

USER MANUAL

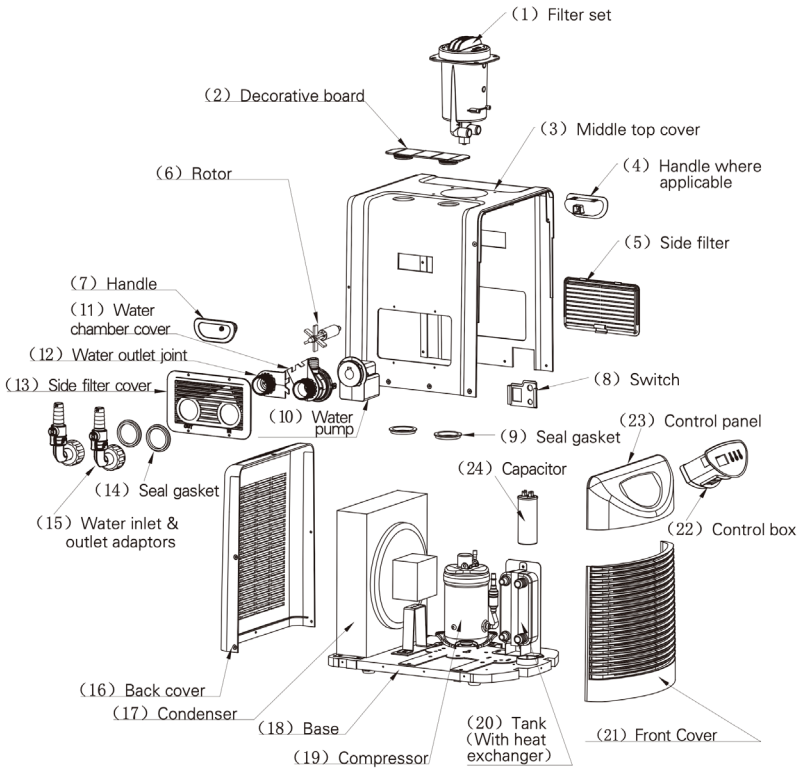


ACTIVE AQUA OUTDOOR CHILLER



AACH033HP

PARTS LIST



INTRODUCTION

A cold plunge is a form of water immersion, typically involving sitting in a tub of icy water for a short period, often after exercise. It's a practice gaining popularity for its potential benefits like reduced muscle soreness, improved mood, and enhanced recovery.

Imagine experiencing the transformative power of cold therapy without the constant hassle of managing ice. That's the reality with the ACTIVE AQUA series Cold Therapy Chiller. These innovative CHILLERS offer an economical and technologically advanced solution to keep your ice bath refreshingly cold (as low as 39°F/3°C) for extended periods, so that even in hot weather you can count on your cold bath being consistently cool. Excessive temperatures can be quickly and easily controlled by selecting a heat exchanger that is manufactured from 304 stainless steel alloy.

The system design and high efficiency compressor reduce the forces on the rotor, which results in significantly lower noise levels, the digital temperature controller ensures that the selected temperature is maintained. AA chillers are robust, with a strong chassis and aesthetic, non-corrosive, ABS plastic housing.

FEATURES

1. Micro-computer control system for accuracy and ease of operation.
2. Powerful cooling design to keep your ice bath refreshingly cold (as low as 39°F/3°C) for extended periods.
3. Uses environmentally friendly refrigerant.
4. Uses high-class stainless steel heat exchanger, chiller can withstand higher pressure.
5. Over-current protection device system.

SUGGESTIONS FOR SAFE OPERATION

Several symbols are used in this manual and on the product itself to ensure safe and proper operation to prevent injury to yourself or others or damage to the chiller. The meanings of these symbols are explained below. Please be sure you understand their meanings before you read this manual.

EXPRESSIONS (TERMS AND SYMBOLS)

The degree of danger will be indicated by the terms or shown by pictures. The symbols on the left are a general indication but specific details of the action which must be taken will be shown by a picture or explanatory text beside the symbol.



