VEVOR®

TOUGH TOOLS, HALF PRICE

Technical Support and E-Warranty Certificate https://www.vevor.com/support

WATER CHILLER

USER MANUAL

MODEL: S2TL-3500

VEVOR®

Coffee Grinder
S2TL-3500

S2TL-3500

<Picture Only For Reference >

NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

CustomerService@vevor.com

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

PLEASE READ THE INSTRUCTIONS CAREFULLY BEFORE USING THE EQUIPMENT AND KEEP IT FOR FURTHER REFERENCE

Contents

Ⅰ. SAFETY PRECAUTIONS
Ⅱ. PRODUCT DESCRIPTION
Ⅲ. DIMENSION
Ⅳ. INSTALLATION
Ⅴ. HOW TO USE
Ⅵ. MAINTENANCE
Ⅶ. CIRCUIT DIAGRAM
Ⅷ. TROUBLE-SHOOTING

Ⅰ. SAFETY PRECAUTIONS

Warning symbols:

warning	prohibition	caution	protection
			

Warning:

For safety use, the operation instruction below should be strictly followed.

WARNING：Read all safety warnings, instructions, illustrations and specifications provided with this electric appliance. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

IMPORTANT!

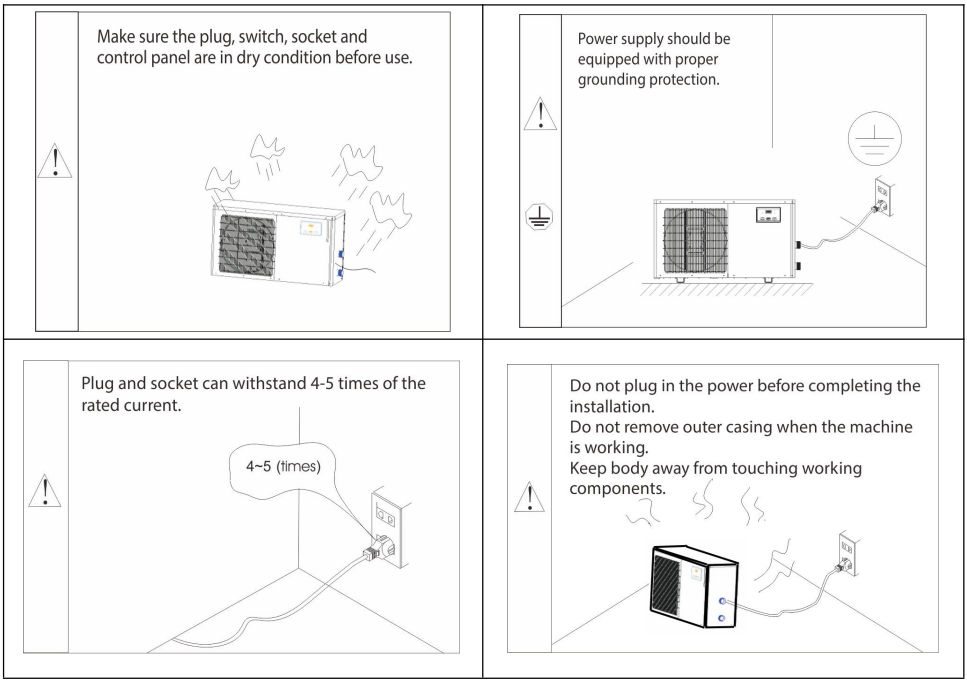
1, Type Y attachment: If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a

hazard.

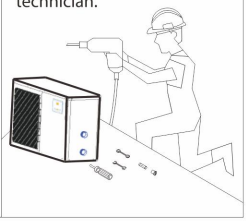
2, This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

3, FCC Declaration: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)This device may not cause harmful interference, and (2)this device must accept any interference received, including interference that may cause undesired operation.

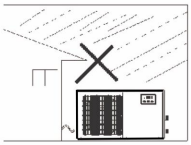
4, Stand the chiller upright and allow the refrigerant to settle for 30 minutes before the initial start!



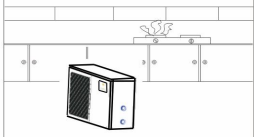
Installation should be preformed by experienced technician.



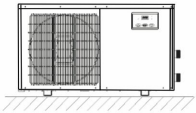
Do not install the unit at a place exposed to sunlight, rain, humidity or liquid splash.



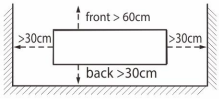
Do not install the unit at a place near to boiler,stove,or other heat source.



