



Swimming Pool Chiller & Heat Pump

The Most Energy Efficient Solution to Heating and Cooling your pools





Enjoy Comfortable life!



INDEX

About Blue Way · · · · · · · · · · · · · · · · · · ·	P4~P7
Why to Choose BLUEWAY SPCHs · · · · · · · · · · · · · · · · · · ·	P8~P10
How Does It Work · · · · · · · · · · · · · · · · · · ·	P11
Why Does It Save Energy · · · · · · · · · · · · · · · · · · ·	P12
Reliable Quality Of Key Components · · · · · · · · · · · · · · · · · · ·	P13~P14
Highligts · · · · · · · · · · · · · · · · · · ·	P15
Technical Specifications · · · · · · · · · · · · · · · · · · ·	P16~P21
Indoor Pool Environment Control System·····	P22~P23





About Blueway

The name of **BLUEWAY** was founded in Australia in 1993. It has earned a worldwide reputation in the field of liquid heating and cooling systems (chillers & heat pumps) through about 20 years experience in this industry. In 2007, Blueway established its subsidiary manufacturer in Shunde, Foshan of China, utilizing the manufacturing advantages here and supply chillers and heat pumps worldwide.











Product Range

Blueway is capable of manufacturing and supplying even the largest liquid heating and cooling requirement for applications as diverse as:

- Domestic and commercial hot and chilled water for homes and buildings
- Industrial water heating and cooling
- Commercial and industrial dehumidification and air handling systems
- Other specialist requirements

Blueway produces Air/Water Heat Pumps including Swimming Pool Chiller & Heat Pumps, Indoor Swimming Pool Environment Control Systems (Dehumidifying, Cooling, Heating & Air Purifying), Multi Function Heat Pumps (House Heating, Cooling & Domestic Hot water), DC Inverter Heat Pumps, EVI Heat Pumps for low ambient temperatures, Hot Water Heat Pumps, Ground Source Heat pumps, Water Cooled Packaged Air Conditioners, etc. All its products are produced and tested in accordance with strict international quality control systems and standards, thus are able to adapt different weather conditions globally.











R&D Capacity

1) R&D Team

Blueway has a very strong R&D capacity and most of its technical staffs are of refrigeration or mechanic engineering background, some of them have 10-15 years experience in Air Conditioning and Heat Pump industry. Its technical director is a certified engineer by the Association of Energy Engineers of the United States







2) Advanced Laboratory

Blueway's Chiller and Heat Pump laboratory is equipped with highly advanced and sophisticated systems and instruments and is able to simulate harsh weather conditions down to -20°C and up to 60°C, thus can guarantee the reliability of its products operating at extremely harsh weather conditions. Its laboratory has been calibrated by General Machinery & Electrical Products Inspection Institute (GMPI).





Prestigious References



Blueway has exported its heat pump products to Australia, Europe, Middle East, South Africa and South America and have obtained worldwide recognition. In China market, Blueway's Indoor Pool Environment Control Heat Pump Systems have been applied and installed in many prestigious 5 star hotel projects and famous natatoriums, like Inter Continental Hotel & Resorts in Shenzhen, Sheraton Hotel in Taizhou and Shandong, Kempinski Hotel in Huizhou, the Natatorium of Shenzhen Universiade 2011 etc.

Blueway will continue its endeavor and commitment to serve its worldwide partners by offering innovative and highly efficient products and solutions.













JUST IMAGINE WHAT A PLEASANT SWIM SHOULD BE

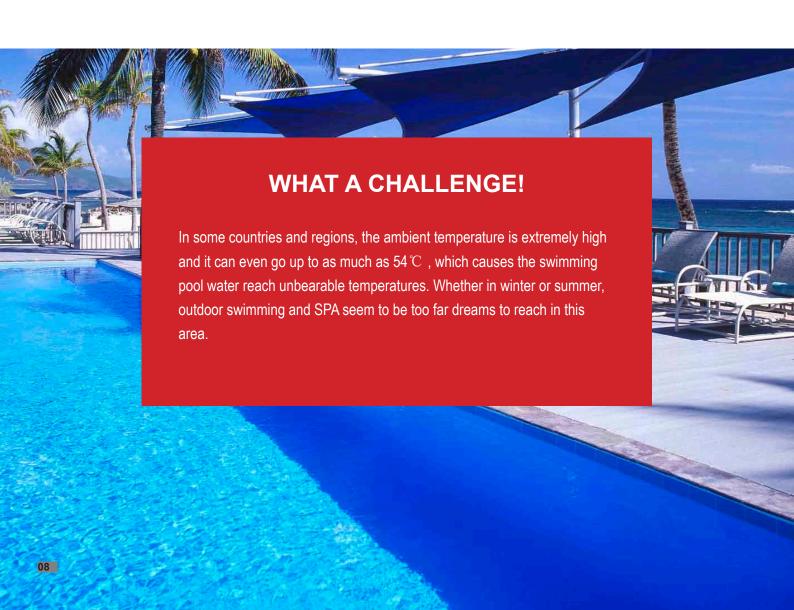
For a swim to be refreshing and animating, the pool water must be the right temperature for the swimmer, regardless of the influence of seasonal weather, extremely hot or cold. Reliable swimming pool temperature control is a key feature to enjoyable swimming.

SUMMER COOLING

During summer, swimming pools are subjected to massive solar gain. Coupled with high ambient humidity which prevents pools from cooling through evaporation, swimming pool water will become uncomfortably hot unless dynamically cooled.

WINTER HEATING

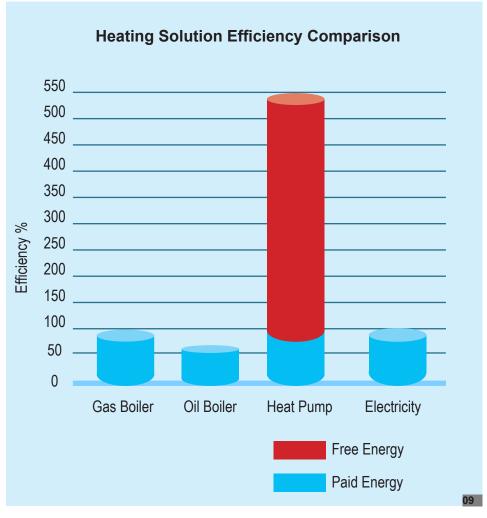
During winter, swimming pools continually evaporate water and radiate heat. The combination of these factors causes heat loss which must be replaced through a heater if comfortable water temperatures are to be maintained.



IS THERE A SOLUTION?



Heat pumps are proven technology and widely accepted in the world as the most economic and effective method of heating and cooling your swimming pool. Unlike electric heaters and boilers that can only provide pool heating, Blueway Swimming Pool Chiller & Heat Pumps (SPCHs) will automatically either heat or cool your pool without the need for additional equipments. As an added bonus, a Blueway SPCH unit will produce up to five times the energy it consumes, dramatically reducing the energy consumption of your swimming pool.



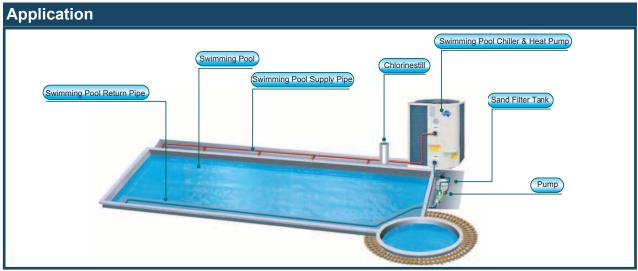
BLUEWAY

SWIMMING POOL CHILLER & HEAT PUMPS (SPCHs)

BLUEWAY SPCHs are specially designed and engineered for water temperature control of swimming pool and spa in the hot summer and cold winter.

