



(On/Off Type)
Technical Specifications

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

Model		T-SPCH3.5V	T-SPCH5V	T-SPCH7V	
HP		3.5	5	7	
Power Supply		V/Hz/Ph	380-415/50/3		
Heating performance	Heating (1): A25°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): A45°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.	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: 45°C, Inlet/Outlet water temperature: W30/28°C;

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(On/Off Type)
Technical Specifications

T3 Residential Swimming Pool Chiller & Heat Pump (60Hz)

Model		T-SPCH3.5Va	T-SPCH5Va	T-SPCH7Va	
HP		3.5	5	7	
Power Supply		V/Hz/Ph	208-230/60/1		
Heating performance	Heating (1): A25°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): A45°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.	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: 45°C, Inlet/Outlet water temperature: W30/28°C;

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(On/Off Type)
Technical Specifications

T3 Commercial Swimming Pool Chiller & Heat Pump (50Hz)

Model		T-SPCH10	T-SPCH12	T-SPCH15	T-SPCH20	T-SPCH25	T-SPCH30	T-SPCH40	T-SPCH50		
HP		10	12	15	20	25	30	40	50		
Power Supply		V/Ph/Hz		380-415/3/50							
Heating performance	Heating (1): A35°C Humidity 80% WS/28°C	Heating capacity	kW/h	46	55	69	91	114	137	183	229
		btu/h	156000	187200	234000	312000	390000	468000	624000	780000	
		Power consumption	kW	9.33	11.20	14.59	19.05	24.32	29.58	40.04	49.7
	CoP	w/w	4.8	4.9	4.7	4.8	4.7	4.7	4.5	4.5	
	Heating (2): A35°C Humidity 70% WS/28°C	Heating capacity	kW/h	36	43	53	71	89	107	143	178
		btu/h	121680	146016	182520	243360	304200	365040	486720	608400	
Power consumption		kW	8.49	9.95	13.09	16.98	22.29	26.69	35.66	44.58	
CoP	w/w	4.2	4.3	4.1	4.2	4.0	4.1	4.0	4.0		
Cooling performance	Cooling (1): A35°C WS/28°C	Cooling capacity	kW/h	35	42	53	70	88	106	141	176
		btu/h	120000	144000	180000	240000	300000	360000	480000	600000	
		Power consumption	kW	13.48	16.11	20.37	26.54	33.56	40.43	53.49	67.9
	Cooling (2): A35°C WS/28°C	Cooling capacity	kW/h	2.61	2.62	2.59	2.65	2.62	2.61	2.63	2.59
		btu/h	9000	9000	8900	9100	9000	9200	9100	9300	
		Power consumption	kW	14.87	17.58	21.87	27.94	37.75	47.50	59.88	73.63
CoP	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 outlet water temp.	°C	26/40									
Rated water flow rate	m ³ /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 processor based digital wire controller with LCD display									
Fan blade	-	Aluminum									
External cabinet	-	Galvanized steel with powder coating									
Compressor	Type	Scroll									
	Qty	No.		1 or 2		2		4		4	
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	62	65	65	
Air discharge	-	Top discharge									
Net dimension	W*D*H	mm	1480*845*995	1480*845*995	1480*845*995	2000*950*2000	2000*950*2100	2000*1100*2100	2000*1300*2000	2000*1300*2100	
Net weight	kg	230	230	235	280	290	300	360	360	380	

Notes:
 1. Conditions of Heating (1): Ambient air temperature: 28°C, Humidity 80%, Inlet/Outlet water temperature: WS/28°C;
 2. Conditions of Heating (2): Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: WS/28°C;
 3. Conditions of Cooling (1): Ambient air temperature: 35°C, Inlet/Outlet water temperature: WS/28°C;
 4. Conditions of Cooling (2): Ambient air temperature: 45°C, Inlet/Outlet water temperature: WS/28°C;
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(On/Off Type)
Technical Specifications

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

Model		T-SPCH10a	T-SPCH12a	T-SPCH15a	T-SPCH20a	T-SPCH25a	T-SPCH30a	T-SPCH40a	T-SPCH50a		
HP		10	12	15	20	25	30	40	50		
Power Supply		V/Ph/Hz		208-230/3/60							
Heating performance	Heating (1): A35°C Humidity 80% WS/28°C	Heating capacity	kW/h	46	55	69	91	114	137	183	229
		btu/h	156000	187200	234000	312000	390000	468000	624000	780000	
		Power consumption	kW	9.33	11.41	14.59	19.05	24.95	29.14	40.04	50.8
	CoP	w/w	4.8	4.8	4.7	4.8	4.6	4.7	4.5	4.5	
	Heating (2): A35°C Humidity 70% WS/28°C	Heating capacity	kW/h	36	43	53	71	89	107	143	178
		btu/h	121680	146016	182520	243360	304200	365040	486720	608400	
Power consumption		kW	8.67	10.13	13.09	16.99	22.83	28.07	36.02	45.03	
CoP	w/w	4.3	4.2	4.3	4.2	4.0	4.1	4.0	4.0		
Cooling performance	Cooling (1): A35°C WS/28°C	Cooling capacity	kW/h	35	42	53	70	88	106	141	176
		btu/h	120000	144000	180000	240000	300000	360000	480000	600000	
		Power consumption	kW	13.48	16.11	20.37	26.54	33.56	40.43	53.49	67.9
	Cooling (2): A35°C WS/28°C	Cooling capacity	kW/h	2.61	2.62	2.59	2.65	2.62	2.61	2.63	2.59
		btu/h	9000	9000	8900	9100	9000	9200	9100	9300	
		Power consumption	kW	14.87	17.08	21.87	27.94	37.75	47.50	59.88	73.63
CoP	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 outlet water temp.	°C	26/40									
Rated water flow rate	m ³ /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 processor based digital wire controller with LCD display									
Fan blade	-	Aluminum									
External cabinet	-	Galvanized steel with powder coating									
Compressor	Type	Scroll									
	Qty	No.		1 or 2		2		4		4	
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	62	65	65	
Air discharge	-	Top discharge									
Net dimension	W*D*H	mm	1480*845*995	1480*845*995	1480*845*995	2000*950*2000	2000*950*2100	2000*1100*2050	2000*1300*2000	2000*1300*2100	
Net weight	kg	230	230	235	280	290	300	360	360	380	

