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Swimming Pool Chiller & Heat Pump

The Most Energy Efficient Solution to Heating and Cooling your pools

JUST IMAGINE WHAT A PLEASANT SWIM SHOULD BE

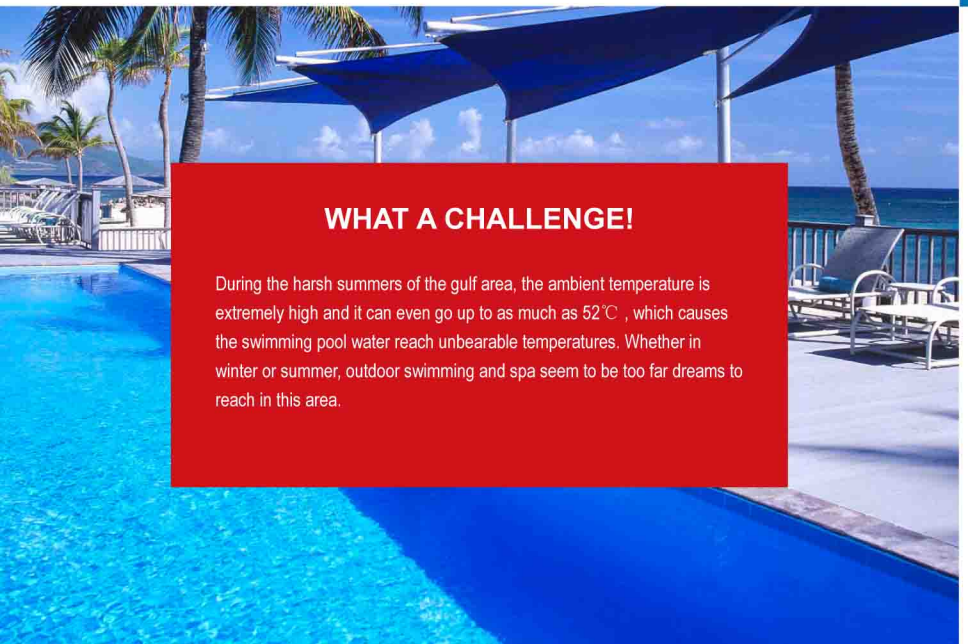
For a swim to be refreshing and animating, the pool water must be the right temperature for the swimmer, regardless of the influence of seasonal weather, extremely hot or cold. Reliable swimming pool temperature control is a key feature to enjoyable swimming.

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.



WHAT A CHALLENGE!

During the harsh summers of the gulf area, the ambient temperature is extremely high and it can even go up to as much as 52℃ , which causes the swimming pool water reach unbearable temperatures. Whether in winter or summer, outdoor swimming and spa seem to be too far dreams to reach in this area.

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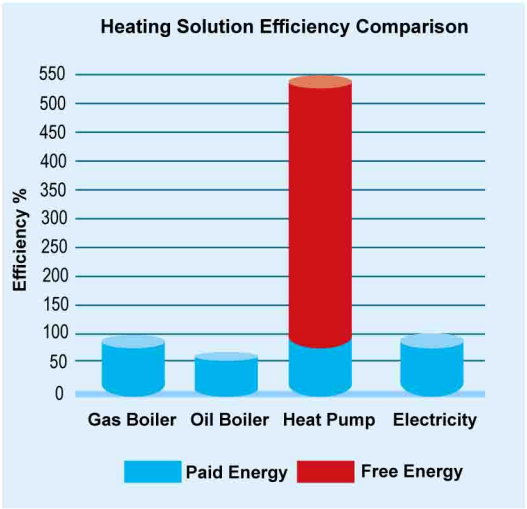
IS THERE A SOLUTION ?

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.



Swimming Pool
Chiller & Heat Pump On/off & Inverter Type

Blueway Swimming Pool Chiller & Heat Pump is specially designed and engineered for water temperature control of swimming pool and spa in the hot summer and cold winter. The unit works as a chiller in summer and heat pump in other seasons, offering the most energy efficient pool & spa chilling and heating.

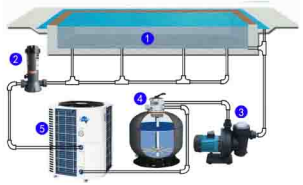
Compared to gas, oil, or electric heaters, operation cost of swimming pool water chiller & heat pumps is up to 60%~80% less, saving your expenses in energy costs each year. Additionally, thanks to the ideal design of the systems, the T3 SPCH series units are able to withstand the harsh summer weather conditions and can operate at ambient temperature as high as 53℃ in the gulf area without compressor tripping or failure.

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

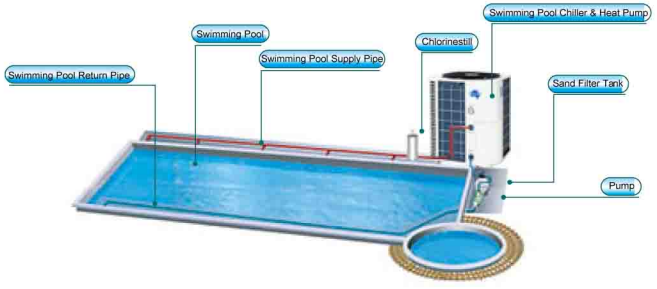
WHETHER HOT OR COLD WHEATHER, OUTDOOR SWIMMING AND SPA ARE NO LONGER UNREACHABLE DREAMS!

