



(On/Off Type)

Technical Specifications

Model		SPCH1.05	SPCH1.55	SPCH3.05	SPCH3.05	SPCH3.55	SPCH3.05	SPCH5	SPCH75		
HP		1	1.5	2	3	3.5	5	6	7		
Power Supply		220-240/50/1						380-415/50/3			
Heating performance	Heating (1) A2/C Humidity 80% W2N/28°C	Heating capacity	kWh/h	4.3	6.5	8.6	12.9	14	21.5	26	28.5
		l/s/h	14072	22178	29343	44015	47768	73958	88712	100044	
		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) A1/C Humidity 70% W2N/28°C	Heating capacity	kWh/h	3.8	5.7	7.6	11.4	12.37	15.8	19	21
		l/s/h	12966	19448	25911	38887	42296	53900	64628	74162	
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	4.6	4.8	4.9		
Cooling performance	Cooling A3/C W2N/28°C	Heating capacity	kWh/h	2.7	3.6	5.6	8.2	10.2	11.6	15.5	17.5
		l/s/h	9212	12283	19207	27978	34632	46403	52886	59720	
	Power consumption	kW	0.82	1.07	1.69	2.46	2.46	4.14	4.39	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	26/40									
Rated water flow rate	m ³ /h	1.8	2.8	3.7	5.5	6.0	9.2	13.2	12.7		
Rated pressure drop	MPa	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.	1									
	Refrigerant	R32/R410a									
Water heat exchanger	-	Titanium tube in PVC shell									
Water connection	Inlet/Outlet	Inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	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	1030*370*620	1115*470*700	1133*470*700	1300*430*1275	1300*430*1275		
Net weight	kg	40	41	44	46	46	52	55	59		

Notes:
 1. Conditions of "Heating (1)": Ambient air temperature: 28°C, Humidity 80%, Inlet/Outlet water temperature: W2N/28°C
 2. Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W2N/28°C
 3. Conditions of "Cooling": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W2N/28°C
 Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.



Residential Swimming Pool Chiller & Heat Pump (60Hz)

(On/Off Type)

Technical Specifications

Model		SPCH1.05a	SPCH1.55a	SPCH3.05a	SPCH3.05a	SPCH3.55a	SPCH3.05a	SPCH5a	SPCH75a		
HP		1	1.5	2	3	3.5	5	6	7		
Power Supply		208-230/60/1						380-415/60/3			
Heating performance	Heating (1) A2/C Humidity 80% W2N/28°C	Heating capacity	kWh/h	3.9	5.60	8.0	10.5	14	21	26.50	30.00
		l/s/h	13107	19107	27296	35326	47768	61946	9418	10230	
		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) A1/C Humidity 70% W2N/28°C	Heating capacity	kWh/h	3.10	4.20	5.8	8	10.6	15	20.00	23.0
		l/s/h	10577	14330	19790	27296	36247	51840	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 A3/C W2N/28°C	Heating capacity	kWh/h	2.7	3.60	5.60	7.5	9.75	13.5	16.0	18
		l/s/h	9212	12283	19207	25900	29855	46062	54952	65416	
	Power consumption	kW	0.82	1.07	1.69	2.33	2.6	4.35	4.79	5.29	
	EER	w/w	3.3	3.35	3.32	3.36	3.36	3.35	3.34	3.4	
Ambient temp. range	°C	-7~46									
Rated/Max.outlet water temp.	°C	26/40									
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	MPa	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.	1									
	Refrigerant	R32/R410a									
Water heat exchanger	-	Titanium tube in PVC shell									
Water connection	Inlet/Outlet	Inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	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	1030*370*620	1115*470*700	1133*470*700	1300*430*1275	1300*430*1275		
Net weight	kg	40	41	44	46	46	52	55	59		

Notes:
 1. Conditions of "Heating (1)": Ambient air temperature: 28°C, Humidity 80%, Inlet/Outlet water temperature: W2N/28°C
 2. Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W2N/28°C
 3. Conditions of "Cooling": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W2N/28°C
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(On/Off Type)
Technical Specifications

Commercial Swimming Pool Chiller & Heat Pump (50Hz)