The units work as chillers in summer and heat pumps in other seasons, offering the most energy efficient pool & spa chilling and heating. Compared to gas, oil, or electric heaters, operation cost of swimming pool water chiller & heat pumps is up to 60%~80% less, saving your expenses in energy costs each year.





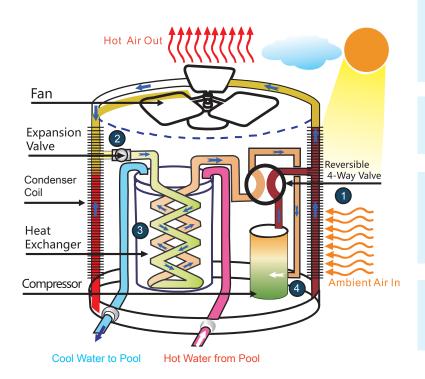
Blueway SPCH units are not only highly efficient, but also easy and safe to operate, providing the maximum comfort the whole year through.

WHETHER HOT OR COLD WHEATHER, OUTDOOR SWIMMING AND SPA ARE NO LONGER UNREACHABLE DREAMS!

---ENJOY COMFORTABLE SWIMMING AND SPA WITH BLUEWAY SPCHs, REGARDLESS AMBIENT TEMPERATURE AND LOCATION

HOW DOES A SPCH UNIT WORK?

AS A CHILLER



1 STAGE ONE

The temperature of the hot gaseous refrigerant discharged from the compressor is much higher than the outside ambient air temperature. When the outside air passes across the condenser coil, the gaseous refrigerant transfers its heat to the air and condenses into liquid.

2 STAGE TWO

The liquid refrigerant passes through the expansion valve, reducing its pressure and temperature.

3 STAGE THREE

The low temperature refrigerant passes to the heat exchanger evaporator, where the actual heat transfer takes place: the refrigerant absorbs heat from the water pumped into the heat exchanger and evaporates, whereby the water temperature is reduced.

4 STAGE FOUR

The gas refrigerant is then sucked to the compressor and compressed, increasing its pressure and temperature, ready to start the whole cycle once again.

AS A HEAT PUMP

STAGE ONE

The heat transfer medium (the refrigerant) is colder than the outside air. As the outside air passes across the evaporator coil, the liquid refrigerant absorbs heat from the air and evaporates.

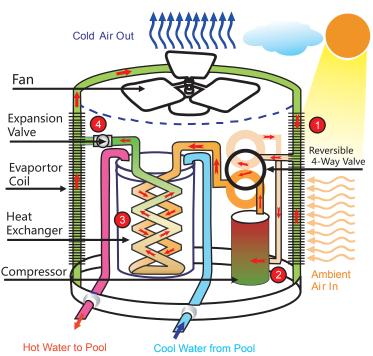
STAGE TWO

The gaseous refrigerant then passes to the compressor and is compressed. When compressed, the pressure is increased and the temperature of the vapor rises, effectively concentrating the heat.

3 STAGE THREE

The hot gaseous refrigerant passes to the heat exchanger condenser, where the actual heat transfer takes place: the intensely hot gaseous refrigerant transfers its heat to the water pumped into the heat exchanger and condenses back into a liquid.

4 STAGE FOUR
The liquid refrigerant then passes through an expansion valve, reducing its pressure and temperature, ready to start the whole cycle once again.



WHY DO BLUEWAY SWIMMING POOL CHILLER & HEAT PUMS SAVE ENERGY?

A **Blueway Swimming Pool Chiller & Heat Pump** consumes much less electric power than a traditional electric heater. The electric power it consumes is only to operate the compressor, fan and water pump. For every 1kW electricity it consumes, the unit will generate up to 5kW heating capacity, which means 4kW capacity are totally free.

Low Temperature Renewable Heat High Temperature Heat Dumping to the Ambient Air **Energy Recovered From the Environment** As A As A Chiller **3KW** 5KW Heat Pump Hight Electrical Low Electrical Power In Temperature Power In Temperature **Cooling Output Heat Output**



RELIABLE QUALITY OF KEY COMPONENTS

High Efficiency Marine-Grade Titanium Heat Exchanger

Titanium has gained world recognition in just about every industry for its unbreakable corrosion resistance. Blueway Swimming Pool Chillers & Heat Pumps incorporate Titanium Tube-in-Shell heat exchangers that are not only highly efficient, but also super corrosion resistant against harsh pool water chemicals, thus giving the following advantages:



- High efficiency and super corrosion resistant
- High working pressure

Due to its perfect structure design, the PVC shell can withstand high working pressure up to 1.2 Mpa (normal working pressure for a pool heat pump does not exceed 0.6Mpa), and the bursting pressure upto 2.3Mpa.

- Reliability and long lasting life span.

 Over 130,000 times alternating pressure test (0-8 bar) to the titanium pipe coil indicates that it can be used for over 15 years. The max. working pressure for titanium pipe coil is up to 52 bar.
- ■Low maintenance

High Efficiency Rotary or Scroll Compressor

Blueway SPCH units use high efficiency rotary or scroll compressors which are widely used in air conditioners and their reliable performance has been proven due to many years of operation in the global market.

- ■Famous brand rotary compressor for domestic range
- Copeland, Danfoss, Hitachi or other famous brand scroll compressor for commercial range





Evaporator / Condenser Coil



The evaporator coil/Condenser Coil used is of fin and tube type. The fins are hydrophilic treated aluminum fins to resist corrosion, and the copper tubes are inner-grooved type, which increases the heat transfer in the refrigerant side.



RELIABLE QUALITY OF KEY COMPONENTS

Intelligent Control

The units are supplied with micro processor based digital controller with LCD display. The controller is programmed to provide a maximum protection to the heat pump system and accurate temperature control. The control panel is completely factory wired with all accessories and terminals included.





Expansion Device

- 1) Electric Expansion Valve (EEV) is used for Domestic Range
- 2) Alco (Emerson) or Danfoss thermal expansion valve (TEV) is used for Commercial Range





Features & Highlights



- ▲ Wide Capacity Range: 1.5-7 ton (Residential), 10-50 ton (Commercial)
- ▲ Using heat energy from ambient air and reproduces more heat energy, saving 60%~80% energy compared to traditional heaters.
- Providing heating in winter and chilling in summer for spa and swimming pool in domestic and commercial applications.
- ▲ No potential danger of any inflammable, gas poisoning, explosion, fire, electrical shock which are associated with other heating systems.
- ▲ A digital controller is incorporated to maintain the desired water temperature.
- ▲ Long-life and corrosion resistant composite cabinet stands up to severe climates and pool chemicals.

- ▲ Famous brand rotary or scroll compressor ensures outstanding performance, ultra energy efficiency, durability and quiet operation.
- ▲ Titanium tube-in-shell heat exchanger resists harsh pool chemicals and corrosion
- ▲ Self-diagnostic control panel monitors and troubleshoots heat pump operations to ensure safe and reliable operation.
- ▲ Intelligent digital controller with friendly user interface and blue LED back light.
- ▲ Separate isolated electrical compartment prevents internal corrosion and extends heat pump life.

