L.C.I. HVAC

HEAT RECOVERY

MOD. ARR

HORIZONTAL HEAT RECOVERY

CHARACTERISTICS

-General description: exchanger of cross flow

Heat recovery units are appropriate to residential and commercial applications, offer a remarkable saving in forced ventilation plants, through the use of a cross flow exchanger made of aluminum. They are able to transfer more than a 50% of heat that otherwise it would be lost with the direct air expulsion. These units could be integrated with the traditional heating and refrigeration systems, so it could operate in both summer and winter. The series consist of 9 models with airflow of 500 and 6000m3/h, specially made for the installation in false ceiling and also they can be properly channeled allowing the direct aspiration and return to the room.

-Envelope structure: is formed by aluminum extruded profiles with polyamide corners which give a great resistance and a high sealing. Panels are sandwich type insulated with rock wool density 40 kg/m3 M1 CLASS average thickness 25mm. Condensate collection tray made of stainless steel. Reclaimers plates vary depending on efficiency and RITE. Ear dual centrifugal fans, single phase and three phase motors ERP2013/2015 directly coupled. Corrugated reclaimers plates with high efficiency and versatile mounting which allow configuration on site, exchanging panels and creating great possibilities.

-Technology: High efficiency plate heat exchanger of cross flow that guarantees maximum reliability and safe operation, EUROVENT certified. Exchange is performed by hermetically sealed aluminum plates, avoiding contact between the two airflows. This optimized plate design allows reach values higher than 50% recovery. Filters of high efficiency according to RITE with 48mm thick depends on the air quality required (F6, F7 and F8) integrated within the plant, easily removable.

-Integrated control TZADA: Integrated relay board for speed mode depending on model and available free tension contact in order to remote ON/OFF.

-Options:

1.1 Control: If requested, it can be perform any type of control, thermostatic, depending on pressure/ constant flow rate, CO2 particles, etc. (Consult).

1.2 Finished: roof weatherproof for outdoor use under cover.

1.3 Accessories:

- -By-pass damper for recirculation
- -Battery water
- -Anti birds and rain visors.

1.4 Disposal: upright.

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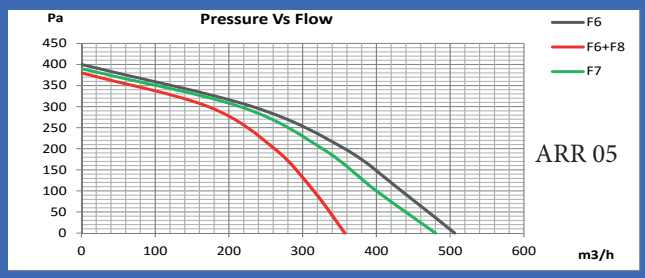
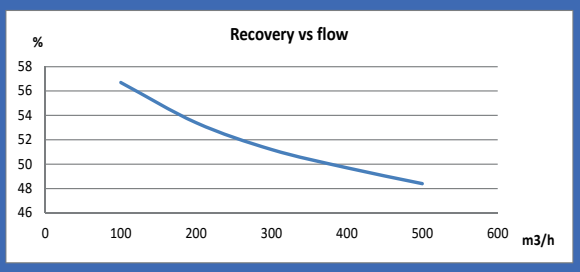
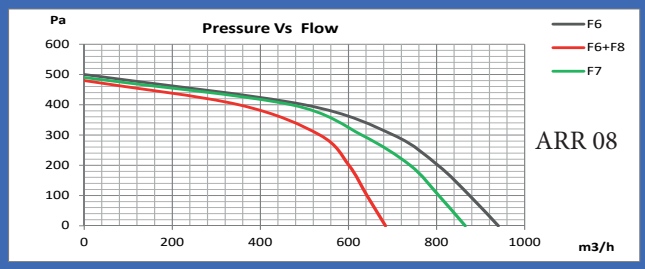
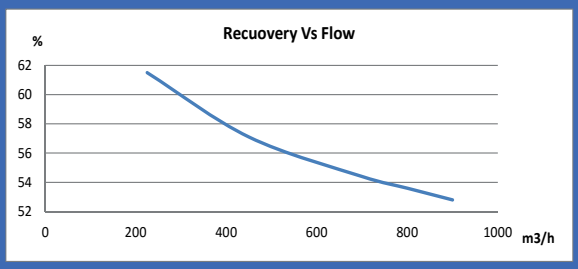
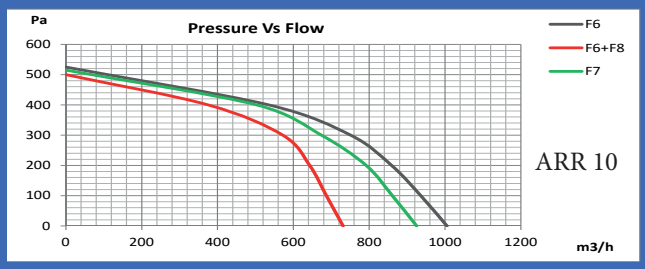
DATA SHEET

