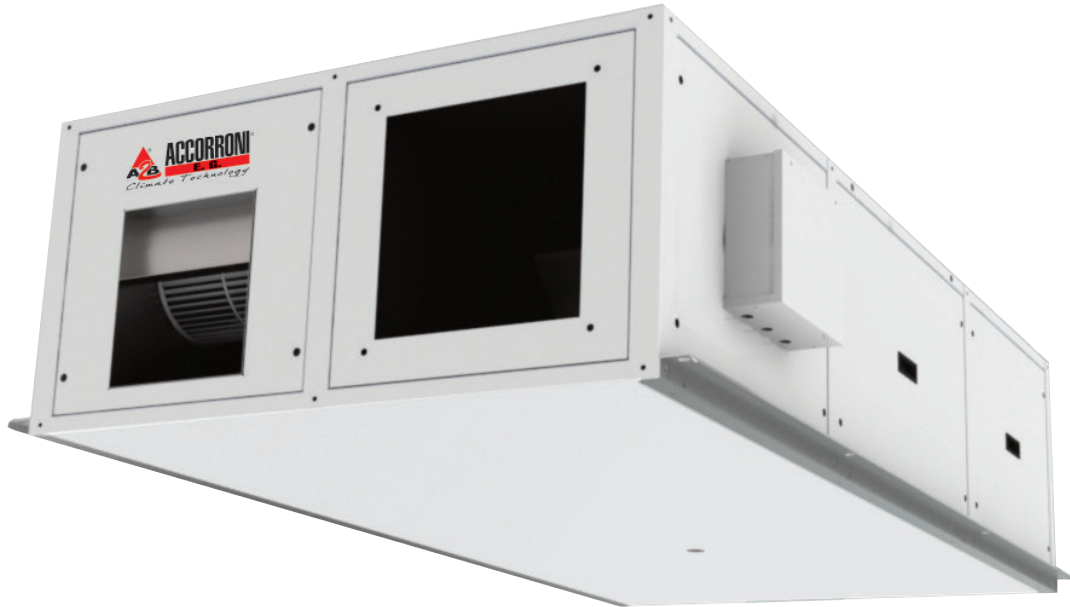


A_CFR+ A_CFRE+

Horizontal heat recovery unit with counter-current static aluminum heat exchanger



A_CFR + / A_CFRE+

Model	Air flow m ³ /h	Winter efficiency %	Summer efficiency %	Code	€
A_CFR+ 40	400	81,8	76,5	75800301	2.930,00
A_CFR+ 75	750	86,8	80,0	75800302	4.140,00
A_CFR+ 100	1000	85,3	77,9	75800303	4.370,00
A_CFR+ 150	1600	81,8	75,4	75800304	4.820,00
A_CFR+ 200	2050	82,3	76,5	75800305	5.930,00
A_CFR+ 320	3150	80,8	75,5	75800306	6.390,00
A_CFR+ 400	3750	81,0	76,3	75800307	7.280,00
A_CFR+ 500	4700	81,1	76,2	75800308	8.440,00

A_CFR+ A_CFRE+

Horizontal heat recovery unit with counter-current static aluminum heat exchanger