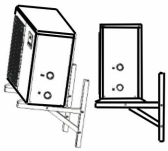
Installation surface should be in flat level and secure so that the system will not shake during working.



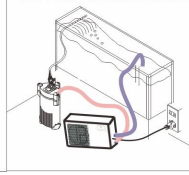
Keep sufficient clearance between the system and its surrounding objects for heat dissipation and convenient maintenance.
The back and two sides>30cm
front > 60cm.



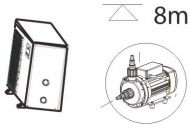
For long life, protect the unit with a shelter if the unit works in the exposure of sunlight or rain .



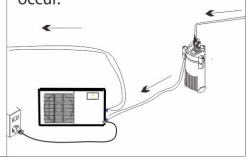
The circulating water volume should comply with the technical requirements for the most efficient chilling.



The head height of the circulating water pump should not exceed 8M as this will cause damage or leakage to chiller.



A pre-filter is needed before the water enters the chiller as dirty water will reduce efficiency and damage may occur.



Ⅱ. PRODUCT DESCRIPTION

INTRODUCTION:

Many thanks for choosing the VEVOR water chiller. This product is with the following features.

1）High quality compressor with excellent durability, enerygy efficiency and low noise.

2）Finned condenser produced under strict quality control.

3）Radiator made with quality aluminum and coated with anti-corrosive paint.

4）High-quality and anti-corrosive industrial heat exchanger made of pure titanium, suitable for fresh and marine water, as well as mild acid and alkaline solution.

5）This machine is controlled by microcomputer, easily operated with control panel.

The chillers are widely used for water temperature adjustment in hotel, restaurant, fish farm, seafood market etc.

TECHNICAL PARAMETER

MODEL	S2TL-3500
POWER	1/3HP
VOLT. & FREQ.	115V/60HZ
COOLANT	R410A
PUMP OUTFLOW	≥6000L/H
REFRIGERATING CAPACITY	3500W
RECOMMENDED TANK SIZE	≤2280L（600gal）
WEIGHT (KG)	37.4
SIZE(MM)	930*280*550
CARTON DIMENSION(MM)	1137*490*690

How to select the right chiller?

1.Determine the water volume of your aquarium or seafood tank (for recommended water volumes, see “RECOMMENDED TANK SIZE” for reference).

2.If the ambient air temperature is 89.6°F (32℃) and you expect to cool the water no lower than 71.6°F (22℃), choose a chiller based on the MAXIMUM water volume.

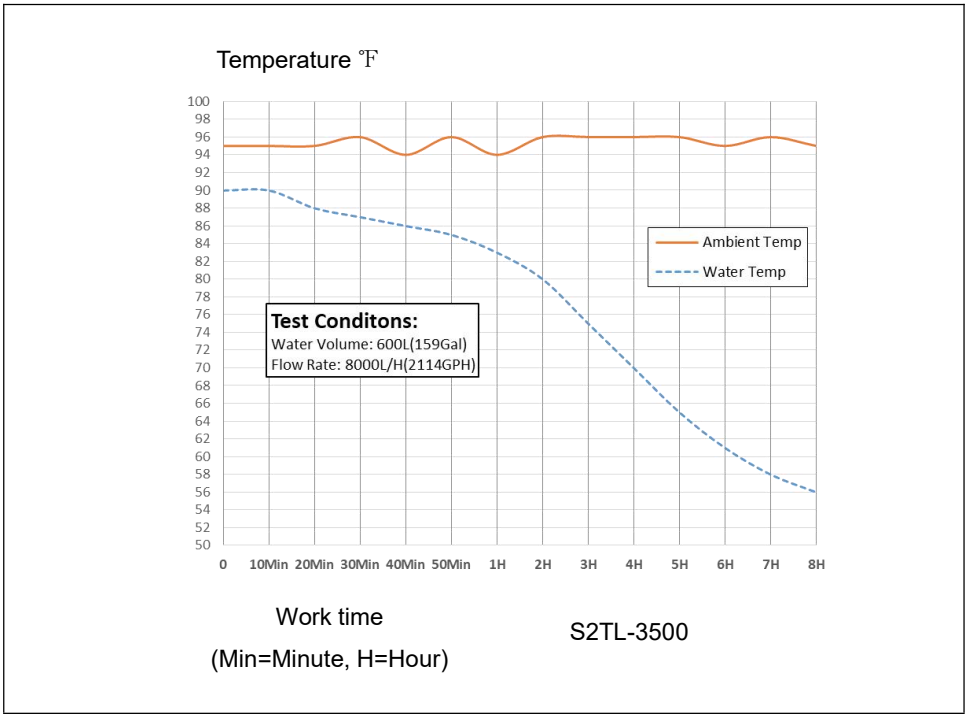
3.If you expect to cool the water to the temperature between 71.6°F(22℃) - 60.8°F(16℃), choose a chiller based on the MINIMUM water volume.