This symbol advises you of an item which should be noted (including danger and warning).



Attention

This term indicates the possibility that continuing working while ignoring this attention, or working incorrectly without full understanding, may cause personal injury or equipment damage.



This symbol advises you of an action which must be taken (is mandatory) in order to avoid danger.



This symbol advises you of an action which must not be taken (is prohibited) in order to avoid danger.

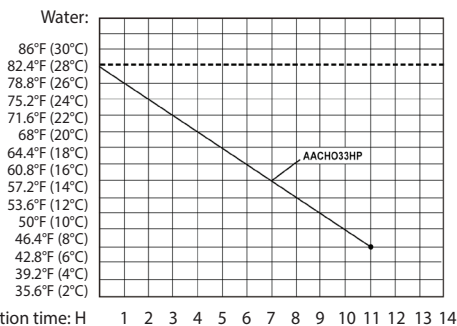
SPECIFICATIONS

Model	AACHO33HP
Voltage	110-120V
Frequency	60hZ
Working Current	5.0A
Power	1/3 HP
Water Flow Rate	792gal (3000L)
Refrigerant	R-513A
Refrigerant Weight	200g
Weight	36lbs (16.4 kg)
Dimensions	14"x17.2"x18.5" (355x435x470mm)

1. The rate of flow is dictated by the pump.
2. The refrigeration performance test is carried out at an ambient temperature of 86°F, without any other additional heat sources.
3. The cooling rate and efficiency will be affected by the installation location and any heat sources, such as heat from lighting or pumps.
4. Refrigeration efficiency will decrease when there is insufficient ventilation within the cabinet or room due to heat from the unit.

EXAMPLE PERFORMANCE CURVES

Water Volume Cooling Examples	AACHO33HP
Ambient Room Temperature	86°F (30°C)
Water Temperature Before Refrigeration	82.4°F (28°C)
Refrigeration Time	11 h
Water Volume Refrigerated (Example A)	80 gal (302.8L)
Water Temperature After Refrigeration	42.8°F (6°C)



The refrigeration performance test is carried out at an ambient temperature of 86°F (30°C) without any other additional heat sources.

INSTALLATION



CAUTION: Do not turn the box or the appliance upside down. Keep packaging and materials in case the device need to be moved or transported.

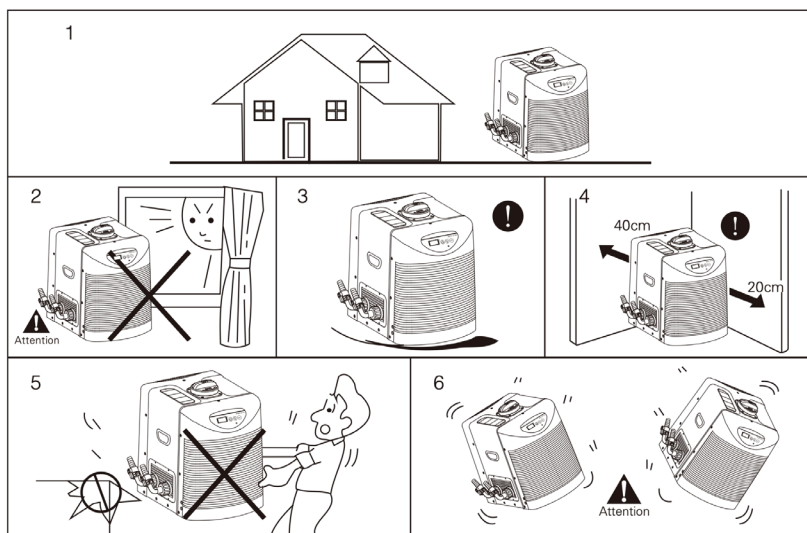
When the chiller carton is unpacked, check to see if the chiller is the right model and that no damage to the unit has occurred during transportation. You should also check that all spare parts and accessories are included as listed below.

