

Chiller Installation Instruction

WOODBIDGE®

Model: IC 2.0



READ ALL INSTRUCTIONS BEFORE UNPACKING THE PRODUCT

INSTRUCTIONS THAT, IF IGNORED, COULD RESULT IN DEATH OR SERIOUS INJURY CAUSED BY INCORRECT HANDLING OR INSTALLATION OF THE PRODUCT. THESE INSTRUCTIONS MUST BE OBSERVED FOR SAFE INSTALLATION.

CAUTION!



**TWO PEOPLE
LIFT REQUIRED**

**2 PEOPLE ARE REQUIRED TO LIFT AND DURING
ENTIRE INSTALLATION OF THIS PRODUCT**

This product must be installed by a fully insured and licensed HVAC installer.

The chiller uses R410A refrigerant. WOODBRIDGE does not offer nor is responsible for refilling the refrigerant. Please hire a fully insured and licensed HVAC installer for maintenance, refrigerant refill, troubleshooting, and repair of the chiller.

We are not responsible for local codes compliance for this product. Building and plumbing codes may vary from state-to-state in accordance to your location. We are not responsible for providing any compliance certifications. Under no circumstances we shall not be liable for any incidental damage sustained in connection with this product. Neither manufacturer, nor distributor, nor retailer is responsible for water damage or flood caused by the usage of this product. Under no circumstances we shall not be liable for any and all fees, cost of installation/reinstallation/removal, subsequent damage or transportation costs in case of the product defect.

1. Working principle

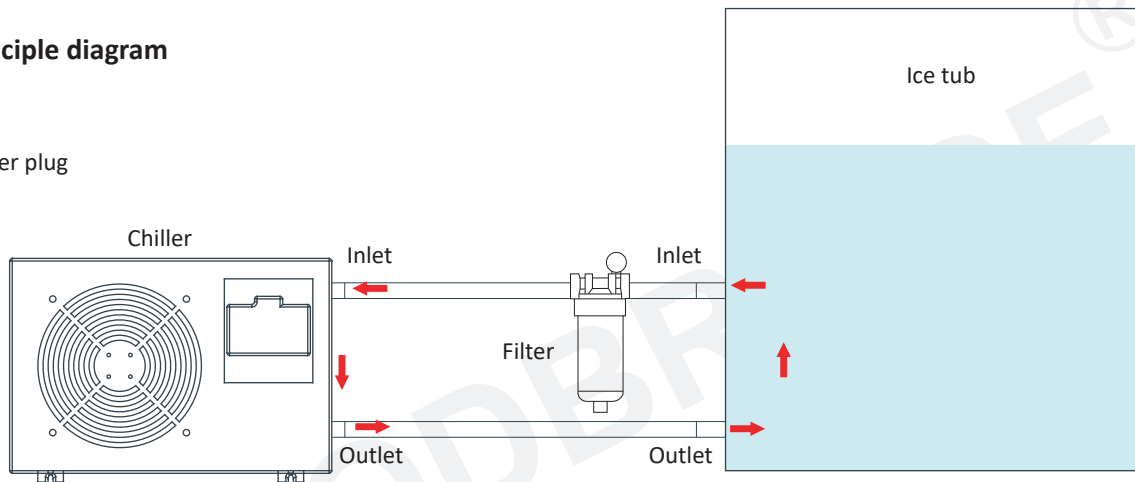
The chiller cools down the water with the compressor inside. Then, the water circulates back to the wooden tub to lower the temperature of the tub water. In certain models, the chiller can also warm up the water with its built-in heater.

Water Circulation: Wooden Tub -> Water Filter -> Chiller -> Wooden Tub -> Water Filter -> Chiller -> Wooden Tub -> Repeat

Note: Depending on the size of the tub and the environmental temperature, the tub water may take more than 15 minutes to increase or decrease 1 degree.

