

**DEHUMIDIFICA
-TION
HEATING**

—

**COOLING
EQUIPMENT**



46



Low noise

Using a centrifugal scroll fan with lower noise, combined with the exquisite internal design layout, the whole machine runs quietly.

Stylish appearance

The high-quality aluminum alloy body and the silver and black design create a warm and simple high-end texture. The elegant style creates a novel and fashionable aesthetic wherever it is placed.

Floor type or wall-mounted type (optional)

It has floor-standing and wall-mounted design features, which can easily adapt to different use environments, and has a more flexible way of use, giving you a more convenient use experience.

DEHUMIDIFIER

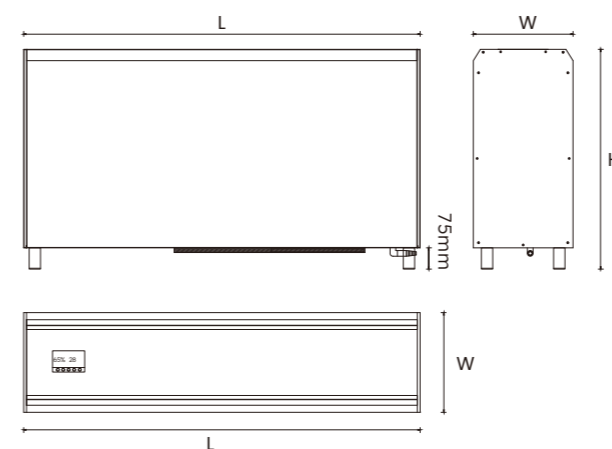
SH

Suitable for SPA clubs, indoor swimming pools, museums, offices, archives, art galleries, gymnasiums, gyms, dressing rooms, storage rooms, non-heating rooms and other indoor places that require dehumidification.



- The combination of silver and black creates a warm and simple texture, elegant yet stylish.
- High-quality aluminum alloy body, sturdy and durable.
- Environmentally friendly refrigerant R410A, environmentally friendly and energy-saving.
- High-efficiency rotor compressor, more powerful dehumidification.
- Centrifugal scroll fan has larger air volume, faster circulation speed and quieter operation.
- Automatically adjust the air volume according to humidity, making dehumidification more efficient.
- Dehumidify regularly to keep dry and comfortable all the time.




SH Series Dehumidifier



Model		SH-30	SH-50	SH-80
Dehumidification Capacity	kg/h	3.6	5	8.2
Power Input	W	1350	2050	2850
Current Input	A	6.1	9.3	13
Maximum Current Input	A	10	14.5	19.5
Circulating Air Volume	m ³ /h	700	1100	1500
Maximum Pool Area	m ²	15	25	35
Power Supply	/	220V/1PH/50Hz		
Waterproof Level	/	IPX4		
Refrigerant	/	R410A		
Noise	dB(A)	48	51	54
Humidity Adjustment Range	%	40-90		
Operating Temperature Range	°C	5-40		
Weight	kg	52	78	92
Dimensions(L*W*H)	mm	960*300*730	1400*350*775	1400*350*775

- Test Environment Condition: indoor dry bulb temperature 30°C, air humidity 80%.

FLOOR-STANDING DEHUMIDIFIER

-  Dehumidification
-  Simple Operation
-  No Dedicated Room Required

LH

Suitable for SPA clubs, indoor swimming pools, museums, offices, archives, art galleries, gymnasiums, gyms, dressing rooms, storage rooms, non-heating rooms and other indoor places that require dehumidification.



Dehumidification Capacity The fundamental operation involves extracting water vapor from ambient air to achieve humidity reduction, with performance metrics standardized as liters per hour (L/h) or liters per day (L/day) under specified conditions.

Cooling Function Certain dehumidifiers incorporate cooling functionality, enabling ambient temperature reduction during hot weather. These units typically dissipate heat from the air via external condensers to achieve environmental cooling.

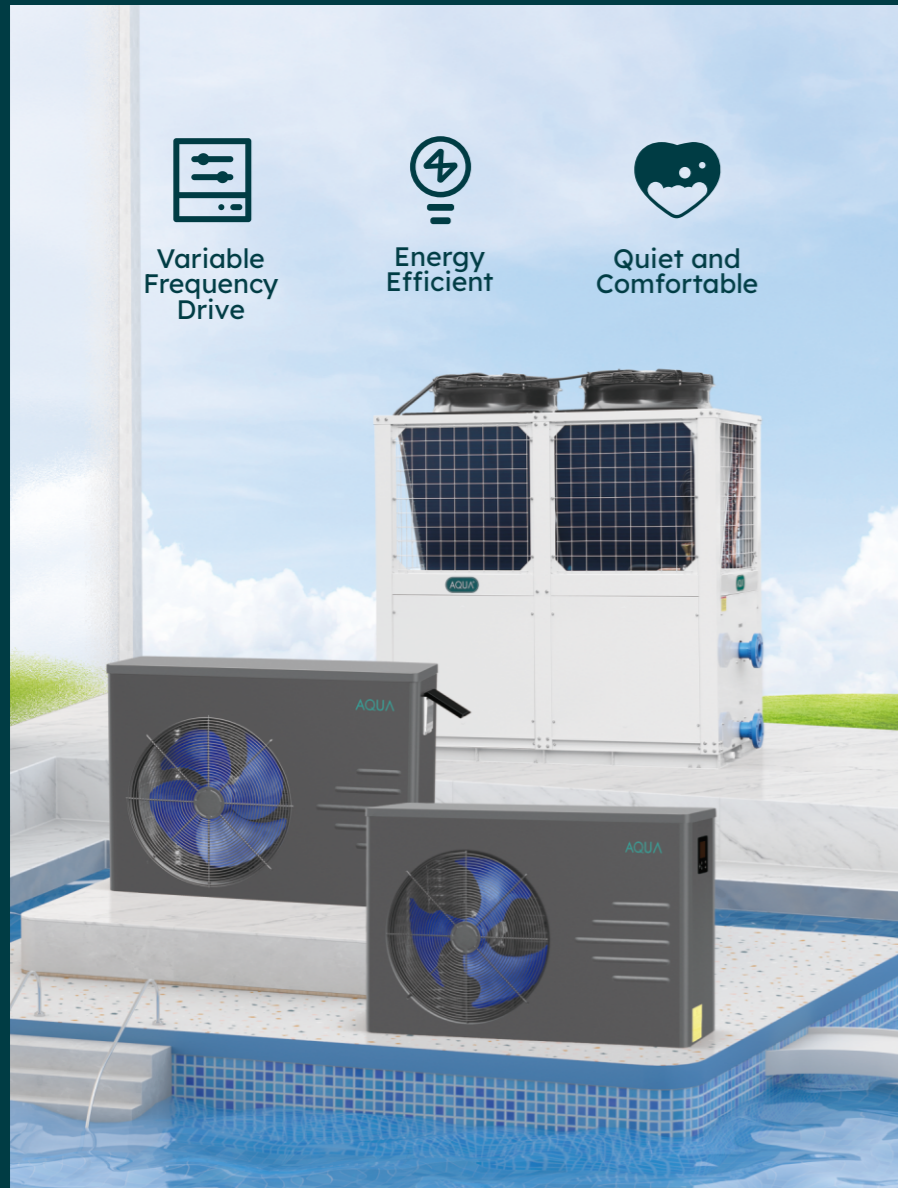
Humidity Control Dehumidifiers typically feature smart humidity control, automatically modulating dehumidification capacity based on user-defined setpoints to maintain preset humidity levels within the environment.

- Integrated design. Floor-standing installation, no need an independent machine room. Plug-in using. No secondary installation and debugging is required. Convenient and fast.
- Air outlet Jet, each can be independently adjusted 360 degrees.
- 4.3-inch LED touch color screen, flexible and convenient operation.
- Multiple units can be flexibly placed to meet the on-site needs.

LH Series Floor-Standing Dehumidifier

Model		LH-10	LH-15	LH-20	LH-25	LH-30
Dehumidification Capacity	kg/h	10	15	20	25	30
Air Circulation Volume	m ³ /h	1600-2500	2500-3500	3500-4800	4000-5500	5000-6500
External Static Pressure	Pa	250	280	320	380	380
Maximum Input Power	W	5100	7120	8600	9580	11500
Maximum Input Current	A	9.1	12.7	15.4	17.1	20.6
Evaporator Type	/	Internal thread copper tube + Hydrophilic aluminum fin				
Condenser Type	/	Internal thread copper tube + Hydrophilic aluminum fin				
Condensate Drain Pipe Size (External Thread)	mm	DN20	DN20	DN20	DN20	DN20
Air Filtration Method	/	G4 plate primary filter				
Electric Shock Protection Class	/	Class I	Class I	Class I	Class I	Class I
Power Supply Type	/	380V/3N~/50Hz				
Weight	kg	138	205	228	285	342
Dimensions(L*W*H)	mm	1300*900*1850	1300*900*1850	1500*900*1950	1500*900*1950	1500*900*1950





SWIMMING POOL INVERTER HEAT PUMP

DC Inverter Technology

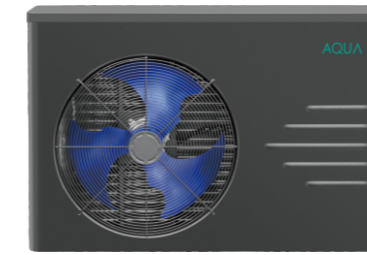
The core of DC inverter technology is the frequency conversion control system, which drives the DC inverter compressor to operate in units of Hertz (Hz) by controlling the operating speed and frequency of the compressor. Adjust the operating speed and frequency of the compressor in real time according to changes in the ambient temperature and water temperature, so that the equipment can achieve optimal performance.