1. PLEASE CHECK THE CONTENTS OF THE PACKAGE:

- Active Aqua Outdoor Chiller - 1 piece
- Instruction manual - 1 piece
- Water inlet & outlet adaptors - 2 pieces

2. INSTALLATION POSITION:

- (1) The chiller features a GFCI-protected power cord and is rainproof for outdoor use (drain and disconnect when temperatures fall below freezing). (Fig.1)
- (2) Select a position as cool as possible and keep the unit away from flammable sources, high temperature, direct sunshine, moisture or dust. (Fig.2)
- (3) Place the unit on a horizontal stable surface. (Fig.3)
- (4) Install at least 8 - 16" (20.32 - 40.64 cm) away from any wall or structure for venting. (Fig.4)
- (5) Do not cover the chiller whilst it is working, avoid shaking or colliding with other objects directly.
- (6) Never store or stand the chiller upside down or on its side as this may damage the unit. If it has been stored in this orientation, then stand the correct way up and wait for at least 20 minutes before starting. (Fig.6)



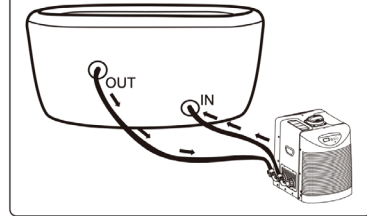
3. SUGGESTIONS FOR INSTALLATION:

1. Electrical work must be done by a qualified electrician.
2. Provide a separate power outlet to be used only for the unit.
3. Ensure that the power source conforms to the power requirements specified on the product nameplate.
4. The power supply should be fitted with earth leakage breaker.
5. Disconnect the power supply during installation.

4. INSTALLATION METHODS (please note):

- This chiller is not designed for use with seawater.
- Place the setup in an area that can withstand wetness, moisture, and condensation, so you don't risk water damage.
- Make sure the Chiller are on a solid, flat, waterproof surface.
- The chiller includes a built-in pump, a built-in washable/reusable filter and all necessary hose fittings for a seamless installation.
- The pump is not self-priming. Ensure the chiller is positioned below the water level of your cold therapy tub for optimal performance.
- An overly long tubing run from the tub drain to the chiller inlet may reduce pump efficiency.

Ensure the chiller is positioned below the water level of your bathtub for optimal performance.



5. BEFORE OPERATING THE CHILLER, PLEASE CHECK THE FOLLOWING:

- (1) Check if the water level inside the tub is suitable for the continuous supply of water.
- (2) Make sure that there are no water leaks from the hose and pipe connections.
- (3) Insert the power plug fully into the power outlet so that the plug itself does not wobble.
- (4) The power plug must be readily accessible and visible to the tub occupant but installed at least 5' from the tub water.
- (5) Double check the circulating & filtration system, especially that the circulating tube is not clogged.

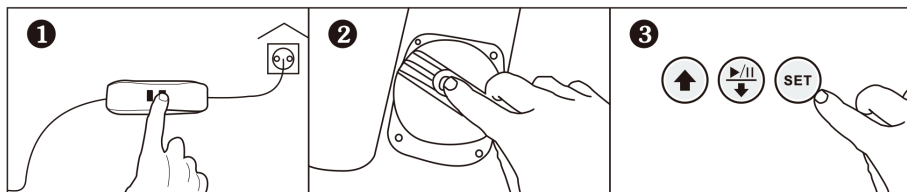
OPERATION

1. Once the tub is full you can plug in your chiller, and then press the RESET button of the GFCI protector to switch on the chiller. (Fig.1)

*Please note: default mode of the GFCI protector is OFF, not ON.

2. Press the gravity prime valve on top of the filter cartridge (cover) for about 10 seconds to gravity prime to the pump, the pump is not capable of selfpriming/suction. Then the chiller will start operating in about 1 minute. (Fig.2)

3. Temperature setting: Press the (SET) button for more than 3 seconds to enter the programming mode, indicated by a beep and the current set temperature value will flash on the display. Press the "▲" button for increasing temperature or "▼" button for decreasing the temperature to set your desired temperature. (Fig.3)



• TEMPERATURE DISPLAY SWITCHING

Short pressing the SET button, temperature display on the screen can be switched between the temperature of the tub and the setting temperature.