4.If you expect to cool the water no higher than 60.8°F(16℃), you may consider a higher power chiller, or reduce the water volume.

5.Please note that other factors such as room ventilation, aquarium/tank structure, water flow rate, lighting system, surrounding heat sources etc., will also affect water chilling efficiency.

The below performance curves are for the user’s reference in choosing the right chiller.

PERFROMANCE CURVES

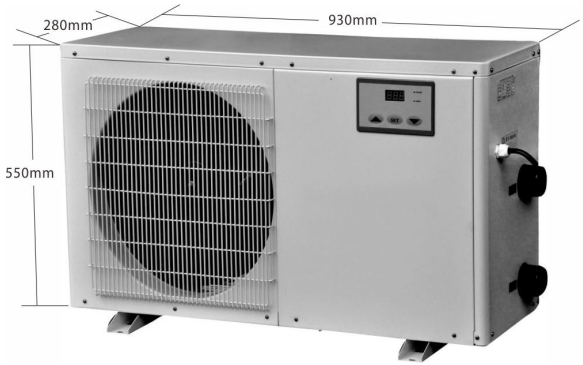


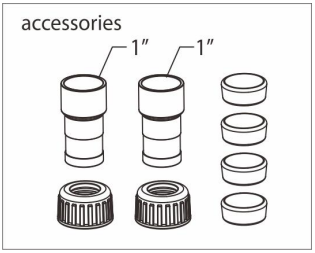
NOTES:

1.Refrigerating effect will be impacted by ambient temperature, water circulation flow rate, installation position, lighting system, surrounding heat sources, room ventilation, aquarium/reservoir structure, etc. To get the best use of this machine, please strictly follow this instruction manual.

2.Recommended water volume is closely related to the ambient temperature and the required water temperature. When ambient temperature is high (and a low water temperature is required) the water volume should be REDUCED to achieve best performance.

Ⅲ. DIMENSION





Product Dimension			
MODEL	**L(mm)**	**W(mm)**	**H(mm)**
CL-600	930	280	550

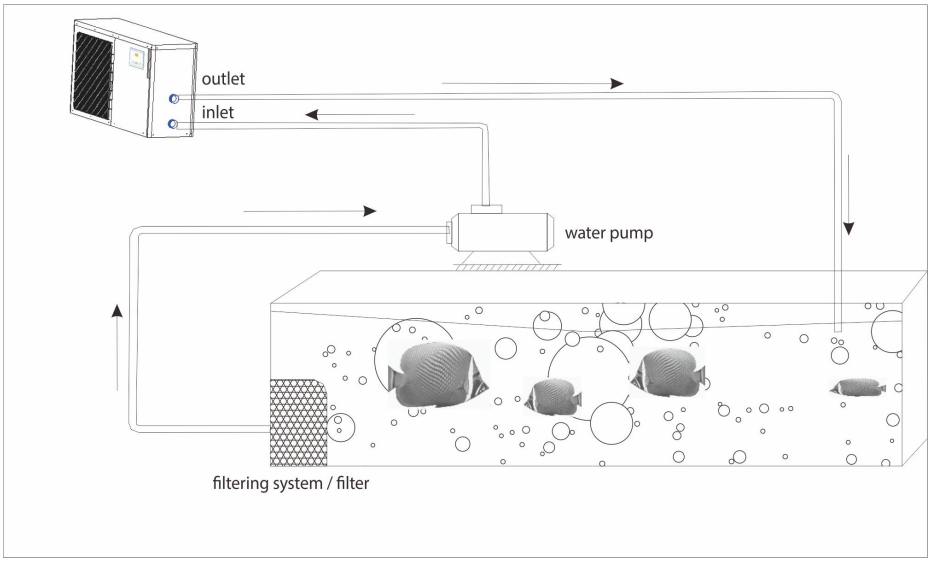
Ⅳ. INSTALLATION

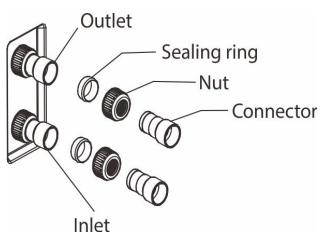
The installation of the chiller should comply with the safety precautions and warnings.

