HRS-FE/W

- Non residential
- Counterflow
- R-COVERY by SALDA
- Qv ≤ 2250 m³/h
- Horizontal
- Heat recovery unit with efficiency ≥ 75%

Flat HRU with counterflow exchanger type HRS-FE/W

Flat heat recovery units with counterflow heat exchanger and electrical or warm water post-heating. The unit is available in different versions, 700 m³/h until 2500 m³/h.

Brand

- R-COVERY by SALDA

Application

- Ventilation for both residential and non-residential applications
- For indoor mounting in a frost protected area

Composition

- Housing in prelacquered steel plate RAL9016 (model 700) and RAL7040 (other models)
- 30 mm insulation for model 700 and 50 mm insulation for other models
- Round or rectangular connections depending on the model
- Evacuation drain made of stainless steel
- Electrical or warm water post-heating (**external warm water battery not included**)
- Automatic bypass
- Filter detection with timer for model 700 and with pressure switch for other models
- Standard Modbus communication
- Possibility of **regulation by constant pressure** or **regulation by CO_2** (sensors not included)
- The remote control is not included

Fan

- Directly driven EC direct current fan with backward inclined blades
- Can be regulated 20-100%

Exchanger

- High efficiency counterflow heat exchanger in aluminium
- Heat exchanger certified according Eurovent EN 13141-7

Filter

- **HRS-FE/W** is equipped with two flat filters M5 - ISO 16890 ePM10 55% / F7 - ISO 16890 ePM1 70% (exhaust/supply)

Versions

- Type **HRS-FE xxx**: horizontal flat unit, electrical battery
- Type **HRS-FW xxx**: horizontal flat unit, warm water battery (**external battery not included**)

Accessories

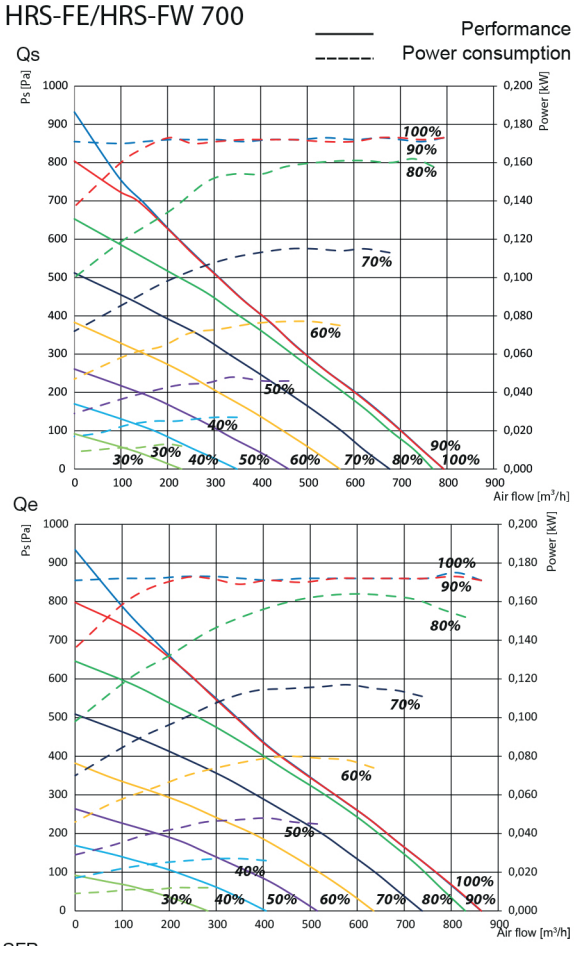
- Airtight control valve **AKH**
- Manual control with weekly timer, type **MC-HRS**
- Warm water battery, type **CWA / CWAR**
- Replacement filters, type **FS-HRS**
- Touchscreen controller TS-AIR