• ADJUSTING THE SET TEMPERATURE

Press the (SET) button for more than three seconds to enter the programming mode, indicated by a beep and the current set temperature value will flash on the display. Press the "▲" button for increasing temperature or "▼" button for decreasing the temperature to set your new required parameters. You will hear a beep with each press whilst in programming mode. Press the (SET) button again to save or just wait for eight seconds. The display will revert to the temperature of the tub water whilst the chiller is working. The available temperature set range is from 39°F (3.88°C) to 82°F (27.77°C).

• ADJUST HYSTERESIS VALUE

With the outdoor series chiller model, it is possible to adjust the hysteresis value between the on temperature and the off temperature between 33.8°F (1°C) and 37.4°F (3°C). At 33.8°F (1°C) the chiller will switch on and off more often but maintain a tighter temperature range. Press the "▼" key for 3 seconds until the digits twinkle and press the "▲" "▼" buttons to adjust the value. If this function is not specifically required, then we suggest that you leave the reading at factory setting.

• TEMPERATURE CALIBRATION

It is possible to calibrate the temperature of your chiller to match another piece of equipment, such as a high precision thermometer/temperature controller/aquarium computer, or to create an offset to match the water temperature in the aquarium if the chiller is remotely positioned.

Press the "▼" and "▲" together and hold for 6 seconds. It is then possible to adjust the reading up or down through 1.5 degrees in 0.1 degree steps.

If this function is not specifically required, then we suggest that you leave the reading at factory setting.

• TO PAUSE THE WATER PUMP AND THE CHILLER

For a quieter cold therapy/plunge experience or when you want to change the filter, you can pause the the water pump and the chiller by pressing the PAUSE button. Short press the PAUSE button to pause the water pump and the chiller. The water pump will turn off in about 5 seconds delay, the PAUSE indicator light will flash.

Press the PAUSE button again, the water pump will turn back on and resume circulating the water immediately, and the chiller will resume running in about 1 minute. It is not recommended to use this function often.

• **CHILLER PROTECTION SYSTEM**

A protection system is built into the chiller which prevents the refrigeration compressor from starting for three minutes between cooling cycles during normal operation or after a reset or when in use for the first time. If used with a third-party external temperature controller then the chiller will see this as a reset and delay for 3 minutes before starting the compressor.

• **AUTOMATIC ON & OFF SWITCHING OF THE REFRIGERATION COMPRESSOR**

When the refrigeration compressor has not been running for over three minutes and the water temperature is 33.8°F (1°C) above the set temperature, the compressor will start to work again automatically.

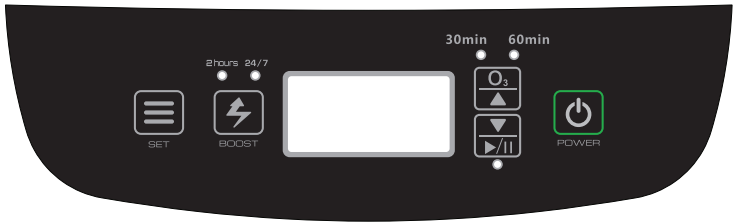
The compressor will continue to run and cool the water then stop working automatically when the tub water temperature reaches or falls below the set temperature.

The working state indicator 6 shows that the chiller is working. The light turns off when the tub water temperature reaches the set temperature & the compressor stops running, the light twinkles to show that the protection device is delaying the compressor from restarting for three minutes.

• **FAULT DISPLAY SYSTEM**

Some breakdowns will automatically show on the display. When water temperature sensor/probe has become loose (in a open circuit) or damaged, the letter E1 or E2 will appear on the display and the protection device will respond to stop the chiller.