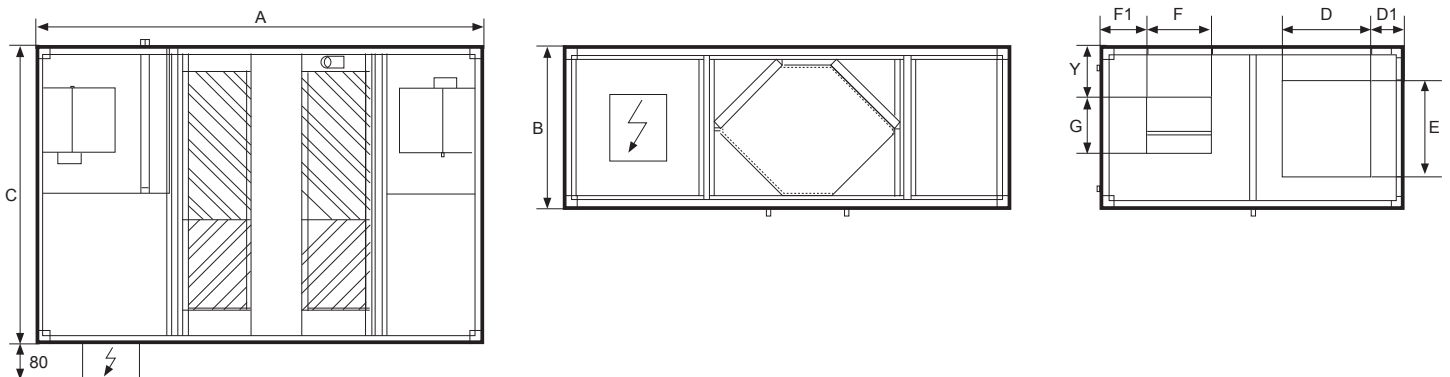
Model	Air flow m ³ /h	Winter efficiency %	Summer efficiency %	Code	€
A_CFRE+ 40	400	81,8	76,5	75801301	3.970,00
A_CFRE+ 75	750	86,8	80,0	75801302	5.530,00
A_CFRE+ 100	1000	85,3	77,9	75801303	5.780,00
A_CFRE+ 150	1600	81,8	75,4	75801304	6.480,00
A_CFRE+ 200	2050	82,3	75,5	75801305	7.460,00
A_CFRE+ 320	3150	80,8	75,5	75801306	8.240,00
A_CFRE+ 400	3750	81,0	76,3	75801307	9.500,00
A_CFRE+ 500	4700	81,1	76,2	75801308	10.340,00

Available guidelines



Note: the orientation shown is relative to the machine seen from above

Dimensions and model weights A_CFR+ A_CFRE+



Model	Dimensions										weights Kg
	A mm	B mm	C mm	D mm	D1 mm	E mm	F mm	G mm	G1* Ø gas	Y mm	
40	1480	380	800	200	110	210	230	70	3/4"	115	90
75	1940	480	990	300	100	310	230	210	3/4"	160	140
100	1940	480	990	300	100	310	230	260	3/4"	160	150
150	2200	550	1000	300	100	410	230	260	3/4"	90	170
200	2200	550	1400	500	100	410	300	260	3/4"	90	200
320	2500	680	1290	400	130	510	330	290	3/4"	115	210
400	2500	680	1400	500	100	510	330	290	1"	115	240
500	2500	680	1700	500	185	510	330	290	1"	115	270

* Post-heating water battery connections (optional)

A_CFR+ A_CFRE+

Horizontal heat recovery unit with counter-current static aluminum heat exchanger