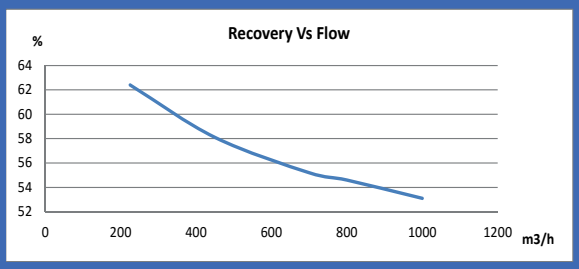


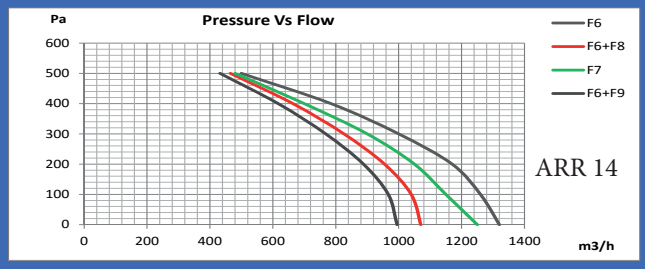


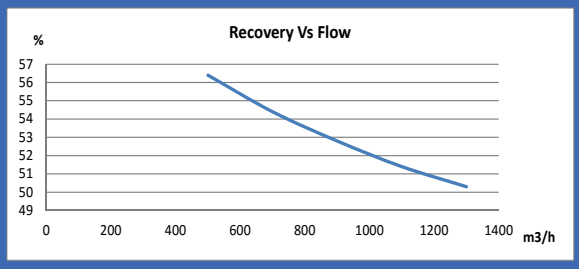


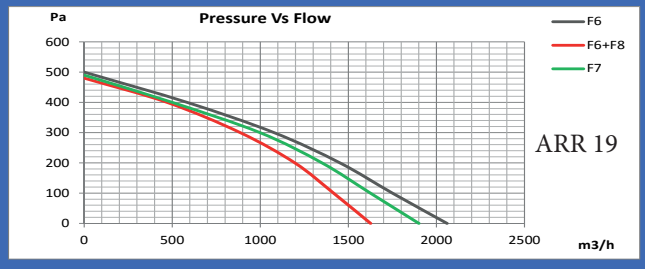


