

# 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°C 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 LINREACHABLE DREAMS!

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

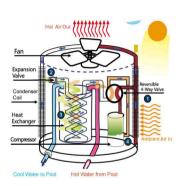


#### Application



# 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.

#### A STAGE TWO

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

#### 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

#### A 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.

#### STAGE TWO

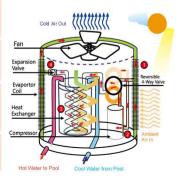
The gaseous refrigerant then passes to the compressor and is compressed. When compressed, the pressure is increased and the temperature of the vapor rises, effectively concentrating the heat.

#### **6** 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.

#### 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 PUMPS SAVE ENERGY?

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.

High Temperature Heat Dumping to the Ambient Air









Temperature



# 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





# Features & Highlights





▲ Using heat energy from ambient & reproduces

more heat energy, saving 60%~80% energy

▲ Titanium tube-in-shell heat exchanger resists

in summer for spa and swimming pool in

▲ Long-life and corrosion resistant composite

cabinet stands up to severe climates & pool

domestic and commercial applications.

compared to traditional heaters.

harsh pool chemicals and corrosion.

Providing heating in winter and chilling











- ▲ 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.
- Separate isolated electrical compartment prevents internal corrosion and extends heat pump life.

# Product Appearance



chemicals.























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

(Inverter Type)
Technical Specifications

		odel		SPCH-I-2.0V	SPCH-I-3.0V	SPCH-I-4.0V	SPCH-I-S.DV	SPCH-1-6.0V	SPCH-I-SV	SPCH-HOV	SPCH-I-7V	SPCH-I-10	SPOH-1-15	SPCH-1-20	SPCH-1-25
		**		2	3	4	s		s	4	7	10	25	20	25
	Power Sup	Hr	V/HJ/96		220	240/50/1, 208-230	/10/1				380-415/50	V3, 206-236/50/1, 1	380-415/60/5		
		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
	Heating (S) A35°C Hemidity 80%	Power consumption	KW	02*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	1.15	1.5*16	2-23
Heating	W35/38°C	COP	w/w	12.515.45	12.5*5.4	12.1°5.31	11.9~4.82	11.76~4.8	12*4.9	11.974.86	12.1*5.1	12*4.81	12*4.92	12:481	1215.04
performance	Heating (2):	Heating capacity	WW/h	1.8-7.5	2.2-9.5	3-12.5	4-15.5	5-20	4-15.5	5-30	6-23.5	8-31	10~48	16-62	20-93.5
	A15°C Hamidity 70% W35/38°C	Power consumption	NW	0.27:1.7	0.39*2.1	0.48*3	0.66*4	0.81-4.94	0.65*3.52	0.81°5	0.9515.75	1.31-7.9	145-12.5	2.62*25.8	3.4"24
	Watoric	COP	w/w	6.7~4.4	6.67~4.52	625-417	6.00-3.88	6.17~4.05	6.15-3.95	62%	632-41	6.11-3.92	6.00-3.84	6.1-2.01	5.88-3.9
	Cooling Cooling: ASS'C Wasyan'C EER		kw/h	2%3	377.5	5-10.5	7-12.5	7.5°14	7-12.5	7.5"34	E-17	15*25	18-18	30"50	16-72
Cooling performance	A35°C	Power consumption	NW.	0.42-1.7	0.61*2.25	119.2	137-285	1.4*4.23	1.35*3.9	137-43	1.4%	2,3+7,35	3.2°112	5.4-14.7	6.55°21.5
		EER	w/w	4.76-9.24	4.92*3.33	5-3.28	5.1*9.25	5.16-3.31	5.19~3.2	5.47=3.25	5.7=3.4	5.56-3.5	5.63~3.39	5.50~3.4	5.5~3.35
Ambient temp, unge 15					185										
Faned/Max.out	det water temp.		У.						28	/40					
Rated water fo	ow rate		m2/5	1.8	5.2	7.3	8.6	163	8.6	10.3	12	16.6	25.4	33.1	50
Rated pressure	drop		NP4	4	3		7	13	7	13	13	15	17	23	23
Carcaster								Micro proc	essor based digital	wire controller with	LCO display				
External cabine	н		14						Calvanized steel o	with prouder cauting					
		Type	-						Rotary						Scroll
Compressor		Qu.	Nos.						1						2
		Softgorare							A32)	54104					
Water heat exc	shanger		-						Titanium tub	se in PVC shell					
Water connect	lan .	Westower	inch	0540	05/40	55/40	0640	DNSD	DINED	0450	0950	0485	DAWS	0600	DRUKE
Sound pressure	and pressure at 3 m		dB(A)	40-51	42-52	44-53	45-56	46-50	45-56	40*58	45-50	49~62	49~63	62-72	62-72
Air disabarge			-						Top di	uhaye					
Net dimension		W*3*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	3480*845*995	2000*950*2100	2000*950*2300
Net weight			kg .	66	72	133	120	125	120	125	130	230	235	285	290