Order example

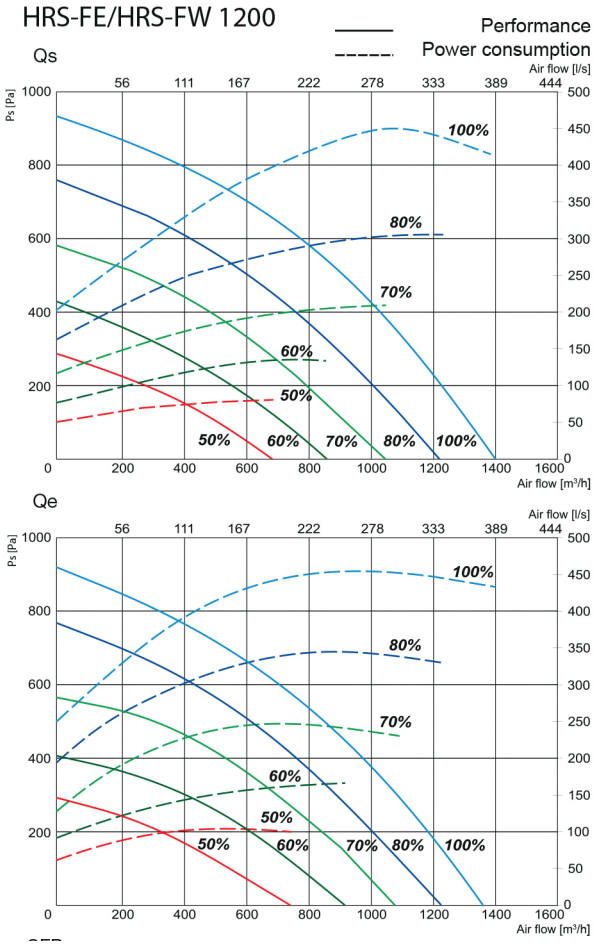
HRS-FE 700
Explanation
HRS-F = type of heat recovery unit
E = electrical post-heating
700 = maximum air flow rate in m³/h

