

WATER SOURCE HEAT PUMP UNIT

CDWC 31~968



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Indoor installation

Cooling capacity from 9.8 to 323.2 kW

Heating capacity from 10.6 to 332.8 kW

Characteristics

- Low noise
- Anti-corrosive panel
- Compact design

Available configurations

CDWC 3 1 F S A 1
(1) (2) (3) (4) (5)

(1) Number of refrigeration cycles

(2) Version1:

F Heat running by circulate system of 4-way system

W Heat running by water changer

(3) Version2:

S Standard

R Heat recovery type

T Specially made by customer request

(4) Refrigerants:

A R22

B R407C

C R134a

D R410A

E Other refrigerants

(5) Power Supply:

1 220/1/50

2 380/3/50

3 230/1/60

4 460/3/60

5 220/3/60

6 Other power supply

Applications



arts and crafts industry commerce workshop agriculture domestic use

Functions and features



Heating-Cooling Water cooled Indoor inst. Refrig. R-407C Refrig. R-134a Refrig. R-410A Refrig. R-22 Herm. Scroll Thermodynamic Heat Recovery

Optional

Total and partial heat recovery

Copper/nickel heat exchanger or Titanium tube heat exchanger

Plate type heat exchanger

Co-axial heat exchanger

Brine water chiller (between +4 and -7°C, using glycol solution)

Pump set and hydraulic box

Technical data

Model	CDWC	Size	31	41	51	61	71	81	91	101	121	122	162	202	242	303	363	404	484	605	726	847	968	
General	Cooling capacity	KW	9.8	12.3	16.2	18.1	22	24.8	27.9	32.1	40.4	36.2	49.6	64.2	80.8	96.3	121.2	128.4	161.6	202	242.4	282.8	323.2	
	Power input	KW	2.1	2.5	3.6	3.7	4.8	5.5	5.9	7.0	8.1	8.0	10.8	14.1	16.3	20.4	25.9	26.6	33.9	41.8	53.1	57.7	66.4	
	Heating capacity	KW	10.6	13.1	17.2	19.2	23.1	25.9	29.5	33.5	41.6	38.4	51.8	67.0	83.2	100.5	124.8	134.0	166.4	208.0	249.6	291.2	332.8	
	Power input	KW	2.1	2.5	3.3	3.8	4.5	5.0	5.7	6.4	7.9	7.5	10.3	12.7	16.1	19.1	24.6	25.9	32.1	40.0	49.1	55.7	64.2	
Power regulation stage	%					100						50-100			33-66-100			25-50-75-100	20-40-60	16.7-33-50	14.2-14.2	12.5-12.5		
Compressor	Nr.		1	1	1	1	1	1	1	1	2	2	2	2	3	3	4	4	5	6	7	8		
	Type		Scroll																					
	Oil		P.O.E.																					
Evaporator	Oil volume	L	1	1.5	2	2.3	2.5	3	3.2	3.5	3.8	4.6	6	7	7.6	10.5	11.4	14	15.2	19	22.8	26.6	30.4	
	Type		Tube in tube																					
	Water flow	m ³ /h	1.7	2.1	2.8	3.1	3.8	4.3	4.8	5.5	7	6.2	8.5	11	13.9	16.6	20.8	22.1	27.8	35	42	49	56	
Condenser	Inlet /outlet nozzle	DN	25	25	32	32	40	40	40	40	64	50	50	50	65	64	65	65	80	80	100	100		
	Max water pressure	MPa	1																					
	Resistance	KPa	9	10	10	10	9	10	10	10	12	12	12	10	11	11	12	11	11	12	12	12	12	
Refrigerant	Type		R407C																					
	Weight	kg	1.3	1.5	1.7	1.9	2.2	2.3	2.4	2.8	3.2	3.8	4.6	5.6	6.4	8.4	9.6	11.2	12.8	16	19.2	22.4	25.6	
	Power supply		220V/1P/50Hz										380V/3P/50Hz											
Noise			50	52	53	55	57	59	60	61	61	62	63	65	66	66	68	70	72	73	73	73	5	76
	Weight	kg	150	151	154	155	198	220	249	235	260	210	280	298	320	462	480	616	640	780	940	1100	1260	

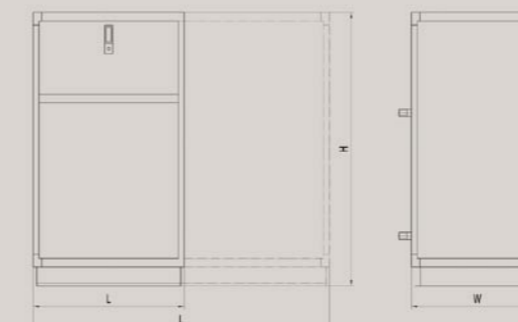
Note:

Cooling working condition: evaporator water inlet/ outlet temperature 12/7°C, condenser water inlet/ outlet temperature 30/35°C.

Heating working condition: condenser water inlet/ outlet temperature 40/45°C, evaporator water inlet/ outlet temperature 15/10°C.

Noise measured at 1m in open field.

Dimensions



Size	31	41	51	61	71	81	91	101	121	122	162
L	670	670	650	650	650	850	850	850	850	850	850
W	450	450	500	500	650	650	650	650	650	650	650
H	1000	1000	1100	1100	1100	1100	1100	1100	1100	1100	1100

Size	202	242	303	363	404	484	605	726	847	968
L	850	850	1340	1340	1340	1340	1990	1990	2640	2640
W	650	850	900	850	850	900	900	900	900	900
H	1100	1800	1800	1800	1800	1800	1825	1825	1825	1825