AIR SOURCE HEAT PUMP UNIT

FS-L FS-L-R 60~420



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Outdoor installation
Cooling capacity from 66 to 462 KW
Heating capacity from 68 to 476 KW

Characteristics

Modular design
Easy water connection
Compact design to save footprint

Available configurations

FS-L/FS-L-R 60 R(XX)% FC ST A 2
(1) (2) (3) (4) (5) (6)

(1) Type:
FS-L Cooling type
FS-L-R Heat pump type

(2) Heat Recovery:
XX Percentage of recovery

(3) Free-Cooling:
FC Free-Cooling type

(4) Version:
ST Standard
EN Low noise type

(5) Version:
A R22
B R407C
C R134a
D R410A
E Other refrigerants

(6) Power Supply:
2 380/3/50
4 460/3/60
6 Other power supply

Applications

arts and crafts | industry | commerce | workshop | agriculture | domestic use

Functions and features

Heating-Cooling | Air cooled | Outdoor inst. | Refrig. R-407C | Refrig. R-134a | Refrig. R-410A | Refrig. R-22 | Herm. Scroll | Free-Cooling | Thermodynamic Heat Recovery

Optional

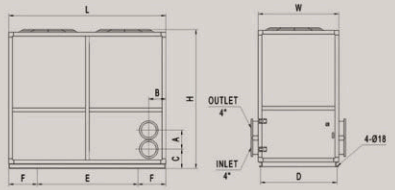
Copper fins
Plate type heat exchanger
Stainless steel panel casing
Coated steel panel
Electric water heater
Free-Cooling
Heat recovery
Water pump

Technical data

Model	FS-L-R	Size	60	120	180	240	300	360	420
General	Cooling capacity	KW	66	132	198	264	330	396	462
	Power input	KW	22.5	45	67.5	90	112.5	135	157.5
	Heating capacity	KW	68	136	204	272	340	408	476
	Power input	KW	21.5	43	64.5	86	107.5	129	150.5
	Power regulation stage				(50-100)/n(n: Number of modular)				
Compressor	Nr.		2	4	6	8	10	12	14
	Type					Scroll			
	Oil					P.O.E.			
	Oil volume	L	8	16	24	32	40	48	56
Fan	Type					Axial			
	Nr.		2	4	6	8	10	12	14
	Power input	KW	1.1	2.2	3.3	4.4	5.5	6.6	7.7
	Air flow	m^3/h	18000	36000	54000	72000	90000	108000	126000
Coil	Type					Fin coil			
	Material					Al/Cu			
Evaporator	Type					Tube in tube			
	Water flow	m^3/h	11	23	34	45	57	68	80
	Inlet/outlet nozzle	DN				100			
	Resistance	KPa				50			
Refrigerant	Nr. of circuits		2	4	6	8	10	12	14
	Type					407C			
	Weight	kg	18	36	54	72	90	108	126
Power supply						380V/3P/50Hz			
Noise		dB(A)	66	68	69	70	71	71.5	72
Weight		kg	850	1700	2550	3400	4250	5100	5950

Note:
Cooling rated condition: water inlet/outlet temperature12°C/7°C,ambient temperature35°C.
Heating rated condition: water inlet/outlet temperature 40°C/45°,Cambient temperature 7°C(DB)/6°C(WB).
Noise measured at 1m in open field.

Dimensions



Size	L	W	H	A	B	C	D	E	F
60	2110	1080	1900	260	240	220	1025	1600	255
120	2110	1080x2+345x1	1900	260	240	220	1025	1600	255
180	2110	1080x3+345x2	1900	260	240	220	1025	1600	255
240	2110	1080x4+345x3	1900	260	240	220	1025	1600	255
300	2110	1080x5+345x4	1900	260	240	220	1025	1600	255
360	2110	1080x6+345x5	1900	260	240	220	1025	1600	255
420	2110	1080x7+345x6	1900	260	240	220	1025	1600	255

Note:
345 is the length of the soft connection between the modular units.