Hotes:
1.Conditions of "Heating [1]": Ambient air temperature: 29°C, Humidity 80%, Inlet/Defet water temperature: W25/28°C;
2.Conditions of "Heating [1]": Ambient air temperature: 13°C, Humidity 30%, Inlet/Defet water temperature: W25/28°C;







### Residential Swimming Pool Chiller & Heat Pump (50Hz)

## (On/Off Type) Technical Specifications

	м	odel		SPCH1.0S	SPCH1.5S	SPCH2.0S	SPCH3.0S	SPCH3.5S	SPCH5.0S	SPCH6S	SPCH7S
		нр		1	1.5	2	3	3.5	5		7
	Power Sup	ply	V/Hz/Ph			220-24	10/50/1			380-4	15/50/3
			kW/h	4.3	6.5	8.6	12.9	14	21.5	26	29.5
	Heating (1): A26°C	Heating capacity	btu/h	14672	22178	29343	44015	47768	73358	88712	100654
	Humidity 82% W26/28°C	Power consumption	kW	0.75	1.18	1.51	2.28	2.45	3.63	4.41	4.96
Heating		COP	w/w	5.73	5.5	5.7	5.65	5.71	5.92	5.9	5.95
performance		20 8 2	kW/h	3.8	5.7	7.6	11.4	12.37	15.8	19	21
	Heating (2): A15°C	Heating capacity	btu/h	12966	19448	25931	38897	42206	53910	64828	71652
	Humidity 70% W26/28°C	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
			kW/h	2.7	3.6	5.6	8.2	10.2	13.6	15.5	17.5
Cooling	Cooling: A35°C	Cooling capacity	btu/h	9212	12283	19107	27978	34632	46403	52886	59710
performance	W30/28°C	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		nc nc				-7	46			
Rated/Max.ou	tlet water temp.		°c				28	/40			
Rated water flo	ow rate		m'/h	1.8	2.8	3.7	5.5	6.0	9.2	11.2	12.7
Rated pressure	r drop		kPa	10	12	12	15	15	16	16	16
Controller			9772			Micro pro	ocessor based digital	wire controller with Li	CD display		
External cabine	et		120				Galvanized steel v	ith powder coating			
		Type	970				Ro	tary			
Compressor		Qny.	Nos.					1			
		Refrigerant	775				R32/	R410s			
Water heat ex	changer						Titanium tut	e in PVC shell			
Water connect	tion	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	e at Im		dB(A)	48	50	52	54	54	58	59	59
Air dischurge			223				Side d	scharge			
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:

\*\*Licadition of "Hating [13": Anablest air temperature 20"C, limitidity BUN, Index/Outlier water temperature WEA/20"C;

\*\*Licadition of "Hating [12": Anablest air temperature 15"C, limitidity BUN, Index/Outlier water temperature WEA/20"C;

\*\*Licadition of "Cooling": Anablest air temperature 15"C, Index/Outlier water temperature WEA/20"C;

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#### Residential Swimming Pool Chiller & Heat Pump (60Hz)

## (On/Off Type) **Technical Specifications**

	M	odel		SPCH1.0Sa	SPCH1.5Sa	SPCH2.0Sa	SPCH3.0Sa	SPCH3.5Sa	SPCH5.0Sa	SPCH6Sa	SPCH7Sa
	2	10		1	1.5	2	3	3.5	5	6	7
	Power Supp	oly	V/Hz/Ph			208-2	10/60/1			208-230/60/3	380-415/60/3
		25.4013 (5	kW/h	3.9	5.60	8.0	10.5	14	21	26.50	30.00
	Heating (1): A26°C	Heating capacity	bou/h	13307	19107	27296	35826	47768	69946	90418	102360
	Humidity 80% W26/28°C	Power consumption	kW	0.70	1.02	1.40	1.94	2.6	3.60	4.40	5.26
Heating		COP	w/w	5.6	5.5	5.7	5.4	5.4	5.7	5.9	5.7
performance			kW/h	3.10	4.20	5.8	8	10.6	15	20.00	23.0
	Heating (2): A15°C	Heating capacity	bou/h	10577	14330	19790	27296	36167	51180	68240	78476
	Humidity 70% W26/28°C	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 capacity	kW/h	2.7	3.60	5.60	7.5	8.75	13.5	16.0	18
Cooling	Cooling: A35°C	Congress	bou/h	9212	12283	19107	25590	29855	46062	54592	61416
performance	W30/28°C	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.out	let water temp.		°c				28	/40			
Rated water fic	w rate		m²/h	1.7	2.4	3.4	4.5	6	8.6	11.4	12.9
Rated pressure	drop		b) a	10	12	12	15	15	16	16	16
Controller			75			Micro pr	ocessor based digital	wire controller with U	CD display		
External cabine	4		-				Galvanized steel w	ith powder coating			
		Туре	.5				Ro	tery			
Compressor		Qty.	Nos.					1			
		Refrigerant	2				R32/	R410a			
Water heat exc	hanger		8				Titanium tub	e in PVC shell			
Water connect	ion	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		d8(A)	48	50	52	54	56	58	59	59
Air discharge							Side di	scharge			
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*1
Net weight			kg	40	41	44	46	46	120	125	130