Residential Range:



Commercial Range:



Technical SWIMMING POOL CHILLER & HEAT PUMP Specifications Residential Side Dischrage, 50Hz

		Model		SPCH-1.0S	SPCH1.5S	SPCH2.0S	SPCH2.5S	SPCH3.0S	SPCH4.0S	SPCH5.0S	SPCH6.0S				
	Nominal he	eating capacity	KW/hour	5.1	7	9.2	12	14	19	25	31				
	Powe	er Supply	V/Hz/Ph			220-24	10/50/1			380	-415/50/3				
		Heating conscitu	W/hour	5100	7000	9200	12000	14000	19000	25000	31000				
	11+: (4).	Heating capacity	BTU/hour	17401	23884	31390	40944	47768	64828	85300	105772				
	Heating (1):	Power	14/-44-	027	1250	1612	24.02	2545	2540	4620	5744				
	A24/19°C	consumption	Watts	927	1250	1643	2182	2545	3519	4630	5741				
Heating	W26/28°C	COP	W/W	5.5	5.6	5.6	5.5	5.5	5.4	5.4	5.4				
erformance		Current	A	4.2	5.7	7.5	9.9	11.6	16.0	8.3	10.3				
data		Heating capacity	W/hour	4335	5950	7820	10200	11900	16150	21250	26350				
		0	BTU/hour	14791	20301	26682	34802	40603	55104	72505	89906				
	Heating (2): A15/12°C	Power consumption	Watts	932	1311	1700	2267	2644	3511	4722	5856				
	W26/28°C	COP	W/W	4.65	4.5	4.6	4.5	4.5	4.6	4.5	4.5				
		Current	A	4.2	6.0	7.7	10.3	12.0	16.0	8.4	10.5				
			W/hour	3300	4800	6500	8100	9650	12850	16500	19500				
	Cooling (1):	Cooling capacity	BTU/hour	11259.6	16377.6	22178	27637.2	32925.8	43844.2	56298	66534				
	A35/24°C W30/28°C	Power consumption	Watts	868	1200	1711	2160	2539	3473	4521	5417				
Cooling	, i	EER	W/W	3.8	4	3.8	3.75	3.8	3.7	3.65	3.6				
erformance		Current	Α	3.9	5.5	7.8	9.8	11.5	15.8	8.1	9.7				
data		Cooling capacity	BTU/Hr	2805	4080	5525	6885	8202.5	10922.5	14025	16575				
	Cooling (2): A46/24°C	Power consumption	Watts	923	1275	1817	2295	2698	3690	4803	5755				
	W30/28°C	EER	W/W	3.04	3.2	3.04	3	3.04	2.96	2.92	2.88				
		Current	Α	4.2	5.8	8.3	10.4	12.3	16.8	8.6	10.3				
	Controller	-	-			Micro proce	ssor based digital	controller with L	CD display						
		Type				Rotary				Scroll					
	Compressor	Qty	Nos.				1								
	·	Refrigerant	-				R41	0A							
		Type	-	Titanium tube in PVC shell											
		Qty	Nos.	1											
	Heat	Construction		Tube: tatanium: Shall: DVC											
	exchanger (water side)	Material	-	Tube: tatanium; Shell: PVC											
Key	(water side)	Max. working pressure	Bar	1.2											
omponents		Fan direction	-				Sid	e							
	_	Airflow	m³/h	1800	2000	2500	2500	2500	3300	5500	5500				
	Fan	Dia x Qty Material	mm x Nos.	320*1	400*1	420*1	420*1 plas	420*1	440*1	520*1	520*2				
		Output Power	Watts	25	25	40	40	50	90	90	180				
	Motor	RPM	-	850	850	850	850	850	810	810	810				
		Qty	Nos.	1	1	1	1	1	1	2	2				
		Type		_	_	_	_	Fin-tube	_	_	_				
	Coil	Tube dia	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52				
	Con	Row	-	1	1	2	2	2	2	2	2				
	Pated wa	ter flow rate	m³/h	2.2	3.0	4.0	5.2	6.0	8.2	10.7	13.3				
		essure drop	KPa	10	12	12	15	15	16	16	16				
	Nieżes Iso		-ID(A)	40	40	50	50	F0							
	Noise level	- Inl-+	dB(A)	48	48	50	50	50	53	55	55				
an anal data	Water	Inlet	Inch	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"				
eneral data		Outlet	Inch	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"				
	Dimmension	Net	mm		930*350*550		1010*370*614		1115*4		1115*470*125				
	:	Shipping	mm		1350*395*585			1205*525*725	1205*5		1205*525*1280				
	Weight	Net	Kg	34	52	55	70	91	106	111	115				
	-	Shipping	Kg	39	60	63	78	97	114	120	125				
	Loading Qty	20'/40'/40'HQ	Set(s)	102/210/210	102/210/210	102/210/210	96/198/198	57/93/93	38/62/62	38/62/62	19/31/62				

- 1. Conditions of "Heating (1)": Ambient air temperature DB/WB: 24°C/19°C, Inlet/Outlet water temperature:W26/28°C; 2. Conditions of "Heating (2)": Ambient air temperature DB/WB: 15°C/12°C, Inlet/Outlet water temperature:W26/28°C;
- 3. Conditions of "Cooling (1)": Ambient air temperature DB/WB: 35°C/24°C, Inlet/Outlet water temperature:W30/28°C; $4. \ Conditions \ of \ "Cooling (2)": Ambient \ air \ temperature \ DB/WB: \ 46^{\circ}C/24^{\circ}C, \ Inlet/Outlet \ water \ temperature: \ W30/28^{\circ}C \ ;$