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

Connection



Application



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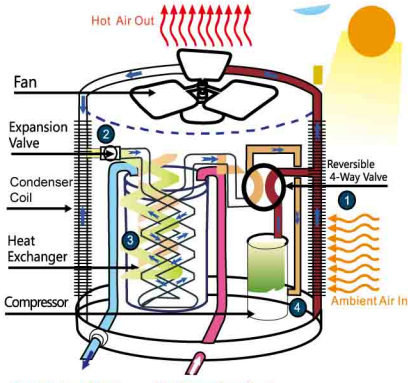
How does A SPCH Unit Work?

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.

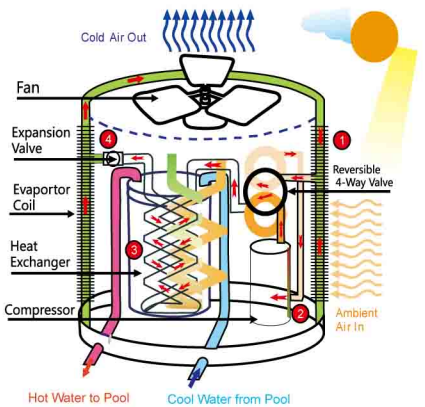
AS A HEAT PUMP

1 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.

2 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.



Features & Highlights

R32 R410A

- Using heat energy from ambient & reproduces more heat energy, saving 60%~80% energy compared to traditional heaters.
- Titanium tube-in-shell heat exchanger resists harsh pool chemicals and corrosion.
- Providing heating in winter and chilling in summer for spa and swimming pool in domestic and commercial applications.
- Long-life and corrosion resistant composite cabinet stands up to severe climates & pool chemicals.
- Famous brand compressor ensures outstanding performance, ultra energy efficiency,durability and quiet operation.
- Intelligent digital controller with friendly user interface and blue LCD back light.
- Self-diagnostic control panel monitors and troubleshoots heat pump operations to ensure safe and reliable operation.
- The heat pump can operate at ambient air temperature of -10℃ -53℃ .

Product Appearance

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Reliable Quality of Key Components

Evaporator / Condenser Coil

The evaporator or 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.

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.

High Efficiency Marine-Grade Titanium Heat Exchanger

1) High efficiency and super corrosion resistant
2) High working pressure
3) Reliability and long lasting life span
4) Low maintenance

High Efficiency Rotary or Scroll Compressor

1) With tropical resistance capacity
2) High efficienty and energy saving
3) Quiet operation due to less moving parts
4) Adopt famous brand rotary or scroll compressor

T1 Residential Swimming Pool Chiller & Heat Pump (50Hz) *(On/Off Type)*

Technical Specifications

Model				SPCH1.0S	SPCH1.5S	SPCH2.0S	SPCH3.0S	SPCH3.5S	SPCH5.0S	SPCH6S	SPCH7S
HP				1	1.5	2	3	3.5	5	6	7
Power Supply			V/Hz/Ph	220-240/50/1						380-415/50/3	
Heating performance	Heating (1): A26°C Humidity 80% W26/28°C	Heating capacity	kW/h	4.3	6.5	8.6	12.9	14	21.5	26	29.5
			btu/h	14672	22178	29343	44015	47768	73358	88712	100654
		Power consumption	kW	0.75	1.18	1.51	2.28	2.45	3.63	4.41	4.96
		COP	w/w	5.73	5.5	5.7	5.65	5.71	5.92	5.9	5.95
	Heating (2): A15°C Humidity 70% W26/28°C	Heating capacity	kW/h	3.8	5.7	7.6	11.4	12.37	15.8	19	21
			btu/h	12966	19448	25931	38897	42206	53910	64828	71652
		Power consumption	kW	0.85	1.32	1.69	2.55	2.77	3.21	3.96	4.29
		COP	w/w	4.47	4.31	4.5	4.47	4.47	4.9	4.8	4.9
Cooling performance	Cooling: A35°C W30/28°C	Cooling capacity	kW/h	2.7	3.6	5.6	8.2	10.2	13.6	15.5	17.5
			btu/h	9212	12283	19107	27978	34632	46403	52886	59710
		Power consumption	kW	0.82	1.07	1.69	2.46	2.46	4.14	4.59	5.15
		EER	w/w	3.3	3.35	3.32	3.33	3.33	3.28	3.38	3.4
Ambient temp. range			°C	-7~46							
Rated/Max.outlet water temp.			°C	28/40							
Rated water flow rate			m^3/h	1.8	2.8	3.7	5.5	6.0	9.2	11.2	12.7
Rated pressure drop			kPa	10	12	12	15	15	16	16	16
Controller			-	Micro processor based digital wire controller with LCD display							
External cabinet			-	Galvanized steel with powder coating							
Compressor		Type	-	Rotary							
		Qty.	Nos.	1							
		Refrigerant	-	R32/R410a							
Water heat exchanger			-	Titanium tube in PVC shell							
Water connection		Inlet&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"
Sound pressure at 1m			dB(A)	48	50	52	54	54	58	59	59
Air discharge			-	Side discharge							
Net dimension		W*D*H	mm	930*360*550	930*360*550	1010*370*620	1115*470*700	1115*470*700	1900*430*1275	1900*430*1275	1900*430*1275
Net weight			kg	40	41	44	46	46	120	125	130

Notes:
1.Conditions of "Heating (1)": Ambient air temperature: 26°C, Humidity 80%, Inlet/Outlet water temperature: W26/28°C ;
2.Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W26/28°C ;
3.Conditions of "Cooling": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W30/28°C ;
Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