Accessories A_CFR + A_CFRE +

Model		40	75	100	150	200	320	400	500
Post-heating electrical resistance	kW	1,5	3,0	3,0	6,0	6,0	12,0	12,0	18,0
	Code	75800321	75800322	75800322	75800323	75800323	75800326	75800326	75800328
	€	580,00	642,00	642,00	812,00	812,00	1.176,00	1.176,00	1.528,00
Internal water post-heating battery	kW	3,3	6,5	7,8	10,7	14,8	20,5	23,7	30,4
	Code	75800331	75800332	75800333	75800334	75800335	75800336	75800337	75800338
	€	350,00	428,00	428,00	492,00	582,00	626,00	756,00	828,00
Section with water coil from hot / cold channel	Code	75800341	75800342	75800343	75800344	75800345	75800346	75800347	75800348
	€	714,00	938,00	938,00	1.042,00	1.198,00	1.234,00	1.268,00	1.554,00
High efficiency filter in F7 expulsion	Code	75800351	75800352	75800353	75800354	75800355	75800356	75800357	75800358
	€	74,00	128,00	128,00	144,00	176,00	192,00	210,00	224,00
Automatic by-pass free cooling kit	Code	75800361	75800361	75800361	75800361	75800361	75800361	75800361	75800361
	€	342,00	342,00	342,00	342,00	342,00	342,00	342,00	342,00
Antifreeze thermostat	Code	75800362	75800362	75800362	75800362	75800362	75800362	75800362	75800362
	€	168,00	168,00	168,00	168,00	168,00	168,00	168,00	168,00
Kit n. 4 circular attacks	Code	75800371	75800372	75800373	75800374	75800375	75800376	75800377	75800378
	€	192,00	242,00	278,00	324,00	348,00	366,00	402,00	418,00
Channel silencers	Code	75800381	75800382	75800382	75800384	75800385	75800386	75800387	75800388
	€	448,00	828,00	828,00	866,00	904,00	972,00	1.068,00	1.250,00
Signal lamps kit	Code	75800363	75800363	75800363	75800363	75800363	75800363	75800363	75800363
	€	290,00	290,00	290,00	290,00	290,00	290,00	290,00	290,00
Pressure switch for dirty filter signaling	Code	75800364	75800364	75800364	75800364	75800364	75800364	75800364	75800364
	€	162,00	162,00	162,00	162,00	162,00	162,00	162,00	162,00
Bioxigen® sanitization system	Code	75800391	75800392	75800392	75800394	75800395	75800396	75800397	75800397
	€	592,00	650,00	650,00	792,00	1.170,00	1.238,00	1.432,00	1.432,00
2-way valve kit for internal battery	Code	75800365	75800365	75800365	75800365	75800365	75800365	75800365	75801365
	€	280,00	280,00	280,00	280,00	280,00	280,00	280,00	450,00
2-way valve kit for channel battery	Code	75800366	75800366	75800366	75800366	75800366	75801366	75801366	75802366
	€	276,00	276,00	276,00	276,00	276,00	284,00	284,00	450,00
Integral wall management system	Code	75800451	75800451	75800453	75800453	75800455	75800455	75800457	75800458
	€	1.358,00	1.358,00	1.520,00	1.520,00	1.614,00	1.614,00	1.700,00	1.840,00
Speed electronic selector A_CFR +	Code	-	75800367	75800367	75800367	75800367	75800367	75800367	75800367
	€	-	40,00	40,00	40,00	40,00	40,00	40,00	40,00
Inverter A_CFR+	Code	75800368	-	-	-	-	-	-	-
	€	134,00	-	-	-	-	-	-	-
Inverter	Code	-	-	-	-	-	-	75800461	75800461
	€	-	-	-	-	-	-	1.732,00	1.732,00
Unit control panel A_CFR +	Code	75800369	75800369	75800369	75800369	75800369	75800369	75800369	75800369
	€	188,00	188,00	188,00	188,00	188,00	188,00	188,00	188,00
Unit control panel A_CFRE+	Code	75800461	75800461	75800461	75800461	75800461	75800461	75800461	75800461
	€	210,00	210,00	210,00	210,00	210,00	210,00	210,00	210,00
Remote user terminal	Code	75800371	75800371	75800371	75800371	75800371	75800371	75800371	75800371
	€	420,00	420,00	420,00	420,00	420,00	420,00	420,00	420,00
MODBUS serial card	Code	75800380	75800380	75800380	75800380	75800380	75800380	75800380	75800380
	€	240,00	240,00	240,00	240,00	240,00	240,00	240,00	240,00
CO2 sensor from channel A_CFRE +	Code	75801382	75800382	75800382	75800382	75800382	75800382	75800382	75800382
	€	812,00	812,00	812,00	812,00	812,00	812,00	812,00	812,00
Outdoor installation kit	Code	75801391	75801392	75801393	75801394	75801395	75801396	75801397	75801399
	€	672,00	744,00	744,00	780,00	824,00	866,00	908,00	956,00
Outdoor headphones kit	Code	75800471	75800472	75800473	75800474	75800475	75800476	75800477	75800478
	€	82,00	94,00	94,00	102,00	112,00	112,00	124,00	124,00