SWIMMING POOL CHILLER & HEAT PUMP Residential Side Discharge, 60Hz

Technical Specifications

		Model		SPCH-1.0Sa	SPCH1.5Sa	SPCH2.0Sa	SPCH2.5Sa	SPCH3.0Sa	SPCH4.0Sa	SPCH5.0Sa	SPCH6.0Sa				
	Nominal h	eating capacity	KW/hour	5.8	8.05	10.6	13.8	16.1	22	28.75	35.6				
	Powe	er Supply	V/Hz/Ph		'	220-24	10/60/1	'			20/60/3 415V/60/3				
			W/hour	F800	0050	10000	12000	16100	22000		35650				
	Heating (1):	Heating capacity	BTU/hour	5800 19790	8050 27467	10600 36167	13800 47086	16100 54933	75064	28750 98095	121638				
	A24/19°C	Power consumption	Watts	1055	1438	1893	2509	2927	4074	5324	6602				
Heating	W26/28°C	СОР	W/W	5.5	5.6	5.6	5.5	5.5	5.4	5.4	5.4				
erformance		Current	A	4.8	6.5	8.6	11.4	13.3	18.5	9.5	11.8				
data		Heating capacity	W/hour	4930	6842.5	9010	11730	13685	18700	24437.5	30303				
			BTU/hour	16821	23347	30742	40023	46693	63804	83381	103392				
	Heating (2): A15/12°C	Power consumption	Watts	1060	1507	1959	2607	3041	4065	5431	6734				
	W26/28°C	COP	w/w	4.65	4.5	4.6	4.5	4.5	4.6	4.5	4.5				
			A		6.9	8.9	11.8		18.5	9.7	12.0				
		Current	W/hour	4.8 3700	5550	7360	9200	13.8 11000	14700	18400	22000				
		Cooling capacity													
	Cooling (1):		BTU/hour	12624.4	18936.6	25112.32	31390.4	37532	50156.4	62780.8	75064				
	A35/24°C W30/28°C	Power consumption	Watts	974	1388	1937	2453	2895	3973	5041	6111				
Cooling	· ·	EER	W/W	3.8	4	3.8	3.75	3.8	3.7	3.65	3.6				
erformance		Current	Α	4.4	6.3	8.8	11.2	13.2	18.1	9.0	10.9				
data		Cooling capacity	BTU/Hr	3145	4717.5	6256	7820	9350	12495	15640	18700				
	Cooling (2): A46/24°C	Power consumption	Watts	1035	1474	2058	2607	3076	4221	5356	6493				
	W30/28°C	EER	W/W	3.04	3.2	3.04	3	3.04	2.96	2.92	2.88				
		Current	Α	4.7	6.7	9.4	11.8	14.0	19.2	9.6	11.6				
	Controller	-	-		'	Micro proce	ssor based digita	l controller with L	.CD display						
		Type				Rotary	J			Scroll					
	Compressor	Qty	Nos.			•	1								
	i i	Refrigerant	-	R410A											
		Туре	-	Titanium tube in PVC shell											
		Qty	Nos.	1											
	Heat exchanger	Construction Material	-	Tube: tatanium; Shell: PVC											
Key	(water side)	Max. working pressure	Bar	1.2											
components		Fan direction	-				Sid	le							
		Airflow	m³/h	1800	2000	2500	2500	2500	3300	5500	5500				
	Fan	Dia x Qty	mm x Nos.	320*1	400*1	420*1	420*1	420*1	440*1	520*1	520*2				
		Material	-				plas	tic	•						
		Output Power	Watts	25	25	40	40	50	90	90	180				
	Motor	RPM	-	850	850	850	850	850	810	810	810				
		Qty	Nos.	1	1	1	1	1	1	2	2				
		Type						Fin-tube	•						
	Coil	Tube dia	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52				
		Row	-	1	1	2	2	2	2	2	2				
	Rated wa	iter flow rate	m³/h	2.5	3.5	4.6	5.9	6.9	9.5	12.4	15.3				
	Water p	ressure drop	KPa	10	12	12	15	15	16	16	16				
	Noise level	_	dB(A)	48	48	50	50	50	53	55	55				
	Water	Inlet	Inch	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"				
eneral data		Outlet	Inch	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"				
eneral data	Dimmension	Net	mm	1-1/2	930*350*550	1-1/2	1-1/2			70*945	1-1/2 1115*470*12!				
										25*975					
		Shipping	mm	24	1350*395*585		1085*390*722				1205*525*128				
	Weight	Net	Kg	34	52	55	70	91	106	111	115				
		Shipping	Kg	39	60	63	78	97	114	120	125				
	vit() paina	20'/40'/40'HQ	Set(s)	102/210/210	102/210/210	i i02/210/210	96/198/198	57/93/93	38/62/62	38/62/62	19/31/62				

- 1. Conditions of "Heating (1)": Ambient air temperature DB/WB: 24°C/19°C, Inlet/Outlet water temperature:W26/28°C; 2. Conditions of "Heating (2)": Ambient air temperature DB/WB: 15°C/12°C, Inlet/Outlet water temperature:W26/28°C; 3. Conditions of "Cooling (1)": Ambient air temperature DB/WB: 35°C/24°C, Inlet/Outlet water temperature:W30/28°C;
- $4. \ Conditions \ of \ "Cooling (2)": Ambient \ air \ temperature \ DB/WB: 46°C/24°C, \ Inlet/Outlet \ water \ temperature: W30/28°C; \ and \ Ambient \ air \ temperature: W30/28°C \ and \ an$

Technical SWIMMING POOL CHILLER & HEAT PUMP Specifications Residential Verticle Dischrage, 50Hz

		Model		SPCH-1.0V	SPCH1.5V	SPCH2.0V	SPCH2.5V	SPCH3.0V	SPCH4.0V	SPCH5.0V	SPCH6.0V				
		eating capacity	KW/hour	5.1	7	9.2	12	14	19	25	31				
	Pow	er Supply	V/Hz/Ph				10/50/1				415/50/3				
		Heating capacity	W/hour	5100	7000	9200	12000	14000	19000	25000	31000				
	Heating (1):		BTU/hour	17401	23884	31390	40944	47768	64828	85300	105772				
	A24/19°C	Power	Watts	927	1250	1643	2182	2545	3519	4630	5741				
	W26/28°C	consumption													
Heating		COP	W/W	5.5	5.6	5.6	5.5	5.5	5.4	5.4	5.4				
performance		Current	Α	4.2	5.7	7.5	9.9	11.6	16.0	8.3	10.3				
data		Heating capacity	W/hour	4335	5950	7820	10200	11900	16150	21250	26350				
	Heating (2):		BTU/hour	14791	20301	26682	34802	40603	55104	72505	89906				
	A15/12°C	Power	Watts	932	1311	1700	2267	2644	3511	4722	5856				
	W26/28°C	consumption	vvatts	932	1511	1700	2207	2044	3311	4/22	3630				
	W20/28 C	COP	W/W	4.65	4.5	4.6	4.5	4.5	4.6	4.5	4.5				
		Current	Α	4.2	6.0	7.7	10.3	12.0	16.0	8.4	10.5				
			W/hour	3300	4800	6500	8100	10500	12850	16500	19500				
		Cooling capacity	BTU/hour	11260	16378	22178	27637	35826	43844	56298	66534				
	Cooling (1):	Power													
	A35/24°C	consumption	Watts	868	1200	1711	2160	2763	3473	4521	5417				
Cooling	W30/28°C	EER	W/W	3.8	4	3.8	3.75	3.8	3.7	3.65	3.6				
performance		Current	A	3.9	5.5	7.8	9.8	12.6	15.8	8.1	9.7				
data		Cooling capacity	BTU/Hr	2805	4080	5525	6885	8925	10922.5	14025	16575				
uata	Cooling (2):		вто/пі	2005	4060	3323	0003	6925	10922.5	14025	103/3				
	A46/24°C	Power	Watts	923	1275	1817	2295	2936	3690	4803	5755				
		consumption					_								
	W30/28°C	EER	W/W	3.04	3.2	3.04	3	3.04	2.96	2.92	2.88				
		Current	Α	4.2	4.2 5.8 8.3 10.4 13.3 16.8 8.6 10.3 Micro processor based digital controller with LCD display										
	Controller	-	-				ssor based digital	l controller with L	.CD display						
		Type				Rotary				Scroll					
	Compressor	Qty	Nos.				1								
		Refrigerant	-	R410A											
		Type	-	Titanium tube in PVC shell											
	Heat	Qty	Nos.	1											
	exchanger	Construction		Tube: tatanium; Shell: PVC											
	- U	Material	-	rube, tatanium; Shell: PVC											
	(water side)	Max. working	D	1.2											
Key		pressure	Bar				1	2							
components		Fan direction	-				Vert	icle							
		Airflow	m³/h	1800	2000	2500	2500	2500	3300	5500	5500				
	Fan	Dia x Qty	mm x Nos.	400*1	400*1	420*1	420*1	420*1	440*1	520*1	520*2				
		Material	-				plas	tic							
		Output Power	Watts	25	25	40	40	50	90	90	180				
	Motor	RPM	-	850	850	850	850	850	810	810	810				
		Qty	Nos.	1	1	1	1	1	1	1	1				
		Type		_	-	-	-	Fin-tube	_	-	-				
	Coil	Tube dia	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52				
	Con	Row	-	1	1	2	2	2	2	2	2				
	Rated	ater flow rate	m³/h	2.2	3.0	4.0	5.2	6.0	8.2	10.7	13.3				
	nateu Wa	atel HOW late	111.711	2.2	5.0	4.0	5.2	0.0	0.2	10.7	13.3				
	Water p	ressure drop	KPa	10	12	12	15	15	16	16	16				
	Noise law!	_	dD(A)	40	40	F0	50	F0	F2						
	Noise level		dB(A)	48	48	50		50	53	55	55				
	Water	Inlet	Inch	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"				
General data		Outlet	Inch	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"				
	Dimmension	Net	mm	570x50			90x640		95x689x740		745x694x950				
	:	Shipping	mm	615x55			45x705		65x745x800		790x740x990				
	Weight	Net	Kg	45	52	55	70	85	106	107	127				
		Shipping	Kg	50	60	60	75	93	114	117	137				
	Loading Qty	20'/40'/40'HQ	Set(s)	108/228/228	108/228/228	63/144/144	63/144/144	42/96/144	42/96/144	42/96/144	42/90/90				
Notes:															