• **OPERATION PANEL**



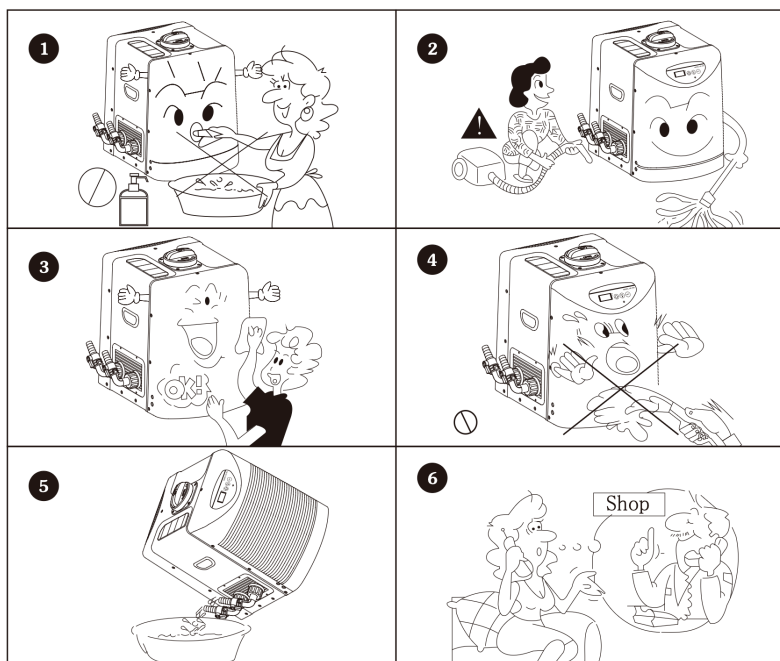
CLEANING AND MAINTENANCE

1. Once the tub is full you can plug in your chiller, and then press the RESET button of the GFCI protector to switch on the chiller. (Fig.1)

*Please note: default mode of the GFCI protector is OFF, not ON.

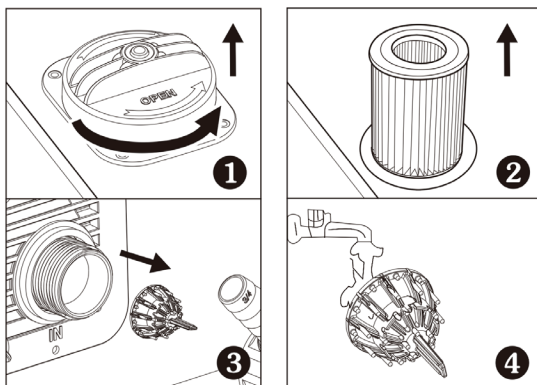
2. Press the gravity prime valve on top of the filter cartridge (cover) for about 10 seconds to gravity prime to the pump, the pump is not capable of selfpriming/suction. Then the chiller will start operating in about 1 minute. (Fig.2)

3. The plug, electric supply switch and temperature adjuster must be cleaned with dry soft cloth. (Fig.3)
4. NEVER immerse the unit into water or flush it directly with water to prevent damage to the electric insulation of the chiller. (Fig.4)
5. Disconnect the power supply plug if the unit is not to be used for a long time. Remove the inlet & outlet pipes and tilt the front of the chiller to remove water from the unit. Clean all of the parts with a soft cloth and cover it with a plastic bag and store upright in a safe and dry place. (Fig.5)
6. If you still have any other questions, please contact your dealer. (Fig.6)



FILTER CARTRIDGE REPLACEMENT AND FILTER BASKET CLEANING STEPS

1. Pause or turn off your cold plunge/tub, then double-check that there are no water running. Remove the filter housing cover counterclockwise and lift it. (Fig.1).
2. Remove the dirty filter element and replace it (Fig.2). SKU: AACHSF331 (Replacement Filter)
3. Take out the inlet filter basket (Fig.3).
4. Remove dust or rinse thoroughly with water (Fig.4).



