Swimming Pool Heat Pump Unit

- Operation and Installation Manual -
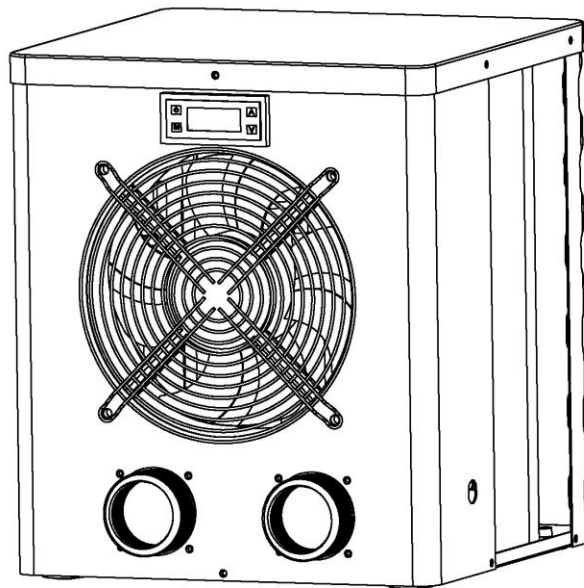
Model :HOT SPOT

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⚠ READ THIS MANUAL CAREFULLY BEFORE STARTING UP THE UNIT. DO NOT THROW IT AWAY. KEEP IT IN YOUR FILES FOR FUTURE REFERENCE.

⚠ BEFORE OPERATING THE UNIT, MAKE SURE THE INSTALLATION HAS BEEN CARRIED OUT CORRECTLY BY A PROFESSIONAL DEALER.

SAFETY INSTRUCTIONS

To prevent injury to the user, other people, or property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage.

Install the unit only when it complies with local regulations, by-laws and standards. Check the main voltage and frequency. This unit is only suitable for earthed sockets, connection voltage 220 – 240 V ~ / 50Hz.

The following safety precautions should always be taken into account:
- Be sure to read the following WARNING before installing the unit.
- Be sure to observe the cautions specified here as they include important items related to safety.

⚠ WARNING

- If the ambient temperature is below $0°C$, please emptying heat pump water, if not doing so would freeze the titanium tube heat exchanger
- If a heat pump is not used for a long time, please disconnect the power supply
- Try to avoid the rain of the wire control device, and the long-term damp may lead to short circuit
- Do not put your fingers or others into the fan, or evaporator. The ventilator runs at high speed, it could cause serious injury.

1.Technical specifications

Model			HOT SPOT
Air temperature: 15°C DB/12°C WB, water inlet/outlet temperature: 26°C/28°C			
Heating capacity		kW	2.20
Power input		kW	0.61
COP			3.61
Air temperature: 26°C DB/23.5°C WB, water inlet/outlet temperature: 26°C/28°C			
Heating capacity		kW	3.10
Power input		kW	0.68
COP			4.41
Power supply			220 - 240V~, 1Ph, 50Hz
Max power input		kW	0.95
Max current		A	4.70
Setting temperature range			15~40°C
Running temperature range			7°C - 35°C
Refrigerant type/charged			R32/0.3
Compressor	Brand		GMCC
	Input	kW	0.79
Air side heat-exchanger			Hydrophilic aluminum & Inner groove copper tube
Fan motor	Fan type		Axial
	Fan size	mm	200*200*60mm
	Motor output	W	60
Water side heat exchanger			Titanium heat-exchanger with PVC casing
Advised water flow		m³/h	2
Net dimension (L×D×H)		mm	310*300*358
Packing dimension (L×D×H)		mm	401*351*386
Net weight		kg	20
Gross weight		kg	22
Noise level (@10m)		dB(A)	<23
Water proof level			IPX4

