

AIR SOURCE HEAT PUMP UNIT

FS-L FS-L-R 60-420



AIR SOURCE HEAT PUMP UNIT

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
	Type		Axial						
Fan	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

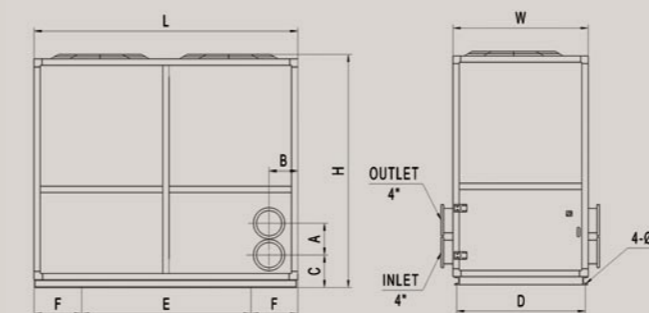
Note:

Cooling rated condition: water inlet/outlet temperature 12°C/7°C, ambient temperature 35°C.

Heating rated condition: water inlet/outlet temperature 40°C/45°C, ambient 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.