The whole system operates with frequency conversion. The DC inverter technology allows the heat pump to operate at the highest frequency at the beginning of the initial heating of the swimming pool, so that the whole machine completes the initial heating of the pool water at the highest heating rate, and the later pool water constant temperature equipment operates at a low frequency of the compressor to maintain a high COP. Energy-efficient operation reduces equipment energy consumption and maintains a constant pool water temperature.

Therefore, compared with the fixed frequency swimming pool heat pump, the DC frequency conversion consumes less than half of the running energy, which is more in line with the concept of green and energy-saving life.

AQS-F

Suitable for swimming pool heating, constant temperature and cooling in various places.



- DC inverter compressor, high efficiency, energy saving, quiet and comfortable.
- High-efficiency pure titanium tube heat exchanger with external thread, the temperature rises rapidly.
- Electronic expansion valve, the throttling control is more precise.
- Four-way valve to switch, the defrosting is faster and the heat loss is reduced.
- Flexible setting, automatic control of heating mode, energy saving and low noise, all-weather operation.
- Multiple protections, safe and reliable, built-in water flow protection, compressor exhaust temperature protection, compressor high and low pressure protection, compressor over current, winter anti-freezing protection.

Control panel

F type control panel



Waterproof box control panel, LCD display, simple and elegant.

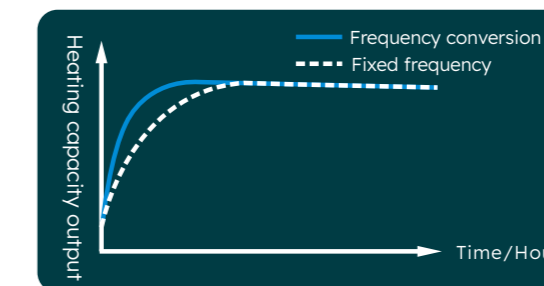
B-F

Suitable for swimming pool heating, constant temperature in various places.



- DC frequency conversion technology, swimming pool heating and temperature control more energy-saving and efficient.
- Large LED screen, display running status.
- Intelligent mode operation, fast heating mode, energy-saving mode, strong heat mode 30% more heat than fixed frequency unit.
- Late night silent mode operation, without disturbing people.

< Frequency conversion constant temperature technology >



The initial heating speed is increased by 30%

Constant temperature difference $\pm 0.5^{\circ}\text{C}$

Energy saving 20%

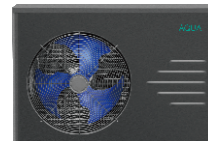


SWIMMING POOL INVERTER HEAT PUMP

F type control panel



Waterproof box control panel, LCD display, simple and elegant.



AQS Series Swimming Pool Inverter Heat Pump

Model	AQS-015-F	AQS-030-F	AQS-050-F	
Ambient Condition: Temperature 26°C, Humidity 80%, Water temperature 28°C				
Heating Capacity	kW	9.0	16.0	24.0
COP Range	W/W	5.5-10.2	5.8-11	5.8-11
100% Heating COP	W/W	5.50	5.80	5.80
Ambient Condition: Temperature 15°C, Humidity 70%, Water temperature 28°C				
Heating Capacity	kW	6	11	16.5
COP Range	W/W	4.5-6	4.6-6.2	4.6-6.2
100% Heating COP	W/W	4.50	4.60	4.60
Ambient Condition: Temperature 35°C, Humidity 80%, Water temperature 7°C				
Cooling Capacity	kW	4.5	7	12
Compressor	/	DC Inverter Compressor		
Power Supply	/	220V/1Ph/50Hz		
Power Input	kW	0.32-1.64	0.54-2.92	0.81-4.36
Current	A	1.45-7.45	2.45-13.27	3.68-19.81
Heat Exchanger	/	External Threaded Titanium Tube Heat Exchanger		
Noise (1m)	dB(A)	≤50	≤52	≤53
Connection Size	mm	DE50 Union	DE50 Union	DE50 Union
Water Flow	m³/h	3-4	5-7	9-11
Refrigerant	/	R410A		
Dimensions (L*W*H)	mm	870*350*670	1000*400*750	1050*450*810
Weight	kg	50	65	78
Operating Temperature Range	°C	-12-45		

- The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

B-F Series Swimming Pool Inverter Heat Pump

Model	B-175-F	B-200-F	B-350-F	B-400-F	B-600-F	
Ambient Temp.: (DB/WB): 27°C/26°C, Water Temp. (In/Out): 26°C/28°C						
Heating Capacity	kW	28-78	38-90	68-158	82-190	115-290
Heating COP	W/W	6.5-11.5	6.8-11.6	5.8-11.8	5.8-11.8	5.8-11.5
Heating Power Range	kW	3.2-14.3	6.3-18.2	8.5-32.5	9.2-35.2	15.2-45.5
Ambient Temp.: (DB/WB): 20°C/15°C, Water Temp. (In/Out): 26°C/28°C						
Heating Capacity	kW	25-65	35-78	50-130	75-175	102-248
Heating COP	W/W	4.6-7.5	4.6-7.5	4.6-7.5	4.6-7.5	4.6-7.3
Heating Power Range	kW	4.2-12.8	5.6-16.5	7.8-29.5	8.8-32.5	14.3-42.3
Compressor	/	DC Inverter Scroll Type				
Power Supply	/	380V/3N~/50Hz				
Max. Current Input	A	28.2	40.2	68.8	72.0	87.1
Max. Power Input	kW	15.8	22.5	38.5	40.3	48.7
Noise	dB(A)	58	62	72	72	74
Connection Size	mm	DE63 Union	DE75 Flange	DE90 Flange	DE90 Flange	DE110 Flange
Water Flow	m³/h	13	22	28	42	58
Water Pressure Drop	kPa	45	48	53	58	60
Refrigerant	/	R410A				
Dimensions (L*W*H)	mm	1580*900*1660	1580*900*1660	1926*1056*2190	2126*1106*2200	2450*1302*2260
Weight	kg	185	256	582	720	946
Operating Temperature Range	°C	-15-48				

- The data above is for reference only. For model specifications, please refer to the nameplate on the unit.





SWIMMING POOL INVERTER HEAT PUMP

V-BP-SW Swimming pool inverter heat pump (Side Air Outlet)

The heat pump utilizes advanced DC inverter-driven technology, enabling stable and efficient operation of the compressor and fan motor across various environments, delivering high-efficiency heating performance.

The DC inverter technology adjusts the compressor speed according to actual demand, achieving high energy efficiency and reducing operating costs.

Equipped with an intelligent control system, the unit automatically adjusts its operation based on indoor temperature to achieve precise temperature control and enhance comfort.

The DC inverter technology ensures smoother and quieter unit operation, reducing noise levels to create a tranquil and comfortable living environment.

Suitable for various locations such as residences, villas, resorts, and commercial establishments, meeting the diverse heating needs of heat pumps.

V-BP-SW Series Side Air Outlet Swimming Pool Inverter Heat Pump

Model		V-040BP-SW	V-060BP-SW	V-080BP-SW	V-100BP-SW	V-125BP-SW	V-175BP-SW		
Rated Heating (A24°C/W26°C)	Heating Capacity	kW		18.0	28.3	37.8	49.6	61.5	84.8
	COP	W/W		5.2	5.2	5.2	5.6	5.6	5.6
	Power	kW		3.5	5.4	7.3	8.9	11.0	15.1
Nominal Heating (A20°C/W26°C)	Current	A		5.9	9.3	12.4	15.1	18.7	25.9
	Heating Capacity	kW		16.5	25.2	33.6	42.0	52.5	72.0
	COP	W/W		4.8	4.8	4.8	4.8	4.8	4.8
Power Supply	Power	kW		3.4	5.3	7.0	8.8	10.9	15.0
	Current	A		5.9	9.0	12.0	14.9	18.7	25.6
Max. Current Input	A	220V/1Ph/50Hz		30	15	19	25	30	38
Max. Power Input	kW	380V/3N~/50Hz		6.6	8.4	10.6	14.0	16.8	21.3
Compressor Type	/	Hermetic Rotary DC Inverter Compressor				Hermetic Scroll DC Inverter Compressor			
Fan Motor Type	/	Brushless DC Inverter Motor							
Water-Side Heat Exchanger Type	/	Heat Exchanger with Externally Threaded Pure Titanium Tubes & PVC Casing							
Water Pressure Drop	kPa	25	32	35	41	45	47		
Noise	dB(A)	50	52	53	56	61	63		
Connection Size(PVC)	mm	DE50 Union	DE50 Union	DE50 Union	DE50 Union	DE63 Flange	DE75 Flange		
Water Flow	m ³ /h	6	8	11	14	17	23		
Refrigerant	/	R410A							
Operating Temperature Range	°C	-12~48							
Dimensions	Length	mm	1050	1034	1034	1134	1200	1320	
	Width	mm	450	506	506	542	506	680	
	Height	mm	810	1368	1368	1410	1565	1665	
Weight	kg	96	156	172	215	285	305		

- Rated Heating Condition: Outdoor Ambient Temp. (DB/WB): 24°C/19°C, Water Temp. (In): 26°C.
 - Nominal Heating Condition: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.



SWIMMING POOL INVERTER HEAT PUMP



SWIMMING POOL AIR SOURCE HEAT PUMP

Air source heat pump mainly has four major components: evaporator, compressor, condenser and expansion valve. By allowing the refrigerant to continuously complete the heat cycle process of evaporation (absorbing heat from the environment), compression condensation (releasing heat), throttling and re-evaporation, the heat of the environment is transferred to the water.