2.Unit Dimension
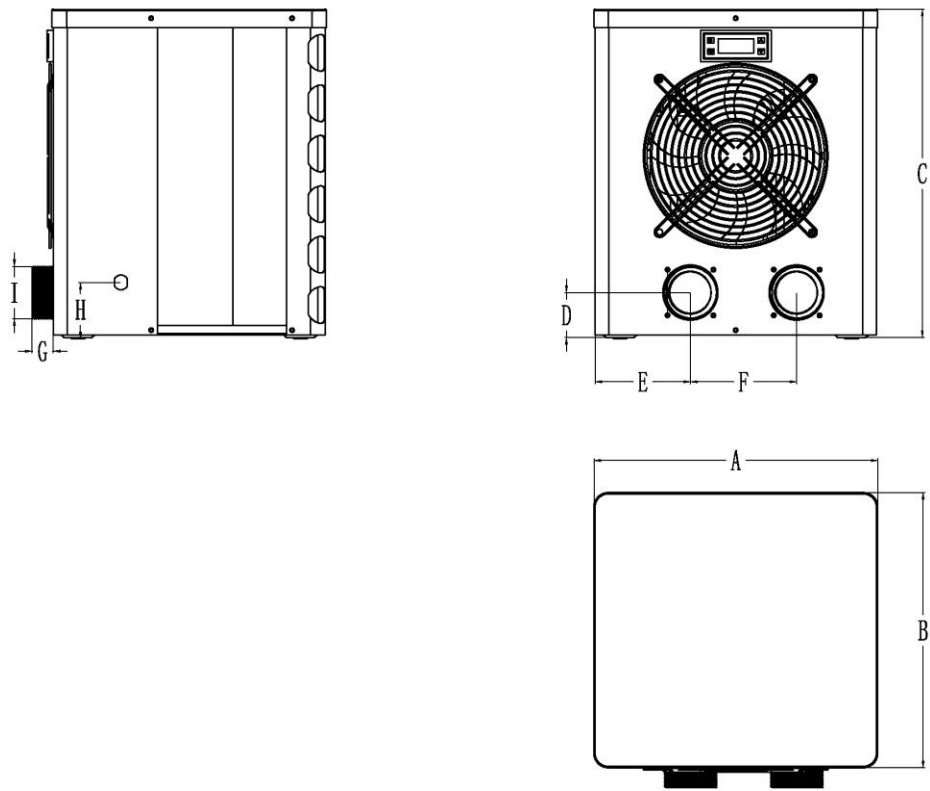
Model	A	B	C	D	E	F	G	H	I
HOT SPOT	310	300	358	49	104	116	25	60	57

3.Exploded view
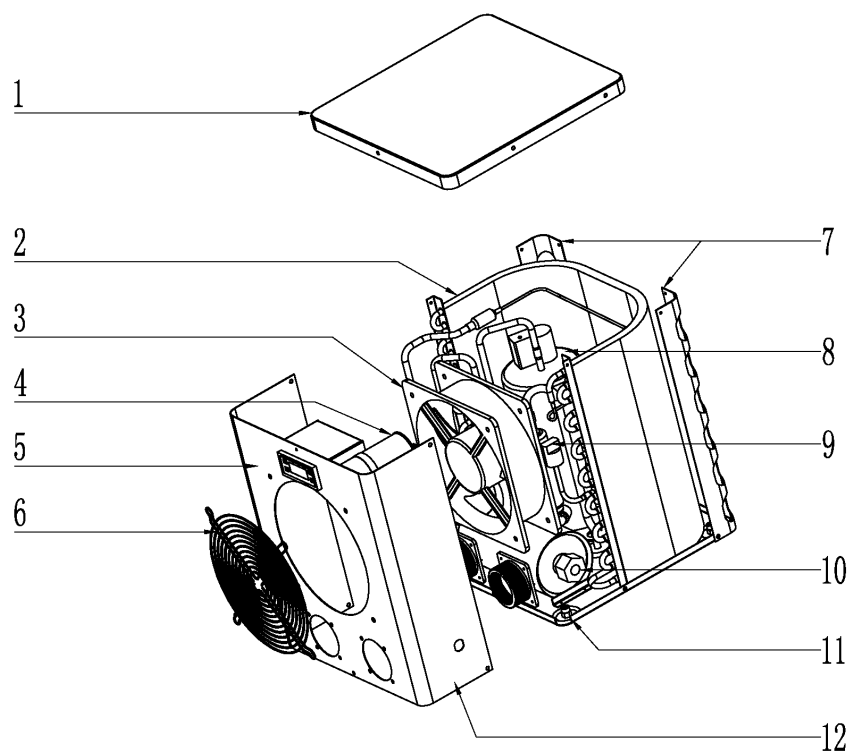
1	Top cover	7	Rear pillar
2	Condenser	8	Compressor
3	Whole machine fan	9	Low pressure switch
4	Compressor capacitance	10	Titanium tube heat exchanger
5	Wire controller	11	chassis
6	Air outlet grill	12	Front panel

4.Installation

4.1 Installation information

The following information given here is not an instruction, but simply meant to give the user a better understanding of the installation.

4.2 Installation place

Install the swimming pool heat pump on a flat, horizontal, and stable surface. Maintain 1 M of open space in front of the discharge grids and 3 M on the outlet side of the ventilator. And reserve enough space to allow access to temperature controller.
Make sure that the discharged air will not be breathed in.