Principle diagram

Power plug



2. Installation Instruction

Chiller installation

- ① Install the chiller in a stable place to avoid the impact of water level backflow. The ice tub's inlet hole should be set to a higher level than the inlet of the chiller.
- ② Install the chiller in a clean place. Avoid too much debris gets into the tub to block the chiller system.
- ③ Install the chiller in a well-ventilated place to facilitate the exhaust of the chiller.

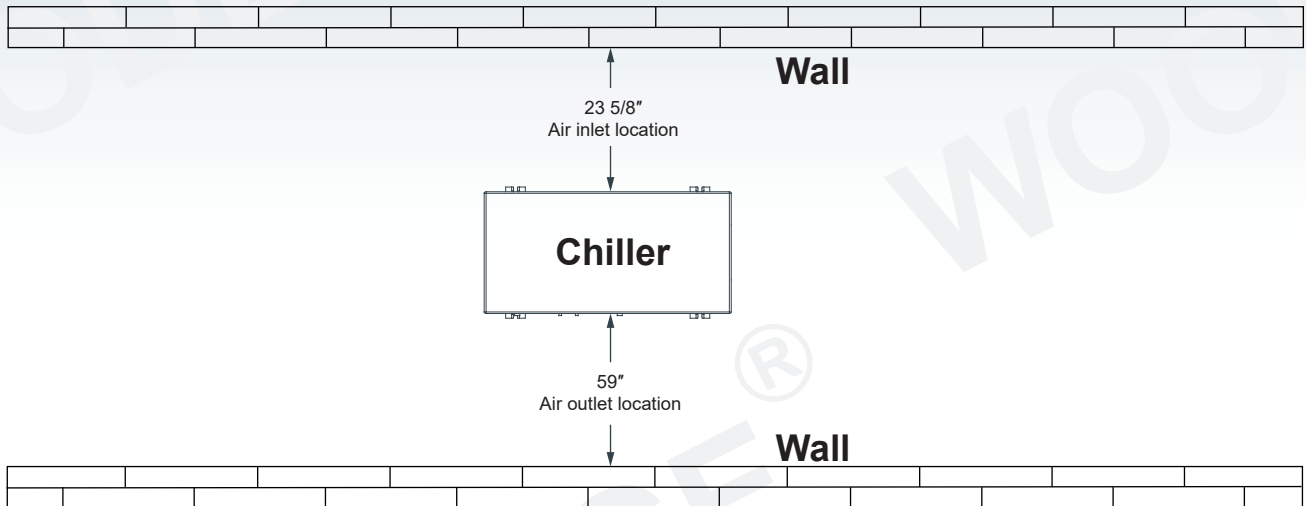


Hoses, chiller housing/pipelines, and tub exterior may have condensation. This is a natural phenomenon, caused by temperature difference.



1. Air inlet needs to be at least 23 5/8" away from solid obstacles, such as walls. Air outlet needs to be at least 59" away from solid obstacles (farther away the distance, less the noise is).
2. The distances mentioned above need to be strictly followed. The chiller cannot be too close to solid obstacles, such as walls. The operation of the chiller needs the air inlets and outlets. The air enters from the inlet side and comes out from the outlet side. Only when the air flow reaches a balanced circulation can the best cooling effect be reached.