Compact and beautiful structure, uniform air flow distribution, high heat exchange efficiency; All day long operating and not affected by bad weather.

High-efficiency pure titanium heat exchanger, corrosion-resistant. Suitable for heating needs in various places. Automatically controls heating mode, energy-saving and environmentally friendly. Automatic heating, automatic defrosting. Multiple protections, safe and reliable. Built-in water flow protection, compressor exhaust temperature protection, compressor high and low pressure protection, compressor over current, power supply phase loss protection (three-phase model only), winter anti-freezing protection.

It is widely used in various swimming pools heating. Especially today when fuel is becoming increasingly tight, it reflects the superiority of heat pumps.

V <Regular Type>

Galvanized sheet baking paint anti-UV powder coating shell.



**NORMAL
TEMPERATURE
TYPE**

**LOW TEMPERATURE
TYPE**

• Customizable stainless steel construction
Stainless Steel 304 Shell.



High efficiency pure titanium heat exchanger
Corrosion resistant



For various pools heating



Flexible settings
Automatic control



Automatic heating
Automatic defrost



Multiple protection
Safe and reliable



SWIMMING POOL AIR SOURCE HEAT PUMP

V Series <Regular Type>

NORMAL TEMPERATURE TYPE

Model		V-030N	V-050N	V-070N	V-100N	
Rated Heating (A24°C/ W26°C)	Heating Capacity	kW	15.0	25.0	35.0	42.0
	COP	W/W	5.6	5.2	5.2	5.2
	Power	kW	2.7	4.8	6.7	8.1
	Current	A	12.2	8.2	11.5	13.8
Nominal Heating (A20°C/ W26°C)	Heating Capacity	kW	13.1	22.9	32.3	38.7
	COP	W/W	4.8	4.8	4.8	4.8
	Power	kW	2.7	4.8	6.7	8.1
	Current	A	12.4	8.1	11.5	13.8
Power Supply	/	220V~/50Hz		380V/3N~/50Hz		
Max. Current Input	A	17	11	14	17	
Max. Power Input	kW	3.7	6.2	7.8	9.5	
Compressor Type	/	Rotary	Fully enclosed scroll			
Water Pressure Drop	kPa	30	36	41	42	
Noise	dB(A)	58	60	62	62	
Connection Size(PVC)	mm	DE50 Union	DE50 Union	DE50 Union	DE50 Union	
Water Flow	m³/h	5	8	10	13	
Refrigerant	/	R410A				
Operating Temperature Range	°C	-12~45				
Dimensions (L*W*H)	mm	705*654*915	855*804*965	855*804*1065	855*804*1165	
Weight	kg	105	150	160	175	

- Rated Heating Condition: Outdoor Ambient Temp. (DB/WB): 24°C/19°C, Water Temp. (In): 26°C.
 - Nominal Heating Condition: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

LOW TEMPERATURE TYPE

Model		V-030N(E)	V-050N(E)	V-070N(E)	V-080N(E)	
Heating Condition 1 (A20°C/W26°C)	Heating Capacity	kW	13.1	22.9	32.3	38.7
	COP	W/W	4.8	4.8	4.8	4.8
	Power	kW	2.7	4.8	6.7	8.1
	Current	A	12.4	8.1	11.5	13.8
Heating Condition 2 (A7°C/W26°C)	Heating Capacity	kW	11.2	20.5	25.8	29.2
	COP	W/W	4.35	4.35	4.35	4.35
	Power	kW	2.6	4.7	5.9	6.7
	Current	A	11.7	8.0	10.1	11.5
Heating Condition 3 (A2°C/W26°C)	Heating Capacity	kW	10.8	19.5	24.2	27.6
	COP	W/W	4.13	4.13	4.13	4.13
	Power	kW	2.6	4.7	5.9	6.7
	Current	A	11.9	8.1	10.0	11.4
Heating Condition 4 (A-12°C/W26°C)	Heating Capacity	kW	8.1	14.3	18.1	20.6
	COP	W/W	3.1	3.1	3.1	3.1
	Power	kW	2.6	4.6	5.8	6.6
	Current	A	11.9	7.9	10.0	11.3
Power Supply	/	220V~/50Hz		380V/3N~/50Hz		
Max. Current Input	A	17	11	14	16	
Max. Power Input	kW	3.7	6.2	7.8	9.0	
Compressor Type	/	Rotary	Fully enclosed scroll			
Water Pressure Drop	kPa	30	36	41	42	
Noise	dB(A)	58	60	62	62	
Connection Size(PVC)	mm	DE50 Union	DE50 Union	DE50 Union	DE50 Union	
Water Flow	m³/h	5	8	10	12	
Refrigerant	/	R410A				
Operating Temperature Range	°C	-30~45				
Dimensions (L*W*H)	mm	705*654*915	855*804*965	855*804*1065	855*804*1165	
Weight	kg	108	155	165	180	

- Heating Condition 1: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.
 - Heating Condition 2: Outdoor Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (In): 26°C.
 - Heating Condition 3: Outdoor Ambient Temp. (DB/WB): 2°C/1°C, Water Temp. (In): 26°C.
 - Heating Condition 4: Outdoor Ambient Temp. (DB/WB): -12°C/-14°C, Water Temp. (In): 26°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.



SWIMMING POOL AIR SOURCE HEAT PUMP

It is widely used in various swimming pools heating.

**NORMAL
TEMPERATURE
TYPE**

**LOW
TEMPERATURE
TYPE**

<B-12~B-70II>
Galvanized sheet painted UV resistant shell.



<B-45IV~B-120IV>
Galvanized sheet painted UV resistant shell.



<Side Air Outlet Type>
Galvanized sheet painted UV resistant shell.



• Customizable stainless steel construction
Stainless Steel 304 Shell.



High efficiency pure titanium heat exchanger
Corrosion resistant



For various pools heating



Flexible settings
Automatic control



Automatic heating
Automatic defrost



Multiple protection
Safe and reliable



SWIMMING POOL AIR SOURCE HEAT PUMP

B Series <Regular Type>



NORMAL TEMPERATURE TYPE

Model		B-12	B-15	B-20	B-22	B-30	B-35	B-55II	B-60II	B-70II	
Rated Heating (A24°C/W26°C)	Heating Capacity	kW	56.0	75.0	90.0	100.0	125.0	150.0	225.0	250.0	300.0
	COP	W/W	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	Power	kW	10.0	13.4	16.1	17.9	22.3	26.8	40.2	44.6	53.6
	Current	A	17.1	22.9	27.4	30.5	38.1	45.7	68.6	76.2	91.5
Nominal Heating (A20°C/W26°C)	Heating Capacity	kW	47.8	64.2	77.1	86.0	106.8	128.4	192.5	214.3	257.4
	COP	W/W	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	Power	kW	10.0	13.4	16.1	17.9	22.3	26.8	40.1	44.6	53.6
	Current	A	17.0	22.8	27.4	30.6	38.0	45.7	68.5	76.2	91.5
Power Supply	/	380V/3N~/50Hz									
Max. Current Input	A	23	28	32	40	52	63	82	98	110	
Max. Power Input	kW	12.9	15.7	17.9	22.4	29.1	35.2	45.9	54.8	61.5	
Compressor Type	/	Fully enclosed scroll									
Water Pressure Drop	kPa	43	45	45	52	58	58	65	68	68	
Noise	dB(A)	65	68	68	70	70	72	73	73	73	
Connection Size(PVC)	mm	DE75 Flange	DE75 Flange	DE75 Flange	DE75 Flange	DE90 Flange	DE90 Flange	DE110 Flange	DE110 Flange	DE110 Flange	
Water Flow	m³/h	16	20	25	30	35	40	58	65	75	
Refrigerant	/	R410A									
Operating Temperature Range	°C	-12~45									
Dimensions (L*W*H)	mm	1580*900*1660	1580*900*1660	1580*900*1660	1926*1056*2190	2126*1106*2200	2126*1106*2200	2450*1302*2260	2450*1302*2260	2650*1302*2260	
Weight	kg	310	340	380	505	590	680	785	962	1085	

- Rated Heating Condition: Outdoor Ambient Temp. (DB/WB): 24°C/19°C, Water Temp. (In): 26°C.
 - Nominal Heating Condition: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

