

accucold®



WARMING CABINET
PERFORMANCE WARMER

BLANKET WARMER

Models

AWC2PB

AWC6PB

AWC12PB

User Manual

BEFORE USE, PLEASE READ AND FOLLOW ALL SAFETY RULES AND OPERATINGINSTRUCTIONS

*Write Model and Serial Numbers
here:*

Model: _____

Serial No.: _____

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IMPORTANT SAFEGUARDS

Your safety and the safety of others are very important to us. We have provided several important safety messages in this manual. Read all safety messages and always obey them when operating this appliance. Serious injury or even death may result if you do not follow these instructions.



To reduce the risk of fire, electric shock, or injury when using this appliance, follow these basic precautions:

- Use two or more people to move and install this appliance.
- Plug into a grounded 3-prong outlet.
- Do not remove the grounding prong or use a 3/2 adapter.
- For free-standing installation, allow at least 5 inches (127mm) of space between the back, top, and sides of the unit. For recessed or built-in installation (units with “XX” in the model number), leave an air gap of at least 1 inch (25.4 mm) on each side and top and 2 inches (51mm) at the rear.
- Use care not to plug into outlets controlled by wall switches.
- Disconnect power before servicing.
- After service, replace all parts and panels before operating.
- Do not store or use gasoline or other flammable items in the area of this or any appliance, as the fumes can create a fire hazard or explosion.
- Use nonflammable cleaners.
- Never unplug your appliance by pulling on the power cord. Always grip the plug firmly and pull straight out from the socket.
- Be careful not to roll over or damage the cord when moving the appliance.
- Do not pinch, knot, or bend the power cord in any manner.
- 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.
- Unplug the appliance before making repairs or cleaning.
- To prevent injury or damage, any repairs or adjustments should be done by only a qualified technician. In particular, do not attempt to remove the control panel, since this could result in electric shock.
- This appliance is not meant to exceed a temperature of 160°F (71°C). Do not raise the set temperature in an attempt to increase the rate of heating. Allow several hours for the content of the cabinet to reach the desired temperature.
- Be aware that the temperature of the contents of the BLANKET WARMER may be higher than the displayed temperature. Always check the temperature of the heated blankets and towels before using.

DANGER: Risk of Child Entrapment!

Child entrapment and suffocation are not problems of the past. Junked or abandoned appliances are still dangerous, even if they will “just sit in the garage a few days”.












Before Discarding your Appliance:

Remove the door.

Leave the shelves in place so that children may not easily climb inside.

Warnings and Cautions

The following is a list identifying the various warning and caution icons used in this manual.

Icon Type	Icon	Description
Warnings		Red triangle with an exclamation point indicates the potential for minor to severe injuries up to and including death to personnel.
Cautions	 	(Yellow triangle with an exclamation point) indicates the potential for minor injury to personnel and damage to equipment. Note: The exclamation point will not be visible where only equipment damage is present.
Burn Hazard Warnings		(Yellow triangle with radiating lines) indicates a potential burn injury to personnel. Sign ISO 7010-W018 ENCLOSURE
Electrical Warnings		(Yellow triangle with a lightning bolt) indicates a possible shock hazard is present. Severe shock hazards shall be a lightning bolt in a red triangle.
Explosion Hazard		(Yellow triangle with the explosion icon) indicates the equipment should not be operated in areas where explosions could occur.
Fire Hazard		(Yellow triangle with the flame icon) indicates the warning cabinet should not be loaded with materials or liquids that are flammable or used in the presence of flammable anesthetics or solvents.
Read carefully		Refer to instruction manual/ booklet NOTE On ME EQUIPMENT "Follow instructions for use"
		Read Instructions
No Pushing		Pushing products creates risk of instability
No sitting		No sitting on the product

The following is a list of safety precautions that must be observed when operating this equipment.

INTENDED USE

- **Intended use:** It is mainly used for heating towels or blankets in medical and health departments, scientific research departments, hospitals, laboratories, pharmaceutical factories and clinics.
- **Applicable people:** Ward, operating room, injection room, emergency room, imaging department, etc.



Warning - Injury Hazard

Repairs and adjustments should be attempted only by experienced service representatives. Use of unqualified persons to work on this equipment could result in personal injury or costly damage.