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T1 Residential Swimming Pool Chiller & Heat Pump (60Hz) *(On/Off Type)*

Technical Specifications

Model				SPCH1.0Sa	SPCH1.5Sa	SPCH2.0Sa	SPCH3.0Sa	SPCH3.5Sa	SPCH5.0Sa	SPCH6Sa	SPCH7Sa
HP				1	1.5	2	3	3.5	5	6	7
Power Supply			V/Hz/Ph	208-230/60/1						208-230/60/3, 380-415/60/3	
Heating performance	Heating (1): A26°C Humidity 80% W26/28°C	Heating capacity	kW/h	3.9	5.60	8.0	10.5	14	21	26.50	30.00
			btu/h	13307	19107	27296	35826	47768	69946	90418	102360
		Power consumption	kW	0.70	1.02	1.40	1.94	2.6	3.60	4.49	5.26
		COP	w/w	5.6	5.5	5.7	5.4	5.4	5.7	5.9	5.7
	Heating (2): A15°C Humidity 70% W26/28°C	Heating capacity	kW/h	3.10	4.20	5.8	8	10.6	15	20.00	23.0
			btu/h	10577	14330	19790	27296	36167	51180	68240	78476
		Power consumption	kW	0.67	0.95	1.29	1.78	2.36	3.26	4.26	5.11
		COP	w/w	4.6	4.4	4.5	4.5	4.5	4.6	4.7	4.5
Cooling performance	Cooling: A35°C W30/28°C	Cooling capacity	kW/h	2.7	3.60	5.60	7.5	8.75	13.5	16.0	18
			btu/h	9212	12283	19107	25590	29855	46062	54592	61416
		Power consumption	kW	0.82	1.07	1.69	2.23	2.6	4.15	4.79	5.29
		EER	w/w	3.3	3.35	3.32	3.36	3.36	3.25	3.34	3.4
Ambient temp. range			°C	-7~46							
Rated/Max.outlet water temp.			°C	28/40							
Rated water flow rate			m^3/h	1.7	2.4	3.4	4.5	6	8.8	11.4	12.9
Rated pressure drop			kPa	10	12	12	15	15	16	16	16
Controller			-	Micro processor based digital wire controller with LCD display							
External cabinet			-	Galvanized steel with powder coating							
Compressor		Type	-	Rotary							
		Qty.	Nos.	1							
		Refrigerant	-	R32/R410a							
Water heat exchanger			-	Titanium tube in PVC shell							
Water connection		Inlet&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"
Sound pressure at 1m			dB(A)	48	50	52	54	56	58	59	59
Air discharge			-	Side discharge							
Net dimension		W*D*H	mm	930*360*550	930*360*550	1010*370*620	1115*470*700	1115*470*700	1900*430*1275	1900*430*1275	1900*430*1275
Net weight			kg	40	41	44	46	46	120	125	130

Notes:
1.Conditions of "Heating (1)": Ambient air temperature: 26°C, Humidity 80%, Inlet/Outlet water temperature: W26/28°C ;
2.Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W26/28°C ;
3.Conditions of "Cooling": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W30/28°C ;
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T1 Commercial Swimming Pool Chiller & Heat Pump (50Hz) (On/Off Type)

Technical Specifications

Model				SPCH10	SPCH12	SPCH15	SPCH20	SPCH25	SPCH30	SPCH40	SPCH50
HP				10	12	15	20	25	30	40	50
Power Supply			V/Hz/Ph	380-415/50/3							
Heating performance	Heating (1): A26°C Humidity 80% W26/28°C	Heating capacity	kW/h	45	55	65	90	120	145	190	220
			btu/h	153540	187660	221780	307080	409440	494740	648280	750640
		Power consumption	kW	8	10	12	17	22	26	35	40
		COP	w/w	5.6	5.6	5.5	5.4	5.5	5.6	5.4	5.5
	Heating (2): A15°C Humidity 70% W26/28°C	Heating capacity	kW/h	38	47	55	77	102	123	162	187
			btu/h	130509	159511	188513	261018	348024	420529	551038	638044
		Power consumption	kW	8	9	11	16	21	25	34	39
		COP	w/w	4.9	4.9	4.8	4.8	4.8	4.9	4.8	4.8
Cooling performance	Cooling: A35°C W30/28°C	Cooling capacity	kW/h	35	42	53	70	88	105	140	175
			btu/h	119420	143304	179130	238840	298550	358260	477680	597100
		Power consumption	kW	9	11	13	19	23	28	37	46
		EER	w/w	3.9	3.8	4	3.75	3.8	3.7	3.8	3.8
Ambient temp. range			°C	-7~46							
Rated/Max.outlet water temp.			°C	28/40							
Rated water flow rate			m³/h	19.3	23.6	27.9	38.7	51.6	62.3	81.7	94.6
Rated pressure drop			kPa	18	18	18	18	25	30	30	30
Controller			-	Micro processor based digital wire controller with LCD display							
External cabinet			-	Galvanized steel with powder coating							
Compressor		Type	-	Scroll							
		Qty.	Nos.	1 or 2			2	2	2	4	4
		Refrigerant	-	R32/R410a							
Water heat exchanger			-	Titanium tube in PVC shell							
Water connection	Inlet&Outlet		inch	DN50	DN50	DN50	DN50	DN63	DN75	DN110	DN110
Sound pressure at 1m			dB(A)	56	56	56	56	62	62	65	65
Air discharge			-	Top discharge							
Net dimension	W*D*H		mm	1470*850*950	1470*850*950	1470*850*950	2000*950*2000	2000*950*2100	2000*1100*2050	2000*1900*2000	2000*1900*2100
Net weight			kg	380	380	500	570	600	1140	1180	1180

