO-W	3400	2x2.95	2x0.45	1300	90	56	1x230	5.40	0.82	178	2018
RIS-1900-P-EKO-S	2540	2x3.15	2x0.48	2100	90	60	1x230	6.32	1.00	269	2018
RIS-1900-P-EKO-E	2540	2x3.15	2x0.48	2100	90	60	3x400	15.00	7.00	270	2018
RIS-1900-P-EKO-W	2540	2x3.15	2x0.48	2100	90	60	1x230	6.32	1.00	282	2018
RIS-2500-P-EKO-S	2800	2x3.00	2x0.67	2800	90	62	1x230	6.20	1.40	313	2018
RIS-2500-P-EKO-E	2800	2x3.00	2x0.67	2800	90	62	3x400	19.20	10.40	320	2018
RIS-2500-P-EKO-W	2800	2x3.00	2x0.67	2800	90	62	1x230	6.20	1.40	326	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)
RIS-700-P-EKO-E	1x230	3
RIS-1200-P-EKO-E	3x400	6
RIS-1900-P-EKO-E	3x400	6
RIS-2500-P-EKO-E	3x400	9

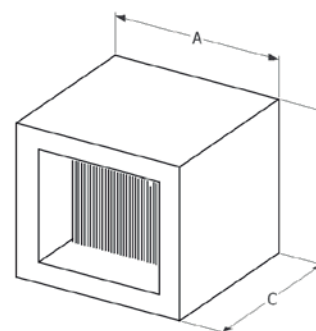
Technical characteristics of models with water coil at 80/60 °C



Model	Heat power (kW)	Water flow (l/s)	Head loss (kPa)	Air speed (m/s)	Max. temperature difference (°C)	Coil thread diam
RIS-700-P-EKO-W	10.6	0.13	9.32	3.37	31	1/2"
RIS-1200-P-EKO-W	15.5	0.19	3.56	3.11	33	3/4"
RIS-1900-P-EKO-W	25.6	0.31	3.62	2.08	36	1"
RIS-2500-P-EKO-W	30.1	0.37	4.85	2.68	33	1"

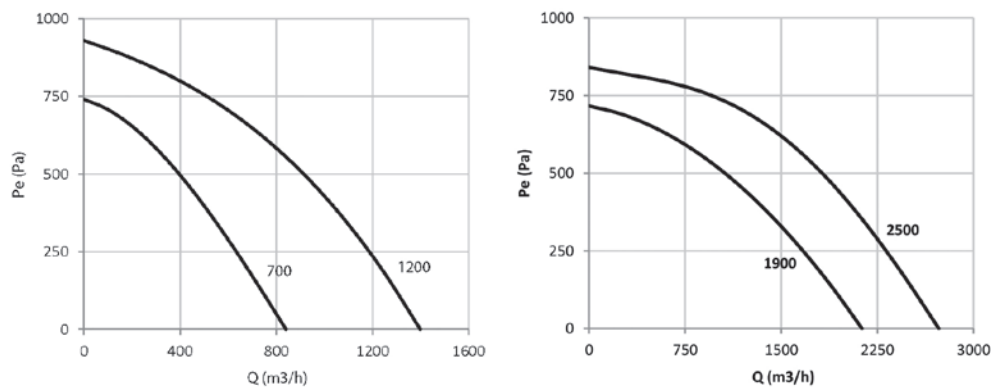
* Data at 80/60°C, machine's maximum flow and outside temperature = 0°C

Model	A	B	C
RIS-700-P-EKO-W	364	395	342
RIS-1200-P-EKO-W	500	250	250
RIS-1900-P-EKO-W	700	400	720
RIS-2500-P-EKO-W	700	400	720