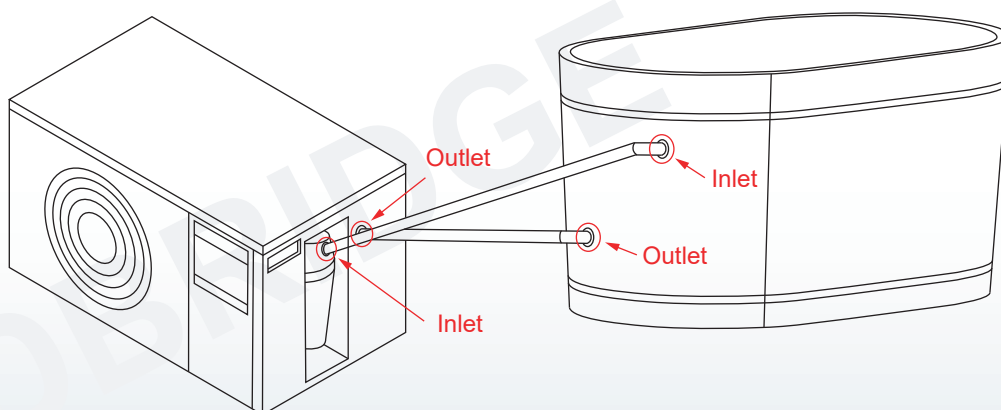


Chiller power distribution

- ① Please take safety precautions before powering any connections.
- ② Connection or replacement of wiring should comply with electrical specifications and should be performed by professionals.
- ③ Make sure the chiller voltage is consistent with the local supply voltage. The chiller is 110-120V.

3.Cold Plunge Usage

- ① Hoses connection
Connect the hoses as shown in the picture.



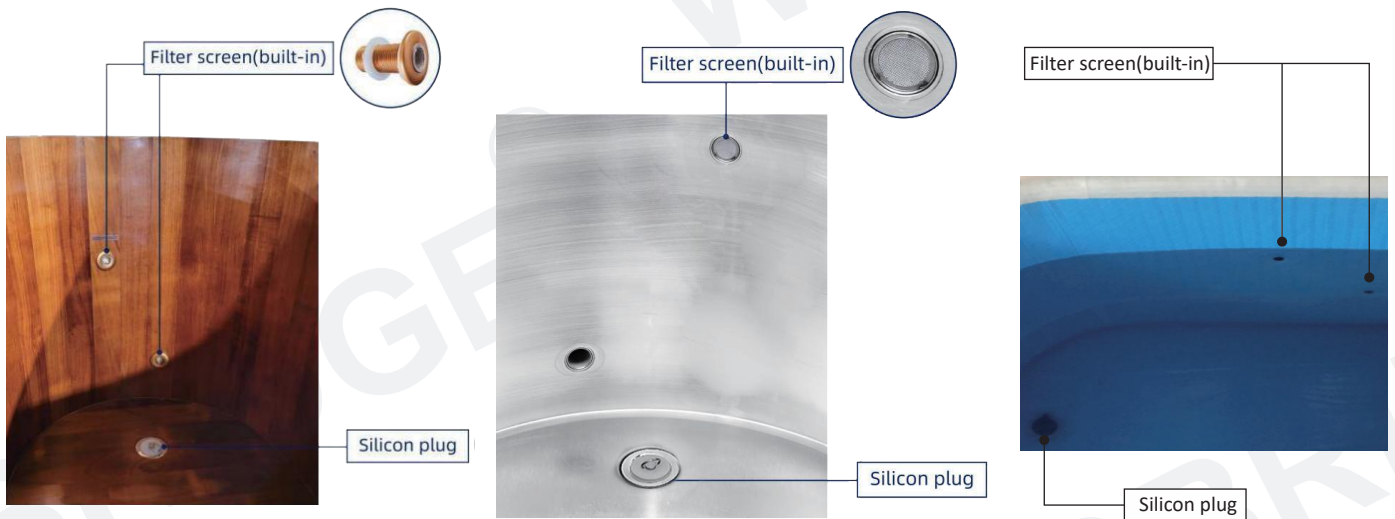
1. The cold plunge should be installed on a stable platform to avoid the influence of back flow of water level.
2. If the hoses are too narrow, they will affect the water flow and cause the chiller system to malfunction or underperform.
3. You need to find a suitable place for draining to avoid poor drainage of the cold plunge.
4. Please fill up the tub to above the minimum water level before use (higher than the water inlet and outlet inside the tub).



- ② Check and make sure the tub inlet is unobstructed (filter screen built-in) every time before usage. The water inlet should be kept unobstructed, and the tub is kept clean. (there should be no garbage)



Clean the tub filter screen (built-in) before use, It can help prevent small debris from going into the chiller. Regularly cleaning the tub filter screen can prolong the operational life of the chiller.



