

# BWC Air Cooled Water Chiller

Designed for individual home and light commercial.

Products features

- Simplicity of installation: integrated hydraulic kit.
  - Low noise
  - Electronic regulation by microprocessor.
- Composition
- Casing
    - Galvanized steel, painted light grey.
    - External installation with high resistance to corrosion.
  - Compressor:
    - Hermetic SCROLL with thermal protection.
    - Sound-proof enclosure.
    - Internal thermal protection of motor.
    - Crank-case heater.
  - Heat exchanger / Condenser:
    - Water heat exchanger with tube in tube or brazed plate (Optional).
    - Copper / aluminum corrugate condenser.
  - Fan:
    - Direct drive helicoidal type with thermal protection.
    - Low noise and low vibration design.
  - Cooling circuit:
    - Copper piping work.
  - Regulation by CHILLER microprocessor:
    - Regulation of water temperature.
    - Monitoring of operation parameters.
    - Short circuit protection.
    - Defrost of air heat exchanger.
    - Anti-frozen protection (water heat exchanger).
  - Digital display showing.
  - Hydraulic module:
    - Surge drum, pump, valve, pressure gauge, pressure switch, safety valve, expansion tank, etc.



BWC-5~BWC17



BWC-21~BWC-37

Model BWC	Heat pump	5H	7H	10H	13H	17H	21H	26H	35H	
	Cooling only	5C	7C	10C	13C	17C	21C	26C	35C	
General	COOLING									
	Cooling power	kw	4.8	7.5	10.0	13.0	16.5	21.0	26.0	35.3
	Norminal consumption power	kw	1.97	2.74	3.97	4.95	6.03	7.58	10.06	13.06
	Cooling efficiency (EER)		2.44	2.74	2.52	2.63	2.74	2.77	2.58	2.70
	Current consumption maxi	A	9.43	13.11	7.10	8.85	10.78	13.55	17.98	23.34
	Water flow	m <sup>3</sup> /h	0.8	1.3	1.7	2.2	2.8	3.6	4.5	5.5
	P on water/ available pressure	kPa	30	32	37	37	37	45	45	45
	Heating(Heat pump only)									
	Heating power	kw	5.5	8.5	11.0	14.0	17.5	23.0	28	38.2
	Norminal consumption power	kw	1.95	2.7	3.92	4.9	5.95	7.12	9.8	12.95
	Performance coefficient(COP)		2.82	3.15	2.81	2.86	2.94	3.23	2.86	2.95
	Current consumption maximum	A	9.33	12.92	7.01	8.76	10.64	12.73	17.52	23.15
	Water flow	m <sup>3</sup> /h	0.8	1.3	1.7	2.2	2.8	3.6	4.5	5.5
	Delta P on water/ available pressure	kPa	30	32	37	37	37	45	45	45
Power supply	v/ph/Hz	230-1-50 / 60 or 380-3-50 /440-3-60								
Compressor	Type	Rotary		Scroll	Rotary	Scroll				
	QTY	pcs	1	1	1	2	2	2	2	2
	Power input	kW	1.9	2.67	3.94	2.4×2	2.83×2	3.53×2	4.66×2	6.14×2
Refrigerant	Type	R22/407C					R22/407C/410A			
	Charge amount	kg	1.5	2.5	3.5	4.5	5.5	7	9	11
Fan unit	QTY	pcs	1	1	1	1	2	2	2	2
	Rated Power	kw×no.	0.09×1	0.15×1	0.355×1	0.355×1	0.26×2	0.37×2	0.37×2	0.37×2
	Input power of motor	kw	0.09	0.15	0.355	0.355	0.52	0.74	0.74	0.74
	Current of motor	A	0.43	0.72	1.70	1.70	2.49	3.54	3.54	3.54
Dimension	Width	mm	950	950	1100	1100	950	1285	1285	1285
	Depth	mm	440	440	400	400	500	690	690	690
	Height	mm	1315	1315	1425	1425	1695	1280	1530	1530
Weight	kg	85	120	180	215	230	250	295	350	

**Note:**

1. Working condition: Cooling: 35°C D.B. outdoor, inlet water temperature 12°C , outlet 7°C  
Heating:7°C D.B.outdoor,6°C W.B. inlet water temperature 40°C , outlet 45°C
2. Noise are tested in the factory, and it may change a bit for ambient or other factors.
3. For optimize the performance of the unit, we reserve the right to notify the modification.