LOW TEMPERATURE TYPE

Model		B-12(E)	B-15(E)	B-20(E)	B-22(E)	B-30(E)	B-35(E)	B-55II(E)	B-60II(E)	
Heating Condition 1 (A20°C/W26°C)	Heating Capacity	kW	47.8	64.2	77.1	86.0	106.8	128.4	192.5	214.3
	COP	W/W	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	Power	kW	10.0	13.4	16.1	17.9	22.3	26.8	40.1	44.6
Heating Condition 2 (A7°C/W26°C)	Current	A	17.0	22.8	27.4	30.6	38.0	45.7	68.5	76.2
	Heating Capacity	kW	43.3	58.2	69.9	78.0	96.5	116.5	174.5	194.2
	COP	W/W	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35
Heating Condition 3 (A2°C/W26°C)	Power	kW	10.0	13.4	16.1	17.9	22.2	26.8	40.1	44.6
	Current	A	17.0	22.8	27.4	30.6	37.9	45.7	68.5	76.2
	Heating Capacity	kW	41.2	55.2	66.3	74.0	91.8	110.6	165.8	184.3
Heating Condition 4 (A-12°C/W26°C)	COP	W/W	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
	Power	kW	10.0	13.4	16.1	17.9	22.2	26.8	40.1	44.6
	Current	A	17.0	22.8	27.4	30.6	37.9	45.7	68.5	76.2
Power Supply	/	380V/3N~/50Hz								
Max. Current Input	A	23	28	32	40	52	63	82	98	
Max. Power Input	kW	12.9	15.7	17.9	22.4	29.1	35.2	45.9	54.8	
Compressor Type	/	Fully enclosed scroll								
Water Pressure Drop	kPa	43	45	45	52	58	58	65	68	
Noise	dB(A)	65	68	68	70	70	72	73	73	
Connection Size(PVC)	mm	DE75 Flange	DE75 Flange	DE75 Flange	DE75 Flange	DE90 Flange	DE90 Flange	DE110 Flange	DE110 Flange	
Water Flow	m³/h	16	20	25	30	35	40	58	65	
Refrigerant	/	R410A								
Operating Temperature Range	°C	-30~45								
Dimensions (L*W*H)	mm	1580*900*1660	1580*900*1660	1580*900*1660	1926*1056*2190	2126*1106*2200	2126*1106*2200	2450*1302*2260	2450*1302*2260	
Weight	kg	315	345	385	515	605	705	812	986	

- Heating Condition 1: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.
 - Heating Condition 2: Outdoor Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (In): 26°C.
 - Heating Condition 3: Outdoor Ambient Temp. (DB/WB): 2°C/1°C, Water Temp. (In): 26°C.

- Heating Condition 4: Outdoor Ambient Temp. (DB/WB): -12°C/-14°C, Water Temp. (In): 26°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

NORMAL TEMPERATURE TYPE

Model		B-45IV	B-55IV	B-60IV	B-70IV	B-110IV	B-120IV	
Rated Heating (A24°C/ W26°C)	Heating Capacity	kW	180.0	225.0	250.0	300.0	450.0	500.0
	COP	W/W	5.6	5.6	5.6	5.6	5.6	5.6
	Power	kW	32.1	40.2	44.6	53.6	80.4	89.3
	Current	A	54.9	68.6	76.2	91.5	137.2	152.4
Nominal Heating (A20°C/ W26°C)	Heating Capacity	kW	154.1	192.5	214.3	257.4	385.0	415.2
	COP	W/W	4.8	4.8	4.8	4.8	4.8	4.8
	Power	kW	32.1	40.1	44.6	53.6	80.2	86.5
	Current	A	54.8	68.5	76.2	91.5	136.9	147.7
Power Supply	/	380V/3N~/50Hz						
Max. Current Input	A	72	82	98	110	165	195	
Max. Power Input	kW	40.3	45.9	54.8	61.5	92.3	109.1	
Compressor Type	/	Fully enclosed scroll						
Water Pressure Drop	kPa	62	65	68	68	72	72	
Noise	dB(A)	72	73	73	75	78	78	
Connection Size(PVC)	mm	DE110 Flange	DE110 Flange	DE110 Flange	DE110 Flange	DE140 Flange	DE140 Flange	
Water Flow	m³/h	50	58	65	75	96	120	
Refrigerant	/	R410A						
Operating Temperature Range	°C	-12~45						
Dimensions (L*W*H)	mm	2006*2212*2185	2006*2212*2228	2006*2212*2228	2006*2212*2228	2900*2350*2260	2900*2350*2260	
Weight	kg	830	985	1170	1380	1570	1920	

- Rated Heating Condition: Outdoor Ambient Temp. (DB/WB): 24°C/19°C, Water Temp. (In): 26°C.
 - Nominal Heating Condition: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

LOW TEMPERATURE TYPE

Model		B-45IV(E)	B-55IV(E)	B-60IV(E)	B-70IV(E)	B-110IV(E)	B-120IV(E)	
Heating Condition 1 (A20°C/ W26°C)	Heating Capacity	kW	154.1	192.5	214.3	257.4	385	415.2
	COP	W/W	4.8	4.8	4.8	4.8	4.8	4.8
	Power	kW	32.1	40.1	44.6	53.6	80.2	86.5
	Current	A	54.8	68.5	76.2	91.5	136.9	147.7
Heating Condition 2 (A7°C/ W26°C)	Heating Capacity	kW	139.6	174.5	194.2	233.1	345.0	388.4
	COP	W/W	4.35	4.35	4.35	4.35	4.35	4.35
	Power	kW	32.1	40.1	44.6	53.6	79.3	89.3
	Current	A	54.8	68.5	76.2	91.5	135.4	152.4
Heating Condition 3 (A2°C/ W26°C)	Heating Capacity	kW	132.5	165.8	184.3	221.3	331.6	368.6
	COP	W/W	4.13	4.13	4.13	4.13	4.13	4.13
	Power	kW	32.1	40.1	44.6	53.6	80.3	89.2
	Current	A	54.8	68.5	76.2	91.5	137.1	152.4
Heating Condition 4 (A-12°C/ W26°C)	Heating Capacity	kW	99.6	124.3	138.3	166.1	248.3	276.6
	COP	W/W	3.1	3.1	3.1	3.1	3.1	3.1
	Power	kW	32.1	40.1	44.6	53.6	80.1	89.2
	Current	A	54.8	68.5	76.2	91.5	136.7	152.3
Power Supply	/	380V/3N~/50Hz						
Max. Current Input	A	72	82	98	110	165	195	
Max. Power Input	kW	40.3	45.9	54.8	61.5	92.3	109.1	
Compressor Type	/	Fully enclosed scroll						
Water Pressure Drop	kPa	62	65	68	68	72	72	
Noise	dB(A)	72	73	73	75	78	78	
Connection Size(PVC)	mm	DE110 Flange	DE110 Flange	DE110 Flange	DE110 Flange	DE140 Flange	DE140 Flange	
Water Flow	m³/h	50	58	65	75	96	120	
Refrigerant	/	R410A						
Operating Temperature Range	°C	-30~45						
Dimensions (L*W*H)	mm	2006*2212*2185	2006*2212*2228	2006*2212*2228	2006*2212*2228	2900*2350*2260	2900*2350*2260	
Weight	kg	860	1005	1205	1405	1720	2150	

- Heating Condition 1: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.
 - Heating Condition 2: Outdoor Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (In): 26°C.
 - Heating Condition 3: Outdoor Ambient Temp. (DB/WB): 2°C/1°C, Water Temp. (In): 26°C.
 - Heating Condition 4: Outdoor Ambient Temp. (DB/WB): -12°C/-14°C, Water Temp. (In): 26°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

Side Air Outlet Air Source Heat Pump

Model		V-30N-SW	V-50N-SW	V-70N-SW	V-100N-SW	B-12-SW	B-15-SW	B-20-SW	
Rated Heating (A24°C/W26°C)	Heating Capacity	kW	15.0	25.0	35.0	42.0	56.0	75.0	90.0
	COP	W/W	5.6	5.2	5.2	5.2	5.6	5.6	5.6
	Power	kW	2.7	4.8	6.7	8.1	10.0	13.4	16.1
	Current	A	12.2	8.2	11.5	13.8	17.1	22.9	27.4
Nominal Heating (A20°C/W26°C)	Heating Capacity	kW	13.1	22.9	32.3	38.7	47.8	64.2	77.1
	COP	W/W	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	Power	kW	2.7	4.8	6.7	8.1	10.0	13.4	16.1
	Current	A	12.4	8.1	11.5	13.8	17.0	22.8	27.4
Power Supply	/	220V~/50Hz		380V/3N~/50Hz					
Max. Current Input	A	17	11	14	17	23	28	32	
Max. Power Input	kW	3.7	6.2	7.8	9.5	12.9	15.7	17.9	
Compressor Type	/	Rotary		Fully enclosed scroll					
Water Pressure Drop	kPa	30	36	41	42	43	45	45	
Noise	dB(A)	58	60	62	62	65	68	68	
Connection Size(PVC)	mm	DE50 Union		DE50 Union	DE50 Union	DE75 Flange	DE75 Flange	DE75 Flange	
Water Flow	m³/h	5	8	10	13	16	20	25	
Refrigerant	/	R410A							
Operating Temperature Range	°C	-12~45							
Dimensions (L*W*H)	mm	1050*450*810	1034*506*1368	1034*506*1368	1034*506*1368	1800*635*1598	1800*635*1598	1800*635*1598	
Weight	kg	102	142	156	172	285	302	323	

- Rated Heating Condition: Outdoor Ambient Temp. (DB/WB): 24°C/19°C, Water Temp. (In): 26°C.
 - Nominal Heating Condition: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

SWIMMING POOL AIR SOURCE HEAT PUMP

B Series <B-45IV~B-120IV>



SWIMMING POOL AIR SOURCE HEAT PUMP

<Side Air Outlet Type>





HOT WATER HEAT PUMP



NORMAL TEMPERATURE TYPE



LOW TEMPERATURE TYPE



Safe



Comfortable



ECO Friendly



Quiet

L

<L-030~L-070>

Galvanized sheet painted UV resistant shell.



<L-100~L-120>

Galvanized sheet painted UV resistant shell.



<L-150~L-500II>

Galvanized sheet painted UV resistant shell.



■ Suitable for various places requiring hot water or heating.

»»» ECO Friendly

Using R410A environmentally friendly refrigerant.

»»» Advanced Control

Adopt microcomputer intelligent control, it can realize that when any terminal equipment is opened, the main machine is automatically opened, and when all terminals are closed, the main machine is automatically closed. Multiple units can be controlled simultaneously.