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## Commercial Swimming Pool Chiller & Heat Pump (50Hz)

## (On/Off Type) **Technical Specifications**

	M	odel		SPCH10	SPCH12	SPCH15	SPCH20	SPCH25	SPCH30	SPCH40	SPCH50
		нР		10	12	15	20	25	30	40	50
	Power Sup	sty	V/Hz/Ph				380-41	15/50/3			
			kW/h	45	55	65	90	120	145	190	220
	Heating (1): A26°C	Heating capacity	btu/h	153540	187660	221790	307000	409440	494740	648280	750640
	Humidity 80% W26/28°C	Power consumption	kW		10	12	17	22	26	35	40
Heating		COP	w/w	5.6	5.6	5.5	5.4	5.5	5.6	5.4	5.5
performance		25.27 6	kW/h	38	47	55	77	102	123	162	187
	Heating (2): A15°C	Heating capacity	btu/h	130509	159511	188513	261018	349024	420529	551038	638044
	Humidity 70% W26/28°C	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
		1925 - 3	kW/h	35	42	53	70	85	105	140	175
Cooling	Cooling:	Cooling capacity	btu/h	119420	143304	179130	238840	259550	358260	477680	597100
performance	A35°C W30/28°C	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.ou	tlet water temp.		°c				28	/40			
Rated water fl	ow 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			20			Micro pre	ocessor based digital	wire controller with U	CD display		
External cabine	м		es.				Galvanized steel w	ith powder coating			
		Туре	ж.				Sc	roll			
Compressor		Qty.	Nos.		1 or 2		2	2	2	4	4
		Refrigerant	12,5				R32/	R410a			
Water heat ox	thanger		-2.				Titanium tub	e in PVC shell			
Water connect	ion	Inlet&Outlet	inch	DNS0	DN50	DN50	DN50	DN63	DN75	DN110	DN110
Sound pressur	e at Im		dB(A)	56	56	56	56	62	62	65	65
Air discharge			12.0				Top di	schänge			
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
Not weight			ke	380	380	500	570	600	1149	1180	1180

Notes:

L'Condition of "Hesting [11", Andelent air temperature 20°C, Humiday M/M, Index/Oudes water temperature WAR/20°C;

L'Condition of "Hesting [12", Andelent air temperature: 15°C, Humiday M/M, Index/Oudes water temperature: WAR/20°C;

L'Condition of "Conlig", Invalidate air temperature: 15°C, Humiday M/M, Index/Oudes water temperature: WAR/20°C;

L'Condition of "Conlig", Invalidate air temperature: 15°C, Humiday M/M, Index/Oudes water temperature: WAR/20°C;

L'Condition of "Conlig", Invalidate air temperature: 15°C, Humiday M/M, Index/Oudes water temperature: WAR/20°C;

L'Condition of "Conlig", Invalidate air temperature: 15°C, Humiday M/M, Index/Oudes water temperature: WAR/20°C;

L'Condition of "Conlig", Invalidate air temperature: 15°C, Humiday M/M, Index/Oudes water temperature: WAR/20°C;

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## Commercial Swimming Pool Chiller & Heat Pump (60Hz)

