



The Blaupunkt brand has been setting quality standards for 100 years. Choose warmth and safety with Blaupunkt heat pumps.

Blaupunkt Monoblock

BLP10P3V1M | BLP13P3V1M | BLP17P3V1M | BLP19P3V1M

Blaupunkt Split

BLP10P3V1S | BLP17P3V1S | BLP19P3V1S



ENJOY
IT!



Blaupunkt vs Rest of the World

- Compact dimensions, convenient installation. Possible remote control.

- **EVI technology**

allows increased refrigerant pressure to be obtained at the compressor outlet. Higher pressure allows higher heating capacity and transformation temperatures to be obtained.

Other Blaupunkt pump models, such as the discontinued **Osaka**, confirm that the Blaupunkt brand has extensive experience in the market.

- **Circulating Pump**

electronic PWM-controlled used in split units. Electronic control switches the pump to the appropriate power level, generating low energy consumption.

- **POWER+ Inverter**

is a special inverter for controlling permanent magnet compressors driven by a brushless motor (BLDC/BLAC). It contributes to significant energy savings by adjusting compressor speed and unit capacity. Load fluctuations are under constant control, as is the compressor envelope.

This significantly increases the unit's COP during part-load operation, raising the seasonal performance factor (SPF).

- **Heat Exchanger**

is coated with a hydrophobic film that protects it against the accumulation of moisture and condensation.

A sufficiently large heat exchange surface enables the efficient collection of energy — even under less favourable atmospheric conditions, up to a temperature of — 20° degrees C.

The materials used ensure many years of trouble-free operation and provide a simple condensate drainage system.

- **Compressor**

The product is manufactured by Panasonic, one of the leaders in manufacturing components for air-conditioning systems, heat pumps and other products in this industry. An exceptional 28-year experience in compressor design and manufacturing has led to Panasonic's rotary compressors being synonymous with the highest level of technology.

- **Fan**

The purpose of the evaporator system with one (or more) fan is to extract heat. It disperses the air stream washing over the heat exchanger. The fan motor is the product of a manufacturer specialising in this type of component -WOLONG Electric Group. Standard models have a power of 102 W and a rotational speed of 920 rpm. Together with a 3-blade impeller, this ensures adequate air exchange capacity.

Models with lower heat output use a single fan.

In the case of units with higher heating capacity, systems with two fans of this type were used. Once the air has been drawn in, it reaches the evaporator, where the heat is transferred to the refrigerant.

Monoblock type air source inverter heat pump														
Model			BLP10P3V1M			BLP13P3V1M			BLP17P3V1M			BLP19P3V1M		
Power Supply		V/Hz	380-420/50 3F			380-420/50 3F			380-420/50/3F			380-420/50 3F		
Refrigerant		-	R410A			R410A			R410A			R410A		
Rated power		kW	9.6			12.5			16.6			18.6		
C.O.P.		-	4.45			4.52			4.52			4.42		
Heating capacity range		kW	4.416/9.6			5.75/12.5			7.636/16.6			8.556/18.6		
Electrical power consumption		W	794/2157			1018/2765			1352/3673			1549/4208		
C.O.P. (min - max)		-	4.45/5.56			4.52/5.65			4.52/5.65			4.42/5.53		
Rated power		kW	8.57			11.16			14.82			16.61		
C.O.P.		-	2.99			3.04			3.04			2.97		
Heating capacity range		kW	3.94/8.57			5.13/11.16			6.82/14.82			7.64/16.61		
Electrical power consumption		W	1227/2864			1573/3672			2089 /4876			2394/5589		
C.O.P. (min - max)		-	2.99/3.21			3.04/3.26			3.04/3.26			2.97/3.19		
Rated power		kW	7.3			9.5			12.6			14.1		
C.O.P.		-	3.44			3.49			3.49			3.42		
Heating capacity range		kW	3.36/7.30			4.37/9.50			5.80/12.62			6.50/14.14		
Electrical power consumption		W	781 /2121			1001 /2719			1329/3611			1523/4137		
C.O.P. (min - max)		-	3.44/4.30			3.49/4.37			3.49/4.37			3.42/4.27		
Rated power		kW	6.42			8.36			11.1			12.44		
C.O.P.		-	2.13			2.16			2.16			2.11		
Heating capacity range		kW	2.95/6.42			3.85/8.36			5.11/11.10			5.72/12.44		
Electrical power consumption		W	1109/3014			1424/3870			1891 /5139			2170/5896		
C.O.P. (min - max)		-	2.13/2.66			2.16/2.70			2.16/2.70			2.11/2.64		
Rated current		A	4.6			5.8			7.8			8.9		
Max. power consumption		kW	3.1			4.0			5.3			6.1		
Max. current consumption		A	6.60			8.46			11.24			12.88		
Compressor	Type	-	Twin Rotary Inverter			Twin Rotary Inverter			Twin Rotary Inverter			Twin Rotary Inverter		
Fan	Quantity	-	1			1			2			2		
	Airflow	m3/h	3000			3500			5000			5500		
	Rated power	W	100			110			200			210		
Heat Exchanger	Type	-	Plate			Plate			Plate			Plate		
	Pressure drop	kPa	20			22			23			25		
	Hydraulic connection	inch	G1"			G1"			G1"			G1"		
Water Flow	Min/Rated/Max	L/S	1.04	1.66	2.74	1.33	2.16	3.60	1.80	2.84	4.75	2.02	3.20	5.33
Noise		db(A)	59			60			61			62		
Dimensions		mm	1110*475*810			1110*475*960			1110*475*1355			1110*475*1355		
Dimensions with packaging		mm	1200*540*970			1200*540*1120			1200*540*1510			1200*540*1510		
Net weight		kg	88			98			124			124		
Gross weight		kg	116			126			161			161		