*These photos are for illustrative purposes and may not accurately represent the actual content due to the use of different materials and connectors.

③ Water filling

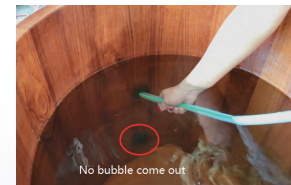
Start to fill water into the cold plunge with a water hose; Continue to inject water so that the water level is higher than the tub inlet and outlet.



- ④ Use a water hose to inject water DIRECTLY into the tub water inlet. Bubbles will be flushed out from the tub water outlet. This procedure will remove any air stuck in the chiller system.



- ⑤ Keep injecting water DIRECTLY into the tub water inlet until no more bubbles are coming out from the water outlet. This may take 2-3 minutes. When done, please remove the hose.



***Due to the varied materials used, these photos are for illustrative purposes and may not accurately represent the actual content.**

IMPORTANT: If the air is not flushed out of the chiller completely, the cooling/heating function of the chiller will be drastically reduced.



Warning: Please make sure the chiller is always running with water. Do not run the chiller without water. The chiller can only be turned on after the water level is higher than the minimum water level line (higher than the tub water inlet and outlet)

4. Parameter modification

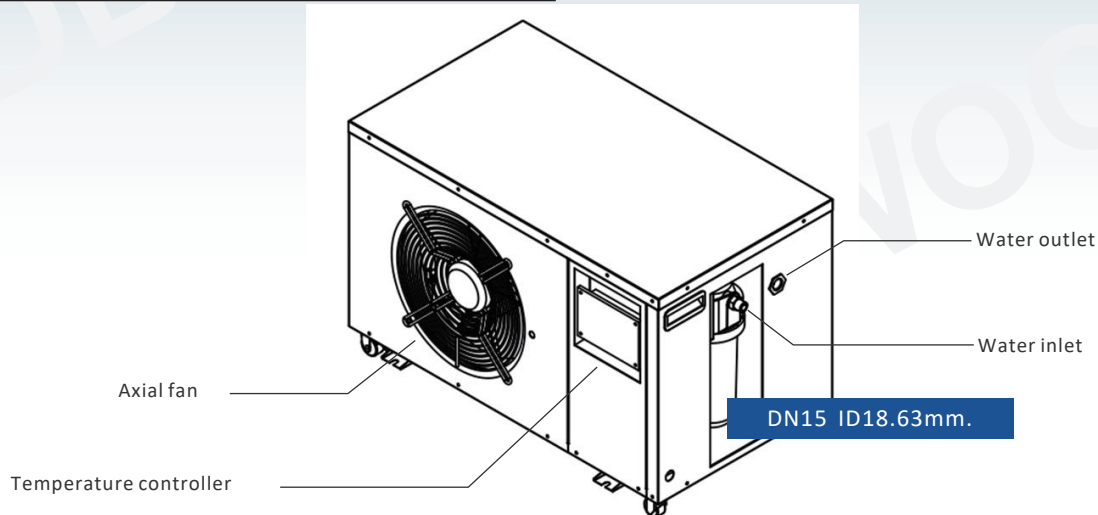
Press and hold (set key) for 5 seconds. When the nixie tube displays PD, press (up key) or (down key) to enter the correct password, and then press (set key) to confirm. After the password is correct, you can enter the menu.

Long press the SET key till it displays PD for parameter modifications, press UP or DOWN to enter the password and press SET to confirm.