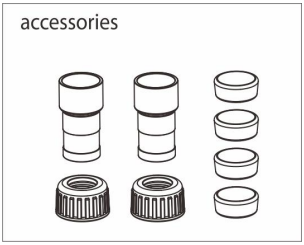
The unit must be used with a circulating system and a filtering system.

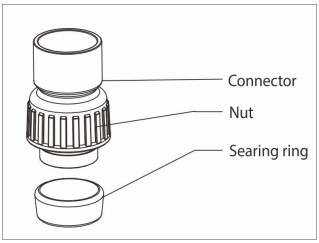
Installation method:

Aquarium/tank -- filtering system/filter -- water pump -- inlet of chiller -- outlet of chiller -- aquarium/tank.









1.The product has two fittings on one side for tubing connections, with the bottom one for inlet and the top for outlet. Connections of the aquarium/tank and water pump can be made with either soft or hard tubing (hard tubing is better for high water flow). For the tubing diameter please refer to the diameter of the connector supplied. After tubing is connected, please make sure there are no kinks, tangles or items on tubing as this may block the water flow.

2.Position the outlet tube going to the aquarium/tank slightly above the water lever and secure in place. Position the inlet tube 5cm~10cm above the bottom of aquarium/ tank. Make sure that the inlet and outlet are positioned at opposite sides of the aquarium/tank. When applied to multi-layer of seafood tank, the outlet tube should be positioned above the top layer, allowing the water to trickle down. At the bottom layer, the water pump firstly pumps the water into filter then into the chiller unit.

3.The chiller unit must be installed in a condition with good ventilation. Keep the clearance of at least 30cm for the back (air inlet) and two sides and at least 60cm for the front (air outlet). See the Fig.1. More clearance should be provided when the machine works in high power. Otherwise, the cooling efficiency will be reduced or even cause malfunction.

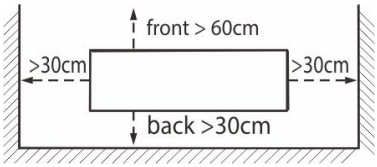


Fig. 1

Attention: Check the chiller inlet and outlet carefully, DO NOT MISCONNECT.

Ⅴ. HOW TO USE

Before using the machine, please check:

(1)Power cord is securely plugged into a grounded, correctly rated outlet. Make sure the power voltage and frequency are in accordance with the data specified on the nameplate or in the instruction manual.

(2)The fittings and joints are correctly and tightly fitted and there are no leaks.

(3)The tubing and connections are all clean, no kinks, tangles or clogs.

(4)Keep sufficient clearance between the chiller and its surrounding objects for heat dissipation and convenient maintenance, with at least 30cm clearance around back (air inlet) and sides and 60cm in front (air outlet). If the chiller is to be put in an aquarium cabinet, the cabinet should have enough grilles for air circulation, or to be equipped with an extra small exhaust fan.

If the 4 items above are OK, you may begin using your water chiller:

(1)Turn on water pump, making sure the Circulating Cooling Water System can run normally without any blockage or leak.

(2)Turn on the chiller and use the Control Panel to set desired water temperature.

How it works?

The machine is operated by the microcomputer with functions such as temperature control, delayed protection, over current protection, and blackout memory.

Once you set up a temperature (required water temperature), the microcomputer controller will choose cooling mode according to the difference between the actual water temperature and the setup temperature, and automatically turn on the machine.

When actual water temp ≥ setup temp + tolerance temp, cooling mode will be on. When the actual water temp reaches the setup temp, machine will be off. The water temp stays at pre-set temperature with a tolerance of 2℉. In the event of a power outage, the chiller will automatically restart when power comes back on.

Adjust temperature

1.Press “SET” to enter setting, the control panel displays pre-set temperature.

2.Press ▲ to turn up pre-set temperature, and press ▼ to turn down pre-set temperature.

3.Stop pressing any key for 10 seconds, digital control panel will exit to temperature display, and the setting takes effect. The green indicator blinks in “delayed start” state, after a 3 minutes’ delay, the chiller starts chilling automatically.

Calibrate the temperature

If the displayed water temp is different from the actual water temp, please calibrate the digital display as below steps:

1.Press and hold “SET” for 10 seconds to enter Temp Error Adjustment Function, digital display will show “CA”.