Notes:
1.Conditions of "Heating (1)": Ambient air temperature: 26°C, Humidity 80%, Inlet/Outlet water temperature: W26/28°C ;
2.Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W26/28°C ;
3.Conditions of "Cooling": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W30/28°C ;
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T1 Commercial Swimming Pool Chiller & Heat Pump (60Hz) (On/Off Type)

Technical Specifications

Model				SPCH10a	SPCH12a	SPCH15a	SPCH20a	SPCH25a	SPCH30a	SPCH40a	SPCH50a
HP				10	12	15	20	25	30	40	50
Power Supply			V/Hz/Ph	208-230/60/3, 380-415/60/3							
Heating performance	Heating (1): A26°C Humidity 80% W26/28°C	Heating capacity	kW/h	52	65	75	105	135	165	220	250
			btu/h	177424	221780	255900	358260	460620	562980	750640	853000
		Power consumption	kW	9	12	14	19	25	29	41	45
		COP	w/w	5.6	5.6	5.5	5.4	5.5	5.6	5.4	5.5
	Heating (2): A15°C Humidity 70% W26/28°C	Heating capacity	kW/h	44	55	64	89	115	140	187	213
			btu/h	150810	188513	217515	304521	391527	478533	638044	725050
		Power consumption	kW	9	11	13	19	24	28	39	44
		COP	w/w	4.9	4.9	4.8	4.8	4.8	4.9	4.8	4.8
Cooling performance	Cooling: A35°C W30/28°C	Cooling capacity	kW/h	40	48	61	80	100	120	160	200
			btu/h	136480	163776	208132	272960	341200	409440	545920	682400
		Power consumption	kW	10	13	15	21	26	32	42	53
		EER	w/w	3.9	3.8	4	3.75	3.8	3.7	3.8	3.8
Ambient temp. range			°C	-7~46							
Rated/Max.outlet water temp.			°C	28/40							
Rated water flow rate			m³/h	22.4	27.9	32.2	45.1	58.0	70.9	94.6	107.5
Rated pressure drop			kPa	18	18	18	18	25	30	30	30
Controller			-	Micro processor based digital wire controller with LCD display							
External cabinet			-	Galvanized steel with powder coating							
Compressor		Type	-	Scroll							
		Qty.	Nos.	1 or 2			2	2	2	4	4
		Refrigerant	-	R32/R410a							
Water heat exchanger			-	Titanium tube in PVC shell							
Water connection	Inlet&Outlet		inch	DN50	DN50	DN50	DN50	DN63	DN75	DN110	DN110
Sound pressure at 1m			dB(A)	56	56	56	56	62	62	65	65
Air discharge			-	Top discharge							
Net dimension	W*D*H		mm	1470*850*950	1470*850*950	1470*850*950	2000*950*2000	2000*950*2100	2000*1100*2050	2000*1900*2000	2000*1900*2100
Net weight			kg	380	380	500	570	600	1140	1180	1180

Notes:
1.Conditions of "Heating (1)": Ambient air temperature: 26°C, Humidity 80%, Inlet/Outlet water temperature: W26/28°C ;
2.Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W26/28°C ;
3.Conditions of "Cooling": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W30/28°C ;
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T1 Inverter Swimming Pool Chiller & Heat Pump (50Hz/60Hz)

(Inverter Type)

