

Магнитолевитационный блок холодной воды (тепловой насос)

Технические характеристики

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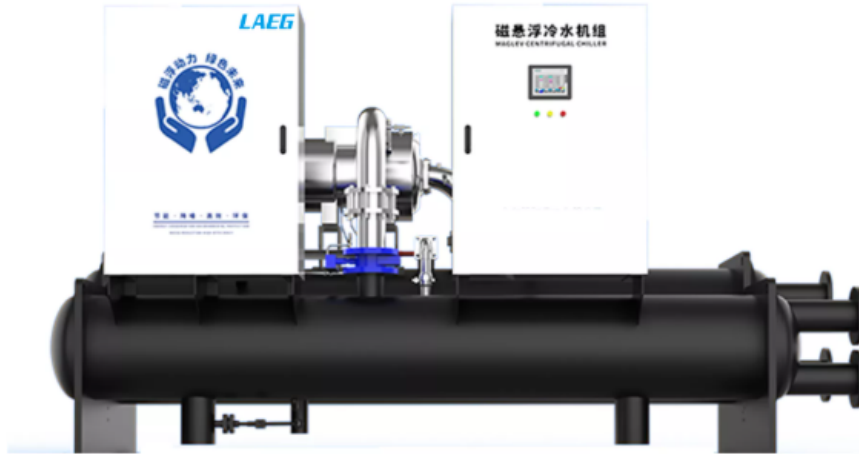
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Magnetic levitation cold water (heat pump) unit

Magnetic levitation centrifugal cold water (heat pump) unit is a high-tech product of energy saving and environmental protection. Compared with the traditional chiller, the magnetic suspension centrifugal cold water (heat pump) unit has a higher energy efficiency ratio, the average power saving of 30%, the noise is as low as 80 decibels, no oil, with small size, light weight, high energy density and other advantages, can provide stability, energy saving, environmental protection power heart for the refrigeration (heat pump) system, is the iterative upgrade of air conditioning, industrial cooling, HVAC and other fields Product.



Product parameter

Magnetic suspension chiller		LAC-100	LAC-200	LAC-300	LAC-400	LAC-500	LAC-600	LAC-700	LAC-800	
Basic parameter	Rated cooling capacity	kW	380	780	1060	1405	1750	2100	2450	2810
	Input power	kW	64	125	170	216	269	318	371	400
	COP	kW	5.93	6.24	6.24	6.5	6.5	6.6	6.6	7.03
Compressor	Type	/	Magnetic levitation centrifugal compressor							
	Driving mode	/	Variable frequency starting							
	Energy regulation mode	/	Stepless regulation							
Evaporator	Type	/	Falling film shell and tube heat exchanger							
	Inlet water temperature	°C	12							
	Effluent temperature	°C	7							
	Circulating water flow	m ³ /h	66	135	182	242	301	362	422	483
	Pressure drop	kpa	≤60							
	Chilled water pipe diameter	mm	DN125	DN150	DN200	DN200	DN250	DN250	DN250	DN300
Condenser	Type	/	Shell and tube heat exchanger							
	Inlet water temperature	°C	30							
	Effluent temperature	°C	-							
	Circulating water flow	m ³ /h	82	167	228	302	376	451	526	604
	Pressure drop	kpa	≤80							
Chilled water pipe diameter	mm	DN125	DN150	DN200	DN200	DN250	DN250	DN250	DN300	
Electrical parameter	Power source	/	Three-phase 380V 50Hz							
	Total safety protection	/	High and low pressure, overload, lack of phase, water flow protection, antifreeze protection, low temperature protection							
Refrigerant	Refrigerant name	/	R134a							
	Amount of refrigerant to be charged	kg	135	225	360	440	520	640	750	860
	Throttling form	/	Electronic expansion valve							
Weight	Shipping weight	kg	3000	4000	5100	5800	6500	7300	7800	8800
	Operating weight	kg	3600	4800	6100	6900	7500	8100	8600	9900
Overall dimension	Length	mm	3500	3900	4600	5200	5300	5800	6000	6500
	Breadth	mm	1600	1780	1800	1980	1980	1980	2000	2000
	Altitude	mm	2150	2260	2270	2390	2390	2430	2430	2500

Note:

1. Model meaning: Brand - Equipment abbreviation - Refrigeration capacity (unit: Rt) LAC-100, for example, LA represents the brand, C represents the chiller, and the refrigeration capacity is 100Rt.
2. The design and manufacturing standards for magnetic levitation chiller units refer to GB/T18403.1 "Steam compression cycle chiller (heat pump) units - Part 1: Industrial or commercial chiller (heat pump) units and similar purposes".
3. The above content may be subject to changes due to product improvements or other reasons, and is subject to change without prior notice.