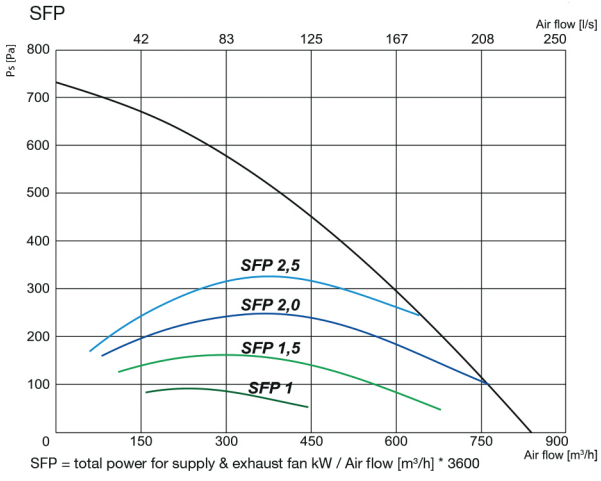
Selection curves

HRS-FE/HRS-FW 700

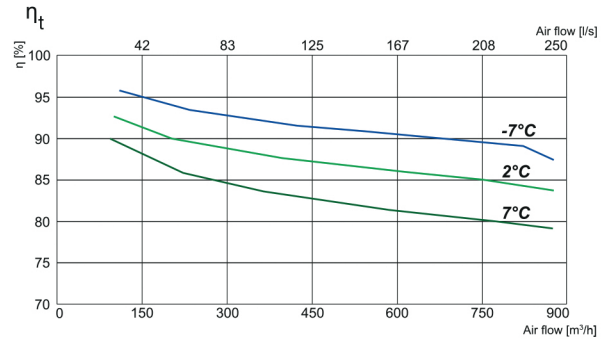


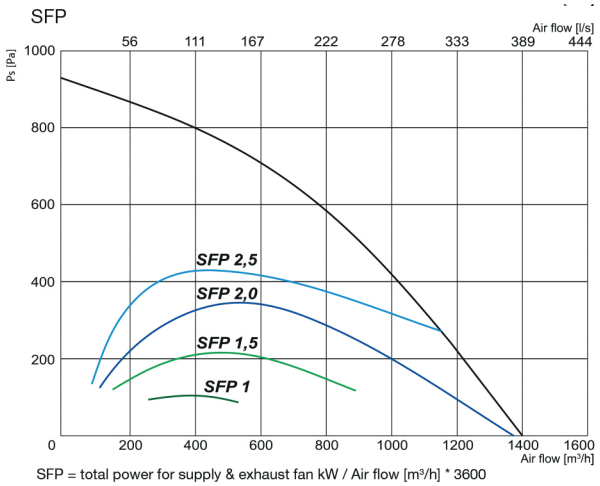
HRS-FE/HRS-FW 1200





SFP = total power for supply & exhaust fan kW / Air flow [m³/h] * 3600





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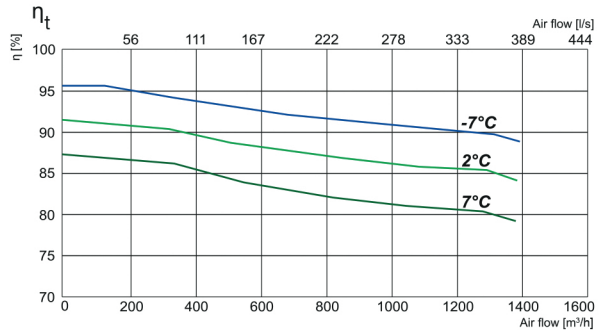
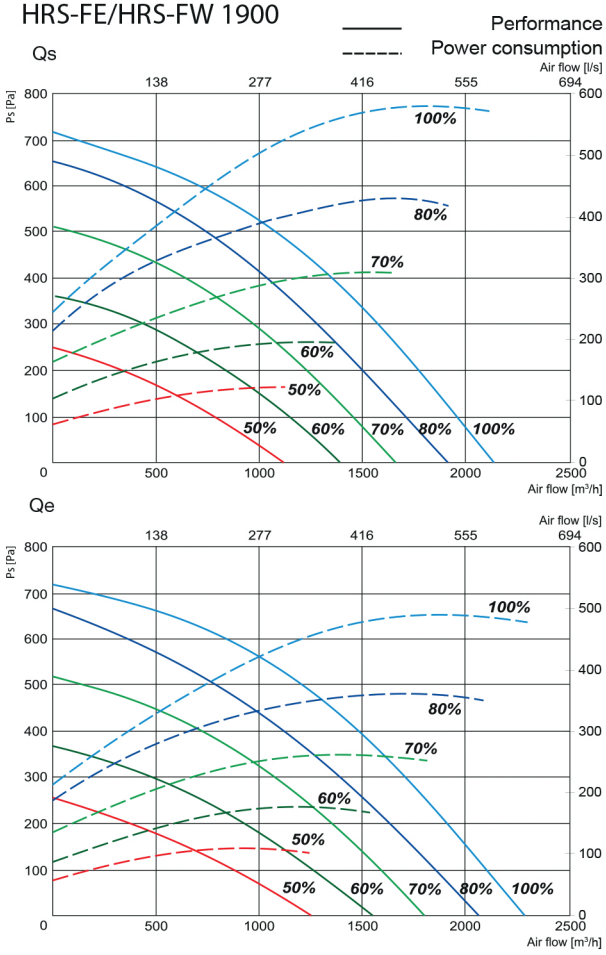
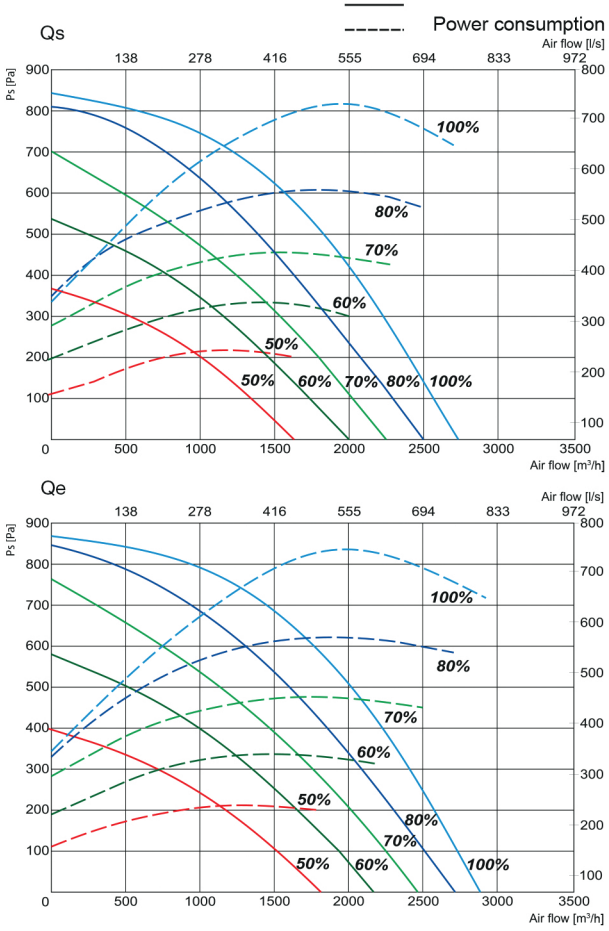