## (On/Off Type) **Technical Specifications**

	M	odel		SPCH10a	SPCH12a	SPCH15a	SPCH20a	SPCH25a	SPCH30a	SPCH40a	SPCH50a	
	- 2	49		10	12	15	20	25	30	40	50	
	Power Supp	oly	V/Hz/Ph				208-230/60/3,	380 415/60/3				
			kW/h	52	65	75	105	135	165	220	250	
	Heating (1): A26°C	Heating capacity	btu/h	177424	221780	255900	358260	460620	562500	750640	853000	
	Humidity 80% W26/28°C	Power consumption	kW		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	
performance		89 8	kW/h	44	55	12 M 39 25 29 41 45 54 55 54 55 56 54 55						
	Heating (2): A15°C	Heating capacity	btu/h	150810	188513	217515	304521	391527	478533	638044	725050	
	Humidity 70% W26/28°C	Power consumption	kw	9	n	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	
			kW/h	40	48	61	80	100	120	160	200	
Cooling	Cooling:	Cooling capacity	btu/h	136490	163776	208132	272960	341200	409440	545920	682400	
performance	A35°C W30/28°C	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		nc .				-7*	46				
Rated/Max.out	let water temp.		×				28.	/40				
Rated water fic	nw rate		m*/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			20			Micro pro	scessor based digital v	vire controller with D	CD display			
External cabine	t						Galvanized steel w	ith powder coating				
		Type	2.				Scr	ller				
Compressor		Ciry.	Nos.		1 or 2		2	2	2	4	4	
		Refrigerant	2.				R32/I	6410a				
Water heat exc	hanger						Titanium tub	e in PVC shell				
Water connect	ion	Inlet&Outlet	inch	DN50	DN50	DN50	DN50	DN63	DN75	DN110	DN110	
Sound pressure	at Im		dB(A)	(B)(A) 56 56 56 56 42 62 65 65						.65		
Air discharge			- Top dishinge									
Net dimension W*O*H mm 14/0*850*950 14/0*850*950 2000*950*2000 2000*950*2100 2000*1200*2550 2000*190*2000*2000 2000*190*2000*2000*2000*2000*2000*2000*2						2000*1900*						
Net weight			kg	380	380	500	570	600	1140	1180	1180	

A.Condition of "Intellig. [1]", Analosat air temporature: NCC, Hundrick pWS, histolyCultin unter temporature: NURG/REC; 2.Condition of "Intellig. [2]", Analosat of impropriate: PCS, Visit/Quide unter temporature: NURG/REC; 3.Condition of "Costing," Analosat of the improvature: SPC, Nint/Quide unter temporature: NURG/REC; 3.Condition of "Costing," Analosat of the improvature: SPC, Nint/Quide unter temporature: NURG/REC; 3.Condition of "Costing," Analosat of the improvature in PCS, Nint/Quide unter temporature: NURG/REC; 3.Condition of "Costing," Analosat of the improvation of t



#### T3 Residential Swimming Pool Chiller & Heat Pump (50Hz)

## (On/Off Type) **Technical Specifications**

	M	odel		T-SPCH3.5V	T-SPCH5V	T-SPCH7V
		HP		3.5	5	7
	Power Sup	ply	V/Hz/Ph	220-240/50/1	380-41	5/50/3
			kW/h	14	25.5	35.7
	Heating (1): A26°C	Heating capacity	btu/h	47800	87000	121800
	Humidity 80% W26/28*C	Power consumption	kW	2.45	5.31	7.44
leating		COP	w/w	5.7	4.8	4.8
performance			kW/h	10.40	19.89	27.84
	Heating (2): A15°C	Heating capacity	btu/h	35500	67860	95004
	Humidity 70% W26/28°C	Power consumption	kW	2.36	4.71	6.59
		СОР	w/w	4.4	4.2	4.2
			kW/h	9.34	17.58	24.62
	Cooling (1):	Cooling capacity	btu/h	31866	60000	84000
	A35°C W30/28°C	Power consumption	kW	3.11	6.28	8.92
Cooling		EER	w/w	2.81	2.8	2.76
erformance			kW/h	7.94	14.95	20.93
	Cooling (2):	Cooling capacity	btu/h	27086	51000	71400
	A46°C W30/28°C	Power consumption	kW	4.18	7.91	10.96
		EER	w/w	1.9	1.89	1.91
mbient temp.	range		•с		-7~53	
lated/Max.out	let water temp.		°C		28/40	
Rated water flo	w rate		m³/h	6	11	15.3
tated pressure	drop		kPa	15	16	16
ontroller			-	Micro proces	sor based digital wire controller wit	h LCD display
an blade			- 2		Aluminum	
xternal cabine	t		2		Salvanized steel with powder coatin	Е
		Туре			Rotary	
Compressor		Qty.	Nos.		1	
		Refrigerant	-		R410a	
Vater heat exc	hanger		- <		Titanium tube in PVC shell	
Vater connect	ion	Inlet&Outlet	inch	1-1/2"	1-1/2"	1-1/2"
ound pressure	at 1m		dB(A)	55	55	55
Vr discharge					Top discharge	
Net dimension		W*D*H	mm	720*630*750	850*745*875	850*745*875
Net weight			kg	72	110	120

- 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 Residential Swimming Pool Chiller & Heat Pump (60Hz)

