

Swimming Pool Air Source Heat Pump <http://www.heatpumpsupply.com>

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General features

1. Swimming pool air source heat pump has automatic operation mode
2. It features auto-restart and auto defrosting.
3. The heat pump has friendly and intelligent LCD Control panel interface.
4. Both cooling & heating mode are optional for this heat pump.
5. The product presents wide working ambient temperature, ranging from 10 °C to 43°C.
6. It adopts world famous Copeland compressor.
7. Finally it includes Green refrigerant R410a/R407c for environment safety etc.

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Advantages of Swimming pool air source heat pump

1. The heating capacity ranges from 7kW, 220V/1ph/50Hz to 230kW, 380V/3ph/50Hz
2. The swimming pool air source heat pump has long operating life by using the advanced stainless steel/titanium heat exchanger, which resists the erosion from chlorine in the water and creates a longer life span.
3. It is designed for comprehensive anti-corrosion feature, in which the special case design adopts stainless steel bolts and nuts. The holes for bolts are designed to avoid the damage of the coating. Durable coating in white or stainless steel is available
4. Special design for the fan shroud, with accurate and equal distance between the fan blades and fan shroud, offers low vibration, and low noise when running.
5. The heat pump features intelligent defrosting with revert circuit.
6. This product has cover on remote wire control panel and is waterproof
7. The refrigerant available for our swimming pool air source heat pump is R22/ R407C/ R410A.
8. Our heat pump is remarkably compact with flow switch built inside.
9. Our swimming pool air source heat pump offers safety for both water and electricity by separating insulated part without electric shock.
10. The whole units of the product are warranted for one year period.

Technical Specification of Swimming Pool Heat and Chill Pumps - Vertical style

Model	Units	HLRD 9-YC	HLRD 15-YC	HLRD 24-YC	HLRD 30-YC	HLRD 36-YC	HLRD 45-YC	HLRD 60-YC	
Heating Capacity	kW	13.5	21.3	35.5	45.5	52.8	66	87.4	
	BTU/h	46000	73000	121000	155000	180000	225000	300000	
COP	----	4.33	4.96	4.87	4.84	4.74	4.46	4.65	
Cooling Capacity	kW	8.8	14.7	25.5	30.5	35.8	44.9	59.5	
	BTU/h	30000	50000	87000	104000	122000	153000	203000	
EER	----	2.67	2.68	3.00	2.78	3.12	2.78	2.71	
Max Water Outlet Temperature	°C	45							
Power Supply	V/PH/HZ	220-240V/1N~/50Hz			380V-400V/3N~/50Hz				

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Rated Input Power (Heating/Cooling)	kW	3.12/ 3.30	4.3/ 5.50	7.30/ 8.50	9.4/ 11.00	11.15/ 11.50	14.80/ 16.20	18.80/ 22.00
Rated Input Current (Heating/ Cooling)	A	14.5/ 15.3	6.5/ 9.9	11/ 13.4	14.2/ 19.8	20.1/ 19.24	28.2/ 30.1	33.9/ 39.7
Max Input Power	kW	3.4	6.1	10	13.5	15.1	18.9	25.4
Max Input Current	A	15.5	9.2	15.2	20.6	27.2	34.1	45.8
Ambient Temperature	℃	-10℃~43℃						
Heat Exchanger		Titanium in seamless stainless steel						
Refrigerant/Chare Qty	kg	R407C /1.5	R407C /1.9	R407C /1.7*2	R407C /3.8	R407C /2.2*2	R407C /3.5*2	R407C /4.5*2
Compressor Type		Scroll						
Number of Compressors		1	1	2	2	2	2	2
Number of Fans		1	1	2	2	2	2	2
Fan Air Flow Volume	m ³ /h	3900	6500	13000	13000	15600	19500	26000
Fan Direction		Vertical						
Fan Power Input	W	180	260	320×2	320×2	550×2	550×2	640×2
Fan Rotation Speed	RPM	850	850	790	790	820	820	790
Noise	dB (A)	≤54	≤56	≤61	≤61	≤66	≤66	≤66
Piping Diameter	mm	DN40	DN40	DN50	DN50	DN50	DN65	DN65
Discharge Pressure	Mpa	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Suction Pressure	Mpa	0.3-0.8	0.3-0.8	0.3-0.8	0.3-0.8	0.3-0.8	0.3-0.8	0.3-0.8
Rated Water Pressure	Mpa	0.2~0.6						
Max Water-in Pressure	Mpa	1	1	1	1	1	1	1
Min Water-in Pressure	Mpa	/	/	/	/	/	/	/