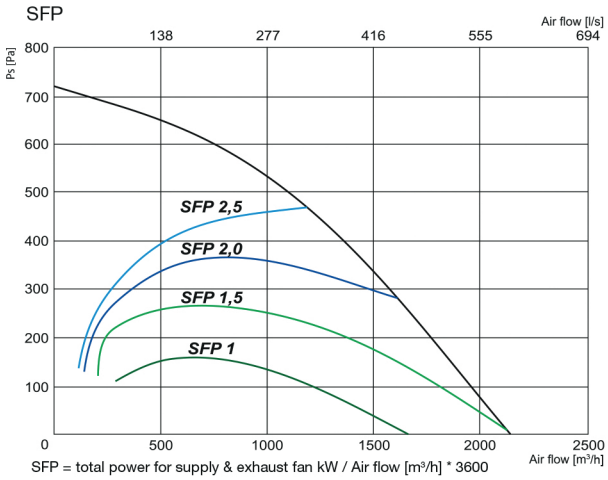
Selection curves

HRS-FE/HRS-FW 1900



HRS-FE/HRS-FW 2500





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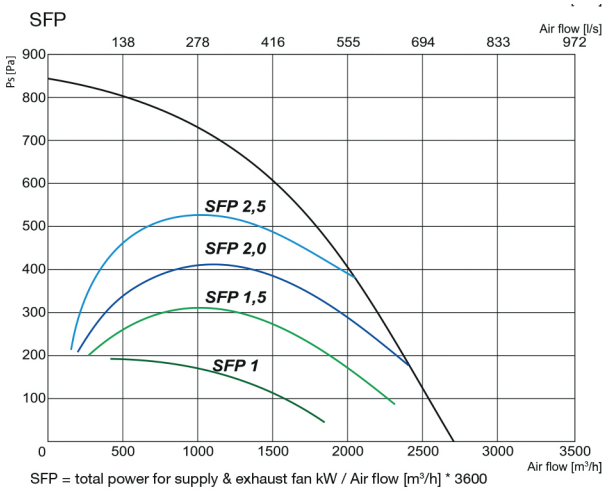

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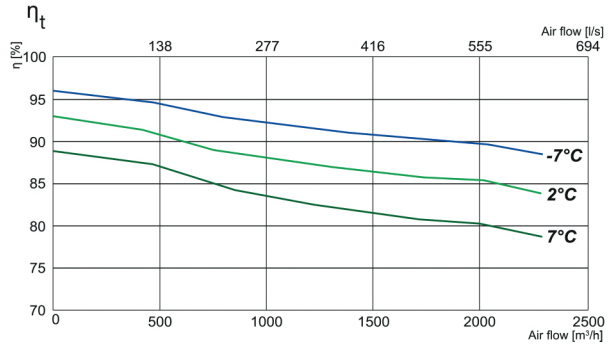
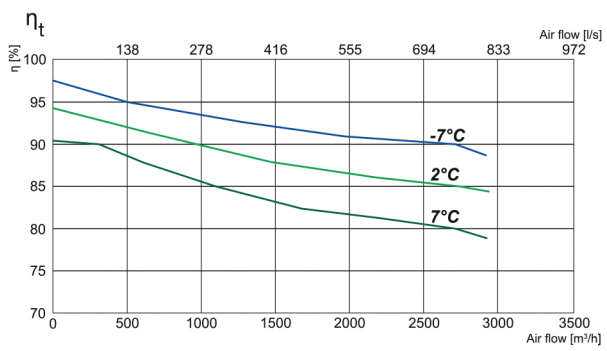


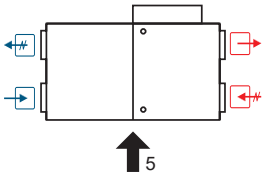


EPB values			
	Q [m³/h]	ηt,epb [%]	Pelec,epb [W]
HRS-FE 700	442	79	164
HRS-FE 2500	1580	79	295