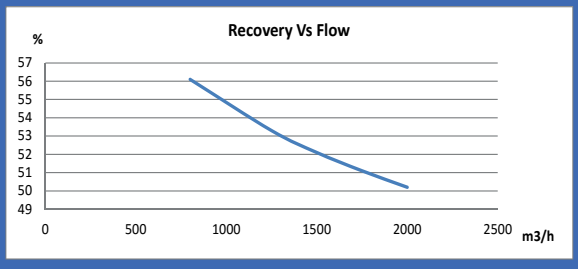


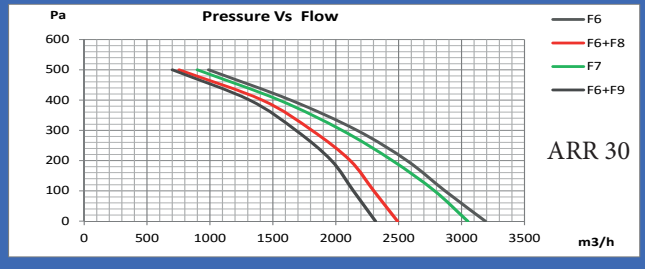


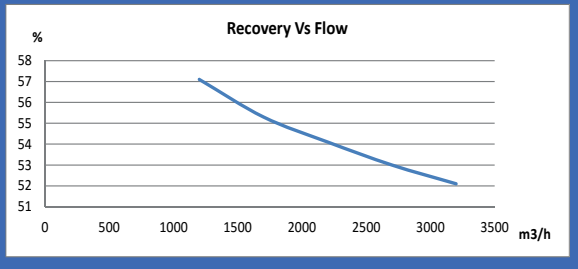












