

# LOW AMBIENT TEMPERATURE HEAT PUMP



- Optional
- Copper fins
- Heat recovery
- Plate type heat exchanger

## Technical data

Model	Size	8	13	23	30	36	46	60	120	180	
General	Cooling capacity	KW	6.88	11.8	22	28	33	44	56	112	168
	Power input	KW	2.58	4.61	7.6	9.2	11.1	15.2	18.4	36.8	55.2
	Heating capacity (ambient 7/6°C)	KW	9.05	14.4	24	31	36	49	62	124	186
	Power input	KW	2.75	4.74	7.2	8.7	10.5	14.3	17.4	34.8	52.2
	Heating capacity (ambient 5/-6°C)	KW	6.95	11.4	19	24	28	37	48	96	144
	Power input	KW	2.87	4.45	6.8	8.2	9.9	13.5	16.4	32.8	49.2
	Heating capacity (ambient 10/-11°C)	KW	6.33	10.6	17	22	25	33.6	43	86	129
	Power input	KW	2.6	4.41	6.7	8.1	9.8	13.4	16.3	32.6	48.9
	Heating capacity (ambient 15/-16°C)	KW	5.45	9.6	14	18	22	29	37	74	111
	Power input	KW	2.55	4.54	6.6	8	9.6	13.1	15.9	31.8	47.7
	Power regulation stage	%	100	100	100	100	50-100	50-100	50-100	25-50-75-100	16.6+16.6 Increase
	Compressor	Nr.	1	1	1	1	2	2	2	4	6
Type		Scroll									
Oil		P.O.E.									
Fan	Oil volume	L	1.7	1.7	2.8	2.8	2.8	5.6	5.6	11.2	16.8
	Type	Axial									
Condenser	Nr.	1	1	1	1	1	2	2	4	6	
	Material	Fin coil Al/Cu Co-axial									
Evaporator	Water flow	m <sup>3</sup> /h	1.2	2.1	3.8	4.9	5.7	7.8	9.7	19.4	29.1
	Inlet/outlet nozzle	DN	32	32	40	40	40	50	100	100	100
	Resistance	KPa	20	25	30	44	44	35	45	46	48
Refrigerant	Nr. of circuits	1	1	1	1	2	2	2	4	6	
	Type	R407C									
	Weight	kg	3	5	9	12	14	18	24	48	72
Power supply	Weight	kg	230	270	310	360	460	560	850	1700	2550
	Noise	dB(A)	55	56	58	63	63	64	64	65	66

Note:  
 Nominal cooling condition: ambient 35°C, inlet water temperature 12°C, outlet 7°C.  
 Nominal heating condition: inlet water temperature 40°C/nominal cooling flow.  
 Noise measured at 1m in open field.  
 The minimum ambient temperature in heating mode: -15~-20°C.  
 The maximum ambient temperature: +46~+52°C.  
 Model above 60 adopts modular design.

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Outdoor installation

Capacity from 9.05 to 186 KW

### Characteristics

Special scroll compressor with economizer

High COP, COP can reach 2.3 in -15°C ambient temperature

Heating operation in the lowest ambient temperature -20°C

Temperature compensation

### Available configurations

FSLRDM 8 A 2

(1) (2)

(1) Refrigerants:

A R22

B R407C

C Other refrigerants

(2) Power Supply:

2 380/3/50

4 460/3/60

6 Other power supply

### Applications

Heating operation in low ambient temperature regions

### Functions and features



Heating/Cooling



Air cooled



Outdoor Inst.



Refig. R407C



Refig. R22



Heat. Scroll