Maglev ground source heat pump unit			LARG-100	LARG-200	LARG-400	LARG-800	
Basic parameter	Rated cooling capacity		kW	368	745	1350	2710
	Refrigeration input power		kW	46.8	94.5	171	342
	Rated heat production		kW	450	910	1645	3290
	Heating input power		kW	89	180	322	644
Compressor	Type		/	Magnetic levitation centrifugal compressor			
	Driving mode		/	Variable frequency starting			
	Energy regulation mode		/	Stepless regulation			
Evaporator	Type		/	Falling film shell and tube heat exchanger			
	Refrigeration	Inlet and outlet temperature	°C	The chilled water inlet temperature is 12 ° C, and the outlet temperature is 7 ° C			
		Water discharge	m ³ /h	63	128	233	467
	Heating	Inlet and outlet temperature	°C	The inlet temperature of the heat source water is 10°C, and the outlet temperature is 6.1°C			
		Water discharge	m ³ /h	79	160	291	583
	Pressure drop		kpa	≤80			
Nozzle diameter		mm	DN125	DN200	DN200	DN300	
Condenser	Type		/	Shell and tube heat exchanger			
	Refrigeration	Inlet and outlet temperature	°C	The inlet temperature of cooling water is 25°C, and the outlet temperature is 29.5°C			
		Water discharge	m ³ /h	79	160	291	583
	Heating	Inlet and outlet temperature	°C	Hot water inlet temperature 38.9°C, outlet temperature 45°C			
		Water discharge	m ³ /h	63	128	233	467
	Pressure drop		kpa	≤80			
Nozzle diameter		mm	DN125	DN200	DN200	DN300	
Electrical parameter	Power source		/	Three-phase 380V 50Hz			
	Total safety protection		/	High and low pressure, overload, lack of phase, water flow protection, antifreeze protection, low temperature protection			
Refrigerant	Refrigerant name		/	R134a			
	Amount of refrigerant to be charged		kg	120	210	440	880
	Throttling form		/	Electronic expansion valve		Electric expansion valve	
Weight	Shipping weight		kg	3000	4100	5800	7800
	Operating weight		kg	3600	5000	6900	9000
Overall dimension	Length		mm	3500	3900	6000	6500
	Breadth		mm	1500	1780	1800	2000
	Altitude		mm	2000	2360	2360	2500

Note:

1. Model meaning: brand - equipment abbreviation - Cooling capacity (unit Rt) LARG-100 for example, LA represents the brand, RG represents the ground source heat pump unit, the cooling capacity is 100Rt.
2. Maglev ground source heat pump unit design and manufacturing standards refer to GB/T9409 "Water (ground) source heat pump Unit";
3. The above content may change due to product improvement and other reasons. If there is any change, it is subject to change without prior notice.

Magnetic levitation water source heat pump unit			LARW-100	LARW-200	LARW-400	LARW-800	
Basic parameter	Rated cooling capacity		kW	360	729	1315	2635
	Refrigeration input power		kW	44.5	90	162	324
	Rated heat production		kW	462	935	1685	3380
	Heating input power		kW	86	174	312	622
Compressor	Type		/	Magnetic levitation centrifugal compressor			
	Driving mode		/	Variable frequency starting			
	Energy regulation mode		/	Stepless regulation			
Evaporator	Type		/	Falling film shell and tube heat exchanger			
	Refrigeration	Inlet and outlet temperature	°C	The chilled water inlet temperature is 12 ° C, and the outlet temperature is 7 ° C			
		Water discharge	m³/h	62	126	226	453
	Heating	Inlet and outlet temperature	°C	The inlet temperature of the heat source water is 15°C, and the outlet temperature is 6.3°C			
		Water discharge	m³/h	37	75	136	272
	Pressure drop		kpa	≤80			
	Nozzle diameter		mm	DN125	DN150	DN200	DN250
Condenser	Type		/	Shell and tube heat exchanger			
	Refrigeration	Inlet and outlet temperature	°C	The inlet and outlet temperature of cooling water is 18°C, and the outlet temperature is 27.4°C			
		Water discharge	m³/h	37	75	136	272
	Heating	Inlet and outlet temperature	°C	The inlet and outlet temperature of hot water is 38.6°C, and the outlet temperature is 45°C			
		Water discharge	m³/h	62	126	226	453
	Pressure drop		kpa	≤80			
Nozzle diameter		mm	DN125	DN150	DN200	DN250	
Electrical parameter	Power source		/	Three-phase 380V 50Hz			
	Total safety protection		/	High and low pressure, overload, lack of phase, water flow protection, antifreeze protection, low temperature protection			
Refrigerant	Refrigerant name		/	R134a			
	Amount of refrigerant to be charged		kg	120	210	440	880
	Throttling form		/	Electronic expansion valve		Electric expansion valve	
Weight	Shipping weight		kg	3000	4100	5800	7800
	Operating weight		kg	3600	5000	6900	9000
Overall dimension	Length		mm	3500	3900	6000	6500
	Breadth		mm	1500	1780	1800	2000
	Altitude		mm	2000	2360	2360	2500

Note:

1. Model meaning: Brand - Equipment abbreviation - Refrigeration capacity (unit: Rt) LARW-100 as an example, LA represents the brand, RW represents the water source heat pump unit, and the refrigeration capacity is 100Rt
2. The design and manufacturing standards for magnetic levitation water source heat pump units refer to GB/T9409 "Water (Ground) Source Heat Pump Units".
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