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Water Flow Volume	m ³ /h	2.52	3.77	6.00	7.54	9.05	11.31	14.98
Net Weight	kg	90	114	214	244	276	450	472
Shipping Weight	kg	102	128	238	268	316	487	526
Product Dimension	mm	695	703	1450	1450	1450	1580	1990
		/655	/687	/705	/705	/710	/850	/980
Shipping Size	mm	787	816	1535	1535	1560	1700	2110
		/775	/797	/835	/835	/830	/970	/1100
		/842	/1045	/1083	/1184	/1355	/1670	/2150
Certificates		CE/CB/C-TICK/SAA				CE		
Notes:								

1. Heating working condition: Outdoor DB/WB temp: 24°C/19°C,62.5%RH, inlet/outlet water temp:27°C/32°C.

2. Cooling working condition: Outdoor DB/WB temp: 43°C/37°C,68%RH, inlet/outlet water temp:32°C/27°C.

3. Other sizes are available. 4. COP = heating capacity / heating power input (for heating).

5. EER = cooling capacity / cooling power input (for cooling).

6. Sizing: $P = (CV (T2-T1)/t)*1.20$ where P=Capacity required (kW), C=Coefficient (1.163), V=Water volume (m³), T2=Target water temp (°C), T1=Water temp before heating (°C)

Technical specification of Swimming Pool Heat and Chill Pumps- Horizontal style

Model	Units	HLRC5-YC	HLRC8-YC	HLRC9-YC	HLRC15-YC
Heating Capacity	kW	7	9.8	13.5	21.3
	BTU/h	24000	33400	46000	73000
COP	-----	4.83	4.76	4.33	4.96
Cooling Capacity	kW	4.5	6.2	8.8	14.7

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	BTU/h	15000	21000	30000	50000
EER	-----	2.73	2.82	2.67	2.68
Max Water Outlet Temperature	°C	45			
Power Supply	V/ph/Hz	220-240V/1N~/50Hz			380V-400V/3N~/50Hz
Rated Input Power (Heating/Cooling)	kW	1.45/1.65	2.06/2.20	3.12/3.30	4.3/5.50
Rated Input Current (Heating/ Cooling)	A	6.6/7.5	9.6/10.2	14.5/15.3	6.5/9.9
Max Input Power	kW	1.9	2.5	3.4	6.1
Max Input Current	A	9.1	11.5	15.5	9.2
Ambient Temperature	°C	-10°C~43°C			
Heat Exchanger		Titanium in seamless stainless steel			
Refrigerant/Charge Qty	kg	R407C/1.1	R407C/1.1	R407C/1.5	R407C/1.9
Compressor Type		Rotary		Scroll	
Number of Compressors		1	1	1	1
Number of Fans		1	1	1	2
Fan Air Flow Volume	m ³ /h	2000	2600	3900	6500
Fan Direction		Horizontal			
Fan Power Input	W	90	120	180	130x2
Fan Rotation Speed	RPM	850	850	850	850
Noise	dB (A)	≤48	≤50	≤54	≤56
Piping Diameter	mm	DN25	DN25	DN40	DN40
Discharge Pressure	Mpa	2.5	2.5	2.5	2.5
Suction Pressure	Mpa	0.3-0.8	0.3-0.8	0.3-0.8	0.3-0.8

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Rated Water Pressure	MPa	0.2~0.6			
Max Water-in Pressure	Mpa	1	1	1	1
Min Water-in Pressure	Mpa	/	/	/	/
Water Flow Volume	m ³ /h	1.20	1.68	2.31	3.65
Net Weight	Kg	38	67	97.5	114
Shipping Weight	Kg	51	85	113.5	128
Product Dimension	mm	1150/350/620	1150/350/620	1115/425/710	1110/420/1222
Shipping Dimension	mm	1200/400/670	1200/400/670	1242/540/782	1220/530/1337
Certificates		CE		CE/CB/C-TICK/SAA	
Notes:					
1. Heating working condition: Outdoor DB/WB temp: 24°C/19°C, 62.5%RH, inlet/outlet water temp:27°C/32°C.					
2. Cooling working condition: Outdoor DB/WB temp: 43°C/37°C, 68%RH, inlet/outlet water temp: 32°C/27°C.					
3. Other sizes are available.					
4. COP = heating capacity / heating power input (for heating).					
5. EER = cooling capacity / cooling power input (for cooling).					
6. Sizing: $P = (CV (T2-T1)/t)*1.20$ where P=Capacity required (kW), C=Coefficient (1.163), V=Water volume (m ³), T2=Target water temp (° C), T1=Water temp before heating (° C), t=time to heat, plus add 20%.					

The swimming pool air source heat pump can be installed in many environments, including a constant temperature swimming pool, sauna constant hot water system, or for application of supplying hot water at home.

Heat pump supply is a swimming pool air source heat pump manufacturer in China. Our company provides a wide range of products including DC inverter air source heat pump, household heat pump water heater, and tube solar water heater, among others.

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