## (On/Off Type) **Technical Specifications**

	M	odel		T-SPCH3.5Va	T-SPCH5Va	T-SPCH7Va
		HP		3.5	5	7
	Power Supp	ply	V/Hz/Ph	208-230/60/1	208-23	0/60/3
			kW/h	14	25.5	35.7
	Heating (1): A26°C	Heating capacity	btu/h	47800	87000	121800
	Humidity 80% W26/28*C	Power consumption	kW	2.45	5.31	7.44
Heating		COP	w/w	5.7	4.8	4.8
erformance			kW/h	10.40	19.89	27.84
	Heating (2): A15°C	Heating capacity	btu/h	35500	67860	95004
	Humidity 70% W26/28*C	Power consumption	kW	2.36	4.71	6.59
		СОР	w/w	4.4	4.2	4.2
		Coelles acces	kW/h	9.34	17.58	24.62
	Cooling (1): A35°C	Cooling capacity	btu/h	31866	60000	84000
	W30/28°C	Power consumption	kW	3.11	6.28	8.92
Cooling		EER	w/w	2.81	2.8	2.76
performance			kW/h	7.94	14.95	20.93
	Cooling (2):	Cooling capacity	btu/h	27086	51000	71400
	A46°C W30/28°C	Power consumption	kW	4.18	7.91	10.96
		EER	w/w	1.9	1.89	1.91
Imbient temp.	range		•с		-7~53	
lated/Max.out	tlet water temp.		*c		28/40	
Rated water flo	ow rate		m³/h	6	11	15.3
Rated pressure	drop		kPa	15	16	16
Controller				Micro proces	ssor based digital wire controller wit	h LCD display
an blade			140		Aluminum	
External cabine	et		101		Galvanized steel with powder coating	
		Туре	(e)		Rotary	
Compressor		Qty.	Nos.		1	
		Refrigerant	-		R410a	
Vater heat exc	changer		7-01		Titanium tube in PVC shell	
Water connect	ion	Inlet&Outlet	inch	1-1/2"	1-1/2"	1-1/2"
iound pressure	e at 1m		dB(A)	55	55	55
Vir discharge					Top discharge	
Net dimension	7	W*D*H	mm	720*630*750	850*745*875	850*745*875
Net weight			kg	72	110	120

- 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**

										-	
	М	odel		T-SPCH10	T-SPCH12	T-SPCH15	T-SPCH20	T-SPCH25	T-SPCH30	T-SPCH40	T-SPCH50
	0	нэ		10	12	15	20	25	30	40	50
	Power Supp	oly	V/Hz/Ph				380-43	5/50/3			
		Heating capacity	kW/h	46	55	69	91	114	137	183	229
	Heating (1): A26°C		lstu/h	156000	187200	234000	312000	390000	469000	624000	780000
	Humidity 80% W26/28°C	Power consumption	kw :	9.53	11.20	14.59	19.05	24.32	29.18	40.64	49.7
Heating		COP	w/w	4.8	4.9	4.7	4.8	4.7	4.7	4.5	4.6
performance		Heating capacity	kW/h	36	43	53	71	89	107	143	178
	Heating (2): A15°C	retaining Capacity	btu/h	121690	146016	182520	243360	304200	365040	486720	608400
	Humidity 70% W26/28°C	Power consumption	ĸw	8.49	9.95	13.05	16.98	22.29	26.09	35.66	44.58
		COP	w/w	4.2	43	4.1	4.2	4.0	4.1	4.0	4.0
			kW/h	35	42	53	70	88	106	141	176
	Cooling (1):	Cooling capacity	btu/h	120000	164000	180000	240000	300000	360000	480000	600000
	A35°C W30/28°C	Power consumption	kw	13.48	16.11	20.37	26.54	33.56	40.43	53.49	67.9
Cooling		EER	w/w	2.61	2.62	2.59	2.65	2.62	2.61	2.63	2.59
performance		202000000	kW/h	30	36	45	60	75	90	120	149
	Cooling (2):	Cooling capacity	btu/h	102000	122400	153000	204000	255000	306000	406000	510000
	A46°C W30/28°C	Power consumption	kw	14.87	17.08	21.87	27.94	37.75	42.10	55.88	73.63
		EER	w/w	2.01	2.10	2.05	2.14	1.98	2.13	2.14	2.03
Ambient temp. r.	range		10				-7"	-53			
Rated/Max.outle	et water temp.		°c				28.	/40			
Rated water flow	w rate		m³/h	19.7	23.6	29.5	39.3	49.1	59.0	78.6	98.3
Rated pressure d	drop		kPa	18	18	18	-18	25	30	30	30
Controller						Micro pro	cessor based digital o	wire controller with I	CD display		
Fan blade			-				Aur	inum			
External cabinet			- 2				Galvanized steel w	ith powder coating			
		Type	2				So	roll			
Compressor		Qty.	Nos.		1 or 2			2			4
		Refrigerant	¥				R4	10s			
Water heat eich	nangor		2				Titanium tub	e in PVC shell			
Water connectio	on.	Inlet&Outlet	inch	DNS0	DN50	DN50	DN50	DN63	DN7S	DN110	DN110
Sound pressure a	at 1m		dB(A)	56	56	56	56	62	62	65	65
Air discharge							Top di	charge			
Net dimension	Net dimension W*D*H mm				1480*845*995	1480*845*995	2000*950*2000	2000*950*2100	2000*1100*2050	2000*1900*2000	2000*1900*2100
Net dimension W*O*H  Net weight											