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) Δ26°C Humidity 80% W26/28°C	Heating capacity	kWh	45	55	65	90	120	145	150	220
		Heating capacity	btu/h	15340	18760	22170	30780	40940	49470	48280	75040
		Power consumption	kW	8	10	12	17	22	26	35	40
	Heating (2) Δ15°C Humidity 70% W20/22°C	Heating capacity	kWh	38	47	55	77	102	123	162	187
		Heating capacity	btu/h	13050	15911	18813	26108	34824	42029	55038	63604
		Power consumption	kW	8	9	11	16	21	25	34	39
Cooling performance	Cooling Δ13°C W20/22°C	Heating capacity	kWh	4.9	4.9	4.8	4.8	4.8	4.9	4.8	4.8
		Heating capacity	btu/h	16715	16715	16512	16512	16512	16715	16512	16512
		Power consumption	kW	9	11	13	15	18	21	25	30
Ambient temp. range		°C		-7~46							
Rated/Max.outlet water temp.		°C		26/40							
Rated water flow rate		m ³ /h		19.3	23.6	27.9	38.7	51.6	62.3	81.7	94.6
Rated pressure drop		MPa		18	18	18	18	25	30	30	30
Controller		-									
External cabinet		-									
Compressor		Type	Scroll								
		Qty.	1 or 2		2	2	2	4	4	4	
		Refrigerant	R32/R410a								
Water heat exchanger		-									
Water connection		Inlet/Outlet	DN60		DN50	DN60	DN63	DN75	DN110	DN110	
Sound pressure at 1m		dB(A)		56	56	56	62	62	65	65	
Air discharge		-									
Net dimension		W*D*H	mm		1470*850*950	1470*850*950	2000*950*2000	2000*1100*2000	2000*1300*2000	2000*1300*2100	
Net weight		kg		380	380	500	570	600	1140	1190	1180

Notes:
 1.Conditions of "Heating (1)": Ambient air temperature: 24°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: W20/22°C;
 3.Conditions of "Cooling": Ambient air temperature: 31°C, Inlet/Outlet water temperature: W20/22°C;
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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) Δ26°C Humidity 80% W26/28°C	Heating capacity	kWh	52	65	75	105	135	165	220
		Heating capacity	btu/h	177424	21780	25590	35820	46620	56280	70640
		Power consumption	kW	9	12	14	19	25	29	41
	Heating (2) Δ15°C Humidity 70% W20/22°C	Heating capacity	kWh	44	55	64	89	115	140	187
		Heating capacity	btu/h	150810	18813	21755	30421	39327	47853	63844
		Power consumption	kW	9	11	13	19	24	28	39
Cooling performance	Cooling Δ13°C W20/22°C	Heating capacity	kWh	4.9	4.9	4.8	4.8	4.9	4.8	4.8
		Heating capacity	btu/h	16715	16715	16512	16512	16715	16512	16512
		Power consumption	kW	10	13	15	21	26	32	42
Ambient temp. range		°C		-7~46						
Rated/Max.outlet water temp.		°C		26/40						
Rated water flow rate		m ³ /h		22.4	27.9	32.2	45.1	58.0	70.9	94.6
Rated pressure drop		MPa		18	18	18	18	25	30	30
Controller		-								
External cabinet		-								
Compressor		Type	Scroll							
		Qty.	1 or 2		2	2	2	4	4	
		Refrigerant	R32/R410a							
Water heat exchanger		-								
Water connection		Inlet/Outlet	DN60		DN50	DN60	DN63	DN75	DN110	
Sound pressure at 1m		dB(A)		56	56	56	62	62	65	
Air discharge		-								
Net dimension		W*D*H	mm		1470*850*950	1470*850*950	2000*950*2100	2000*1100*2000	2000*1300*2100	
Net weight		kg		380	380	500	570	600	1140	

Notes:
 1.Conditions of "Heating (1)": Ambient air temperature: 24°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: W20/22°C;
 3.Conditions of "Cooling": Ambient air temperature: 31°C, Inlet/Outlet water temperature: W20/22°C;
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