External water coils

Characteristic Curves



Acoustic features

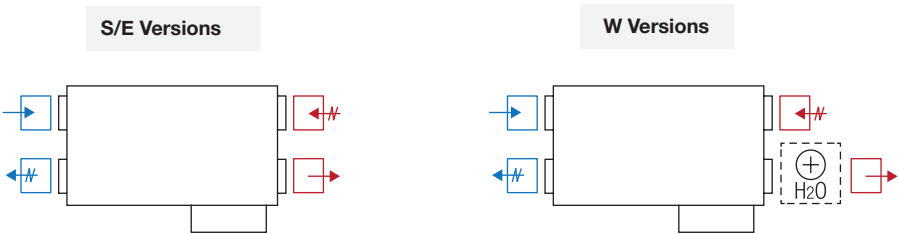
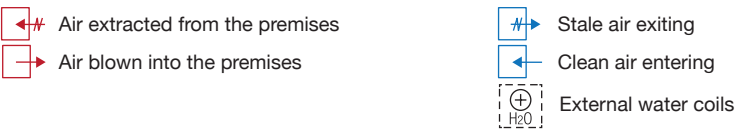
The values specified are determined according to free field measurements of sound levels in dB(A) at a distance of no less than 3 m from the equipment.

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

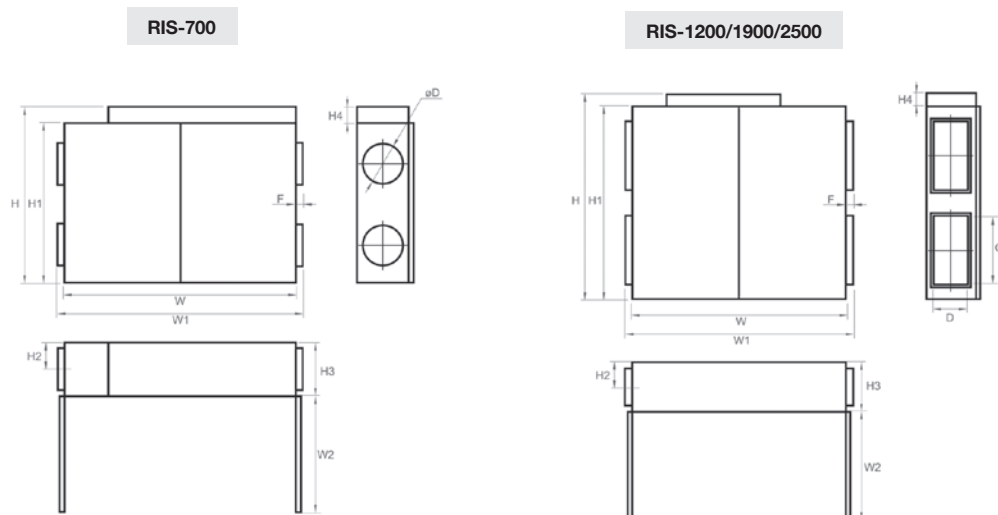
Model	63	125	250	500	1000	2000	4000	8000
RIS-700	46	45	47	50	50	47	43	42
RIS-1200	43	42	48	50	49	48	46	40
RIS-1900	49	50	52	54	54	50	48	41
RIS-2500	43	46	54	56	57	54	50	45

Configurations

Plan view of equipment (opposite side to maintenance access)



Dimensions in mm



Model	W	W1	W2	H	H1	H2	H3	H4	øD	G	D	F
RIS-700-P-EKO-S/E	1380	1461	695	1069	970	160	350	99	250	-	-	40
RIS-700-P-EKO-W	1380	1461	695	1069	970	160	350	99	250	-	-	40
RIS-1200-P-EKO-S/E	1550	1655	780	1497	1397	172	390	100	-	500	250	52
RIS-1200-P-EKO-W	1550	1655	780	1497	1397	172	390	100	-	500	250	52
RIS-1900-P-EKO-S/E	1750	1870	710	1955	1850	194	399	105	-	700	300	60
RIS-1900-P-EKO-W	1750	1870	710	1955	1850	194	399	105	-	700	300	60
RIS-2500-P-EKO-S/E	1850	1970	720	2055	1950	244	499	105	-	700	400	60
RIS-2500-P-EKO-W	1850	1970	720	2055	1950	244	499	105	-	700	400	60

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



For more information, see CJFILTER/REC section.

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
RIS-700-P-EKO	300x600-250
RIS-1200-P-EKO	300x600-250x500
RIS-1900-P-EKO	500x700-300x700
RIS-2500-P-EKO	500x700-400x700

Accessories

See accessories section



FILTERS



CJFILTER/REC



ADIABATIC BOX



PRESSURE SWITCH



CO2 PROBE