Technical Specifications

Model				SPCH-I-2.0V	SPCH-I-3.0V	SPCH-I-4.0V	SPCH-I-5.0V	SPCH-I-6.0V	SPCH-I-5V	SPCH-I-6V	SPCH-I-7V	SPCH-I-10	SPCH-I-15	SPCH-I-20	SPCH-I-25
HP				2	3	4	5	6	5	6	7	10	15	20	25
Power Supply			V/Hz/Ph	220-240/50/1, 208-230/60/1					380-415/50/3, 208-230/60/3, 380-415/60/3						
Heating performance	Heating (1): A20°C Humidity 80% W26/28°C	Heating capacity	kW/h	2.5~9	3.0~12	4.0~17	5.0~20	6.0~24	5.0~20	6.0~24	7~28	9~38.5	12~59	18~77	24~116
		Power consumption	kW	0.2~1.65	0.24~2.22	0.33~3.2	0.42~4.15	0.51~5	0.42~4.1	0.5~4.95	0.58~5.5	0.75~8	1~12	1.5~16	2~23
		COP	w/w	12.5~5.45	12.5~5.4	12.1~5.31	11.9~4.82	11.76~4.8	12~4.9	11.9~4.86	12.1~5.1	12~4.81	12~4.92	12~4.81	12~5.04
	Heating (2): A15°C Humidity 70% W26/28°C	Heating capacity	kW/h	1.8~7.5	2.2~9.5	3~12.5	4~15.5	5~20	4~15.5	5~20	6~23.5	8~31	10~48	16~62	20~93.5
		Power consumption	kW	0.27~1.7	0.33~2.1	0.48~3	0.66~4	0.81~4.94	0.65~3.92	0.81~5	0.95~5.75	1.31~7.9	1.65~12.5	2.62~15.8	3.4~24
		COP	w/w	6.7~4.4	6.67~4.52	6.25~4.17	6.06~3.88	6.17~4.05	6.15~3.95	6.2~4	6.32~4.1	6.11~3.92	6.06~3.84	6.1~2.01	5.88~3.9
Cooling performance	Cooling: A35°C W30/28°C	Cooling capacity	kW/h	2~5.5	3~7.5	5~10.5	7~12.5	7.5~14	7~12.5	7.5~14	8~17	15~25	18~38	30~50	36~72
		Power consumption	kW	0.42~1.7	0.61~2.25	1~3.2	1.37~3.85	1.4~4.23	1.35~3.9	1.37~4.3	1.4~5	2.7~7.35	3.2~11.2	5.4~16.7	6.55~21.5
		EER	w/w	4.76~3.24	4.92~3.33	5~3.28	5.1~3.25	5.36~3.31	5.19~3.2	5.47~3.25	5.7~3.4	5.56~3.5	5.63~3.39	5.56~3.4	5.5~3.35
Ambient temp. range			℃	-7~46											
Rated/Max.outlet water temp.			℃	28/40											
Rated water flow rate			m³/h	3.8	5.2	7.3	8.6	10.3	8.6	10.3	12	16.6	25.4	33.1	50
Rated pressure drop			kPa	4	5	5	7	15	7	13	15	15	17	23	23
Controller			-	Micro-processor based digital wire controller with LCD display											
External cabinet			-	Galvanized steel with powder coating											
Compressor		Type	-	Rotary											Scroll
		Qty.	Nos.	1										2	
		Refrigerant	-	R32/R410a											
Water heat exchanger			-	Titanium tube in PVC shell											
Water connection		Inlet&Outlet	inch	DN40	DN40	DN40	DN40	DN50	DN40	DN50	DN50	DN65	DN65	DN80	DN80
Sound pressure at 1m			dB(A)	40~51	42~52	44~53	45~56	46~58	45~56	46~58	45~59	48~62	49~63	62~72	62~72
Air discharge			-	Top discharge											
Net dimension		W*D*H	mm	720*630*750	720*630*750	850*745*875	850*745*875	850*745*875	850*745*875	850*745*875	850*745*875	1480*845*995	1480*845*995	2000*950*2100	2000*950*2100
Net weight			kg	60	72	110	120	125	120	125	130	230	235	285	290

Notes:
1.Conditions of "Heating (1)": Ambient air temperature: 26°C, Humidity 80%, Inlet/Outlet water temperature: W26/28°C ;
2.Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W26/28°C ;
3.Conditions of "Cooling": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W30/28°C ;
Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

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T3 Inverter Swimming Pool Chiller & Heat Pump (50Hz/60Hz)

(Inverter Type)

Technical Specifications

Model				T-SPCH-I-3V	T-SPCH-I-5V	T-SPCH-I-6V	T-SPCH-I-10	T-SPCH-I-12	T-SPCH-I-15	T-SPCH-I-20	T-SPCH-I-25	T-SPCH-I-30	T-SPCH-I-40	T-SPCH-I-50
HP				3	5	6	10	12	15	20	25	30	40	50
Power Supply			V/Hz/Ph	220-240/50/1, 208-230/60/1	220-240/50/1, 380-415/50/3, 208-230/60/1, 380-460/60/3		380-415/50/3, 380-460/60/3							
Heating performance	Heating (1): A27°C Humidity 80% W26/28°C	Heating capacity	kW/h	3.5~12.5	5~20	6~25	5~43	6~52	9~65	10~85	12.5~108	18~130	20~170	25~215
		Power consumption	kW	0.3~1.9	0.4~3.6	0.5~4.5	0.35~8	0.43~9.8	0.58~12	0.7~16	0.8~19.7	1.1~24	1.3~31.5	1.6~39
		COP	w/w	6.5~12.6	5.6~12.5	5.5~12	5.4~14.3	5.3~14.1	5.4~15.5	5.3~14.3	5.5~15.6	5.4~16.3	5.39~15.4	5.5~15.6
	Heating (2): A15°C Humidity 70% W26/28°C	Heating capacity	kW/h	3~9.5	4.5~16	5~20	8~32	9~39	12.5~50	15~68	18~81	25~100	30~136	36~162
		Power consumption	kW	0.43~1.83	0.7~3.6	0.8~4.7	1.1~7.2	1.3~9.1	1.8~11.1	2.1~15.4	2.5~18	3.5~22.3	4.2~30.5	5~36
		COP	w/w	5.2~7	4.5~6.5	4.3~6.4	4.4~7.3	4.3~7.1	4.5~6.9	4.4~7.1	4.5~7.2	4.48~7.1	4.46~7.1	4.5~7.2
Cooling performance	Cooling (1): A35°C W30/28°C	Cooling capacity	kW/h	3~9.5	4~16	5~18	8~30	9~35	10~41	15~60	16~75	20~83	30~120	32~150
		Power consumption	kW	0.73~2.7	1~4.4	1.3~5	2~8.2	2.3~9.7	2.6~11.5	3.7~16.9	4~21	5~23	7.3~33.3	8~41.7
		EER	w/w	3.51~4.1	3.6~4.1	3.6~4	3.65~4.1	3.60~4.0	3.6~3.9	3.6~4.1	3.6~4.0	3.6~4.0	3.6~4.1	3.6~4.0
	Cooling (2): A46°C W30/28°C	Cooling capacity	kW/h	3~7.8	3.5~13.5	4~16	7~25	8~30	10~36	13~50	13.5~65	19~72	25~100	27~130
		Power consumption	kW	0.9~2.8	1~4.8	1.2~5.6	2.1~8.9	2.4~10.7	3.1~12.8	3.8~18	4.4~23.2	6~25.7	7.6~35.7	8.4~46.4
		EER	w/w	2.8~3.3	2.85~3.4	2.8~3.4	2.8~3.4	2.8~3.3	2.8~3.2	2.8~3.4	2.8~3.2	2.8~3.2	2.8~3.3	2.8~3.2
Ambient temp. range			℃	-7~53										
Rated/Max.outlet water temp.			℃	28/40										
Rated water flow rate			m³/h	5.4	8.6	10.8	18.5	22.4	27.9	36.5	46.4	70~56	26~73	32~92
Rated pressure drop			kPa	5	7	13	15	17	17	23	23	24	23	27
Controller			-	Micro-processor based digital wire controller with LCD display										
Fan blade			-	Aluminmum										
External cabinet			-	Galvanized steel with powder coating										
Compressor		Type	-	Rotaty	Rotaty	Rotaty	Rotaty	Scroll	Scroll	Rotaty	Scroll	Scroll	Scroll	Scroll
		Qty.	Nos.	1	1	1	1	1	1	2	2	2	2	2
		Refrigerant	-	R410a										
Water heat exchanger			-	Titanium tube in PVC shell										
Water connection		inlet&Outlet	inch	1-1/2"	1-1/2"	1-1/2"	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	4"	4"
Air discharge			-	Top discharge										
Net dimension		W*D*H	mm	720*630*750	850*745*875	850*745*880	1480*845*995	1480*645*995	1480*845*995	2000*950*2100	2000*950*2100	2000*1100*2050	2240*1200*2300	2240*1200*2300
Net weight			kg	72	120	135	235	240	260	575	595	690	800	810

