



Chiller User Manual

Please read the instruction manual carefully before use
Compressor chiller button model

Preface

Welcome to use the Polar Dive series chillers. We are honored to have your trust in Polar Dive chillers. In order to give you an overall understanding of our product and facilitate your use, we have specially configured this user manual for you, which includes a large amount of information and is an essential guide for your use. Before use, please read the user manual carefully and keep it properly for future reference.

● I. Purpose

1. Purpose: This AS-CY3001/3HP chiller is suitable for cold water baths and is professionally designed for cold plunger.

● II. Key settings

1. Set key: Short press the set key to set the target temperature
2. Ret key: Long press the set key to enter the function code settings, press the set key again to enter the corresponding function area, and then press the Est key again. Manually exit or automatically exit code settings if not operated for more than 3 seconds.
3. Up and down keys: Short press to change temperature parameters, long press to enter quick adjustment;
4. Simultaneously press and hold the up and down keys to restore factory settings
5. Long press Set to shut down
6. Short press Est to power on

● III. Set menu code (code that does not appear in the table does not need to be adjusted)

D	Temperature hysteresis setting	Factory Default: 2℃(-15.0℃)
CA	Temperature correction settings	Factory Default: 0(-5-5℃)
BT	Delay start setting	Factory Default: 1min (0-10min)

Fault prompt:

1. When the sensor is disconnected, the display screen shows — and the cooling is turned off
2. When the sensor detects a temperature below -50 degrees, the display screen shows LLL
3. When the sensor detects a temperature above 110 degrees, the display screen shows HHH

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Indicator light:

1. When the work light is on for a long time, it indicates that the chiller is in cooling mode
2. When the work light flashes, it indicates a delayed start state of the chiller
3. When the set light is on for a long time, it indicates the setting status

Temperature setting adjustment method:

How do I operate the chiller to keep the water temperature at 25 °C?

1. Short press the SET button, the screen will flash, then press the up and down keys to adjust to display 25 ° C.

● IV. Note:

1. Do not place the chiller outdoors.
2. Please try to install the chiller in a cool place and avoid placing it in a damp, dusty or other adverse environment.
3. The placement position needs to be stable and sturdy.
4. The gap between the front and back of the machine and the wall or other objects is 50cm, and the rest should be spaced around 20cm to facilitate air circulation and ensure normal heat dissipation during machine operation. When the indoor air is not circulating, the heat generated during the operation of the machine will raise the ambient temperature, thereby affecting the cooling effect.
5. Do not cover the machine during use, do not shake or impact the machine.
6. The circulating water volume is determined based on the maximum load of the water pump (submersible pump or other external filter) and the circulating equipment.
7. The cooling effect may also vary due to differences in installation location, surrounding heat sources, pipe length, water pump, filter, and other connecting accessories. Therefore, please use various water pumps and standard accessories that are matched with this series of chillers to avoid affecting the optimal performance of each model.
8. Before the first use, seek and clean the water pipe. The inlet and outlet of the machine must be circulated with fresh water for one hour, as it may contain a small amount of protective oil. It is necessary to circulate for an additional period of time. Remember, remember, remember!

● V. Installation:

1. Connect the water pipe to the inlet and outlet of the chiller (regardless of left or right)
2. Water pump connection method: First, connect the outlet of the water pump to the inlet of the chiller with a pipe, and place the water pump directly into the inlet (a water pump that can be soaked in water)
3. Simply plug the power cord into the chiller and socket to start working

● VI. Fault handling

When the following faults occur, please try the following disposal measures before sending for repair

Fault phenomenon	Key inspection points and elimination	Resolvent
The display screen does not light up	The power plug is not securely plugged in	Insert the power broadcasting lead back into the stable socket and press the power switch on the back of the host to start
	Not turning on the power switch	
Water does not circulate	Use different power supply voltages according to different countries and regions. Not interchangeable	Select the power supply voltage to drive based on the parameter voltage
	The water pump is not working properly and is not powered on	Unplug the water pump plug and reconnect it to the power socket
Poor water output	Twisted water pipe	String twisting of water pipes can cause water to not flow, please adjust the pipes smoothly
	The water pump is not fully responsive to the water level, and the suction is incomplete	Place the entire water source below the water level
The water temperature cannot decrease	Water pipes are contaminated and blocked by dirt	Please clean the water pipes regularly to keep them unobstructed
	Twisted water pipe	String twisting of water pipes can cause water to not flow, please adjust the pipes smoothly
The water temperature cannot decrease	The water pump is not fully responsive to the water level, and the suction is incomplete	Insert the water pump as a whole below the water level
	The temperature in the environment is too high	Keep the ambient temperature below 35 degrees Celsius and ensure good ventilation
	The chiller is placed in a closed cabinet	Please place the chiller on an open and closed surface to ensure good ventilation
The water temperature cannot decrease	The water volume exceeds the cooling capacity	Reduce water volume or replace with a higher power chiller
	Boiling of water pipes leads to insufficient circulating water volume	Be careful not to heat the water pipe

● VII. Warranty Clause

1. Warranty Scope
 - (1) Replacement of parts due to manufacturing or material quality issues that cause damage to the product.
 - (2) The product experiences malfunctions under normal use. (For the above situations, a valid warranty requires presentation of a stamped dealer receipt with the correct date filled in.) Free warranty service is available during the warranty period.
 - (3) Warranty Period (The warranty period for this product is one year, calculated from the date of purchase).
 - (4) Non-Warranty Content
 - (1) Damage caused by improper use, human damage or incorrect repairs by non-professional personnel. Damage
 - (2) caused by exceeding the warranty period or improper use or maintenance.
 - (3) Loss of warranty card.

● VIII. Certificate of Conformity



This product has been inspected and complies with standard requirements

Approved for release

-----Cutting Line-----

Product Warranty Card: This card serves as the product warranty voucher, Please keep it safe and secure.

Product Name:	
Model:	
Purchaser's Name:	
Address:	
Telephone:	
Reason for Failure:	