

 **Benson**

# Horizontal & Vertical Discharge Benson Pool & Spa Heaters Technical Specifications

Swimming Pool Heater - Horizontal Discharge					
		Model			
Model		BENCW 1P SPH 50 H	BENCW 1P SPH 80 H	BENCW 1P SPH 120 H	BENCW 1P SPH 144 H
Heating Capacity*	KW	5	8	12	14.4
	Btu / H	16500	28000	41000	50000
Heating Capacity**	KW	5.8	8.8	13	16
	Btu / H	18000	31000	45000	55000
Compressor	Type	Rotary	Rotary	Rotary	Scroll
	Quantity	1	1	1	1
Heat Power Input*	KW	0.94	1.7	2.5	3.1
Heat Power Input**	KW	0.95	1.7	2.55	3.1
Power	V / Hz / Ph	220 / 50 / 1			
Fan Quantity		1	1	1	1
Fan Power Input	W	120	120	120	120
Fan Rotate Speed	Rpm	850	850	850	850
Water Flow Rate	m <sup>3</sup> / h	1 - 2	2 - 3	3 - 4.5	4 - 6
Water Pressure Drop	KPa	10	10	12	10
Noise Level	dB(A)	50	52	54	54
Water Connection	Inch	2	2	2	2
Weight Net / Shipping	KG	52 / 57	68 / 76	77 / 82	110 / 124
Net Dimension	mm	1005 × 420 × 650	1005 × 420 × 650	1005 × 420 × 650	1115 × 425 × 850

Swimming Pool Heater - Vertical Discharge					
Model		BENCW 1P SPH 190 H3	BENCW 1P SPH 230 H3	BENCW 1P SPH 380 H4	BENCW 1P SPH 470 H3
Heating Capacity*	KW	19	23	38	47
	Btu / H	65000	81000	135000	162000
Heating Capacity**	KW	21	26	42	52
	Btu / H	72000	90000	150000	180000
Compressor	Type	Scroll	Scroll	Scroll	Scroll
	Quantity	1	1	2	2
Heat Power Input*	KW	4.5	5.1	4.5*2	5.1*2
Heat Power Input**	KW	4.5	5.1	4.5*2	5.1*2
Power	V / Hz / Ph	380 / 50 / 3			
Fan Quantity		1	1	2	2
Fan Power Input	W	200	250	250	250
Fan Rotate Speed	Rpm	670	670	670	670
Water Flow Rate	m <sup>3</sup> / h	5-7.5	8	15	18
Water Pressure Drop	KPa	10	10	12	12
Noise Level	dB(A)	57	57	59	59
Water Connection	Inch	2	2	3	3
Weight Net / Shipping	KG	153 / 163	158 / 168	315 / 350	325 / 360
Net Dimension	mm	855 × 755 × 1000	855 × 755 × 1000	1500 × 840 × 1100	1500 × 840 × 1300
Shipping Dimension	mm	920 × 810 × 1035	920 × 810 × 1035	1650 × 950 × 1150	1650 × 950 × 1450

\*Heating: outdoor air temperature DB / WB 15° / 11°C water inlet temperature 27°C

\*\* Heating: outdoor air temperature DB / WB 24° / 19°C, water inlet temperature 27°C