



PROFESSIONAL HOT SPRING HEAT PUMP

LHP



The maximum water temperature can reach **50°C**

Can be used under special water quality, It can effectively resist varying degrees of acid-alkali, chloride ion corrosion and sediment erosion.

- High heat transfer efficiency and compact structure: The heat transfer tube adopts an efficient internal thread tube, and the heat transfer coefficient is twice more than that of the conventional shell tube heat transfer coefficient.
- The inlet and outlet of refrigerant are cleverly sealed to avoid water leakage: The seals are made of high temperature resistant materials and can withstand high temperatures of 200°C and -20°C.
- Corrosion resistance, long service life, the water side is not easy to block: engineering plastic has more corrosion resistant than metal, longer life. The water side volume of the heat exchanger is more than twice that of the plate heat exchanger and is more resistant to dirty plugging.
- Energy-saving: Adopting international advanced heat pump technology, the power consumption is only 20% of the electric boiler, and the running cost is low.

- Environmental friendly: R410A environmental friendly refrigerant (optional R22).
- Heating control: automatic heating, automatic constant temperature, automatic defrosting, self-feedback water control, electronic expansion valve control.
- Multiple protection, safe and reliable: built-in electronic water flow protection, compressor discharge temperature protection, compressor high and low voltage protection, compressor over-current protection, power supply phase protection (for three phases machine), winter frost protection.
- Quiet operation: Adopt low noise compressor and fan design, the unit runs quietly.



High efficiency pure titanium heat exchanger

High heat transfer efficiency

The inner tube is made of industrial pure titanium, which is resistant to corrosion. The surface structure of the heat transfer tube increases the surface area of more than 30% of a unit of pure titanium tube. The heat exchange is sufficient, the heat transfer effect is good, and a spiral structure formed with enhanced heat exchange .

Specification and size:

Model		LHP-050-50H	LHP-070-50H	LHP-100-50H	LHP-120-50H	LHP-150-50H	LHP-200-50H	LHP-300-50H	LHP-500-50H
Rated Hot Water Production	L/h	375	525	750	900	1125	1500	2250	3750
Rated Heating Capacity ①	kW	17.5	24.5	35.0	42.0	52.5	75.0	112.5	187.5
Rated Input Power ①	kW	3.80	5.30	7.59	9.108	11.29	16.13	24.195	40.325
Rated Input Current ①	A	7.0	10	14.1	16.92	20.9	29.9	44.85	74.75
COP ①	W/W	4.60	4.60	4.61	4.61	4.65	4.65	4.65	4.65
Rated Heating Capacity ②	kW	13.8	19.3	27.5	33	41.3	55.0	82.5	137.5
Rated Input Power ②	kW	3.94	5.45	7.75	9.3	11.72	15.28	22.92	38.2
Rated Input Current ②	A	7.3	10	14.4	17.28	21.7	28.3	42.45	70.75
COP ②	W/W	3.50	3.54	3.55	3.55	3.52	3.60	3.60	3.60
Power Supply	V/PH/Hz	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Maximum Operating Current	A	10.3	15.5	20.5	24.6	30.7	43.9	65.85	109.75
Noise	dB(A)	56	58	60	60	62	64	68	72
Circulating Water Outlet		DN25 Male thread	DN32 Male thread	DN50 Male thread	DN50 Male thread	DN50 Male thread	DN65 Flange	DN65 Flange	DN65 Flange
Pool Water Flow Rate	m³/h	5.02	7.02	10.03	12.04	15.05	21.50	32.24	53.74
Dimensions(mm)	L	750	810	1450	1450	1480	1806	2006	2112
	W	750	810	725	725	900	1056	1056	2006
	H	1050	1250	1050	1200	1630	1935	2055	2055
Weight	kg	152	178	252	280	412	503	735	1085

① Heating: DB20°C / WB15°C, water temperature from 9°C to 50°C.

② Heating: DB7°C/WB6°C, the water temperature is raised from 9°C to 50°C.

③ Operating ambient temperature: -12°C~43°C.