- 1. Conditions of "Heating (1)": Ambient air temperature DB/WB: 24°C/19°C, Inlet/Outlet water temperature:W26/28°C;
- $2. \ Conditions \ of \ "Heating (2)": Ambient \ air \ temperature \ DB/WB: 15°C/12°C, Inlet/Outlet \ water \ temperature: W26/28°C; \ in the conditions of \ "Heating (2)": Ambient \ air \ temperature \ DB/WB: 15°C/12°C, Inlet/Outlet \ water \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature \ DB/WB: 15°C/12°C, Inlet/Outlet \ water \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \ temperature: W26/28°C; \ in the conditions \ of \ "Heating (2)": Ambient \ air \$
- 3. Conditions of "Cooling (1)": Ambient air temperature DB/WB: 35°C/24°C, Inlet/Outlet water temperature:W30/28°C; 4. Conditions of "Cooling (2)": Ambient air temperature DB/WB: 46°C/24°C, Inlet/Outlet water temperature:W30/28°C;

SWIMMING POOL CHILLER & HEAT PUMP Residential Verticle Dischrage, 60Hz

Technical Specifications

		Model		SPCH-1.0V	SPCH1.5V	SPCH2.0V	SPCH2.5V	SPCH3.0V	SPCH4.0V	SPCH5.0V	SPCH6.0V			
	Nominal h	eating capacity	KW/hour	5.8	8.05	10.6	13.8	16.1	22	28.75	35.6			
	Pow	er Supply	V/Hz/Ph			220-24	10/60/1				0/60/3 115V/60/3			
			W/hour	5800	8050	10600	13800	16100	22000	28750	35600			
	Heating (1):	Heating capacity	BTU/hour	19790	27467	36167	47086	54933	75064	98095	121467			
	A24/19°C	Power consumption	Watts	1055	1438	1893	2509	2927	4074	5324	6593			
Heating	W26/28°C	COP	W/W	5.5	5.6	5.6	5.5	5.5	5.4	5.4	5.4			
erformance		Current	Α	4.8	6.5	8.6	11.4	13.3	18.5	9.5	11.8			
data			W/hour	4930	6842.5	9010	11730	13685	18700	24437.5	30260			
	Heating (2):	Heating capacity Power	BTU/hour	16821	23347	30742	40023	46693	63804	83381	103247			
	A15/12°C W26/28°C	consumption	Watts	1060	1507	1959	2607	3041	4065	5431	6724			
	W20/28 C	COP	W/W	4.65	4.5	4.6	4.5	4.5	4.6	4.5	4.5			
		Current	Α	4.8	6.9	8.9	11.8	13.8	18.5	9.7	12.0			
		Cooling consoit.	W/hour	3700	5550	7360	9200	11000	14700	18400	22000			
	Cooling (1):	Cooling capacity	BTU/hour	12624	18937	25112	31390	37532	50156	62781	75064			
	A35/24°C W30/28°C	Power consumption	Watts	974	1388	1937	2453	2895	3973	5041	6111			
Cooling	W30/28 C	EER	W/W	3.8	4	3.8	3.75	3.8	3.7	3.65	3.6			
performance		Current	Α	4.4	6.3	8.8	11.2	13.2	18.1	9.0	10.9			
data	Cooling (2).	Cooling capacity	BTU/Hr	3145	4717.5	6256	7820	9350	12495	15640	18700			
	Cooling (2): A46/24°C	Power consumption	Watts	1035	1474	2058	2607	3076	4221	5356	6493			
	W30/28°C	EER	W/W	3.04	3.2	3.04	3	3.04	2.96	2.92	2.88			
		Current	Α	4.7	6.7	9.4	11.8	14.0	19.2	9.6	11.6			
	Controller	-	-			Micro proce	ssor based digital	controller with L	CD display					
		Туре				Rotary				Scroll				
	Compressor	Qty	Nos.				1							
		Refrigerant	-				R41	0A						
		Туре	-				Titanium tube	in PVC shell						
		Qty	Nos.				1							
	Heat	Construction												
	exchanger	Material	-	Tube: tatanium; Shell: PVC										
Key	(water side)	Max. working pressure	Bar	1.2										
components		Fan direction	_	Verticle										
		Airflow	m³/h	1800	2000	2500	2500	2500	3300	5500	5500			
	Fan	Dia x Qty	mm x Nos.	400*1	400*1	420*1	420*1	420*1	440*1	520*1	520*2			
		Material	-	400 1	400 1	420 1	plas		440 1	320 1	320 2			
		Output Power	Watts	25	25	40	40	50	90	90	180			
	Motor	RPM	- vvalls	850	850	850	850	850	810	810	810			
	IVIOLOI	KPIVI								1	1			
		Otv		1 1 1 1 1 1							1			
		Qty	Nos.	_	-	Fin-tube								
	Coil	Type				0.52	0.52		0.52	0.52	0.53			
	Coil	Type Tube dia	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52			
		Type Tube dia Row	mm -	9.52 1	9.52 1	2	2	9.52 2	2	2	2			
	Rated wa	Type Tube dia Row ater flow rate	mm - m³/h	9.52 1 2.5	9.52 1 3.5	2 4.6	2 5.9	9.52 2 6.9	2 9.5	2 12.4	2 15.3			
	Rated wa	Type Tube dia Row ater flow rate ressure drop	mm - m³/h KPa	9.52 1 2.5 10	9.52 1 3.5 12	2 4.6 12	2 5.9 15	9.52 2 6.9 15	2 9.5 16	2 12.4 16	2 15.3 16			
	Rated wa Water p Noise level	Type Tube dia Row eter flow rate ressure drop	mm - m³/h KPa dB(A)	9.52 1 2.5 10 48	9.52 1 3.5 12	2 4.6 12 50	2 5.9 15 50	9.52 2 6.9 15	2 9.5 16 53	2 12.4 16 55	2 15.3 16 55			
	Rated wa Water p Noise level Water	Type Tube dia Row ater flow rate ressure drop - Inlet	mm - m³/h KPa dB(A) Inch	9.52 1 2.5 10 48 1-1/2"	9.52 1 3.5 12 48 1-1/2"	2 4.6 12 50 1-1/2"	2 5.9 15 50 1-1/2"	9.52 2 6.9 15 50 1-1/2"	2 9.5 16 53 1-1/2"	2 12.4 16 55 1-1/2"	2 15.3 16 55 1-1/2"			
Seneral data	Rated wa Water p Noise level Water Connection	Type Tube dia Row ater flow rate ressure drop - Inlet Outlet	mm - m³/h KPa dB(A)	9.52 1 2.5 10 48 1-1/2" 1-1/2"	9.52 1 3.5 12 48 1-1/2" 1-1/2"	2 4.6 12 50 1-1/2" 1-1/2"	2 5.9 15 50 1-1/2" 1-1/2"	9.52 2 6.9 15 50 1-1/2" 1-1/2"	2 9.5 16 53 1-1/2" 1-1/2"	2 12.4 16 55	2 15.3 16 55 1-1/2" 1-1/2"			
Seneral data	Rated wa Water p Noise level Water	Type Tube dia Row ater flow rate ressure drop - Inlet	mm - m³/h KPa dB(A) Inch	9.52 1 2.5 10 48 1-1/2" 1-1/2" 570x50	9.52 1 3.5 12 48 1-1/2" 1-1/2"	2 4.6 12 50 1-1/2" 1-1/2" 695x6	2 5.9 15 50 1-1/2" 1-1/2" 90x640	9.52 2 6.9 15 50 1-1/2" 1-1/2"	2 9.5 16 53 1-1/2" 1-1/2" 95x689x740	2 12.4 16 55 1-1/2"	2 15.3 16 55 1-1/2" 1-1/2" 745x694x950			
Seneral data	Rated wa Water p Noise level Water Connection	Type Tube dia Row ster flow rate ressure drop Inlet Outlet Net Shipping	mm - m³/h KPa dB(A) Inch	9.52 1 2.5 10 48 1-1/2" 1-1/2" 570x50	9.52 1 3.5 12 48 1-1/2" 1-1/2"	2 4.6 12 50 1-1/2" 1-1/2" 695x6	2 5.9 15 50 1-1/2" 1-1/2" 90x640 '45x705	9.52 2 6.9 15 50 1-1/2" 1-1/2"	2 9.5 16 53 1-1/2" 1-1/2" 95x689x740 55x745x800	2 12.4 16 55 1-1/2"	2 15.3 16 55 1-1/2" 1-1/2" 745x694x950 790x740x990			
General data	Rated wa Water p Noise level Water Connection Dimmension :	Type Tube dia Row ster flow rate ressure drop - Inlet Outlet Net	mm - m³/h KPa dB(A) Inch Inch mm	9.52 1 2.5 10 48 1-1/2" 1-1/2" 570x50	9.52 1 3.5 12 48 1-1/2" 1-1/2"	2 4.6 12 50 1-1/2" 1-1/2" 695x6	2 5.9 15 50 1-1/2" 1-1/2" 90x640	9.52 2 6.9 15 50 1-1/2" 1-1/2"	2 9.5 16 53 1-1/2" 1-1/2" 95x689x740	2 12.4 16 55 1-1/2"	2 15.3 16 55 1-1/2"			
General data	Rated wa Water p Noise level Water Connection Dimmension	Type Tube dia Row ster flow rate ressure drop Inlet Outlet Net Shipping	mm - m³/h KPa dB(A) Inch Inch mm mm	9.52 1 2.5 10 48 1-1/2" 570x5(615x5) 45	9.52 1 3.5 12 48 1-1/2" 1-1/2" 00x640 50x705	2 4.6 12 50 1-1/2" 1-1/2" 695x6 765x7	2 5.9 15 50 1-1/2" 1-1/2" 90x640 '45x705	9.52 2 6.9 15 50 1-1/2" 1-1/2" 69	2 9.5 16 53 1-1/2" 1-1/2" 95x689x740 55x745x800	2 12.4 16 55 1-1/2" 1-1/2"	2 15.3 16 55 1-1/2" 1-1/2" 745x694x950 790x740x990			