»»» Operate Under Full Working Conditions

No need for electric heating, the highest outlet water temperature can reach 55°C. Intelligent control, automatic load regulation design technology, all-weather and all-condition reliable operation.

<L-400IV~L-600IV>

Galvanized sheet painted UV resistant shell.



<Side Air Outlet Type>

Galvanized sheet painted UV resistant shell.



• Customizable stainless steel construction

Stainless Steel 304 Shell.



»»» Anti-freezing Design

Powerful anti-freezing design. The main unit is equipped with multiple sensors to monitor real-time changes in operation parameters. Based on the outdoor ambient temperature and the temperature of the inlet and outlet water, the anti-freezing protection program is automatically activated to ensure safer use of the equipment.

»»» EVI Technology

The technology of EVI low temperature gas supplementing enthalpy and efficient scroll compressor is adopted, with industrial-grade linear electronic expansion valve throttle control and linear gas injection control technology, which has excellent low temperature heating performance.

HOT WATER HEAT PUMP



NORMAL TEMPERATURE TYPE

Model		L-030	L-050	L-070	L-100	L-120	L-150	L-200	L-250	L-300	L-400II	L-500II	
Rated Heating (A20°C/W55°C)	Heating Capacity	kW	9.6	18.3	25.5	36.2	43.8	54.8	73.6	91.5	109.3	146.8	182.5
	Water Production	L/h	206	393	548	778	941	1178	1582	1967	2349	3155	3923
	COP	W/W	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61
	Power	kW	2.1	4.0	5.5	7.9	9.5	11.9	16.0	19.8	23.7	31.8	39.6
	Current	A	9.5	6.8	9.4	13.4	16.2	20.3	27.3	33.9	40.5	54.4	67.6
Power Supply	/	220V/~ /50Hz		380V/3N~/50Hz									
Max. Current Input	A	17	13	17	23	26	32	47	58	72	90	105	
Max. Power Input	kW	3.7	7.3	9.5	12.9	14.5	17.9	26.3	32.4	40.3	50.3	58.7	
Compressor Type	/	Rotary	Fully enclosed scroll										
Water Pressure Drop	kPa	91	105	190	104	180	180	75	90	90	150	150	
Noise	dB(A)	58	60	63	65	66	68	70	72	72	73	73	
Connection Size	mm	DN25 Female Thread	DN32 Female Thread	DN32 Female Thread	DN40 Female Thread	DN40 Female Thread	DN50 Female Thread	DN65 Flange	DN65 Flange	DN65 Flange	DN80 Flange	DN80 Flange	
Water Flow	m³/h	2.5	4	6	8	10	12	16	20	25	32	42	
Refrigerant	/	R410A											
Operating Temperature Range	°C	-12~45											
Dimensions(L*W*H)	mm	768*709*868	805*750*1068	870*810*1268	1450*780*1073	1450*780*1223	1480*900*1660	1886*1056*2190	2086*1106*2200	2086*1106*2200	2450*1302*2260	2450*1302*2260	
Weight	kg	112	160	185	220	280	410	530	615	725	805	982	

- Rated Heating Condition: Outdoor (DB/WB) Temp. 20°C/15°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 55°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.



REGULAR TYPE

L Series
 <L-030~
 L-500II>

LOW TEMPERATURE TYPE

Model		L-030(E)	L-050(E)	L-070(E)	L-100(E)	L-120(E)	L-150(E)	L-200(E)	L-250(E)	L-300(E)	L-400II(E)	L-500II(E)	
Heating Condition 1 (A20°C/W55°C)	Heating Capacity	kW	9.6	18.3	25.5	36.2	43.8	54.8	73.6	91.5	109.3	146.8	182.5
	Water Production	L/h	206	393	548	778	941	1178	1582	1967	2349	3155	3923
	COP	W/W	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61
	Power	kW	2.1	4.0	5.5	7.9	9.5	11.9	16.0	19.8	23.7	31.8	39.6
	Current	A	9.5	6.8	9.4	13.4	16.2	20.3	27.3	33.9	40.5	54.4	67.6
Heating Condition 2 (A7°C/W55°C)	Heating Capacity	kW	7.5	14.5	20.0	28.5	34.3	43.0	57.8	71.8	85.8	115.2	143.2
	Water Production	L/h	161	312	430	613	737	924	1242	1543	1844	2476	3078
	COP	W/W	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62
	Power	kW	2.1	4.0	5.5	7.9	9.5	11.9	16.0	19.8	23.7	31.8	39.6
	Current	A	9.4	6.8	9.4	13.4	16.2	20.3	27.3	33.9	40.5	54.3	67.5
Heating Condition 3 (A-12°C/W55°C)	Heating Capacity	kW	5.2	10.0	13.7	19.8	23.7	29.8	40.0	49.6	59.3	79.5	98.8
	Water Production	L/h	112	215	294	426	509	641	860	1066	1275	1709	2124
	COP	W/W	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	Power	kW	2.1	4.0	5.5	7.9	9.5	11.9	16.0	19.8	23.7	31.8	39.5
	Current	A	9.5	6.8	9.4	13.5	16.2	20.3	27.3	33.9	40.5	54.3	67.5
Power Supply	/	220V/~ /50Hz		380V/3N~/50Hz									
Max. Current Input	A	17	13	17	23	26	32	47	58	72	90	105	
Max. Power Input	kW	3.7	7.3	9.5	12.9	14.5	17.9	26.3	32.4	40.3	50.3	58.7	
Compressor Type	/	Rotary	Fully enclosed scroll										
Water Pressure Drop	kPa	91	105	190	104	180	180	75	90	90	150	150	
Noise	dB(A)	58	60	63	65	66	68	70	72	72	73	73	
Connection Size	mm	DN25 Female Thread	DN32 Female Thread	DN32 Female Thread	DN40 Female Thread	DN40 Female Thread	DN50 Female Thread	DN65 Flange	DN65 Flange	DN65 Flange	DN80 Flange	DN80 Flange	
Water Flow	m³/h	2.5	4	6	8	10	12	16	20	25	32	42	
Refrigerant	/	R410A											
Operating Temperature Range	°C	-30~45											
Dimensions(L*W*H)	mm	768*709*868	805*750*1068	870*810*1268	1450*780*1073	1450*780*1223	1480*900*1660	1886*1056*2190	2086*1106*2200	2086*1106*2200	2450*1302*2260	2450*1302*2260	
Weight	kg	118	170	190	225	285	420	545	620	730	827	1013	

- Heating Condition 1: Outdoor (DB/WB) Temp. 20°C/15°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 55°C;
 - Heating Condition 2: Outdoor (DB/WB) Temp. 7°C/6°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 55°C;
 - Heating Condition 3: Outdoor (DB/WB) Temp. -12°C/-14°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 55°C;
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

NORMAL TEMPERATURE TYPE

Model		L-400IV	L-500IV	L-600IV	
Rated Heating (A20°C/ W55°C)	Heating Capacity	kw	146.8	182.5	220.2
	Water Production	L/h	3155	3923	4733
	COP	w/w	4.61	4.61	4.61
	Power	kw	31.8	39.6	47.8
	Current	A	54.4	67.6	81.5
Power Supply	/	380V/3N~/50Hz			
Max. Current Input	A	90	105	120	
Max. Power Input	kw	50.3	58.7	67.1	
Compressor Type	/	Fully enclosed scroll			
Water Pressure Drop	kPa	150	150	150	
Noise	dB(A)	73	73	75	
Connection Size	mm	DN80 Flange	DN80 Flange	DN80 Flange	
Water Flow	m³/h	32	42	50	
Refrigerant	/	R410A			
Operating Temperature Range	°C	-12~45			
Dimensions(L*W*H)	mm	2006*2172*2228	2006*2172*2228	2006*2172*2228	
Weight	kg	1085	1265	1425	

- Rated Heating Condition: Outdoor (DB/WB) Temp. 20°C/15°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 55°C.
- The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

HOT WATER HEAT PUMP

L Series
<L-400IV~
L-600IV>



LOW TEMPERATURE TYPE

Model		L-400IV(E)	L-500IV(E)	L-600IV(E)	
Heating Condition 1 (A20°C/ W55°C)	Heating Capacity	kw	146.8	182.5	220.2
	Water Production	L/h	3155	3923	4733
	COP	w/w	4.61	4.61	4.61
	Power	kw	31.8	39.6	47.8
	Current	A	54.4	67.6	81.5
Heating Condition 2 (A7°C/ W55°C)	Heating Capacity	kw	115.2	143.2	172.8
	Water Production	L/h	2476	3078	3714
	COP	w/w	3.62	3.62	3.62
	Power	kw	31.8	39.6	47.7
	Current	A	54.3	67.5	81.5
Heating Condition 3 (A-12°C/ W55°C)	Heating Capacity	kw	79.5	98.8	119.3
	Water Production	L/h	1709	2124	2564
	COP	w/w	2.5	2.5	2.5
	Power	kw	31.8	39.5	47.7
	Current	A	54.3	67.5	81.5
Power Supply	/	380V/3N~/50Hz			
Max. Current Input	A	90	105	120	
Max. Power Input	kw	50.3	58.7	67.1	
Compressor Type	/	Fully enclosed scroll			
Water Pressure Drop	kPa	150	150	150	
Noise	dB(A)	73	73	75	
Connection Size	mm	DN80 Flange	DN80 Flange	DN80 Flange	
Water Flow	m³/h	32	42	50	
Refrigerant	/	R410A			
Operating Temperature Range	°C	-30~45			
Dimensions(L*W*H)	mm	2006*2172*2228	2006*2172*2228	2006*2172*2228	
Weight	kg	1100	1320	1450	