Laboration of Youting (I)? Anothers of inspersions 2PC, famility 80%, held/Dailel water temperature 190/(EPC) 2. Conditions of "Husing (I)", Anothers of inspersions 2PC, famility 80%, held/Dailel water temperature 190/(EPC) 2. Conditions of "Value (I)", President of Inspersions 2PC, inself-Dailel water temperature 190/(EPC) 2. Conditions of "Value (I)", President inserpressions 2PC, inself-Dailel water temperature 190/(EPC) 2. Conditions of "Value (I)", President inserpressions 2PC, inself-Dailel water temperature 190/(EPC) 2. Conditions 2PC 2. C

## T3 Commercial Swimming Pool Chiller & Heat Pump (60Hz)

## (On/Off Type) **Technical Specifications**

	М	odel		T-SPCH10a	T-SPCH12a	T-SPCH15a	T-SPCH20a	T-SPCH25a	T-SPCH30a	T-SPCH40a	T-SPCH50a
		нр		10	12	15	20	25	30	40	50
	Power Sup	přy	V/Hz/Ph				208-23	10/60/3			
			kW/h	:46	55	69	91	:114	137	183	229
	Heating (1): A26°C	Heating capacity	btu/h	154000	187200	234000	312000	390000	468000	624000	780000
	Humidity 80% W26/28°C	Power consumption	kW	9.33	11.43	14.59	19.05	24.85	29.18	40.64	50.8
Heating		COP	w/w	4.9	4.8	4.7	4.8	4.6	4.7	4.5	4.5
performance			kW/h	36	43	53	71	89	107	143	178
	Heating (2): A15°C	Heating capacity	bts/h	121680	146016	182520	243360	304200	365040	486720	608400
	Mumidity 70% W26/28°C	Power consumption	kW	8.27	10.13	12.93	16.89	22.03	25.87	36.02	45.03
		COP	w/w	4.3	4.2	4.1	4.2	4.0	4.1	4.0	4.0
			kW/h	35	42	53	70	88	106	141	176
	Cooling (1):	Cooling capacity	bts/h	120000	144000	180000	240000	300000	360000	480000	600000
	A35°C W30/28°C	Power consumption	kW	13.48	16.11	20.37	26.54	33.56	40.43	53.49	67.9
Cooling		EER	w/w	2.61	2.62	2.59	2.65	2.62	2.61	2.63	2.59
performance			kW/h	30	36	45	60	75	90	120	149
	Cooling (2): A46°C	Cooling capacity	bts/h	102000	122400	153000	204000	255000	306000	405000	510000
	M30/58,C	Power consumption	kW	14.87	17.08	21.87	27.94	37.75	42.10	55.88	73.63
		EER	w/w	2.01	2.10	2.05	2.14	1.98	2.13	2.14	2.03
Ambient temp	range		°C				-7	-53			
Rated/Max.ou	tlet water temp.		°c				28	/40			
Rated water fi	ow rate		m³/h	19.7	23.6	29.5	39.3	49.1	59.0	78.6	98.3
Rated pressure	drop		kPa	18	18	18	18	25	30	30	30
Controller			×			Micro pro	cessor based digital	wire controller with I	CD display		
Fan blade							Alur	inum			
Esternal cabins	rt		-				Galvanized steel w	ith powder coating			
		Туре					Sc	rol			
Compressor		City.	Nos.		1 or 2			2			4
		Refrigerant					84	10s			
Water heat ex	changer		16				Titanium tub	e in PVC shell			
Water connect	ion	Inlet&Outlet	inch	DN50	DNS0	DNSO	DNS0	DN63	DN75	DN110	DN110
Sound pressur	e at Im		dE(A)	56	56	\$6	56	62	62	65	65
Air discharge							Top di	scharge			
Net dimension		W*D*H	mm	1480*845*995	1480*845*995	1480*845*595	2000*950*2000	2000*950*2100	2000*1100*2050	2000*1900*2000	2000*1900*2
Net weight			kg	230	230	235	280	290	300	360	380

Note:

Londition of "Marting (II)" Anhibient air temperature: 25°C, Hernidry RDA, Initel/Quide water temperature: WAIATEC;

Londition of "Herning (II)" Anhibient air temperature: 15°C, Hernidry XDA, Initel/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient in temperature: 15°C, Hernidry XDA, Initel/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient are temperature: 15°C, Hernidry ADA, Initel Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient are temperature: 45°C, Hell/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient are temperature: 45°C, Hell/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient air temperature: 15°C, Hell/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient air temperature: 15°C, Hell/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient air temperature: 15°C, Hell/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient air temperature: 15°C, Hell/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient air temperature: 15°C, Hell/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient air temperature: 15°C, Hell/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient air temperature: 15°C, Hell/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient air temperature: 15°C, Hell/Quide water temperature: WAIATEC;

