

HeatKing

Data Sheet 1

Air Source Heat Pumps - BWarm & BCool2 Units

TECHNICAL DATA

Min. water temperature can be reduced as long as the system is dosed with correct anti-freeze and the anti-freeze set point is lowered to suit. Please contact technical services for details.

	6000 UNITS	8000 UNITS	9000i UNITS	12000 UNITS	13000i UNITS
Unit Weight (unpacked)	87Kg	123Kg	128Kg	173Kg	178Kg
Refrigerant Type	R407C	R407C	R407C	R407C	R407C
Refrigerant Charge Weight	1700gms	3500gms	3500gms	6800gms	6800gms
Water Capacity	2 Litres	3 Litres	3 Litres	7 Litres	7 Litres
Pump Delivery	15 l/m	20 l/m	25 l/m	30 l/m	35 l/m
Pump	85watts	85watts	85watts	170watts	170watts
Min Return Water	10°C	10°C	10°C	10°C	10°C
Max Return Water	45°C	45°C	60°C	45°C	60°C
Minimum Operating Ambient Temperature (Tested at -15°C for MCS Certification)	-20°C	-20°C	-20°C	-20°C	-20°C
Maximum Operating Ambient Temperature	+30°C	+35°C	+35°C	+35°C	+35°C
Heat Output/Input=cop 7db/6wb°C @ 30-35°C	kW 5.92/1.64 = 3.60	8.10/2.00 = 4.00	9.33/2.56 = 3.63	9.33/2.56 = 3.63	11.00/3.32 = 3.30
Heat Output/Input=cop 2db/1wb°C @ 30-35°C*	kW 5.30/1.57 = 3.4	7.10/2.00 = 3.6	8.35/2.48 = 3.4	10.6/2.80 = 3.7	12.0/3.32 = 3.6
Heat Output/Input=cop 7db/6wb°C @ 40-45°C	kW 5.70/1.82 = 3.1	7.70/2.40 = 3.3	9.30/2.89 = 3.2	11.2/3.40 = 3.3	13.3/3.99 = 3.3
Heat Output/Input=cop 2db/1wb°C @ 40-45°C*	kW 5.05/1.79 = 2.8	6.70/2.30 = 2.9	8.32/2.84 = 2.9	10.0/3.40 = 3.0	12.2/3.94 = 3.1
Cool Output/Input=eer 27°C @ 7-12°C	kW 4.70/1.97 = 2.39	5.75/2.16 = 2.66	5.75/2.16 = 2.66	9.70/3.93 = 2.47	9.70/3.93 = 2.47
Cool Output/Input=eer 27°C @ 18-23°C	kW 5.80/2.13 = 2.72	8.65/2.55 = 3.39	8.65/2.55 = 3.39	11.9/4.22 = 2.82	11.9/4.22 = 2.82
Cool Output/Input=eer 35°C @ 7-12°C	kW 4.46/2.19 = 2.04	45.60/2.47 = 2.27	5.60/2.47 = 2.27	9.26/4.37 = 2.12	9.26/4.37 = 2.12
Cool Output/Input=eer 35°C @ 18-23°C	kW 5.75/2.40 = 2.40	8.15/2.88 = 2.83	8.15/2.88 = 2.83	11.75/4.74 = 2.98	11.75/4.74 = 2.98
Air volume	m ³ /h 2900 (max)	2900 (max)	2900 (max)	3700 (max)	3700 (max)
Fan Rating	W 220	220	220	260	260

* Operating point to BS EN 14511-2:2004. Power input shown without water pump. Capacity should be adjusted by 10% for defrost when considering seasonal efficiencies. Performance characteristics apply to a new unit with clean heat exchanges.