- Heating Condition 1: Outdoor (DB/WB) Temp. 20°C/15°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 55°C.
- Heating Condition 2: Outdoor (DB/WB) Temp. 7°C/6°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 55°C.
- Heating Condition 3: Outdoor (DB/WB) Temp. -12°C/-14°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 55°C.
- The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

HOT WATER HEAT PUMP

SIDE AIR OUTLET TYPE

L Series

L Series Side Air Outlet Hot Water Heat Pump

Model		L-030-SW	L-050-SW	L-070-SW	L-100-SW	L-120-SW	L-150-SW	
Rated Heating (A20°C/ W55°C)	Heating Capacity	kw	9.6	18.3	25.5	36.2	43.8	54.8
	Water Production	L/h	206	393	548	778	941	1178
	COP	w/w	4.61	4.61	4.61	4.61	4.61	4.61
	Power	kw	2.1	4.0	5.5	7.9	9.5	11.9
	Current	A	9.5	6.8	9.4	13.4	16.2	20.3
Power Supply	/	220V~/50Hz			380V/3N~/50Hz			
Max. Current Input	A	17	13	17	23	26	32	
Max. Power Input	kw	3.7	7.3	9.5	12.9	14.5	17.9	
Compressor Type	/	Rotary		Fully enclosed scroll				
Water Pressure Drop	kPa	91	105	190	104	180	180	
Noise	dB(A)	58	60	63	65	66	68	
Connection Size	mm	DN25 Female Thread	DN32 Female Thread	DN32 Female Thread	DN40 Female Thread	DN40 Female Thread	DN50 Female Thread	
Water Flow	m³/h	2.5	4	6	8	10	12	
Refrigerant	/	R410A						
Operating Temperature Range	°C	-12~45						
Dimensions(L*W*H)	mm	1050*450*810	1034*506*1368	1034*506*1368	1700*635*1598	1700*635*1598	1700*635*1598	
Weight	kg	110	144	167	198	252	369	

- Rated Heating Condition: Outdoor (DB/WB) Temp. 20°C/15°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 55°C.
- The data above is for reference only. For model specifications, please refer to the nameplate on the unit.



HIGH TEMPERATURE HEAT PUMP



L-ST Series 80°C High Temperature Heat Pump



Delivers 80°C outlet water temperature



Features premium brand compressors



Multiple protection Safe and reliable



Energy-efficient and eco-conscious design



For various pools heating

L-ST Series (L-100-ST~L-600-ST)

- High quality brand compressor to ensure stable, efficient operation of the system and continuous production of high-temperature hot water.
- The control system adopts Siemens heat pump dedicated POL461 PCB, providing high-precision PID calculation, and the core key components are Siemens electrical components to ensure stable and trouble-free operation under high temperature extreme conditions.
- Adopt fin-shaped copper tube heat exchange high-efficiency tank for water-fluorine heat exchange, increase the equivalent heat exchange area of copper tube, and ensure that heat is quickly exchanged with water.
- The outlet water temperature reaches 80°C, meeting the needs of special high water temperature.
- The 80°C high temperature heat pump model covers a range of 10-50HP, basically meeting the needs of most applications in the market.

Suitable for central heating, chemical industry, high temperature heat exchange and other needs.

L-ST Series High Temperature Heat Pump

Model		L-100-ST	L-150-ST	L-200-ST	L-250-ST	L-300-ST	L-400-ST	L-500-ST	L-600-ST	
Rated Heating (A20°C/W80°C)	Heating Capacity	kW	23.5	36.0	46.0	55.0	72.0	95.0	110.0	130.0
	COP	W/W	2.61	2.67	2.63	2.62	2.57	2.57	2.53	2.45
	Power	kW	9.0	13.5	17.5	21.0	28.0	37.0	43.5	53.0
	Current	A	15.4	23.0	29.9	35.9	47.8	63.2	74.3	90.5
Power Supply	/	380V/3N~/50Hz								
Max. Current Input	A	23	33	47	56	65	90	115	132	
Max. Power Input	kW	12.9	18.5	26.3	31.3	36.4	50.3	64.3	73.8	
Compressor Type	/	Fully enclosed scroll								
Water Pressure Drop	kPa	104	180	75	90	90	150	150	150	
Noise	dB(A)	65	68	70	72	72	73	73	75	
Connection Size	mm	DN40 Male thread	DN40 Male thread	DN65 Flange	DN65 Flange	DN65 Flange	DN80 Flange	DN80 Flange	DN80 Flange	
Water Flow	m³/h	7	10	13	15	20	26	30	35	
Refrigerant	/	Mixed refrigerant R134/R410A								
Operating Temperature Range	°C	-5~45								
Fan Air Outlet Mode	/	Side air out	Side air out	Side air out	Side air out	Top air outlet	Top air outlet	Top air outlet	Top air outlet	
Dimensions(L*W*H)	mm	1500*500*1350	1800*600*1630	2000*600*1850	2000*600*1850	2200*1100*2200	2350*1150*2350	2350*1150*2250	2350*1150*2250	
Weight	kg	220	410	530	615	725	1085	1265	1425	

- Rated Heating Condition: Outdoor Ambient Temp. (DB/WB): 24°C/19°C, The initial water temperature: 15°C, the end temperature: 80°C.
- The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

HIGH TEMPERATURE HEAT PUMP

FLOOR HEATING HEAT PUMP



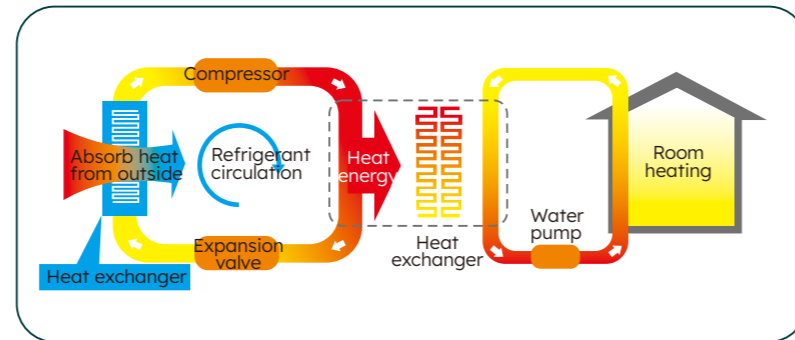
DL

The floor heating heat pump uses a small amount of electric energy to drive the floor heating heat pump unit to operate. It transfers the energy in the air to the water through a heat exchanger to generate high-temperature hot water above 40°C. Through the water pump circulation, high-temperature hot water flows at the ends of the room, such as floor heating pipes, fan coils, and radiators, releasing heat into the room, thereby increasing the indoor temperature to achieve heating purposes. Floor heating heat pumps have significant energy-saving effects and can achieve a high COP even in cold winters. They are a more energy-saving and environmentally friendly heating method than traditional heating.

AQUA floor heating heat pump adopts jet enthalpy increasing technology, which makes the unit operate more reliably and work more efficiently in low temperature environments.

From the perspective of health and comfort, the ideal indoor temperature in winter is between 18-20°C. The heating temperature is distributed vertically from the floor to the ceiling, which can keep the human body's feet warm and the mind clear.

Recovered air heat energy + Small electricity bill = Warm Winter



- Built-in water flow protection, compressor exhaust temperature protection, compressor high and low pressure protection, compressor over current protection, power supply phase error protection (available in three-phase models), and winter antifreeze protection.
- Adopting low-noise compressor and fan design, the unit operates quietly.
- Large-screen LCD display with back light, easy to operate, water temperature 30°C-60°C can be set freely, cycle timing on/off can be set, and power failure memory function.
- EVI air-supplementing and enthalpy-increasing hot water heat pump works reliably all day long.

DL Series Floor Heating Heat Pump

Model		DL-30(E)	DL-50(E)	DL-70(E)	DL-100(E)	DL-120(E)	DL-150(E)	
Heating Condition 1 (A7°C/W45°C)	Heating Capacity	kW	7.5	14.5	20.0	28.5	34.3	43.0
	COP	w/w	3.62	3.62	3.62	3.62	3.62	3.62
	Power	kW	2.1	4.0	5.5	7.9	9.5	11.9
	Current	A	9.4	6.8	9.4	13.4	16.2	20.3
Heating Condition 2 (A-12°C/W41°C)	Heating Capacity	kW	5.2	10.0	13.7	19.8	23.7	29.8
	COP	w/w	2.5	2.5	2.5	2.5	2.5	2.5
	Power	kW	2.1	4.0	5.5	7.9	9.5	11.9
	Current	A	9.5	6.8	9.4	13.5	16.2	20.3
Heating Condition 3 (A-20°C/W41°C)	Heating Capacity	kW	4.3	8.3	11.4	16.3	19.6	24.5
	COP	w/w	2.03	2.05	2.05	2.05	2.05	2.05
	Power	kW	2.1	4.0	5.6	8.0	9.6	12.0
	Current	A	9.6	6.9	9.5	13.6	16.3	20.4
Power Supply	/	220V~/50Hz			380V/3N~/50Hz			
Max. Current Input	A	17	13	17	23	26	32	
Max. Power Input	kW	3.7	7.3	9.5	12.9	14.5	17.9	
Compressor Type	/	Rotary		Fully enclosed scroll				
Water Pressure Drop	kPa	91	105	190	104	180	180	
Noise	dB(A)	58	60	63	65	66	68	
Connection Size	mm	DN25 FemaleThread	DN32 FemaleThread	DN32 FemaleThread	DN40 FemaleThread	DN40 FemaleThread	DN50 FemaleThread	
Water Flow	m³/h	2.5	4	6	8	10	12	
Refrigerant	/	R410A						
Operating Temperature Range	°C	-30~45						
Dimensions (L*W*H)	mm	768*709*868	805*750*1068	870*810*1268	1450*780*1073	1450*780*1223	1480*900*1660	
Weight	kg	110	170	190	225	285	420	

- Heating Condition 1: Outdoor Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Out): 45°C.
 - Heating Condition 2: Outdoor Ambient Temp. (DB/WB): -12°C/-14°C, Water Temp. (Out): 41°C.
 - Heating Condition 3: Outdoor Ambient Temp. (DB/WB): -20°C, Water Temp. (Out): 41°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

FLOOR HEATING HEAT PUMP

PROFESSIONAL HOT SPRING HEAT PUMP

LHP

Used in special water quality, it can effectively resist acid, alkali and chloride ion corrosion in different degrees.