Londition of "Coning (II)" Anhibient air temperature: 15°C, Hell/Quide water temperature: 15°C, Hell/Quide





#### (Inverter Type) T3 Inverter Swimming Pool Chiller & Heat Pump (50Hz) **Technical Specifications**

		odel		T-SPCH-I-3.0V	T-SPCH-I-5.0V	T-SPCH-I-6.0V	T-SPCH-I-SV	T-SPCH-I-6V	T-SPCH-I-10	T-SPOH-I-12	T-SPCH-1-20	T-SPCH-1-25
		нР		3		•	5	6	10	12	20	15
	Power Sup	ply	V/Hz/Ph		220-240/50/1					15/50/3		
		Heating capacity	kW/h	16.5	24	28	24	28	48	56	96	110
	Heating (1):		beu/h	56298	81888	95536	81888	95536	163776	191072	327552	375320
	A26°C Humidity 80% W26/28°C	Power consumption	kW	3.4	4	4,6	4	4,6	8	9.3	16	19.8
	WZIVZ#C	Current	A	15.61	18.37	21.12	6.47	7,44	12.93	15.03	25.86	32.00
Heating		COP	w/w	4.85	6.00	6.09	6.00	6.09	6.00	6.02	6.00	5.56
performance		Heating capacity	kW/h	11.5	18.5	21	18.5	21	38	42	76	86
	Heating (2):	meaning capacity	bou/h	39238	63122	71652	63122	71652	129656	143304	259312	293432
	A15°C Humidity 70%	Power consumption	kw	2.3	3.9	4.5	3.9	4.5	7.9	9.2	7.9	19.5
	W26/28°C	Current	A	10.54	17.91	20.66	6.30	7.27	12.77	14.87	12.77	31.52
		COP	w/w	5.00	4.74	0.67	4.74	4.67	4.81	4.57	9.62	4.41
			kW/h	9	15.5	18	15.5	18	30	35	60	73
		Cooling capacity	beu/h	30708	52886	61416	52886	61416	102360	119420	204720	249076
	Cooling (1): A35°C	Power consumption	kw	2.55	4.37	5	4.4	5	8.7	10	17.4	20.7
	W30/28°C	Current	A	11.71	20.06	22.96	7.11	8.08	14.05	16.16	28.12	33.46
		EER	w/w	3.53	3.55	3.60	3.52	3.60	3.45	3.50	3.45	3.53
Dooling performance			kW/h	7.8	13.7	16	13.7	16	27	32	54	64
		Cooling capacity	bew/h	26613.6	46744,4	54592	46744,4	54592	92124	109184	184248	218368
	Cooling (2): A46°C	Power consumption	kw	2.8	4.81	5.6	4.8	5.6	9.65	11.2	19.3	23.1
	W30/28°C	Current	A	12.86	22.08	25.71	7.76	9.05	15.60	18.10	31.20	37.34
		EER	www	2.79	2.85	2.86	2.85	2.86	2.8	2.86	2.8	2.77
Ambient temp			10					.2153				
	tlet water temp.		*c					28/40				
Rated water fi			m <sup>1</sup> /h	7.1	20.3	12.0	10.3	12.0	20.6	24.1	41.3	47.3
Rated pressure			MPa MPa	5	7	13	7	13	15	17	23	23
	drop			5	,						23	15
Controller						N	icro processor base	ed digital wire contr	oller with LCD displ	ay		
Fan blade								Aluminmum				
External cabine	н							ed steel with powde	er coating			
		Type					Ro	taty				Scroll
Compressor		Qty.	Nos.				1					2
		Refrigerant	-					R410s				
Water heat es	changer		-				Tis	anium tube in PVC s	hell			
Water connect	ion	Inlet&Outlet	inch	DNSO	DNSO	DNS0	DNSO	DN50	DN65	DN65	DNBO	DNEO
Sound pressure	e at Im		dS(A)	42152	46758	45~59	45158	45~59	48162	49~63	62172	62~72
Air discharge								Top discharge				
Net dimension		W*D*H	mm	720*630*750	850*745*875	850*745*875	850*745*875	850*745*875	1480*845*995	1480*845*995	2000*950*2100	2000*950*2100
Not weight			kg	72	120	120	120	120	230	235	285	290

Locations of "Resting (J.F. Analeses site temperature) 20°C, Sunseitly 80%, Molt Quiett water temperature 30°C/20°C;

Locations of "Resting (J.F. Analeses site temperature) 10°C, Sunseitly 80%, Molt Quiett water temperature 30°C/20°C;