A_CFR+ A_CFRE+

Horizontal heat recovery unit with counter-current static aluminum heat exchanger

Post-heating electrical resistance

The electric filament resistor is installed inside the machine and is complete with safety thermostat and control relay

Model	U.M.	40	75	100	150	200	320	400	500
Nominal power	V	1,5	3,0	3,0	6,0	6,0	12,0	12,0	18,0
Voltage	W	230	230	230	400	400	400	400	400
Phases	n.	1	1	1	3	3	3	3	3
Stadiums	n.	1	1	1	1	1	1	1	1
Absorption	A	6,5	13,0	4,3	8,65	8,65	17,3	17,3	26,0
Air outlet temperature	°C	26,0	26,7	23,8	26,0	23,6	26,2	24,5	26,2
Weight	Kg	1,5	1,5	2,5	2,5	2,5	5,0	5,0	8,0

Internal water post-heating battery

Hydronic battery fixed directly inside the unit at the outlet of the cross-flow recuperator

Model	U.M.	40	75	100	150	200	320	400	500
Thermal yield	kW	3,3	6,5	7,8	10,7	14,8	20,5	23,7	30,4
Geometry		2522	2522	2522	2522	2522	2522	2522	2522
Pipes by rank	n.	10	15	15	17	17	22	22	22
Ranks	n.	2	2	2	2	2	2	2	2
Step fins	mm	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Air outlet temperature	°C	39,0	40,1	37,8	35,7	37,1	35,0	34,7	34,9
Water flow	m³/h	0,3	0,6	0,7	0,9	1,3	1,8	2,1	2,7
Air side pressure drop	Pa	17	15	24	42	31	49	54	54
Water side pressure drop	kPa	5,0	9,4	13,1	11,7	8,7	12,2	16,9	31,0
Connection diameter		3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Weight	Kg	1,5	2,6	2,6	3,0	4,6	5,5	6,0	7,6

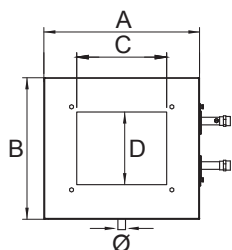
Values referred to the following conditions: water 70/60 °C - Air 15 °C

Section with hot / cold water coil

Module to be positioned outside the machine in front of the inlet, complete with stainless steel condensate collection tank

Model	U.M.	40	75	100	150	200	320	400	500
Geometry		2522	2522	2522	2522	2522	2522	2522	2522
Pipes by rank	n.	13	16	16	24	26	28	32	32
Ranks	n.	3	3	3	3	3	3	3	3
Step fins	mm	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1
Thermal power *	kW	5,1	9,5	11,8	18,6	23,9	35,5	41,6	49,2
Heating water flow rate	m³/h	0,4	0,8	1,0	1,6	2,1	3,1	3,7	4,3
Refrigeration power**	kW	2,6	5,1	6,2	9,8	13,3	18,7	22,1	25,6
Sensitive refrigerating power	kW	1,4	2,7	3,3	5,2	7,0	9,9	11,7	13,7
Cooling water flow	m³/h	0,4	0,9	1,1	1,7	2,3	3,2	3,8	4,4
Connection diameter		3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"
Weight	Kg	14	17	17	21	26	31	42	42

* Air 15 °C, Water inlet 70 °C, Water outlet 60 °C ** Air 27 °C, Water inlet 7 °C, Water outlet 12 °C Relative humidity 65%



A mm	430	500	500	620	700	700	700	750
B mm	380	480	480	550	550	680	680	680
C mm	200	300	300	290	500	400	500	500
D mm	210	310	310	310	410	510	510	510
Ø mm	22	22	22	22	22	22	22	22