Maximum outlet water temperature up to 50°C

✓ NORMAL TEMPERATURE TYPE

✓ LOW-TEMPERATURE TYPE



ADVANTAGES AND FEATURES OF HOT SPRING HEAT PUMP

- ▶ High efficiency heat exchange and compact structure: The heat exchange tube uses a high-efficiency external threaded pure titanium tube. And the heat exchange coefficient is more than twice that of traditional shell and tube type.
- ▶ The refrigerant inlet and outlet are ingeniously sealed to avoid water leakage: The seals are made of high temperature resistant materials, which can withstand high temperature of 200°C and low temperature of -20°C.
- ▶ Corrosion resistance, long service life, heat exchanger is not easy to be blocked: Engineering plastics are more resistant to all kinds of corrosion and have a longer service life compared to metals. The water side volume of the heat exchanger is more than twice that of the plate heat exchanger, and is more resistant to dirt and blockage.
- ▶ Energy and power saving: The international advanced heat pump technology is adopted, the power consumption is only 20% of the electric boiler, and the operation cost is low.
- ▶ Heating control: Automatic heating, automatic constant temperature, automatic defrosting, with water supply and return control, electronic expansion valve control.
- ▶ Multiple protection, safe and reliable: Built-in water flow protection, compressor exhaust temperature protection, compressor high and low pressure protection, compressor over current protection, power supply phase error protection (applicable to three-phase models), winter anti-freezing protection.
- ▶ Quiet operation: Low-noise compressor and fan design are adopted to ensure quiet operation of the unit.

<LHP-030~LHP-070>
Galvanized sheet painted UV resistant shell.



<LHP-100~LHP-120>
Galvanized sheet painted UV resistant shell.



<LHP-150~LHP-500II>
Galvanized sheet painted UV resistant shell.



<LHP-400IV~LHP-600IV>
Galvanized sheet painted UV resistant shell.





PROFESSIONAL HOT SPRING HEAT PUMP LHP Series

NORMAL TEMPERATURE TYPE

Model		LHP-030	LHP-050	LHP-070	LHP-100	LHP-120	LHP-150	LHP-200	LHP-250	LHP-300	LHP-400II	L-500II	LHP-400IV	LHP-500IV	LHP-600IV	
Rated Heating (A20°C/ W55°C)	Heating Capacity	kW	10.5	18.8	26.3	37.5	45.0	56.3	75.0	93.8	112.5	150.0	187.5	150.0	187.5	225.0
	COP	W/W	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65
	Power	kW	2.3	4.0	5.6	8.1	9.7	12.1	16.1	20.2	24.2	32.3	40.3	32.3	40.3	48.4
	Current	A	10.3	6.9	9.6	13.8	16.5	20.7	27.5	34.4	41.3	55.1	68.8	55.1	68.8	82.6
Power Supply	/	220V/~ /50Hz		380V/3N~/50Hz												
Max. Current Input	A	17	13	17	23	26	32	47	58	72	90	105	90	105	120	
Max. Power Input	kW	3.7	7.3	9.5	12.9	14.5	17.9	26.3	32.4	40.3	50.3	58.7	50.3	58.7	67.1	
Compressor Type	/	Rotary	Fully enclosed scroll													
Water Pressure Drop	kPa	30	36	43	45	45	52	58	58	62	65	68	65	68	68	
Noise	dB(A)	58	60	65	68	68	70	70	72	72	73	73	73	73	75	
Connection Size	mm	DN50 Male thread	DN50 Male thread	DN50 Male thread	DN50 Male thread	DN50 Male thread	DN65 Flange	DN65 Flange	DN80 Flange	DN80 Flange	DN100 Flange	DN100 Flange	DN100 Flange	DN100 Flange	DN100 Flange	
Water Flow	m³/h	5	8	10	12	16	20	30	35	40	58	65	58	65	75	
Refrigerant	/	R410A														
Operating Temperature Range	°C	-12~45														
Dimensions(L*W*H)	mm	768*709 *868	805*750 *1068	870*810 *1268	1450*780 *1073	1450*780 *1223	1580*900 *1660	1926*1056 *2190	2126*1106 *2200	2126*1106 *2200	2450*1302 *2260	2450*1302 *2260	2006*2172 *2228	2006*2172 *2228	2006*2172 *2228	
Weight	kg	105	150	160	220	265	385	515	595	710	815	982	985	1170	1380	

- Rated Heating Condition: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 50°C.
- The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

LOW TEMPERATURE TYPE

Model		LHP-030(E)	LHP-050(E)	LHP-070(E)	LHP-100(E)	LHP-120(E)	LHP-150(E)	LHP-200(E)	LHP-250(E)	LHP-300(E)	LHP-400II(E)	LHP-500II(E)	LHP-400IV(E)	LHP-500IV(E)	LHP-600IV(E)	
Heating Condition 1 (A20°C/ W50°C)	Heating Capacity	kW	10.5	18.8	26.3	37.5	45.0	56.3	75.0	93.8	112.5	150.0	187.5	150.0	187.5	225.0
	COP	W/W	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65
	Power	kW	2.3	4.0	5.6	8.1	9.7	12.1	16.1	20.2	24.2	32.3	40.3	32.3	40.3	48.4
	Current	A	10.3	6.9	9.6	13.8	16.5	20.7	27.5	34.4	41.3	55.1	68.8	55.1	68.8	82.6
Heating Condition 2 (A7°C/ W50°C)	Heating Capacity	kW	8.4	15.0	20.8	30.1	35.9	45.0	59.8	74.8	89.8	119.8	149.5	119.8	149.5	179.5
	COP	W/W	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71
	Power	kW	2.3	4.0	5.6	8.1	9.7	12.1	16.1	20.2	24.2	32.3	40.3	32.3	40.3	48.4
	Current	A	10.3	6.9	9.6	13.9	16.5	20.7	27.5	34.4	41.3	55.1	68.8	55.1	68.8	82.6
Heating Condition 3 (A-12°C/ W50°C)	Heating Capacity	kW	6.0	10.6	14.8	21.4	25.4	31.9	42.3	53.0	63.6	84.9	106.1	84.9	106.1	127.3
	COP	W/W	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
	Power	kW	2.3	4.0	5.6	8.1	9.7	12.1	16.1	20.2	24.2	32.8	40.3	32.3	40.3	48.4
	Current	A	10.4	6.9	9.6	13.9	16.5	20.7	27.5	34.4	41.3	55.1	68.9	55.1	68.9	82.6
Power Supply	/	220V/~ /50Hz		380V/3N~/50Hz												
Max. Current Input	A	17	13	17	23	26	32	47	58	72	90	105	90	105	120	
Max. Power Input	kW	3.7	7.3	9.5	12.9	14.5	17.9	26.3	32.4	40.3	50.3	58.7	50.3	58.7	67.1	
Compressor Type	/	Rotary	Fully enclosed scroll													
Water Pressure Drop	kPa	30	36	43	45	45	52	58	58	62	65	68	65	68	68	
Noise	dB(A)	58	60	65	68	68	70	70	72	72	73	73	73	73	75	
Connection Size	mm	DN50 Male thread	DN50 Male thread	DN50 Male thread	DN50 Male thread	DN50 Male thread	DN65 Flange	DN65 Flange	DN80 Flange	DN80 Flange	DN100 Flange	DN100 Flange	DN100 Flange	DN100 Flange	DN100 Flange	
Water Flow	m³/h	5	8	10	12	16	20	30	35	40	58	65	58	65	75	
Refrigerant	/	R410A														
Operating Temperature Range	°C	-30~45														
Dimensions (L*W*H)	mm	768*709 *868	805*750 *1068	870*810 *1268	1450*780 *1073	1450*780 *1223	1580*900 *1660	1926*1056 *2190	2126*1106 *2200	2126*1106 *2200	2450*1302 *2260	2450*1302 *2260	2006*2172 *2228	2006*2172 *2228	2006*2172 *2228	
Weight	kg	108	155	175	230	275	390	520	595	720	852	1125	1005	1210	1410	

- Heating Condition 1: Outdoor (DB/WB) Temp. 20°C/15°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 50°C.
- Heating Condition 2: Outdoor (DB/WB) Temp. 7°C/6°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 50°C.
- Heating Condition 3: Outdoor (DB/WB) Temp. -12°C/-14°C, Initial Inlet Water Temp. 15°C, and Stop Inlet Water Temp. 50°C.
- The data above is for reference only. For model specifications, please refer to the nameplate on the unit.



CHILLER

ACA



Suitable for all kinds of high-end clubs, hotels, villas, home stays and other hot spring cold baths, sauna cold baths, ice steam rooms and other places.