Locations of "Resting (J.F. Analeses site temperature) 10°C, Sunseitly 70%, Molt Quiett water temperature 30°C/20°C;

Locations of "Costing (J.F. Analeses site temperature) 20°C, Molt Quiett water temperature 30°C/20°C,

Locations of "Costing (J.F. Analeses site temperature) 20°C, Analeses site temperature 30°C, Analeses site temperatur

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

## (Inverter Type) Technical Specifications

	M	odel		T-SPCH-I-3.0Sa	T-SPCH-I-5.05a	T-SPCH-I-6.0Sa	T-SPCH-I-SSa	T-SPCH-I-6Sa	T-SPCH-I-10Sa	T-SPCH-I-12Sa	T-SPCH-I-205a	T-SPCH-I-25
	-	ю		3	5			٥	10	12	20	25
	Power Supp	ply	V/Hz/Ph		208-230/60/1				208-21	30/60/3		
			kW/h	16.5	24	28	24	28	48	56	96	110
	Heating (1):	Heating capacity	btu/h	56298	81888	95536	81888	95536	163776	191072	327552	375320
	A26°C Humidity 80%	Power consumption	kW	3.4	4	4.6	4	4.6	8	9.3	16	19.8
	W26/28°C	Current	A	15.61	18.37	21.12	11.17	12.84	22.34	25.96	44,67	55.28
Heating		COP	w/w	4.85	6.00	6.09	6.00	6.09	6.00	6.02	6.00	5.56
performance		Heating capacity	kW/h	11.5	18.5	21	18.5	21	38	42	76	86
	Heating (2):	making capacity	btsyfh	39238	63122	71652	63122	71652	129656	143304	259312	293432
	A15°C Humidity 70%	Power consumption	kW	2.3	3.9	4.5	3.9	4.5	7.9	9.2	15.8	19.5
	W26/28°C	Current	A	10.56	17.91	20.66	30.89	12.56	22.06	25.69	44.11	54.44
		COP	w/w	5.00	4.74	4.67	6.74	4.67	6.81	4.57	6.81	4.41
		Cooling capacity	kW/h	9	15.5	18	15.5	18	30	35	60	73
	Cooling (1):	Cooling Capabily	btu/h	30708	52886	61416	52886	61416	102360	119420	204720	249076
	A35°C W30/28°C	Power consumption	kW	2.55	4.37	5	4.4	5	8.7	10	17.4	20.7
		Current	A	11.71	20.06	22.96	12.28	13.96	24.29	27.92	48.58	57.79
Cooling		EER	w/w	3.53	3.55	3.60	3.52	3.60	3.45	3.50	3.45	3.53
performance		Cooling capacity	kW/h	7.8	13.7	16	13.7	16	27	32	54	64
	Cooling (2):	Cooling Capacity	bts/h	26613.6	46744.4	54592	46744.4	54592	92124	109184	184248	218368
	A46°C W30/28°C	Power consumption	kW	2.8	4.81	5.6	4.8	5.6	9.65	11.2	19.3	23.1
		Current	A	12.86	22.08	25.71	13.40	15.63	26.94	31.27	53.88	61.49
		EER	w/w	2.79	2.85	2.86	2.85	2.86	2.80	2.86	2.80	2.77
Ambient temp	. range		°C					-7~53				
Rated/Max.cur	det water temp.		nc nc					28/40				
Rated water fo	ow rate		m³/h	7.1	10.3	12.0	10.3	12.0	20.6	24.1	41.3	47.3
Rated pressure	r drop		kPa	5	7	13	7	13	15	17	23	23
Controller			-			N	icro processor base	ed digital wire contr	oller with LCD displ	lay		
Fan blade								Aluminum				
External cabine	et		-				Galvania	ed steel with powd	er coating			
		Type	-				Ro	taty				Scroll
Compressor		Opy.	Nos.				1					2
		Refrigerant	-					R410a				
Water heat ex	changer		-				Tita	nium tube in PVC	hell			
Water connect	tion	Inlet&Outlet	inch	DNSO	DNSO	DN50	DNSO	DNSO	DNSS	DNGS	DNSD	DNIBO
Sound pressun	e at Im		dB(A)	42~52	46*58	45~59	46~58	45*59	46-62	49~63	62~72	62~72
Air discharge			-					Top discharge				
Net dimension		W*D*H	mn	720*630*750	850*745*875	850*745*875	850*745*875	850*745*875	1480*845*995	1480*845*995	2000*950*2100	2000*950*2
Net weight			kg	72	110	120	110	120	230	235	285	290

Note:

(Confidence of "Hesing (1)" Archiest air temperature: 12°C; Ihersilöp 80%, Note) Coulet water temperature: W28/23°C;

2.Conditions of "Hesing (1)" Archiest air temperature: 13°C, Hersilöp 70%, Note) Coulet water temperature: W28/23°C;

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