4.3 Water connection

The heat pump is connected to a filtration circuit with a by-pass.
It is imperative that the by-pass is placed after the pump and the filter.
The by-pass generally consists of 3 valves.
This makes it possible to regulate the water flow which passes through the heat pump and to isolate the heat pump completely for any maintenance work, without cutting the flow of filtered water.
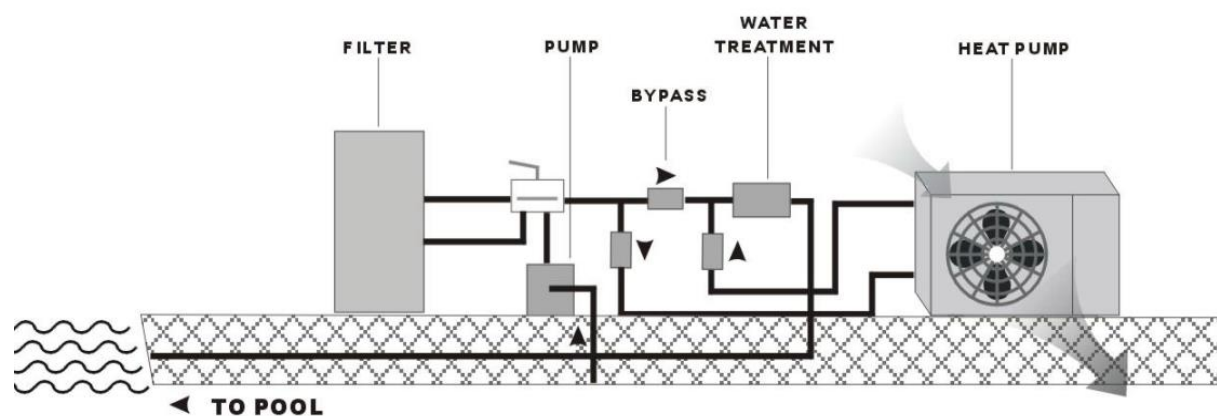
If your installation is equipped of a water treatment with product adductions (chlorine, brominates, salt...) the by-pass must be installed before the water treatment, with a non-return valve between the by-pass and water treatment.

⚠️ ATTENTION: THE HEAT PUMP ONLY FUNCTIONS WHEN WATER FLOW IS PRESENT.
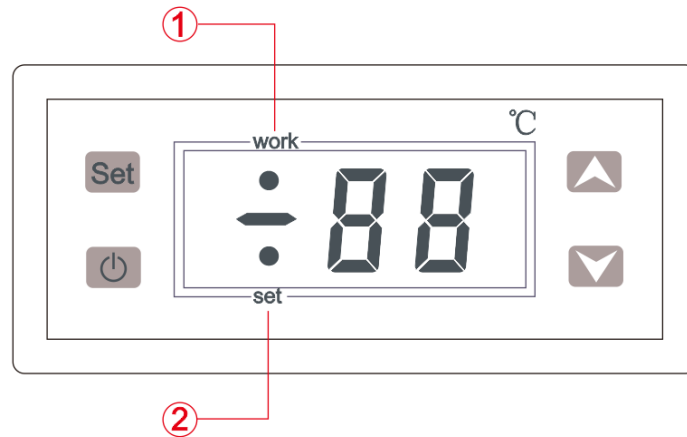
⚠️ NEVER LET THE DIGITAL CONTROLLER GET WET. THIS MAY CAUSE AN ELECTRIC SHOCK OR FIRE.

⚠️ NEVER PRESS THE BUTTONS OF THE DIGITAL CONTROLLER WITH A HARD, POINTED OBJECT. THIS MAY DAMAGE THE DIGITAL CONTROLLER.

5.Controller parameters

code	meanings	Work status		
		Display	Not display	Flash
1	Load status	Working	Not working	Delay time
2	Setting status	/	Non-setting status	In setting status

5.1 ON/OFF function

in normal working status, Press and hold [⏻] for 5 seconds, turn off the heat pump; in off status, Press and hold

[⏻] for 5 seconds, turn on the heat pump.

5.2 Set stop temperature

Press once [Set] in normal working status to set stop temperature , when set led indicator flash, use [▲] [▼] to

adjust the stop temperature value; when finishing, press [Set] to save and exit or no any button operation for 15

seconds to save and exit.

5.3 Set the menu parameters

Press and hold [Set] for 3 seconds   in normal working status to enter into menu setting mode, use [▲] [▼] to

adjust the parameter's value; then press [Set] to save and go to the next parameter; same method to adjust

value; when finishing, press and hold [Set] for 3 seconds to save and exit or no any button operation for 15

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seconds to save and exit.

