

AIR SOURCE HEAT PUMP UNIT



AIR SOURCE HEAT PUMP UNIT

Outdoor installation

Cooling capacity from 7.5 to 55.3 KW

Heating capacity from 8.9 to 63.9 KW

Characteristics

Hermetic scroll compressor

Aluminum alloy frame construction

Low noise axial fan

Available configurations

BWC 7 C S A 1

(1) (2) (3) (4)

(1) Version1:

C Cooling type

H Heat pump type

(2) Version2:

S Standard

R(X)% Heat recovery type,

XX Percentage of recovery

P With water pump flow switches

T Specially made by customer request

(3) Refrigerants:

A R22

B R407C

C R134a

D R410A

E Other refrigerants

(6) 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 medicine use

Functions and features



Heating/Cooling Air cooled Outdoor inst. Refrig. R407C Refrig. R134a Refrig. R410A Refrig. R22 Hermet. Scroll Free-Cooling Thermodynamic Heat Recovery

Optional

Partial heat recovery

Copper fins

Free-Cooling

Water pump

Technical data

Model		Size	7	10	12	14	17	20	23	26	30	35	40	45	50	55	60
General	Cooling capacity	KW	7.5	9.1	10.5	11.4	13.0	18.2	21	22.8	25.3	27.8	34.9	39.2	42.8	47.1	55.3
	Power input	KW	3.03	3.44	4.16	4.47	5.21	6.88	8.32	8.94	9.68	10.42	13.53	14.89	15.54	17	20.38
	Heating capacity	KW	8.9	10.5	12.4	13.4	16.1	21	24.8	26.8	29.5	32.2	40.9	45.6	49.2	54.1	63.9
	Power input	KW	3.04	3.45	4.16	4.48	5.2	6.9	8.32	8.96	9.68	10.4	13.52	14.88	15.47	16.9	20.26
Compressor	Power regulation stage	%	100														
	Nr.		1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
Fan	Type		Scroll														
	Oil		P.O.E.														
	Oil volume	L	1.2	1.2	1.5	1.5	3	3	3.5	3.5	4	4	6	7	7	8	8
Evaporator	Type		Axial														
	Nr.		1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	Power input	KW	0.25	0.25	0.25	0.37	0.37	0.45	0.55	0.55	0.75	0.75	0.9	1.1	1.1	1.1	1.5
Coil	Air flow	m ³ /h	3500	3500	4500	5000	6000	7500	9000	9500	10000	11000	15000	17000	19000	19000	23000
	Type		Fin coil														
Refrigerant	Material		Al/Cu														
	Type		Co-axial														
	Water flow	m ³ /h	1.29	1.57	1.81	1.96	2.39	3.13	3.61	3.92	4.35	4.78	6.00	6.74	7.36	8.10	9.51
Evaporator	Inlet/outlet nozzle	DN	32	32	32	32	40	40	40	40	40	40	40	40	50	50	50
	Resistance	KPa	45	48	48	35	40	45	48	50	42	45	47	50	48	50	50
Refrigerant	Nr. of circuits		1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	Type		R407C														
Power supply	Weight	kg	2.8	3.1	3.3	3.5	4.5	5	5.6	6.5	8	11	12.2	13.8	15	18	22
	Noise	dB(A)	50	52	52	53	55	55	58	58	60	60	62	62	65	65	68
Weight		kg	215	228	240	260	290	330	350	380	420	450	470	540	550	700	750

Note:

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

Heating rated condition: evaporator 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	A	B	C	D	L	W	H
7	178	0	432	0	825	650	866
10	178	64	174	197.5	1160	750	1016
12	178	0	174	185	1160	750	1016
14	173	0	174	185	1160	780	1016
17	198	100	148	1160	780	1016	
20	198	119	175	1300	900	1042	
23	198	224	112	1300	900	1135	
26	198	224	112	1300	900	1042	
30	204	182	202	1450	950	1135	
35	204	182	202	1450	1050	1592	
45	204	224	202	1800	1100	1800	
55	204	224	202	2100	1160	1750	
60	204	224	202	2100	1180	1750	