2.Press "▲"(turn up) or "▼" (turn down) until the displayed figure equals to the tolerance intended to eliminate (tolerance CA = actual water temp - displayed water temp), adjusting range is +4 to -4.

3.After your adjusting operation has stopped for 10 seconds, the control panel will exit to show the adjusted temperature.

Check indicator light

1.Power (Yellow): power supply is connected and the chiller is in stand-by state.

2.Cooling (Green): Blinks in “delayed start” state, steady on in “cooling" mode.

Ⅵ. MAINTENANCE

1.Regular maintenance is needed each year. Please power off and unplug before maintaining.

2.Please DO NOT use chemicals such as gasoline, benzene and diluent to wipe the chiller.

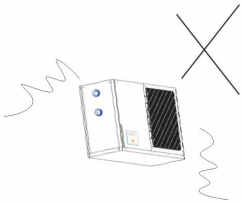
3.Control panel and motor must be kept dry. If water or any liquid is found on the chiller, please turn off the power immediately and wipe it off with cloth before restarting.

4.DO NOT operate the chiller if it has a damaged cord or plug, or it is malfunctioning or has been dropped or damaged in any manner.

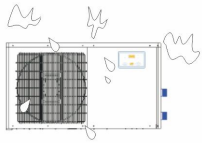
5.DO NOT attempt to service this unit yourself as opening or removing covers may expose you to dangers or other hazards. Refer servicing to qualified service personnel for service or replacing all electrical parts.

6.If the chiller is not in use for a long time, please unplug the power cord, fully discharge the residual water in the tubes, clean the inlet/outlet and hoses and dry them thoroughly. Put the chiller away at a safe dry place.

Do not tilt or lay the machine on its back. If the machine has been tilted or laid, please position it upright and wait 30 minutes before restart.

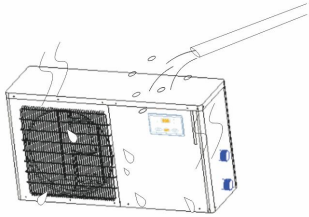


Control panel and motor must be kept dry. If water or any liquid is found on the chiller, please cut off the power immediately and wipe it off with cloth before restart.

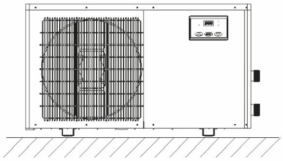


To maintain the best refrigerating efficiency, circulating and filter system should be cleaned once a month, including tubes, fittings, filtemedia, titanium tube inside the machine. Please cut off power first and then clean with warm water, toothbrush and cloth.

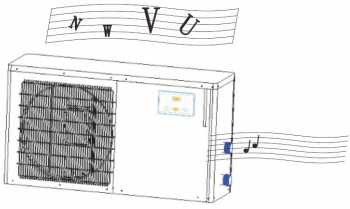
To prevent dust accumulation around air inlet/outlet terminals which may reduce refrigerating efficiency, please clean the terminals with a small vacuum or a towel regularly. Do not wash it with water or any forms of liquid.