Parameter List

Code	Menu Content	Range	Default	Company
F01	Temperature Return Difference	0.3~10	2	°C
F02	Temperature Correction	-5~5	0	°C
F03	Start Delay	1~5	3	min
F04	Menu Password	0~255	95	
F05	Defrost Time	1~45	3	min
F06	Defrost Cycle	10~240	60	min
F07	0: Celcius/ 1:Fahrenheit			
F08	Working mode	HC~C	HC	
F09	Heating mode	0~1	1	min
F10	Detection port shielding	OFF~ON	OFF	
F11	Upper Temperature Limit	-19~70	40	°C
F12	Lower Temperature Limit	70~19	0	°C
F13	Current Overload Protection	0~25	8	A
F14	Overload Delay Protection	2~29	10	sec
F15	Abnormal Temperature Alarm	0~8	0	°C
F16	O3/UV Sterilization	0~180	60	min

5. Overall Appearance And Size



Full range of product models and sizes

MODEL	9000BTU	12000BTU	18000BTU
Setting temperature range	0~40°C (Factory default 3°C)		
Filtration	Folded paper 30µm		
O-zone/UV	30~50mg/h		
Inflow/Outflow size	DN 15 Inner Thread		
Water pump type	Non-self priming		
Note: the above specifications may subject to change without prior notice.			

6. Electric Control Instruction






Front of Display



Key

Icon	name	Description
	Power Key	Press to power on/off the unit.
	Set Key	Press once to adjust the setting temperature. Press and long hold to enter the menu to modify the operating parameters.
	Up key	Used to adjust parameters upward.
	Down key	Used to adjust parameters downward.
	Sterilizer	Used to turn on/off the O3 /UV output

Indicator Light

Icon	name	Hengliang representative	Extinguish represents	Flashing representative
	Refrigeration lamp	Cooling	Stop refrigeration	Compressor is delaying
	constant temperature	Target temperature reached	Not at target temperature	
	Heating lamp	Heating in progress	Stop heating	Compressor is delaying
	Defrost lamp	Defrosting	Stop defrosting	Compressor is delaying
	Networking lamp	Connected to the Internet	Not connected to the Internet	In distribution network

7. Sterilizer

O-zone/UV

1. Must be turned off when taking a cold plunge.
2. Turns off automatically after 60mins of working. Can be turned back on manually.
3. Service life is around 3000 hours.
4. Due to the corrosiveness of ozone, please take note to replace any rubber hoses.



Filteration

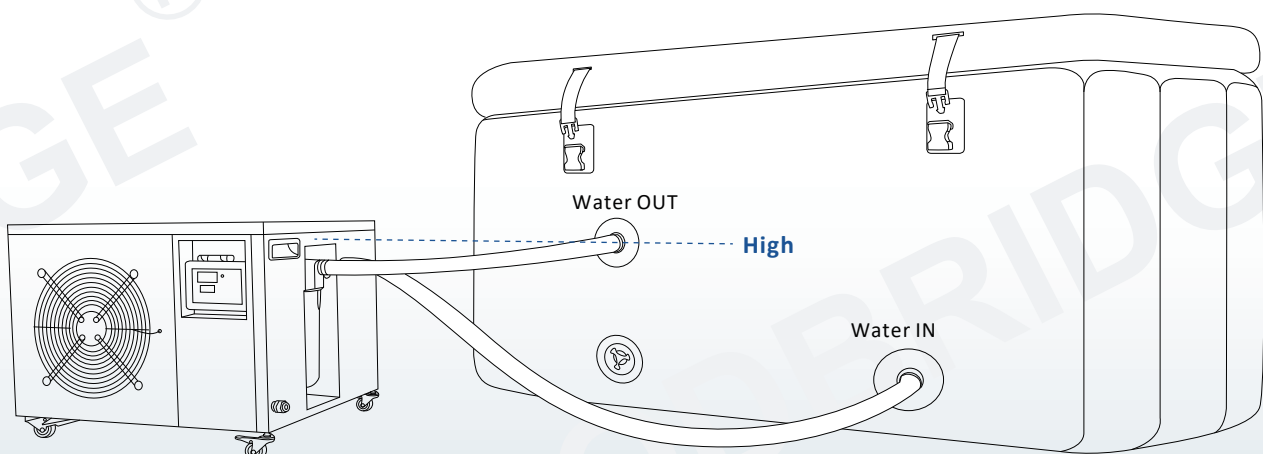
Suggested to replace filter every 3 months.