Notes:
1.Conditions of "Heating (1)": Ambient air temperature: 27°C, Humidity 80%, Inlet/Outlet water temperature: W26/28°C ;
2.Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W26/28°C ;
3.Conditions of "Cooling (1)": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W30/28°C ;
4.Conditions of "Cooling (2)": Ambient air temperature: 46°C, Inlet/Outlet water temperature: W30/28°C ;
Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

T3 Residential Swimming Pool Chiller & Heat Pump (50Hz) (On/Off Type)

Technical Specifications

Model				SPCH1.5V	SPCH2V	SPCH3V	SPCH5V	SPCH6V	SPCH7V
HP				1.5	2	3	5	6	7
Power Supply			V/Hz/Ph	220-240/50/1	220-240/50/1	220-240/50/1	380-415/50/3	380-415/50/3	380-415/50/3
Heating performance	Heating (1): A26°C Humidity 80% W26/28°C	Heating capacity	kW/h	5.6	8.8	14	24	29	33.5
			btu/h	19107	30026	47768	81888	98948	114302
		Power consumption	kW	0.98	1.57	2.22	3.81	4.60	5.32
		COP	w/w	5.7	5.6	6.3	6.3	6.3	6.3
	Heating (2): A15°C Humidity 70% W26/28°C	Heating capacity	kW/h	4.7	7	11.5	19	26.7	26.50
			btu/h	16036	23884	39238	64828	91100	90418
		Power consumption	kW	1.02	1.52	2.3	3.9	4.6	4.57
		COP	w/w	4.6	4.6	5	5	5.8	5.8
Cooling performance	Cooling (1): A35°C W30/28°C	Cooling capacity	kW/h	4	6.4	9	14	17.5	19.5
			btu/h	13648	21837	30708	47768	59710	66534
		Power consumption	kW	1.15	1.90	2.73	4.4	5.3	6.2
		EER	w/w	3.48	3.37	3.3	3.2	3.3	3.15
	Cooling (2): A46°C W30/28°C	Cooling capacity	kW/h	3.4	5.2	7.5	11.8	14.7	16.00
			btu/h	11601	17742	25590	40262	50156	54592
		Power consumption	kW	1.28	2.2	3.2	5.15	6.4	7
		EER	w/w	2.7	2.4	2.3	2.3	2.3	2.3
Ambient temp. range			°C	-7~53					
Rated/Max.outlet water temp.			°C	28/40					
Rated water flow rate			m³/h	2	4	6	10	12	14.4
Rated pressure drop			kPa	15	15	15	16	16	16
Controller			-	Micro processor based digital wire controller with LCD display					
Fan blade			-	Aluminum					
External cabinet			-	Galvanized steel with powder coating					
Compressor		Type	-	Rotary	Rotary	Rotary	Scroll	Scroll	Scroll
		Qty.	Nos.	1					
		Refrigerant	-	R410a					
Water heat exchanger			-	Titanium tube in PVC shell					
Water connection	Inlet&Outlet		inch	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
Sound pressure at 1m			dB(A)	48	48	52	55	55	55
Air discharge			-	Side discharge	Side discharge	Top discharge	Top discharge	Top discharge	Top discharge
Net dimension	W*D*H		mm	930*280*563	1000*300*620	740*740*835	740*740*835	740*740*835	740*740*835
Net weight			kg	53	63	80	110	113	120

Notes:
1.Conditions of "Heating (1)": Ambient air temperature: 26°C, Humidity 80%, Inlet/Outlet water temperature: W26/28°C ;
2.Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W26/28°C ;
3.Conditions of "Cooling (1)": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W30/28°C ;
4.Conditions of "Cooling (2)": Ambient air temperature: 46°C, Inlet/Outlet water temperature: W30/28°C ;
Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