- Pure titanium coil heat exchanger, corrosion-resistant and anti-oxidation.
- Plastic shell, corrosion-resistant, long service life, no water pollution.
- The insulation material of the shell prevents condensation and dew condensation on the shell, ensures no loss of cooling capacity.
- Union connection, easy to install and use.
- Resistant to corrosion in cold water pools with varying degrees of acid and alkali water quality, long service life.



CHILLER

ACA Series Chiller

Model		ACA-30	ACA-50	ACA-70	ACA-100	ACA-120	ACA-150	
Rated Cooling (A35°C/W7°C)	Cooling Capacity	kW	8.5	14.5	18.0	28.5	35.0	42.8
	EER	W/W	3.1	3.1	3.1	3.1	3.1	3.1
	Power	kW	2.7	4.7	5.8	9.2	11.3	13.8
	Current	A	12.5	8.0	9.9	15.7	19.3	23.6
Power Supply	/	220V~/50Hz			380V/3N~/50Hz			
Max. Current Input	A	18	13	17	25	27	32	
Max. Power Input	kW	4.0	7.3	9.5	14.0	15.1	17.9	
Compressor Type	/	Rotary		Fully enclosed scroll				
Water Pressure Drop	kPa	30	36	41	42	48	52	
Noise	dB(A)	58	60	62	65	66	68	
Connection Size(PVC)	mm	DE50 Union	DE50 Union	DE63 Union	DE63 Union	DE63 Union	DE75 Flange	
Water Flow	m³/h	5	8	11	13	17	20	
Refrigerant	/	R410A						
Operating Temperature Range	°C	≤48						
Dimensions (L*W*H)	mm	768*709*868	805*750*1068	870*810*1268	1450*780*1073	1580*900*1660	1580*900*1660	
Weight	kg	95	145	160	235	325	385	

- Rated Cooling Condition: Outdoor Ambient Temp. (DB/WB): 35°C/24°C, Water Temp. (In): 12°C, Water Temp. (Out): 7°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.



ACA Series



MARICULTURE HEAT PUMP

MARICULTURE HEAT PUMP

H

- Pure titanium tube heat exchanger, acid, alkali and corrosion resistant. The surface is not prone to oxide layer, does not pollute the media, does not scale, and is not prone to leakage.
- 0.5°C Precise temperature control.
- ECO Friendly, No CO₂ emissions.
- Highly efficient, energy-saving, safe and reliable.



It is used in various types of greenhouse aquaculture farms, large-scale breeding and seedling hatching of shrimps, fish, shellfish, etc., and intelligent aquaculture integrating constant temperature and heating of water.

H Series Mariculture Heat Pump

Model		H-030	H-050	H-070	H-100	H-120	H-150	H-220	H-300	H-350	
Cooling Condition (A35°C/W7°C)	Cooling Capacity	kW	8.5	14.8	20.9	29.8	36.0	42.8	58.0	70.0	85.0
	EER	W/W	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	Power	kW	2.7	4.8	6.7	9.6	11.6	13.8	18.7	22.6	27.4
	Current	A	12.5	8.2	11.5	16.4	19.8	23.6	31.9	38.5	46.8
Heating Condition (A20°C/W26°C)	Heating Capacity	kW	13.1	22.9	32.3	45.8	55	64.2	86.0	106.7	128.4
	COP	W/W	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	Power	kW	2.7	4.8	6.7	9.5	11.5	13.4	17.9	22.2	26.8
	Current	A	12.4	8.1	11.5	16.3	19.6	22.8	30.6	37.9	45.7
Power Supply	/	220V~/50Hz				380V/3N~/50Hz					
Max. Current Input	A	18	13	17	25	27	32	45	58	72	
Max. Power Input	kW	4.0	7.3	9.5	14.0	15.1	17.9	25.2	32.4	40.3	
Compressor Type	/	Rotary				Fully enclosed scroll					
Water Pressure Drop	kPa	30	36	41	42	43	45	45	52	58	
Noise	dB(A)	58	60	62	62	65	68	68	70	70	
Connection Size(PVC)	mm	DE50 Union	DE50 Union	DE50 Union	DE63 Union	DE63 Union	DE75 Flange	DE75 Flange	DE90 Flange	DE90 Flange	
Water Flow	m ³ /h	5	8	10	13	16	20	25	30	35	
Refrigerant	/	R410A									
Operating Temperature Range	°C	-12~45									
Dimensions (L*W*H)	mm	768*709*868	805*750*1068	870*810*1268	1450*780*1073	1480*900*1660	1580*900*1660	1926*1056*2190	2126*1106*2200	2126*1106*2200	
Weight	kg	105	150	160	220	322	385	515	595	710	

- Cooling Condition: Outdoor Ambient Temp. (DB/WB): 35°C/24°C, Water Temp. (In): 12°C, Water Temp. (Out): 7°C.
 - Heating Condition: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C, Water Temp. (Out): 28°C.
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

MARICULTURE HEAT PUMP

POOL & COMMERCIAL SPA ELECTRIC HEATER

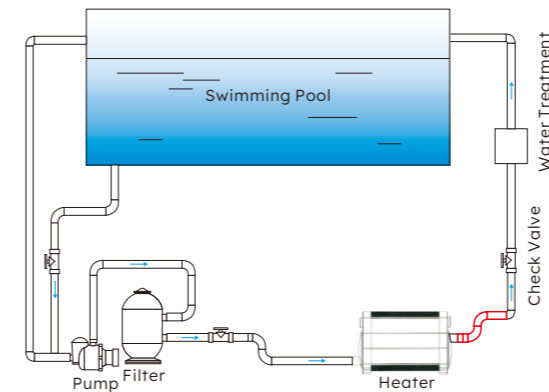


AEH

This is a professional electric heater designed for pool & SPA. It has a smart touch control, easy operation, multiple security, exquisite aluminum casing, easy after sales service features. Corrosion resistant stainless steel tank and nichrome heating element make it multiply longer life.

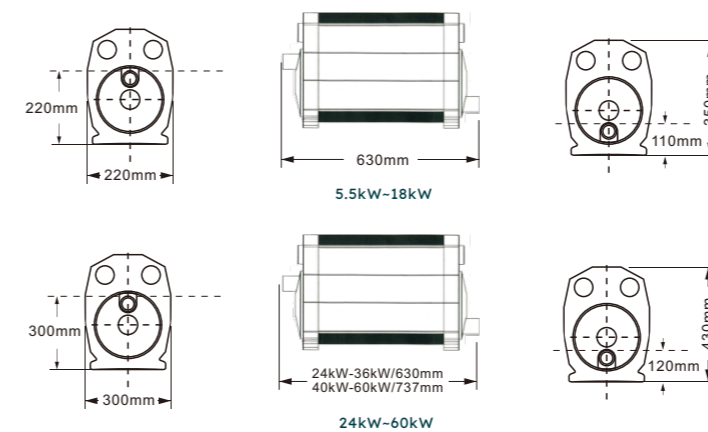
Suitable for all types of pools and SPA pools.

Installation Diagram:



★ Pipe line with red line: The pipe installation method is 10cm upward from the water outlet. This installation method can greatly extend the service life of the whole machine by 20%.

Dimensions:



AEH Series

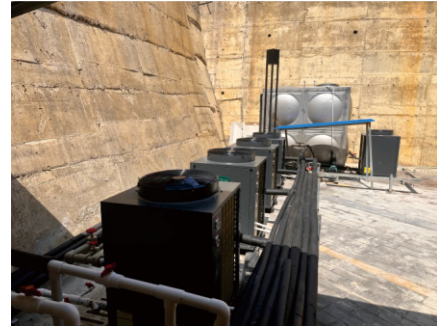


- Stainless steel tank.
- 50psi design pressure.
- Circuit high temperature protection.
- Temperature probe.
- Lighted "on/off" switch.
- Heater status lights.
- Temperature control 20°C-55°C.
- Time display/control (1-15 hour).
- Water flow protection, with an indicator light.
- Intelligent touch control, automatic constant temperature.
- Temperature difference 2°C.
- Heating element can be replaced.

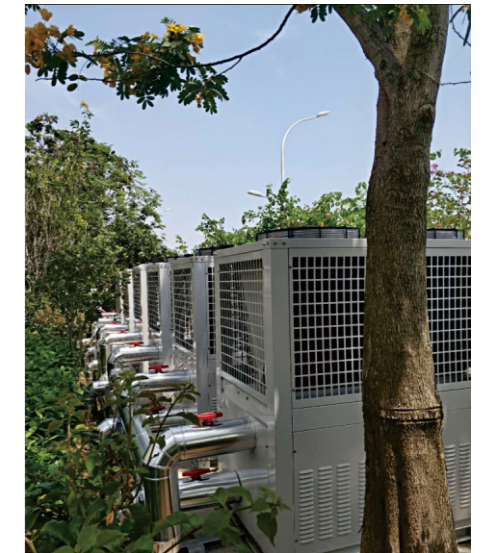
AEH Series Pool & Commercial SPA Electric Heater

Model	Power (kW)	Voltage (V)	Dimensions (mm)	Connection Size
AEH 055~110	5.5/11	220/380	630x220x350	DN40
AEH 150~180	15/18	380	630x220x350	DN40
AEH 240~360	24/30/36	380	630x300x430	DN50
AEH 450~600	45/54/60	380	737x300x430	DN50

POOL & COMMERCIAL SPA ELECTRIC HEATER



HEAT PUMP CASE DISPLAY





HEAT PUMP CASE DISPLAY