1. Use a wrench to unscrew the filter bottle;
 2. Remove the old filter and replace with a new one;
- Cap the bottle and make sure it's fastened.
4. Check for water leakage before the replacement is complete.



Installation Precaution

Warning: there is a built in non-self priming water pump at the filter. Ensure the filter is pre-filled with water before starting each time!



NEVER RUN THE PUMP DRY



Corrugated hose prohibited



**Hoses length ≤1.5m/5ft
Inner Diamter: DN15 or above**

FAQ:

① **Why has condensate water come out from the chiller?**

This is caused by temperature difference between the inside and outside of the chiller pipe system.

② **Why has smoke coming out from the chiller?**

When chiller is defrosting under the heater mode, it may generate smoke-like vapors. This is normal.

③ **The chiller has its own filter, so why is the water still turbid?**

The filter mainly filters hair, dandruff, etc. from entering the chiller system to ensure the normal operation of the chiller. If you want to achieve the purpose of purifying water, you can add flocculant and water purifier for clarification treatment.

④ **How to perform maintenance during extreme weather? How to prevent pipelines from freezing and breaking?**

It will need to blow out all the water in the pipes, and fill them with water again when starting up later. Because if has water inside the pipes, it will freezing and crack.

Filter Maintenance Suggestion

- ① Please clean the filter cartridge weekly or when it looks dirty
- ② Please replace the filter cartridge every 1-6 months based on usage.
- ③ Please replace the filter cartridge when the water flow is still slow after cleaning the filter cartridge.



1. Use a wrench to unscrew the filter container and remove the old filter cartridge

2. Unpack the new filter cartridge and place it to the bottom of the filter container

3. Close the filter container and fasten with a wrench

4. Check for water leakage before the replacement is complete



KEEP OUT OF REACH
OF CHILDREN



Useful Tips

1. It is normal to have condensations on the hoses, chiller housing cover, or around the tub. The condensations happen when these tub/chiller parts are colder than the air around.
2. The fan in the chiller starts running 3 minutes after the machine operation is normal.
3. A noise level of around 55 decibels is normal.
4. When the temperature reaches the target value, the cooling compressor will stop. The water circulation pump continues to run is normal.
5. A one-to-two-degree temperature differences between the control panel display and the actual tub water is normal.
6. This tub equips with an ozone sanitizer. Please let it run for 30-60 minutes after taking a bath. It helps to prevent Biofilm under moderate use. However, please change the water frequently or use a spa water maintenance device for best result. (Please refer to the "Water Maintenance" section.)
7. Due to the natural characteristics of solid wood, if it is not used for a long time or due to temperature changes, the wood may expand and contract due to heat and cold. This may cause small leaks at the bottom of the tub, if such a leak happens, please use the repair kit to re-seal the tub according to the repair methods in the manual.
8. When using the heater function, you may see smoke-like vapors coming out of the chiller. This is part of the defrosting process and is normal.
9. A set of repair kit is included for touch up and repair. If the repair and patch job don't fix the leakage, please email help@woodbridgebath.com for further assistance.
10. Extra water filter cartridges are included. Please replace the cartridge whenever the water flow is still weak after cleaning the cartridge. Email help@woodbridgebath.com to order more replacement filter cartridges if needed.



IMPORTANT!

DO NOT USE: Abrasive cleaners such as: acid, ammonia, bleach, and similar solutions. Use of such solutions may cause corrosion, finish peeling, and/or dull the surface.

DO NOT USE: Abrasive sponges or cloth. Never use steel, wool, or wired brushes that will permanently scratch

Retain these installation instructions for future reference!

Thank you for using WOODBRIDGE products!

WOODBRIDGE®

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Please don't hesitate to contact us if you have any questions or concerns.

Customer Service Phone: 562-229-0088. (Monday - Friday 9 AM - 5 PM Pacific Time)

Or Email: help@woodbridgebath.com