- 1. Conditions of "Heating (1)": Ambient air temperature DB/WB: 24°C/19°C, Inlet/Outlet water temperature:W26/28°C;
- 2. Conditions of "Heating (2)": Ambient air temperature DB/WB: 15°C/12°C, Inlet/Outlet water temperature:W26/28°C;
- 3. Conditions of "Cooling (1)": Ambient air temperature DB/WB: 35°C/24°C, Inlet/Outlet water temperature:W30/28°C;
- $4. \ Conditions \ of \ "Cooling \ (2)": Ambient \ air \ temperature \ DB/WB: \ 46°C/24°C, \ Inlet/Outlet \ water \ temperature: W30/28°C; \ (2)$



Technical SWIMMING POOL CHILLER & HEAT PUMP Specifications Commercial Range, 50Hz

		Model		SPCH10	SPCH12	SPCH15	SPCH20	SPCH25	SPCH30	SPCH40	SPCH50					
	Nominal h	eating capacity	KW/hour	45	55	65	90	120	145	190	220					
	Powe	er Supply	V/Hz/Ph				380-4	15/50/3								
			KW/hour	45	55	65	90	120	145	190	220					
		Heating capacity	BTU/hour	153540	187660	221780	307080	409440	494740	648280	750640					
	Heating (1):	_	2.0,		-51.555											
	A24/19°C	Power	KW/hour	8	10	12	17	22	26	35	40					
Handhan	W26/28°C	consumption COP	W/W	5.6	5.6	5.5	5.4	5.5	5.6	5.4	5.5					
Heating erformance		Current	A	14.4	17.6	21.1	29.8	39.0	46.3	62.9	71.5					
data			KW/hour	38	47	55	77	102	123	162	187					
		Heating capacity	BTU/hour	130509	159511	188513	261018	348024	420529	551038	638044					
	Heating (2):	Power														
	A15/12°C	consumption	KW	8	9	11	16	21	25	34	39					
	W26/28°C	COP	W/W	4.9	4.9	4.8	4.8	4.8	4.9	4.8	4.8					
		Current	Α	13.9	17.0	20.4	28.8	37.7	44.7	60.7	69.1					
		Cooling capacity	KW/hour	35	42	53	70	88	105	140	175					
	Cooling (1):	Cooling capacity	BTU/hour	119420	143304	179130	238840	298550	358260	477680	597100					
	A35/24°C	Power	Watts	9	11	13	19	23	28	37	46					
	W30/28°C	consumption		9	11	15	19	23	20	37	40					
Cooling	VV30/20 C	EER	W/W	3.9	3.8	4	3.75	3.8	3.7	3.8	3.8					
erformance		Current	A	16.0	19.8	23.5	33.4	41.2	50.7	65.9	82.3					
data		Cooling capacity	KW/hour	29.8	35.7	44.6	59.5	74.4	89.3	119.0	148.8					
uutu	Cooling (2):	Cooling Capacity	BTU/Hr	101507	121808	152261	203014	253768	304521	406028	507535					
	A46/24°C	Power	кw	9	11	14	19	24	27	37	46					
	W30/28°C	consumption														
	W30/28 C	EER	W/W	3.20	3.20	3.11	3.20	3.15	3.30	3.20	3.20					
		Current	Α	16.6	19.9	25.6	33.2	42.2	48.3	66.5	83					
	Controller	-	-			Micro	processor based digi	tal controller with LO	CD display							
		Туре						croll								
	Compressor	Qty	Nos.	2	1	3	2	2	3	4	4					
		Refrigerant	-		R410A / R407C / R417A											
		Type	-		Titanium tube-in-shell											
	Heat	Construction	-	Tube: tatanium; Shell: PVC												
	exchanger	Material														
	(water side)	Max. working	Bar	1.2												
Key		pressure Fan direction		Vertical												
mponents		Airflow	m³/h	13000	13000	20000	26000	32000	39000	60000	60000					
	Fan	Dia x Qty	mm x Nos.	600×2	600×2	710×2	710×2	850×2	900×2	710×4	850×4					
		Material	111111 X 1403.	000^2	000^2	710~2		num alloy	300^2	710^4	830^4					
		Output Power	Watts	850*2	850*2	900*2	900*2	1100*2	1500*2	1100*4	1100*4					
	Motor	RPM	watts	950	950	950	950	950	950	950	950					
	WIOTOI	Qty	Nos.	2	2	2	2	2	2	4	4					
		Type	1403.	-		_		e-tube	-		, ,					
	Coil	Tube dia	mm					9.52								
	Con	Row		2	2	2	3	3	3	4	4					
	Rated water		m³/h	19	24	28	39	52	62	82	95					
			·													
	Water p	ressure drop	KPa	18	18	18	18	25	30	30	30					
	Noise level	-	dB(A)	56	56	56	56	62	62	65	65					
	Noise level	Inlet	Inch	2+1/2"	2+1/2"	2+1/2"	2+1/2"	2+1/2"	(2+1/2")*2	(2+1/2")*2	(2+1/2")*2					
	Water			2+1/2"	2+1/2"	2+1/2"	2+1/2"	2+1/2"	(2+1/2")*2	(2+1/2")*2	(2+1/2")*2					
eneral da <u>ta</u>		Outlet	ı ıncn ı				1700*1100*1820	2000*1100*2020	2300*1100*2020							
eneral data	Water	Outlet Net	Inch mm	1420*7	60*1040	1420*760*1250	1/00 1100 1020		2300.1100.2020	2600*110	00~1960					
eneral data	Water Connection	Net	mm													
eneral data	Water Connection Dimmension :	Net Shipping	mm mm		60*1040 20*1170 385	1420*/60*1250 1480*820*1380 500	1760*1160*1950 570	2060*1160*2150 600	2360*1160*2150 2360*1160*2150	2600*110 2600*110 1180						
eneral data	Water Connection Dimmension	Net	mm	1480*8	20*1170	1480*820*1380	1760*1160*1950	2060*1160*2150	2360*1160*2150	2600*11	60*2090					