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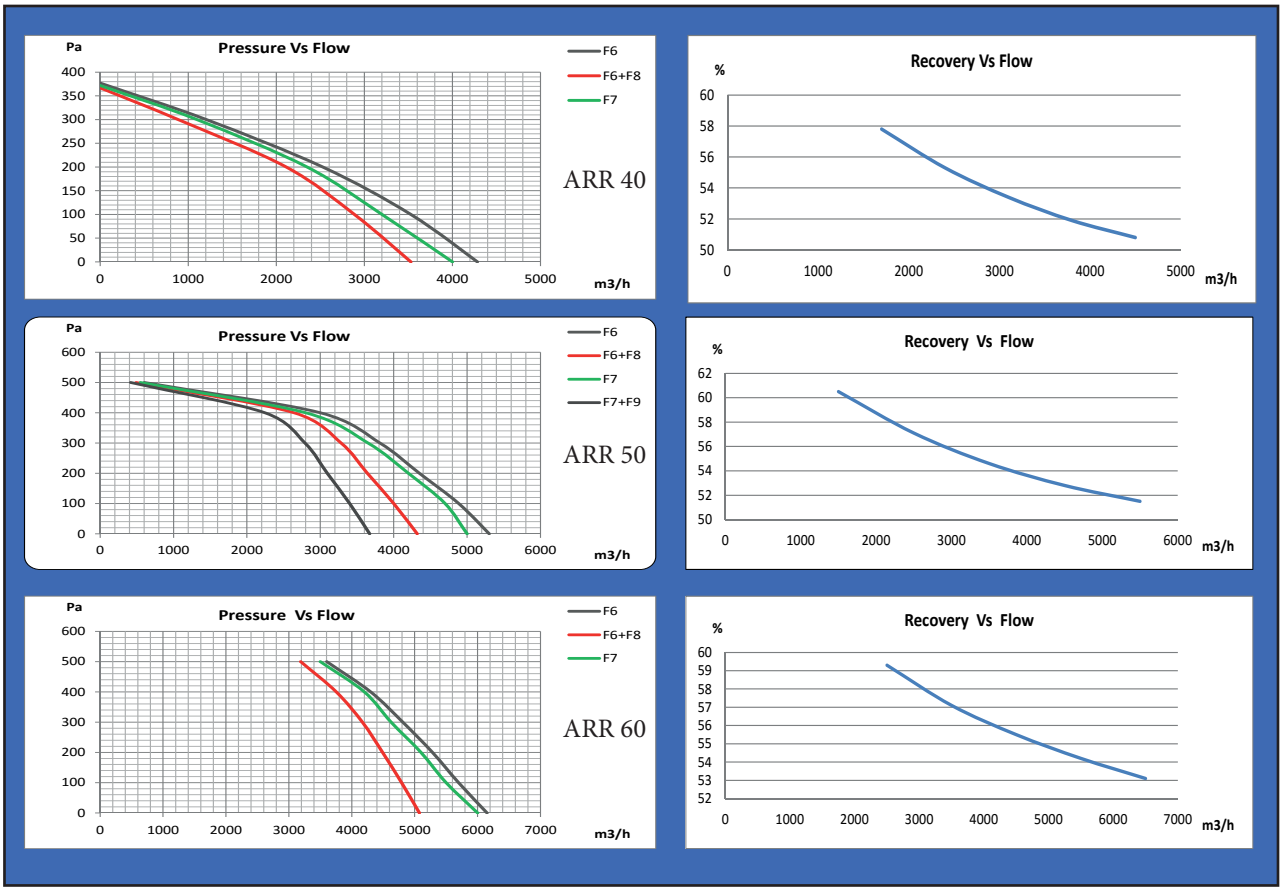
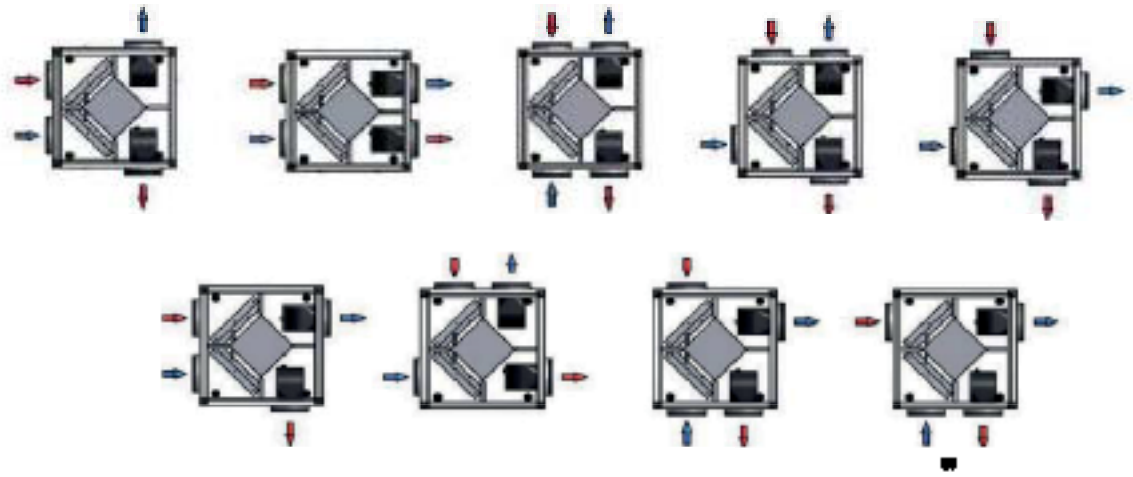
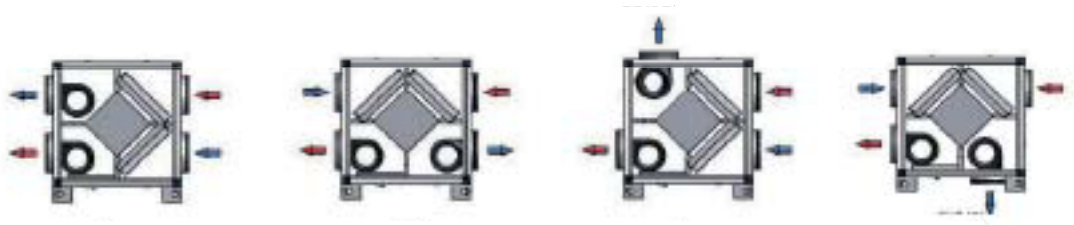