A7/W35

A7/W55

A-7/W35

A-7/W55

Split type air source inverter heat pump											
Model		BLP10P3V1S			BLP17P3V1S			BLP19P3V1S			
Power Supply		V/Hz/Ph	380-420/50/3			380-420/50/3			380-420/50/3		
Refrigerant		-	R410A			R410A			R410A		
Rated power		kW	9.8			16.9			18.9		
C.O.P.		-	4.45			4.48			4.39		
Heating capacity range		kW	4.508/9.8			7.774 / 16.9			8.694 / 18.9		
Electrical power consumption		W	810/2202			1388 / 3772			1584 / 4305		
C.O.P. (min - max)		-	4.45/5.60			4.48 / 5.60			4.39 / 5.49		
Rated power		kW	9.67			16.7			18.7		
C.O.P.		-	2.96			2.94			2.79		
Heating capacity range		kW	4.45/9.67			7.67/16.68			8.58 /18.65		
Electrical power consumption		W	1384/3353			2372/5818			2707/6852		
C.O.P. (min - max)		-	2.88/3.21			2.87/3.23			2.72/3.17		
Rated power		kW	8.1			14.0			15.6		
C.O.P.		-	3.50			3.48			3.30		
Heating capacity range		kW	3.73/8.11			6.43 / 13.98			7.19 /15.63		
Electrical power consumption		W	938/2744			1607/ 4699			1834/5363		
C.O.P. (min - max)		-	2.95/3.97			2.97/ 4.00			2.91/3.92		
Rated power		kW	7.81			13.5			15.1		
C.O.P.		-	2.24			2.23			2.11		
Heating capacity range		kW	3.59/7.81			6.20/13/47			6.93/15.06		
Electrical power consumption		W	1508/3487			2583/6040			2947/7137		
C.O.P. (min - max)		-	2.24/2.38			2.23/2.40			2.11/2.35		
Rated current		A	4.6			8.0			9.1		
Max. power consumption		kW	3.2			5.5			6.2		
Max. current consumption		A	6.74			11.54			13.17		
Compressor	Type	-	Twin Rotary			Twin Rotary			Twin Rotary		
Fan	Quantity	-	1			2			2		
	Airflow	m3/h	3000			5000			5500		
Heat Exchanger	Rated power	W	100			200			210		
	Type	-	Plate Exchanger			Plate Exchanger			Plate Exchanger		
	Pressure drop	kPa	20			23			25		
	Hydraulic connection	inch	G1"			G1"			G1"		
Water Flow	Min/Rated/Max	L/S	0.29	0.47	0.78	0.50	0.81	1.35	0.56	0.90	1.50
Noise		db(A)	59			62			63		
Capacity of diaphragm vessel		L	5			5			5		
Electric Heater		kW	3			3			3		
Heater rated current		A	6.3			6.3			6.3		
Grundfos circulation pump		-	UPMGEO 25-85-130			UPMGEO 25-85-130			UPMGEO 25-85-130		
Dimensions of external unit		mm	1110*475*810			1110*475*1355			1110*475*1355		
Dimensions of external unit with packaging		mm	1235*540*970			1235*540*1510			1235*540*1510		
Dimensions of internal unit		mm	550*325*650			550*325*650			550*325*650		
Dimensions of internal unit with packaging		mm	650*450*840			650*450*840			650*450*840		
Net weight of external unit		kg	74			110			110		
Gross weight of external unit		kg	104			149			149		
Net weight of internal unit		kg	38			42			42		
Gross weight of internal unit		kg	52			56			56		

A7/W35

A7/W55

A-7/W35

A-7/W55



EXAMPLES OF SELECTION OF PUMPS BASED ON BUILDING INSULATION

HEATING AREA [m2]	INSULATION [cm]		PUMP POWER [kW]
100	Roof	5	6-8
	Walls	5	
	Floor	-	
100	Roof	15	5-6
	Walls	10	
	Floor	5	
100	Roof	25	4-5
	Walls	20	
	Floor	15	
150	Roof	5	9-12
	Walls	5	
	Floor	-	
150	Roof	15	7-9
	Walls	10	
	Floor	5	
150	Roof	25	5-7
	Walls	20	
	Floor	15	
200	Roof	5	12-16
	Walls	5	
	Floor	-	
200	Roof	15	10-12
	Walls	10	
	Floor	5	
200	Roof	25	7-10
	Walls	20	
	Floor	15	
250	Roof	5	15-20
	Walls	5	
	Floor	-	
250	Roof	15	15-12
	Walls	10	
	Floor	5	
250	Roof	25	8-12
	Walls	20	
	Floor	15	

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