Enjoy comfortable life with BLUEWAY

T3 Residential Swimming Pool Chiller & Heat Pump (60Hz) (On/Off Type)

Technical Specifications

Model				T-SPCH3.5Va	T-SPCH5Va	T-SPCH7Va
HP				3.5	5	7
Power Supply			V/Hz/Ph	208-230/60/1	208-230/60/3	
Heating performance	Heating (1): A26°C Humidity 80% W26/28°C	Heating capacity	kW/h	14	25.5	35.7
			btu/h	47800	87000	121800
		Power consumption	kW	2.45	5.31	7.44
		COP	w/w	5.7	4.8	4.8
	Heating (2): A15°C Humidity 70% W26/28°C	Heating capacity	kW/h	10.40	19.89	27.84
			btu/h	35500	67860	95004
		Power consumption	kW	2.36	4.71	6.59
		COP	w/w	4.4	4.2	4.2
Cooling performance	Cooling (1): A35°C W30/28°C	Cooling capacity	kW/h	9.34	17.58	24.62
			btu/h	31866	60000	84000
		Power consumption	kW	3.11	6.28	8.92
		EER	w/w	2.81	2.8	2.76
	Cooling (2): A46°C W30/28°C	Cooling capacity	kW/h	7.94	14.95	20.93
			btu/h	27086	51000	71400
		Power consumption	kW	4.18	7.91	10.96
		EER	w/w	1.9	1.89	1.91
Ambient temp. range			°C	-7~53		
Rated/Max.outlet water temp.			°C	28/40		
Rated water flow rate			m³/h	6	11	15.3
Rated pressure drop			kPa	15	16	16
Controller			-	Micro processor based digital wire controller with LCD display		
Fan blade			-	Aluminum		
External cabinet			-	Galvanized steel with powder coating		
Compressor		Type	-	Rotary		
		Qty.	Nos.	1		
		Refrigerant	-	R410a		
Water heat exchanger			-	Titanium tube in PVC shell		
Water connection	Inlet&Outlet		inch	1-1/2"	1-1/2"	1-1/2"
Sound pressure at 1m			dB(A)	55	55	55
Air discharge			-	Top discharge		
Net dimension	W*D*H		mm	720*630*750	850*745*875	850*745*875
Net weight			kg	72	110	120

Notes:
1.Conditions of "Heating (1)": Ambient air temperature: 26°C, Humidity 80%, Inlet/Outlet water temperature: W26/28°C ;
2.Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W26/28°C ;
3.Conditions of "Cooling (1)": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W30/28°C ;
4.Conditions of "Cooling (2)": Ambient air temperature: 46°C, Inlet/Outlet water temperature: W30/28°C ;
Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

T3 Commercial Swimming Pool Chiller & Heat Pump (50Hz) *(On/Off Type)*

Technical Specifications

Model				T-SPCH10	T-SPCH12	T-SPCH15	T-SPCH20	T-SPCH25	T-SPCH30	T-SPCH40	T-SPCH50	T-SPCH60	T-SPCH80	T-SPCH100
HP				10	12	15	20	25	30	40	50	60	80	100
Power Supply			V/Hz/Ph	380-415/50/3										
Heating performance	Heating (1): A26°C Humidity 80% W26/28°C	Heating capacity	kW/h	45	54	69	90	114	135	183	225	270	370	450
		Power consumption	kW	7.63	9.31	11.72	15.52	19.37	23.28	31.53	38.7	46.6	62.1	77.3
		COP	w/w	5.9	5.8	5.85	5.8	5.9	5.8	5.8	5.82	5.8	5.9	5.82
	Heating (2): A15°C Humidity 70% W26/28°C	Heating capacity	kW/h	36	43	53	75	89	107	143	178	228	285	356
		Power consumption	kW	7.75	9.51	11.89	15.96	19.38	23.26	31.70	38.76	48.51	62.00	77.39
		COP	w/w	4.6	4.5	4.5	4.7	4.6	4.6	4.5	4.6	4.7	4.6	4.6
Cooling performance	Cooling (1): A35°C W30/28°C	Cooling capacity	kW/h	35	42	53	70	88	106	141	176	210	278	352
		Power consumption	kW	9.26	11.41	14.07	18.51	23.14	27.77	37.41	46.0	56.0	73.0	92.6
		EER	w/w	3.80	3.70	3.75	3.80	3.80	3.80	3.76	3.82	3.75	3.80	3.80
	Cooling (2): A46°C W30/28°C	Cooling capacity	kW/h	30	36	45	60	75	90	120	149	180	240	298
		Power consumption	kW	10.60	13.04	16.61	21.35	26.69	31.92	43.17	53.57	65.69	86.00	107.97
		EER	w/w	2.82	2.75	2.70	2.80	2.80	2.81	2.77	2.79	2.74	2.79	2.76
Max running current (Cooling)			A	24.00	28.00	33.00	49.00	58.00	65.00	98.00	116.00	130.00	200.00	234.00
Ambient temp. range			℃	-7~53										
Rated/Max.outlet water temp.			℃	28/40										
Rated water flow rate			m³/h	19.3	23.2	29.5	38.7	49.1	58.0	78.6	96.7	116.1	153.0	193.5
Rated pressure drop			kPa	18	18	18	18	25	30	30	30	37	42	45
Controller			-	Micro processor based digital wire controller with LCD display										
Fan blade			-	Aluminum										
External cabinet			-	Galvanized steel with powder coating										
Compressor		Type	-	Scroll										
		Qty.	Nos.	1 or 2	1 or 2	1 or 2	2	2	2	4	4	4	4	4
		Refrigerant	-	R410a										
Water heat exchanger			-	Titanium tube in PVC shell										
Water connection		Inlet&Outlet	inch	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	4"	4"	4"	4"	6"
Sound pressure at 1m			dB(A)	56	56	58	69	71	73	71	73	74	74	76
Air discharge			-	Top discharge										
Net dimension		W*D*H	mm	1480*845*995	1480*845*995	1480*845*995	2000*950*2100	2000*950*2100	2000*1100*2050	2240*1200*2300	2240*1200*2300	2240*1200*2300	2300*2270*2300	2300*2270*2300
Net weight			kg	230	236	255	570	590	685	790	800	1350	2050	2400