GUIDE TO SIMPLE PROBLEM SOLVING

Before calling service personnel, please check the following chart for possible cause to the trouble you are experiencing.

SYMPTOM	CAUSE	SOLUTION
The chiller does not run and the display is dead.	Power not turned on	Turn on the power
	Loose plug	Be sure the power cord is fully plugged in
	The fuse has blown	Change for a new fuse
The chiller switches on and off	Connected to wrong voltage and/or frequency	Connect to correct power source, according to the name plate
Refrigeration capacity reduces or even no refrigeration	The chiller protection device is operating as normal	Wait for 3 minutes and the chiller will turn on again automatically
	The setting temperature is higher than the tub water temperature	Change the setting temperature
	The air inlet and outlet are clogged with dirt	Clean the dust from the air inlet and outlet with a brush or a vacuum cleaner
	Loss of refrigerant/gas	Refill the chiller with the correct refrigerant/gas. Carried out by a qualified engineer.
	Too much water flow	Reduce water circulation
Runs noisy or with vibration	The base is not flat	Mount on a level surface

LIMITED WARRANTY



Hydrofarm warrants the chiller to be free from defects in materials and workmanship. The warranty term is for one year beginning on the date of purchase. Misuse, abuse, or failure to follow instructions is not covered under this warranty. Hydrofarm's warranty liability extends only to the replacement cost of the product. Hydrofarm will not be liable for any consequential, indirect, or incidental damages of any kind, including lost revenues, lost profits, or other losses in connection with the product. Some states do not allow limitation on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Hydrofarm will, at our discretion, repair or replace the chiller covered under this warranty if it is returned to the original place of purchase. To request warranty service, please return the chiller, with original sales receipt and original packaging, to your place of purchase. The purchase date is based on your original sales receipt.

GARANTIE LIMITÉE

Hydrofarm garantit que le chiller ne présente aucun défaut de pièces et main-d'œuvre. La période de garantie est d'un an à partir de la date d'achat. Une utilisation incorrecte, abusive, ou le non-respect des instructions n'est pas couvert(e) par cette garantie. La responsabilité de la garantie Hydrofarm couvre uniquement le coût de remplacement du produit. Hydrofarm ne pourra être tenu responsable des dommages consécutifs, indirects ou fortuits de tout type, y compris les pertes de revenus, de profits ou autres en rapport avec le produit. Certains états n'autorisent aucune limite concernant la durée de la garantie implicite ou l'exclusion des dommages fortuits ou consécutifs ; les limites ou exclusions mentionnées ci-dessus peuvent donc ne pas être applicables à votre cas. Hydrofarm se réserve le droit de réparer ou remplacer le chiller couvert par cette garantie si celui-ci est renvoyé au lieu d'achat d'origine. Pour solliciter le service de garantie, veuillez renvoyer le chiller avec sa facture et son emballage d'origine à votre lieu d'achat. La date d'achat est indiquée sur votre facture originale.

GARANTÍA LIMITADA

Hydrofarm garantiza que el chiller no presentará defectos de fabricación. La garantía tendrá una duración de un año desde la fecha de compra. En caso de no respetarse estas instrucciones o de un uso inadecuado del producto, la garantía no cubrirá los posibles daños. La cobertura de la garantía ofrecida por Hydrofarm únicamente incluye los costes de sustitución del producto. Hydrofarm no será responsable de ningún daño indirecto, accidental o derivado de ningún tipo, incluyendo pérdidas de ingresos o beneficios, o cualquier otra pérdida relacionada con el producto. En algunos estados no se permiten limitaciones sobre la duración de una garantía implícita o la exclusión de los daños accidentales o derivados; en cuyo caso las limitaciones y exclusiones anteriores no serán de aplicación. Hydrofarm, a su discreción, podrá reparar o sustituir el chiller cubierto por esta garantía siempre que se devuelva al lugar original de compra. Para reclamar la garantía, devuelva el chiller con el ticket de compra y el embalaje original al lugar de compra. La fecha de compra será la indicada en el ticket original.



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