- 1. Conditions of "Heating (1)": Ambient air temperature DB/WB: 24°C/19°C, Inlet/Outlet water temperature:W26/28°C;
 2. Conditions of "Heating (2)": Ambient air temperature DB/WB: 15°C/12°C, Inlet/Outlet water temperature:W26/28°C;
 3. Conditions of "Cooling (1)": Ambient air temperature DB/WB: 35°C/24°C, Inlet/Outlet water temperature:W30/28°C;
 4. Conditions of "Cooling (2)": Ambient air temperature DB/WB: 46°C/24°C, Inlet/Outlet water temperature:W30/28°C;
- Blueway reserves that rights to modify the above specifications without notice..Please contact us for updated inforamtion.

SWIMMING POOL CHILLER & HEAT PUMP Commercial Range, 60Hz

Technical Specifications

		Model		SPCH10	SPCH12	SPCH15	SPCH20	SPCH25	SPCH30	SPCH40	SPCH50					
		eating capacity	KW/hour	52	65	75	105	135	165	220	250					
	Powe	er Supply	V/Hz/Ph				t and the second se	115/60/3		ı						
			KW/hour	52	65	75	105	135	165	220	250					
	Heating (1):	Heating capacity	BTU/hour	177424	221780	255900	358260	460620	562980	750640	853000					
	A24/19°C W26/28°C	Power consumption	KW/hour	9	12	14	19	25	29	41	45					
Heating		COP	W/W	5.6	5.6	5.5	5.4	5.5	5.6	5.4	5.5					
rformance		Current	Α	16.6	20.7	24.4	34.8	43.9	52.7	72.8	81.3					
data			KW/hour	44	55	64	89	115	140	187	213					
	11	Heating capacity	BTU/hour	150810.4	188513	217515	304521	391527	478533	638044	725050					
	Heating (2): A15/12°C	Power consumption	KW	9	11	13	19	24	28	39	44					
	W26/28°C	COP	W/W	4.9	4.9	4.8	4.8	4.8	4.9	4.8	4.8					
		Current	A	16.0	20.0	23.5	33.6	42.4	50.9	70.3	78.5					
			KW/hour	40	48	61	80	100	120	160	200					
		Cooling capacity	BTU/hour	136480	163776	208132	272960	341200	409440	545920	682400					
	Cooling (1):	Power														
	A35/24°C	consumption	Watts	10	13	15	21	26	32	42	53					
	W30/28°C	EER	W/W	3.9	3.8	4	3.75	3.8	3.7	3.8	3.8					
Cooling		Current	A	18.3	22.6	27.3	38.1	47.0	58.0	75.3	94.1					
rformance			KW/hour	39.0	47.0	60.0	78.0	98.0	117.0	156.0	195.0					
data		Cooling capacity	BTU/Hr	133068	160364	204720	266136	334376	399204	532272	665340					
	Cooling (2):	Power	БТО/ТП	133000	100304	204720	200130	334370	333204	332272	003340					
	A46/24°C	consumption	KW	12	15	19	24	31	35	49	61					
	W30/28°C	EER	14//14/	3.20	3.20	3.11	3.20	3.15	3.30	3.20	3.20					
			W/W			3.11	43.6	55.6	63.4	3.20 87.1	109					
		Current	Α	21.8	26.3		processor based dig			87.1	109					
	Controller	T	-			IVIICIO			LD display							
	Compressor	Туре	Non	Scroll 2 1 3 2 2 3 4 4												
		Qty	Nos.	2	1	3			3	4	4					
		Refrigerant	-		R410A / R407C / R417A Titanium tube-in-shell											
	114	Туре	-													
	Heat exchanger	Construction Material	-	Tube: tatanium; Shell: PVC												
Key	(water side)	Max. working pressure	Bar	1.2												
omponents		Fan direction	-				Ve	ertical								
	Fan	Airflow	m³/h	13000	13000	20000	26000	32000	39000	60000	60000					
	rall	Dia x Qty	mm x Nos.	600×2	600×2	710×2	710×2	850×2	900×2	710×4	850×4					
		Material	-				Allumi	num alloy								
		Output Power	Watts	850*2	850*2	900*2	900*2	1100*2	1500*2	1100*4	1100*4					
	Motor	RPM	-	950	950	950	950	950	950	950	950					
		Qty	Nos.	2	2	2	2	2	2	4	4					
		Туре					Fin	e-tube								
	Coil	Tube dia	mm				!	9.52								
		Row	-	2	2	2	3	3	3	4	4					
	Rated water f	low rate	m³/h	22	28	32	45	58	71	95	107					
	Water p	ressure drop	KPa	18	18	18	18	25	30	30	30					
	Noise level	-	dB(A)	56	56	56	56	62	62	65	65					
	Water	Inlet	Inch	2+1/2"	2+1/2"	2+1/2"	2+1/2"	2+1/2"	(2+1/2")*2	(2+1/2")*2	(2+1/2")					
neral data		Outlet	Inch	2+1/2"	2+1/2"	2+1/2"	2+1/2"	2+1/2"	(2+1/2")*2	(2+1/2")*2	(2+1/2")					
	Dimmension	Net	mm		60*1040	1420*760*1250	1700*1100*1820	2000*1100*2020	2300*1100*2020	2600*11						
	:	Shipping	mm		20*1170	1480*820*1380	1760*1160*1950	2060*1160*2150	2360*1160*2150	2600*11						
		Net	Kg	380	385	500	570	600	1140	1180	1200					
	Weight	Shipping	Kg	410	415	535	600	635	1180	1230	1250					
				14/28/28	14/28/28	7/14/14	2006-12-12	2005-10-10	4/8/8	4/8/8	4/8/8					
	Loading Qty	20'/40'/40'HQ	Set(s)													