Warning - Burn Hazard

- **DO NOT** use in the presence of flammable anesthetics.
- **DO NOT** heat liquids in the presence of flammable solvents.
- Failure to observe this warning can result in severe personal injury and even death.



Warning - Burn Hazard

- **DO NOT** exceed 150°F (65.56°C) for non-vented closures (screw caps, crimp seals, plastic pouches, etc.). Do not exceed pre-sterile solution manufacturer's temperature requirements.
- **DO NOT** raise set temperature to increase rate of heating. Allow approximately 4-6 hours for solutions to reach desired temperature.
- **DO NOT** use liquids on or inject into living tissue, unless actual liquid temperature has been measured and is acceptable. Temperature of the blanket warmer's contents may be hotter than the displayed air temperature. For patient safety, in accordance with good medical practice, always check liquid temperature prior to using.



Warning - Electric Shock Hazard

- **DO NOT** remove control tray. Contact a qualified service representative. Some of the troubleshooting procedures can require access to live electrical circuitry. Dangerous accidental contact with line voltage is possible. Only qualified service personnel should be allowed to perform these procedures.



Warning - Explosion Hazard or Fire Hazard

- **DO NOT** warm flammable materials or liquids.
- **DO NOT** use in the presence of flammable anesthetics.
- **DO NOT** heat liquids in the presence of flammable solvents.



Caution - Possible Equipment Damage

Some items are not acceptable in these blanket warmers. If in doubt as to whether an item can be safely processed, have the facility supervisor contact the manufacturer of the item.



Caution: Repairs and Adjustments

Should only be attempted by experienced service personnel who are fully acquainted with this equipment. Use of unqualified or inexperienced personnel to work on the equipment, or the installation of unauthorized parts, could result in serious personal injury, or result in costly damage. Always unplug power cord from power source before attempting any repairs or servicing of this equipment.

-SAVE THESE INSTRUCTIONS -

INSTALLATION

Before Using the Blanket Warmer

- Remove the exterior and interior packaging.
- Check to be sure the shelves are installed and that the strips of tape holding them in place have been removed.
- Level the appliance with the adjustable legs provided.
- Clean the interior surfaces with lukewarm water using a soft cloth. Any plastic odor that you notice when you first open the doors will dissipate once the appliance is operating.

Installing the Appliance

- For free-standing installation, allow at least **5 inches (127mm)** of space between the **back, top, and sides** of the unit. Place your appliance on a floor that is strong enough to support it when it is fully loaded.
- Leveling the Appliance:
 - **AWC6PB & AWC12PB:** Secure the blanket warmer by operating the foot brake of the universal wheel.
 - **AWC2PB:** Level your blanket warmer by adjusting the legs at the front.

- Leave at least **2 inches (50mm)** of space between the back of the unit and the wall behind, which allows for proper air circulation.
- Plug the unit into a 120V AC 60Hz electrical source. The fuse or circuit breaker should be rated for 15 amperes. The unit is designed to be used in a stable environment where the ideal ambient temperature is **72°F (23.89°C)** or less. Extremely warm or cold ambient temperatures may cause the appliance to perform improperly.
- Avoid placing the blanket warmer in moist areas. This appliance is equipped with a three-prong plug and is grounded to eliminate electrical hazards. In order to make it effective, the unit must be plugged into a grounded electrical outlet. A short power-supply cord (or short detachable power-supply cord) is provided to reduce risk resulting from becoming entangled in or tripping over a longer cord. Extension cords (or longer detachable power-supply cord) are available and may be used if care is exercised in their use.
- If an extension cord (or a long detachable power-supply cord) is used:
 - The marked electrical rating of the detachable power-supply cord or extension cord should be at least as great as the electrical rating of the appliance.
 - If the appliance is of grounded type, the extension cord should be a grounding type 3-wire cord; and the cord should be arranged so that it will not drape over the countertop or tabletop where it can be tripped over, snagged, or pulled on unintentionally (especially by children).