5.4 Function menu

Code	function	Setting range	Default	unit
HC	Mode	C: cool; H: heat	C	/
d	differential	1～15	3	C
LS	Low temp.	-40～ Setting temp.	-40	C
HS	High temp.	Setting temp. ～99	99	C
CR	calibration	-4～5	0	C
PT	Delay time	0～15	3	

6.System failures list

Error code	Reason	Troubleshooting
HH	Sensor short circuit or exceed the highest measuring temperature	Check the temperature of environment where the sensor is placed, and whether the sensor is short circuit, then repair correspondingly
LL	Sensor open circuit or exceed the lowest measuring temperature	Check the temperature of environment where the sensor is placed, and whether the sensor is open circuit, then repair correspondingly
--	Sensor is disconnected	Please connect the sensor to the correct terminals

Attention: The above codes can also be used to represent low voltage faults, because low voltage switches and temperature sensors are connected in series, This situation may be caused by refrigerant leakage. It is necessary to find professional maintenance personnel.

7.Electrical wiring
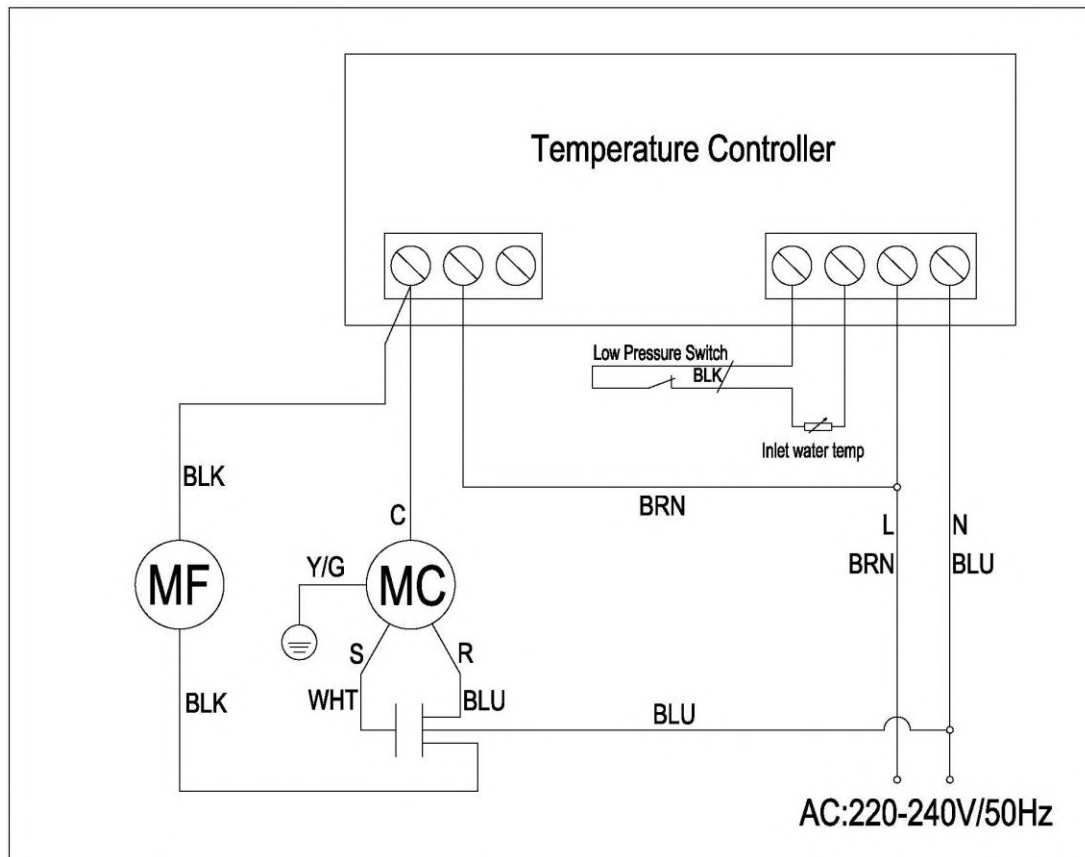
8.Disposal requirements

Dismantling of the unit, treatment of the refrigerant, of oil and of other parts must be done in accordance with relevant local and national legislation.

 Your product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste.

Do not try to dismantle the system yourself: the dismantling of the system, treatment of the refrigerant, of oil and other parts must be done by a qualified installer in accordance with relevant local and national legislation.

Units must be treated at a specialized treatment facility for re-use, recycling and recovery. By ensuring that this product is disposed off correctly, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information.