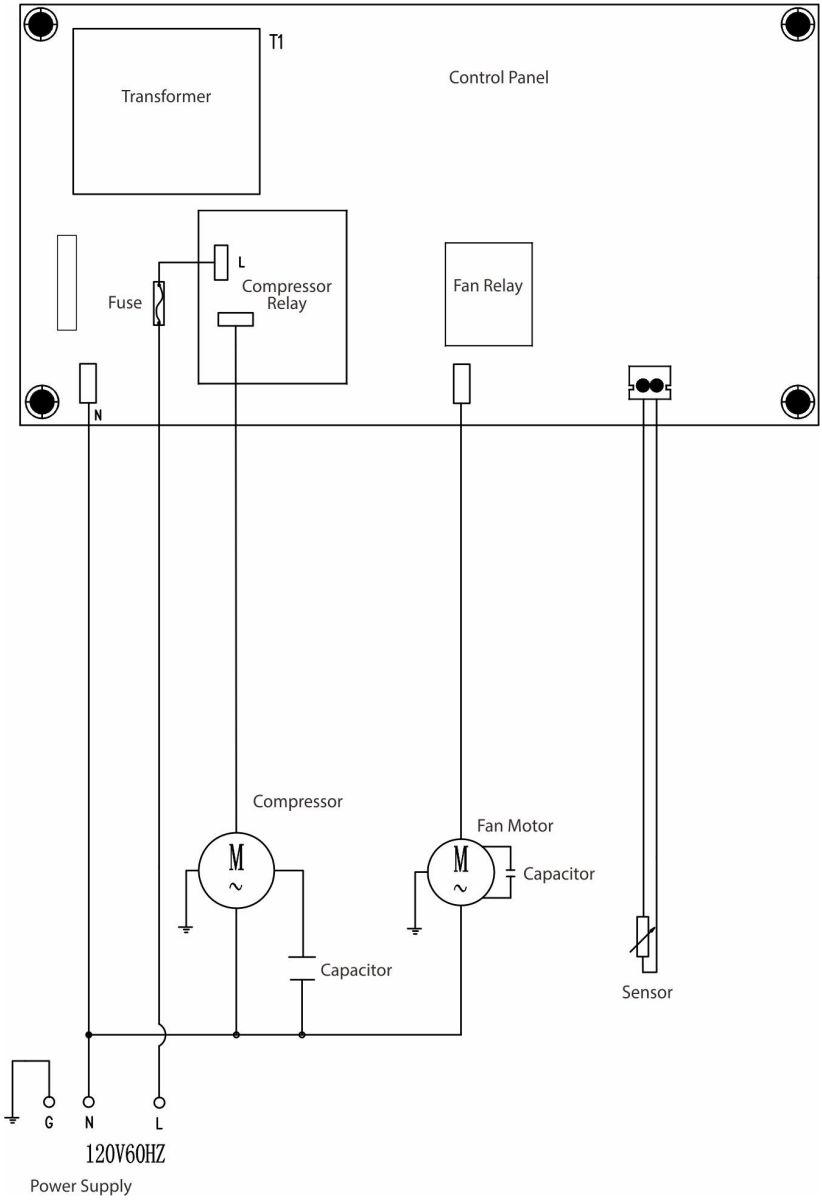
Repairing-Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer servicing to qualified service personnel for service or replacing all electrical parts.



If the machine will not be used for a long period of time, unplug the power cord, clean inlet/ outlet terminals and allow it to dry throughly (especially the parts may touch sea water). Place the unit into a poly bag and carton , then store it in a safe place.



IX. CIRCUIT DIAGRAM



X. TROUBLE-SHOOTING

Failures may be caused by improper operation or maintenance. Before sending the defective product for repair, check the troubleshooting table below.

Failure	Possible cause	Possible solution
The LCD doesn't display and the machine doesn't work	Bad power connection, blown fuse, or broken circuit	Change fuse, check the power switch, plug. Check if plug in the rated voltage and frequency.
The compressor stops working	High air and water temperature leading to high internal pressure, heat protector or capacitor failure	Please improve the heat dissipation and air ventilation. Change capacitor or heat protector.
Refrigerating capacity reduces dramatically or no refrigeration at all after a long time of normal use	Refrigerant leakage or not enough refrigerant left. Poor heat dissipation, condenser radiator fins blocked by dust.	Please contact a certificated and licensed technician to check and refill the refrigerant. Improve the heat dissipation and air ventilation. Remove dust accumulation on the air inlet and parts. Reduce the water volume referring to the specifications.
The displayed water temp is different from the actual water temp	There is tolerance between the LCD displayed temp and the actual water temp.	To calibrate water temperature: 1. Press and hold "SET" for 10 seconds to enter Temp Error Adjustment Function, digital display will show "CA". 2. Press "▲"(turn up) or "▼" (turn down) until the displayed figure equals to the tolerance intended to eliminate (tolerance CA = actual water temp - displayed water temp), adjusting range is +4 to -4. 3. After your adjusting operation has stopped for 10 seconds, the control panel will exit to show the adjusted temperature.

Water temp reaching set-up temp, but the unit continues to run	Temperature sensor not installed at right place, or temperature sensor failed	Turn off or replace the heating switch; refer to operating instructions to adjust temperature control.
Digital display shows “E1”, cannot detect water temp		Check the temperature sensor installation.

Note: If any other abnormal conditions occur during normal use, please do not try to dissemble and fix the machine by yourself, take it to your supplier or contact certificated and licensed technicians for repair.

Manufacturer: Shenzhen XingRisheng Industrial Co., Ltd.
Address: No. 2, Baolong Road 3, Baolong Avenue, Baolong Industrial Park, Longgang, Shenzhen, Guangdong, China
MADE IN CHINA

VEVOR®

TOUGH TOOLS, HALF PRICE

TechnicalSupport and E-Warranty Certificate

https://www.vevor.com/support