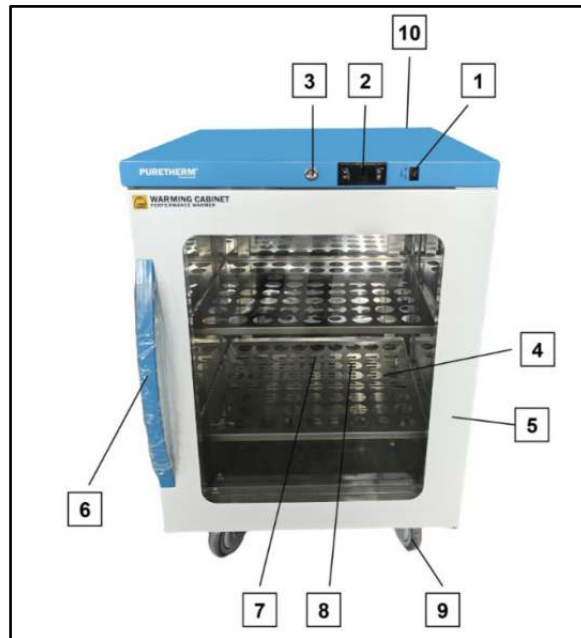
Reversing the Door Swing

Note: The door reversal option is not available on all models.

Most of the blanket warmer's doors can be hinged on either side, allowing the door swing to be adjusted based on the installation location. To reverse the position of the door hinges, follow the steps below:

1. Lay the blanket warmer onto its backside, carefully set it on a blanket or a soft surface.
2. Remove the screws on the bottom hinge, remove it then set aside.
3. Slide the door downward, carefully remove the door pin attaching the door to the upper hinge.
4. Set the door aside.
5. Remove the screws holding the upper hinge to the unit.
6. Remove the hinge covers from the opposite side of the cabinet.
7. Move the upper hinge to the opposite of the cabinet and tighten with screws.
8. Replace the door pin on the opposite side of the door and slide the door pin into the upper hinge.
9. Rest the door against the unit and attach the lower hinge to the cabinet and door.
10. If the door is not hanging straight, loosen the top hinge, adjust the door until it is properly aligned, and then retighten the screws.

LOCATION OF PARTS OF BLANKET WARMER



This list shows the main elements of a blanket warmer.

1. Light switch
2. Thermostat
3. Lock
4. Shelf (SS)
5. Door body
6. Handle
7. Heating system cover
8. Quartz heating tube
9. Casters
10. Dry contacts (located in rear)

SPECIFICATION

Model	AWC2PB	AWC6PB	AWC12PB
Working Temperature	50°F – 104°F (10°C – 40°C) / 30% – 85% RH		
Operating Temperature	90°F - 130°F (32.2°C - 54.4°C)		
Altitude	Up to 2000M		
Transport Temperature	5°F – 122°F (-15°C – 50°C) / 800 hPa – 1060 hPa		
Storage Temperature	90°F - 130°F (32.2°C - 54.4°C)		
Capacity	96	148	355
Rated Voltage	AC110V		
Mains Fluctuations	±10%		
Frequency	60Hz		
Rated Current	2.0 A	2.0 A	3.4 A
Lamp Power	8W	8W	8W
Power	200W	200W	350W
Shelf Load	44 lbs (20kg) each		
Pollution Degree	2		
Product Dimensions (W*D*H)	23.43" x 26.57" x 4.92" 595 x 675 x 633	23.43" x 24.80" x 35.43" 595 x 630 x 900	23.43" x 24.80" x 67.09" 595*630*1705
Refrigerator of Net Weight	70.55 lbs (32kg)	104.72 lbs (47.5kg)	185.2 lbs (84kg)
Vesicant	Cyclopentane		

OPERATION

NOTE: This appliance is designed to heat towels and blankets to temperatures of up to **130°F (54.4°C)**. The process of heating the contents from an ambient room temperature of **72°F (22.2°C)** to **130°F (54.4°C)** can take an average of 4 hours, depending on the amount of contents. When loading items into the cabinet for heating, be sure there is a minimum of 1" of space between the items and the walls to allow for proper circulation of air.

Loading the Warning Cabinet: Place the articles to be warmed into the cabinet and close the door. Items may be stacked, but be sure adequate space is left for air circulation, as noted above. Ensure the door is closed securely.