Notes:
1.Conditions of "Heating (1)": Ambient air temperature: 26°C, Humidity 80%, Inlet/Outlet water temperature: W26/28°C ;
2.Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W26/28°C ;
3.Conditions of "Cooling (1)": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W30/28°C ;
4.Conditions of "Cooling (2)": Ambient air temperature: 46°C, Inlet/Outlet water temperature: W30/28°C ;
Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

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T3 Commercial Swimming Pool Chiller & Heat Pump (60Hz) *(On/Off Type)*

Technical Specifications

Model				T-SPCH10	T-SPCH12	T-SPCH15	T-SPCH20	T-SPCH25	T-SPCH30	T-SPCH40	T-SPCH50	T-SPCH60	T-SPCH100
HP				10	12	15	20	25	30	40	50	60	100
Power Supply			V/Hz/Ph	208-230/60/3 or 460/60/3			400-460/60/3						
Heating performance	Heating (1): A26°C Humidity 80% W26/28°C	Heating capacity	kW/h	46	55	68	92	110	140	184	220	262	428
			btu/h	157000	187200	232000	314000	375000	478000	628000	750000	894000	1460000
		Power consumption	kW	7.77	9.32	11.53	15.70	18.64	23.53	31.56	37.3	45.2	73.5
		COP	w/w	5.92	5.9	5.9	5.86	5.9	5.95	5.83	5.9	5.8	5.82
	Heating (2): A15°C Humidity 70% W26/28°C	Heating capacity	kW/h	38	45	53	78	87	110	156	174	205	349
			btu/h	130000	146016	182520	266000	297000	375000	532000	594000	700000	1191000
		Power consumption	kW	7.92	9.47	11.38	16.49	18.28	23.11	33.19	36.63	43.62	74.73
		COP	w/w	4.80	4.75	4.70	4.73	4.76	4.76	4.70	4.75	4.70	4.67
Cooling performance	Cooling (1): A35°C W30/28°C	Cooling capacity	kW/h	36	43	52	72	85	106	144	170	210	338
			btu/h	123000	147000	178000	246000	290000	360000	491000	580000	717000	1153000
		Power consumption	kW	9.35	11.38	13.87	18.75	22.02	27.77	37.80	44.5	56.0	88.9
		EER	w/w	3.85	3.78	3.75	3.84	3.86	3.80	3.81	3.82	3.75	3.80
	Cooling (2): A46°C W30/28°C	Cooling capacity	kW/h	31	36	44	62	73	90	124	144	180	286
			btu/h	106000	123000	150000	212000	249000	306000	423000	491000	614000	976000
		Power consumption	kW	10.84	12.78	16.00	22.14	25.80	31.92	44.44	51.06	65.22	102.88
		EER	w/w	2.86	2.82	2.75	2.80	2.83	2.81	2.79	2.82	2.76	2.78
Max running current (Cooling)			A	24.00	28.00	33.00	49.00	58.00	65.00	98.00	116.00	130.00	234.00
Ambient temp. range			℃	-7~53									
Rated/Max.outlet water temp.			℃	28/40									
Rated water flow rate			m³/h	19.8	23.6	29.2	39.6	47.3	60.2	79.1	94.6	112.6	184.0
Rated pressure drop			kPa	18	18	18	18	25	30	30	30	37	45
Controller			-	Micro processor based digital wire controller with LCD display									
Fan blade			-	Aluminum									
External cabinet			-	Galvanized steel with powder coating									
Compressor		Type	-	Scroll									
		Qty.	Nos.	1 or 2	1 or 2	1 or 2	2	2	2	2	2	2	4
		Refrigerant	-	R410a									
Water heat exchanger			-	Titanium tube in PVC shell									
Water connection		Inlet&Outlet	inch	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	4"	4"	4"	6"
Sound pressure at 1m			dB(A)	56	56	58	69	71	73	71	73	74	76
Air discharge			-	Top discharge									
Net dimension		W*D*H	mm	1480*845*995	1480*845*995	1480*845*995	2000*950*2100	2000*950*2100	2000*1100*2050	2240*1200*2300	2240*1200*2300	2240*1200*2300	2300*2270*2300
Net weight			kg	230	236	255	570	590	685	790	800	850	2400

Notes:
1.Conditions of "Heating (1)": Ambient air temperature: 26°C, Humidity 80%, Inlet/Outlet water temperature: W26/28°C ;
2.Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W26/28°C ;
3.Conditions of "Cooling (1)": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W30/28°C ;
4.Conditions of "Cooling (2)": Ambient air temperature: 46°C, Inlet/Outlet water temperature: W30/28°C ;
Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.