A_CFR+ A_CFRE+

Horizontal heat recovery unit with counter-current static aluminum heat exchanger

Technical data table A_CFR + A_CFRE +

Model	U.M.	40	40 E	75	75 E	100	100 E	150	150 E
Nominal air flow rate	m ³ /h	400		750		1000		1600	
Useful static pressure ⁽¹⁾	Pa	100	≤ 250	100	≤ 375	100	≤ 570	100	≤ 535
Power supply		230V/1/50Hz							
Max absorbed current ⁽²⁾	A	1,5	2,0	1,8	3,2	3,7	8,2	4,0	8,2
Internal specific power ⁽³⁾	W/(mc/s)	1544	1011	1021	900	1349	1118	13333	1233
Speed number		1 ⁽⁸⁾	0÷10V	3	0÷10V	3	0÷10V	3	0÷10V
Sound pressure level ⁽⁴⁾	dB(A)	59	60	60	61	63	62	63	64
Winter efficiency ⁽⁵⁾	%	81,8		86,8		85,3		81,8	
Thermal power recovered ⁽⁵⁾	kW	2,7		5,3		6,9		10,7	
Summer efficiency ⁽⁶⁾	%	76,5		80,0		77,9		75,4	
Thermal power recovered ⁽⁶⁾	kW	0,6		1,3		1,7		2,6	
Dry efficiency ⁽⁷⁾	%	74,8		81,0		78,9		74,4	

Technical data table A_CFR+ A_CFRE+

Model	U.M.	200	200 E	320	320 E	400	400 E	500	500 E
Nominal air flow rate	m ³ /h	2050		3150		3700		4700	
Useful static pressure ⁽¹⁾	Pa	100	≤ 535	100	≤ 270	100	≤ 660	100	≤ 335
Power supply		230V/1/50Hz						400V/3/50Hz	230V/1/50Hz
Max absorbed current ⁽²⁾	A	5,1	9,0	9,4	9,0	13,0	19,0	6,6	19,0
Internal specific power ⁽³⁾	W/(mc/s)	1100	832	1725	880	1703	989	1876	1550
Speed number		3	0÷10V	3	0÷10V	3	0÷10V	INV ⁽⁹⁾	0÷10V
Sound pressure level ⁽⁴⁾	dB(A)	63	62	69	68	69	68	72	69
Winter efficiency ⁽⁵⁾	%	82,3		80,8		81,0		81,1	
Thermal power recovered ⁽⁵⁾	kW	13,9		20,7		24,4		31,0	
Summer efficiency ⁽⁶⁾	%	76,5		75,5		76,3		76,2	
Thermal power recovered ⁽⁶⁾	kW	3,3		5,0		6,0		7,2	
Dry efficiency ⁽⁷⁾	%	76,3		73,6		78,4		75,2	

(1) Values referred to the nominal air flow rate won the recuperator and the F7 standard filters

(2) Maximum total value of the 2 fans

(3) At nominal conditions according to EU regulation n.1253 / 2014 and referred to the nominal flow and useful static pressure of 100 Pa

(4) Sound pressure level: values referred to 1.0 meters from the suction of the machine in free field to the nominal value flow

(5) Nominal winter conditions: outdoor air: -5 °C b.d., h.r. 80% - ambient air: 20 °C b.d., h.r. 50%

(6) Summer nominal conditions: outdoor air: 32 °C b.d., h.r. 50% ambient air: 26 °C b.d., h.r. 50%

(7) Dry nominal conditions, measured according to EN308 with balanced mass flow: outdoor air: 5 °C b.d. ambient air: 25 °C b.d.

(8) Variable speed with the installation of the electronic speed regulator accessory (regulation range 40% - 100%)

(9) FUJI Inverter mod. FRN 4 AR1 L-4E