CAUTION: DO NOT store blankets on the bottom shelf on the unit. Blankets stored here will block the heating module and affect the performance of the unit.

Turning on the Blanket Warmer

Operation Sequence:

1. The temperature controller will light up and display the blanket warmer temperature.
2. The heating element will turn on, as indicated by the red indicator light on the control panel. It will cycle on and off with the heating element.
3. The temperature will gradually increase from the ambient room temperature of 72°F (22.2°C) to the factory setpoint of 130°F (54.4°C).

Note: The LED display on the control panel normally shows the cabinet temperature. When the cabinet reaches 130°F (54.4°C), the heating element will turn off (the red light goes out). It will turn on again when the cabinet's temperature drops by 2-3°F. This condition will continue until the equipment is:

- a. Turned off intentionally
- b. Some internal or external factor causes the current to exceed 15 amperes, in which case the circuit breaker will trip off.

When operating correctly, the unit will always maintain temperatures within two degrees of its set point (factory set at 130°F).

Reducing the Set Point Temperature

The operating temperature is factory-set to 130°F (54.4°C), but you can reduce this Set Point by following this procedure:

1. Press and release the **SET** button. The display temperature will flash.
2. Press either the **UP** or **DOWN** arrow on the control panel to reach the desired set point temperature.

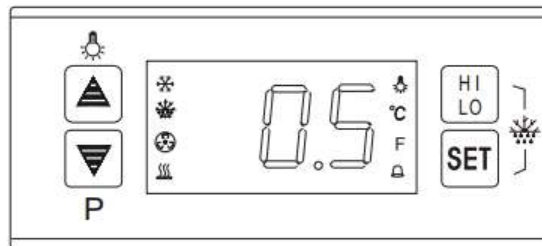
Increasing the Set Point Temperature

The temperature range for this unit is factory set from 90°F - 130°F (32.2°C - 54.4°C).

NOTE: To set the temperature above 130°F, please contact Technical Support for assistance at **800-932-4267 (Ext. 513)** between 9:00 AM and 5:00 PM ET

OPERATION-Digital Temperature Controller

This section explains how to operate your unit. For more detailed instructions on changing the parameters of the control panel.



Adjusting the Operating Temperature

Heating LED:

The heating LED turns on during the heating process and turns off when the device reaches a constant temperature.

Parameter Setup

1. Press and hold the **SET** button for 6 seconds to enter the parameter settings (the display will flash PAS).
2. Enter the password (factory set to 15).
3. Press the **SET** button (the display will show E1, E2...~CF, PAS in sequence).
4. Press the **▲** or **▼** button, the value of parameter will be displayed and can be modified and stored.

If no more buttons are pressed within 6 seconds, it will exit and store the new value.

Note: To adjust the parameter values, you must enter the correct password in the inner parameter menu (displayed as PAS). If the wrong password is entered, the system will exit the parameter modification screen and the set temperature adjustment will remain the same. If the password is forgotten, please contact Technical Support for assistance at 800-932-4267 (Ext. 513) between 9:00 AM and 5:00 PM ET.

Highest and Lowest Temperature Record

After the power is turned on and the C5 delay has elapsed, the system will begin to record the highest and lowest temperatures and can be refreshed at any time. The highest and lowest temperature values reached are saved to memory every 5 minutes. These values are recorded even after a power failure.

To View the Records:

- Press **HI/LO** to display the highest temperature.
- Press **HI/LO** again to display the lowest temperature.

To Clear the Records:

Press and hold the **HI/LO** button for 6 seconds. A beep will sound, and the current temperature will flash on the display for 3 seconds. The previous high and low temperature records will be cleared and updated to the current cold room temperature, restarting the recording process.

NOTE: The highest and lowest temperatures are not recorded when the probe fails.

Changing the Controller Password

The password value can only be viewed or changed after the correct password is entered when entering the internal parameter menu (displaying PAS). After entering the internal parameter PAS, press to display and change the password, and then press to confirm and store the new password.