^{1.} Conditions of "Heating (1)": Ambient air temperature DB/WB: 24°C/19°C, Inlet/Outlet water temperature:W26/28°C;

^{2.} Conditions of "Heating (2)": Ambient air temperature DB/WB: 15°C/12°C, Inlet/Outlet water temperature:W26/28°C; 3. Conditions of "Cooling (1)": Ambient air temperature DB/WB: 35°C/24°C, Inlet/Outlet water temperature:W30/28°C;

 $^{4. \} Conditions \ of \ "Cooling (2)": Ambient air temperature \ DB/WB: \ 46°C/24°C, Inlet/Outlet \ water temperature: W30/28°C; \ Ambient \ Ambi$

Indoor Pool One System Delivers Everything You Need! Environment Control System



Indoor Pool Environment Control System

Model		ВНР	15	20	25	30	40	50	60	80	100	120	160	
Power Supl	ly	V/P/Hz					380-415/	3/50 or 20	8-2303/6	0				
Output	Cooling	kW/h	25	33	41	51	65	82	97	131	163	192	241	
Output	Heating	kW/h	30	39	47	60	78	106	128	170	214	243	280	
Dehumidifi	cation capacity	Kg/h	17	22	26	33	43	51	62	84	102	122	160	
Application	Application pool surface		68	88	104	132	172	204	248	336	408	488	640	
Rated Airflo	ow .	m³ @300Pa	4000	5000	6000	7500	9000	11000	13000	16600	21000	25000	32000	
	Qty	Nos.	2	2	2	2	2	2	2	2	2	2	2	
Blower	Туре	-						ıl						
Diowei	Static pressure	Pa	100-500	100-500	100-500	100-500	100-850	100-850	100-850	100-850	100-850	100-850	100-850	
	Power input	KW	1.5	1.5	2.2	2.2	3.5	4	5.5	6	7	7.5	11	
Compresso	Qty	Nos.	1	1	1	2	2	2	2	2 or 4	2 or 4	2 or 4	2 or 4	
r	Туре			Scroll										
•	Power input	KW	5.5	7	8.5	5.4	7	8.5	11	7 or 13	8.5 or	11 or 22	13 or 25	
	Туре	-	Titanium Tube in PVC Shell											
Water Heat	Rated working	Мра	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
Exchanger	Max.water	°C	40	40	40	40	40	40	40	40	40	40	40	
Condenser	Rated water	m³	4.7	6.1	7.2	9.4	12.2	14.5	18.8	24.6	30.6	37.5	48	
	Water	mm	32	32	38	50	50	63	63	75	75	90	100	
	Qty	Nos.	1	1	1	1	1	1	1	2	2	2	2	
Air Cooled	Rated capacity	KW	30	39	47	60	78	96	118	150	184	223	278	
Condenser	Rated airflow	m^3	10000	12000	15000	20000	24000	30000	40000	48000	60000	80000	90000	
Condenser	Nos. of fan	Nos.	1	1	1	2	2	2	2	4	4	4	4	
	Fan motor	KW	0.82	0.82	1.65	0.82	0.82	0.82	0.82	0.82	0.82	1.1	1.1	
	Outdoor W	mm	706	1450	1450	1450	1800	1850	2110	1800	1850	2110	2500	
	condenser	mm	686	705	705	705	705	1000	1100	1000	1000	1100	1200	
Dimension	H	mm	940	1065	1065	1065	1065	1320	1350	1320	1320	1350	1350	
Difficitsion	Indoor	mm	3600	3800	3600	3800	4200	4600	4900	5400	5800	6600	7000	
	main unit	mm	1370	1520	1570	1670	1670	1930	2160	2200	2200	2150	2200	
	Н	mm	1160	1160	1260	1360	1450	1520	1690	1840	2150	2200	2500	
Indoor Mai	n Unit Weight	Kg	500	800	900	1200	1500	1650	1850	2200	2500	2700	3300	

Notes:

- 1. The above ratings are based AHRI standard 910-2011 (Performance Rating of Indoor Pool Dehumidifiers):Outdoor ambient DB 35 $^{\circ}$ C, Pool water temp. 27 $^{\circ}$ C, Chiller water temp. 7 $^{\circ}$ C;
- 2. The design and specifications are subject to change without notice.

Environment Control System

Blueway Indoor Pool Environment Control Systems provide effective control of damaging moisture common within indoor pool facilities. They maintain a delicate balance of humidity control and manage air and water temperatures for maximum comfort at the lowest cost. This series uses heat pump technology to dehumidify the space and recycle the waste energy to heat both the air and pool water. They are available in many sizes and a variety of configurations for large indoor pools found in hotels, schools, natatoriums, aquatic centers and water parks.

Built for the Corrosive Pool Environment

Blueway dehumidifiers have many special design features to minimize maintenance and extend the life of the unit. All critical components are located out of the corrosive air stream, and coils are constructed from all copper and coated aluminum fins for long life. Blueway uses fullsize air/water condensers for maximum pool and air heating or cooling. It utilizes a sophisticated PLC (Programmable Logic Controller) that offers highly efficient control strategies for more efficient intelligent pool operation. All units are constructed of heavy-gauge steel with side and roof panels galvanized and epoxy powder coated to resist corrosion. Panel insulation provides additional energy efficiency along with sound control for indoor and outdoor installations.



Recycled Energy Lessens the Need for Fossil Fuel Heating

Indoor pools demand large quantities of heat to maintain space and water comfort conditions. Rather than relying on fossil fuel as the primary heat source, Blueway units utilize waste heat generated during dehumidification to heat the space and pool water. Blueway units return much more energy than they use with average recorded savings ranging from 40% to 60% over conventional outside air dilution systems. For every kilowatt of electrical power used to operate a Blueway system, five kilowatts of heat are delivered to the natatorium air and water.

High Efficiency and Environmentally Friendly

All models use environmentally-friendly R417A or R410A refrigerant and deliver excellent performance characteristics. Staged compressor cycling ensures minimum compressor operation for any given load for greater efficiency, and also maintains a high quality environment. The systems can be configured to return condensate back to the pool, saving the equivalent of the entire pool's volume over one year. For improved air quality, plasma filters can be added.

Rugged Features delivers Unrivaled Performance

- Scroll compressor, efficient and guiet operation
- Coated evaporator and reheat condenser coils, long life
- Titanium Tube-in-Shell water heat exchanger
- Powder coated cabinet, corrosion resistant
- PLC controller with user friendly interface
- Remote monitoring by phone or internet
- Self diagnosis







FOSHAN BLUEWAY ELECTRIC APPLIANCES CO.,LTD.

ADD: 2-9# Zhanye Rd, Honggang Industrial Area, Shunde District, Foshan Guangdong

Tel: +86 757 22629989/22629286

Fax: +86 757 26154598

Email: info@heatpumpworld.com

Website: www.heatpumpworld.com wv

www.blueway.hk