Notes:
 1. Conditions of Heating (1): Ambient air temperature: 28°C, Humidity 80%, Inlet/Outlet water temperature: WS/28°C;
 2. Conditions of Heating (2): Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: WS/28°C;
 3. Conditions of Cooling (1): Ambient air temperature: 35°C, Inlet/Outlet water temperature: WS/28°C;
 4. Conditions of Cooling (2): Ambient air temperature: 45°C, Inlet/Outlet water temperature: WS/28°C;
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(Inverter Type)

Technical Specifications

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

Model		T-SPCH-1-10V	T-SPCH-1-15.0V	T-SPCH-1-18.0V	T-SPCH-1-5V	T-SPCH-1-6V	T-SPCH-1-10	T-SPCH-1-12	T-SPCH-1-20	T-SPCH-1-25	
HP		3	5	6	5	6	10	12	20	25	
Power Supply		220-240/50/1					180-415/50/3				
Heating performance	Heating capacity		kW/h								
	Power consumption		kW								
	Current		A								
	COP		w/h								
	Heating capacity		kW/h								
	Power consumption		kW								
	Current		A								
	COP		w/h								
	Cooling capacity		kW/h								
	Power consumption		kW								
Current		A									
EER		w/h									
Cooling capacity		kW/h									
Power consumption		kW									
Current		A									
EER		w/h									
Rated/Max.cooler water temp.		°C									
Rated water flow rate		m ³ /h									
Rated pressure drop		kPa									
Controller		Micro processor based digital wire controller with LCD display									
Fan blade		Aluminium									
External cabinet		Galvanized steel with powder coating									
Compressor		Type	Rotary							Scroll	
		Refrigerant	R410a								
Water heat exchanger		Titanium tube in PVC shell									
Water connection		Inlet&Outlet									
Sound pressure at 2m		dB(A)									
Air discharge		Top discharge									
Net dimension		W*H*D									
Net weight		kg									

Notes:
 1. Conditions of "Heating (1)": Ambient air temperature: 28°C, Humidity 80%, Inlet/Outlet water temperature: W3/W2/8°C;
 2. Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W3/W2/8°C;
 3. Conditions of "Cooling (1)": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W3/W2/8°C;
 4. Conditions of "Cooling (2)": Ambient air temperature: 45°C, Inlet/Outlet water temperature: W3/W2/8°C.
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(Inverter Type)

Technical Specifications

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

Model		T-SPCH-1-3.00a	T-SPCH-1-5.00a	T-SPCH-1-6.00a	T-SPCH-1-55a	T-SPCH-1-103a	T-SPCH-1-125a	T-SPCH-1-205a	T-SPCH-1-235a		
HP		3	5	6	5	6	10	12	20	25	
Power Supply		208-230/60/1					208-230/60/3				
Heating performance	Heating capacity		kW/h								
	Power consumption		kW								
	Current		A								
	COP		w/h								
	Heating capacity		kW/h								
	Power consumption		kW								
	Current		A								
	COP		w/h								
	Cooling capacity		kW/h								
	Power consumption		kW								
Current		A									
EER		w/h									
Cooling capacity		kW/h									
Power consumption		kW									
Current		A									
EER		w/h									
Rated/Max.cooler water temp.		°C									
Rated water flow rate		m ³ /h									
Rated pressure drop		kPa									
Controller		Micro processor based digital wire controller with LCD display									
Fan blade		Aluminium									
External cabinet		Galvanized steel with powder coating									
Compressor		Type	Rotary							Scroll	
		Refrigerant	R410a								
Water heat exchanger		Titanium tube in PVC shell									
Water connection		Inlet&Outlet									
Sound pressure at 2m		dB(A)									
Air discharge		Top discharge									
Net dimension		W*H*D									
Net weight		kg									

Notes:
 1. Conditions of "Heating (1)": Ambient air temperature: 28°C, Humidity 80%, Inlet/Outlet water temperature: W3/W2/8°C;
 2. Conditions of "Heating (2)": Ambient air temperature: 15°C, Humidity 70%, Inlet/Outlet water temperature: W3/W2/8°C;
 3. Conditions of "Cooling (1)": Ambient air temperature: 35°C, Inlet/Outlet water temperature: W3/W2/8°C;
 4. Conditions of "Cooling (2)": Ambient air temperature: 45°C, Inlet/Outlet water temperature: W3/W2/8°C.
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