Technical data						
			HRS-FE 700	HRS-FE 1200	HRS-FE 1900	HRS-FE 2500
Main power supply		[50Hz/VAC]	1 x 230	1 x 230	1 x 230	3 x 400
Heating battery	Electrical power	[kW]	1,2	3	3	4,5
EC Fans	Power supply	[50Hz/VAC]	1 x 230	1 x 230	1 x 230	1 x 230
Extract fan	Power/current	[kW/A]	0,17/1,4	0,38/2,5	0,47/2,04	0,72/3,1
Extract fan	Fan speed	[rpm]	3230	3370	2530	2800
Supply fan	Power/current	[kW/A]	0,17/1,4	0,38/2,5	0,47/2,04	0,72/3,1
Supply fan	Fan speed	[rpm]	3230	3370	2530	2800
Max. electrical power		[kW/A]	1,54/8,34	3,76/18	3,94/17,08	5,93/12,7
Automatic defrost			integrated	integrated	integrated	integrated
Filterclass	Extraction		M5	M5	M5	M5
Filterclass	Supply		F7	F7	F7	F7
Thermal insulation		[mm]	30	50	50	50
Working temperature between -5°C and +40°C to maintain balanced air volumes Only suitable for indoor installation						
			HRS-FW 700	HRS-FW 1200	HRS-FW 1900	HRS-FW 2500
Main power supply		[50Hz/VAC]	1 x 230	1 x 230	1 x 230	1 x 230
EC Fans	Power supply	[50Hz/VAC]	1 x 230	1 x 230	1 x 230	1 x 230
Extract fan	Power/current	[kW/A]	0,17/1,4	0,38/2,5	0,47/2,04	0,72/3,1
Extract fan	Fan speed	[rpm]	3230	3370	2530	2800
Supply fan	Power/current	[kW/A]	0,17/1,4	0,38/2,5	0,47/2,04	0,72/3,1
Supply fan	Fan speed	[rpm]	3230	3370	2530	2800
Max. electrical power		[kW/A]	0,34/2,84	0,76/5	0,94/4,08	1,43/6,2
Automatic defrost			integrated	integrated	integrated	integrated
Filterclass	Extraction		M5	M5	M5	M5
Filterclass	Supply		F7	F7	F7	F7
Thermal insulation		[mm]	30	50	50	50
Working temperature between -5°C and +40°C to maintain balanced air volumes Only suitable for indoor installation						

Configurations

HRS-FE/HRS-FW 700-2500

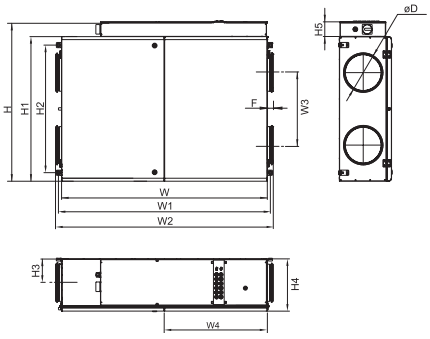


View from inspection side

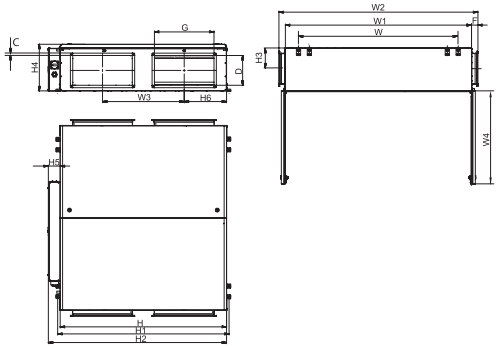
1. Exhaust air
2. Extract air
3. Fresh air
4. Supply air

Product drawing horizontal configuration

HRS-FE/HRS-FW 700



HRS-FE/HRS-FW 1200-2500



Dimensions	W [mm]	W1 [mm]	W2 [mm]	W3 [mm]	W4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	F [mm]	C [mm]	øD [mm]	G [mm]	D [mm]	[kg]
HRS-FE / HRS-FW 700	1380	1422	1462	486	485	1070	970	856	160	350	100	-	40	-	250	-	-	75/72
HRS-FE / HRS-FW 1200	1320	1550	1650	686	699	1400	1440	1500	172	390	100	-	50	20	-	500	250	167/165
HRS-FE / HRS-FW 1900	524	1750	1870	861	468	1850	1900	1955	195	400	105	495	60	20	-	700	300	254
HRS-FE / HRS-FW 2500	588	1850	1970	961	480	1950	2000	2055	255	500	105	-	60	20	-	700	400	303

Sound values								
HRS-F 700	Lwa total.	Lwa, dB						
	dB(A)	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	72	75	75	66	65	64	62	63
Extraction	61	67	68	54	51	46	38	35
Surrounding	48	53	51	47	36	33	31	36
650 m³/h - 100 Pa								
HRS-F 1200	Lwa total.	Lwa, dB						
	dB(A)	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	77	77	77	69	71	70	67	70
Extraction	66	71	73	59	58	53	45	44
Surrounding	51	55	53	50	42	39	36	43
1200 m³/h - 100 Pa								
HRS-F 1900	Lwa total.	Lwa, dB						
	dB(A)	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	75	79	79	69	68	66	64	64
Extraction	65	70	73	58	54	48	41	38
Surrounding	51	57	55	50	39	35	33	37
1800 m³/h - 100 Pa								
HRS-F 2500	Lwa total.	Lwa, dB						
	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
Extraction	69	56	60	64	63	60	58	41
Surrounding	62	46	54	56	57	54	50	45
2548 m³/h - 102 Pa								
Lwa = Sound power level								