Front view



CHARACTERISTIC HEAT RECOVERY

SINGLE PHASE/TRIPHASIC 50 HZ

Single-Phase power models 1x 230v 50Hz

Model		ARR05	ARR08	ARR10	ARR14	ARR19	ARR30
Nominal airflow	Speed	500	800	1000	1400	1900	3000
Fan type	Mod.	HR93	HT67	7.7	9.7	9.7	10.8
Flow to F6 filter	Max	500	930	1020	1320	2060	3200
	Med	380	790	790	1100	1400	1700
	Min	180	440	440	1000	1100	1200
Max. flow/ filtration type	F6	500	930	1020	1320	2060	3200
	F7	480	870	920	1250	1900	3040
	F6/F8	360	680	720	1070	1620	2450
Power characteristics	V/F/Hz	220-240 / 1 / 50					
	Max. I (amp)	0.66	1.55	3.20	3.20	4.70	4.70

External pressure db(A)	1 mt	51	52	58	59	62	64
	Retor	60	62	69	69	62	68
	Impul	63	64	72	72	64	69

recuperator	Type	02N290	03N310	03N360	03N360	3N480	05N580
	Output %	49.6	52.6	53	51.9	50.5	52.5
	Temperature ºC	9.3	9.6	10.3	10	9.6	10.1
	Thermal power Kw	1.85	3.38	4.44	5.21	8.03	13.2
fan	No. of poles	4	4	4	4	4	4
	No. of revolutions	3	3	3	3	3	3
	Consumption w	2X150	2X355	2X355	2X480	2X555	2X555
	No. of fans	2	2	2	2	2	2
	Transmission	DIRECT					

Tree-Phase power models 3x 400v 50Hz

Model		ARR40	ARR50	ARR60
Nominal airflow	m3/h	4000	5000	6000
Fan type	Mod.	10.10	12.9	12.12
Max. flow for F6 filter	Max.	4300	5300	6180
Max. flow depending on filtration type	F6	4300	5300	6180
	F7	4000	5000	6000
	F6/F8	3800	4300	5080
Power characteristics	V/F/Hz	380-400/3/50		
	I.MAX (amp)	2.55	3.75	3.75

External pressure dB(A)	1 mt	64	66	65
	Retor.	69	72	71
	Impul.	69	70	72

recuperator	Type		06A600	06A800	07N795
	Output	%	51.5	52	54.8
	Temperature	ºC	9.9	10	10.7
	Thermal power	Kw	17.2	21.8	22.9
fan	No. of poles		4	4	4
	No. of revolutions		1	1	1
	Consumption	w	2X735	2X1500	2X1500
	No. of fans		2	2	2
	Transmission		DIRECT		

Aprox. weight	Kg	167	186	206

(*) Imput air temperature -3ºC with and 80% of humidity.Output air temperature 22º C humidity 50%

DIMENSIONS / PRICE LIST

MOD. ARR

Model		ARR05	ARR08	ARR10	ARR14	ARR19	ARR30	ARR40	ARR50	ARR60
A	mm	640	850	900	1050	1050	1270	1350	1350	1500
B	mm	640	850	900	1050	1050	1270	1250	1350	1500
C	mm	345	360	430	470	535	630	685	855	855
D	Diam. mm	200	250	315	315	355	400	450	450	450
E	mm	290	295	420	495	495	605	695	720	735
F	mm	175	227	420	277	277	332	327	315	380
condensate	inch	3 /4"	3 /4"	3 /4"	3 /4"	3 /4"	3 /4"	3 /4"	3 / 4"	3 / 4"

Retail rate

Heat recovery	Flow (m3/h)	Filter type (ret/imp)	
		F7 / F7	F6 /F6+F8
ARR05	500	987,00€	1.007,00€
ARR08	800	1.189,00€	1.207,00€
ARR10	1000	1.407,00€	1.442,00€
ARR14	1400	1.445,00€	1.480,00€
ARR19	1900	1.503,00€	1.535,00€
ARR30	3000	1.933,00€	1.972,00€
ARR40	4000	2.344,00€	2.393,00€
ARR50	5000	2.853,00€	2.911,00€
ARR60	6000	3.231,00€	3.320,00€