Parameter	Function	Set range	Default
PAS	Password	00~50~99	15
E1	Lower set point limit	20.0°C 68.0°F ~ Set temp.	32.2°C 90.0°F
E2	Higher set point limit	100°C set temp. ~ 212°F	54.4°C 130°F
E3	Temp. Hysteresis	0.1~20.0°C 0.2~36.0°F	0.5°C 0.9°F
E5	Offset on room temp.	-10.0~10.0°C -18.0~18.0°F	-1.0°C -1.8°F
C1	Cold room high temp. Alarm	C2~ 120°C 248°F	63.3°C 146°F
C2	Cold room low temp. Alarm	0.0°C ~C1 32.0°F	26.7°C 80.0°F
C4	Alarm hysteresis	0.1~20.0°C 0.2~36.0°F	1.0°C 1.8°F
C5	Starting up temp. Alarm delay	00~99min	60min
C6	Temp. Alarm delay	00~99min	0min
C7	Power off relay alarm	00=do not alarm 01=alarm	01
Parameter	Function	Set range	Default
C8	Alarm relay close after muffle, alarm relay switch	00=open 01=close	00
C9	Restart time after buzzer mute	00=do not restart 01~30min=restart time	10min
C12	Alarm output type	00=cnoctact actuation when alarm 01=contact disconnect when alarm	01
A0	Display Mode	00 = Display set temp. 01 = Display cold room temp.	01
A1	Temperature control mode	00 = Hysteresis control mode 01 = PID control mode	01
LP	Proportion	01~120	15
LI	Integral	01~120	01
LD	Differential	01~120	20
LC	Sampling period time	01~60S	01S
dor	Door switch mode	00= Door opening contact is closed 01= Door opening contact is disconnected	01
do1	Door open alarm	00=do not alarm 01~99min delay alarm	02min
CF	Temperature Units	°C=Celsius °F=Fahrenheit	F°

Summary of Alarm Types

Alarm Type	Heater Operating Condition	Display Flash
Product temperature high temp.	Heating stop	H1 delay alarm
Product temperature low temp.	Heat up the opening	L0 delay alarm
Air temp. sensor short-circuited	Heating stop	1H in time alarm
Air temp. sensor open-circuited	Heating stop	1L in time alarm
Electric supply off alarm	Stop all output	EEL flash and alarm in time
Door open delay alarm	Heating stop	Dr flash and delay alarm

CLEANING AND MAINTENANCE

1. **Unplug the Appliance:** Unplug the appliance and remove all contents.
2. **Interior Cleaning:**
 - Wash the interior liner with a solution of warm water and baking soda (two tablespoons per quart).
 - Then rinse and wipe it clean.
 - **Important:** Do not use soaps, detergents, scouring powders, spray cleaners, or similar products on the liner, as these may cause odors in the cabinet.
3. **Shelves:**
 - Wash the shelves with a mild detergent solution and dry them with a soft cloth.
4. **Exterior Cleaning:**
 - Wipe the exterior surface with a soft cloth dampened with soapy water, then dry with a soft cloth.
 - A spray appliance cleaner may be used for the exterior only.
5. **Door Gasket:**
 - Use only lukewarm soapy water to clean the door gasket.

Caution:

- Never use acids, chemical thinners, gasoline, benzene, or similar substances for cleaning any part of the appliance.
- **Important:** Boiling water and chemicals like benzene may deform or damage plastic parts.

Extended Downtime

If the appliance will not be used for several months, empty it, and unplug the power cord. Clean and dry the interior thoroughly. To prevent odor and mold growth, leave the door open slightly, blocking it open if necessary.

Moving Your Appliance

Remove or securely tape down all loose items inside the blanket warmer. Tape the door shut. Be sure the appliance is kept in the upright position during transportation. Also protect the outside of the appliance with a blanket or similar item.

Energy-Saving Tips

To allow proper air circulation, keep a space around the walls and fan when loading the cabinet. Add or remove as many items as needed at one time and close the door as soon as possible.

Preventive Maintenance

Twice a year, place a thermometer near the fan inlet of the cabinet in order to check the accuracy of the temperature setting. The actual temperature should be within plus or minus 3 Fahrenheit degrees of the set temperature.

TROUBLESHOOTING

You can easily solve many common problems with your appliance, saving you the cost of a possible service call. Try the suggestions below to see if you can solve the problem before calling a service technician.

Problem	Possible Cause	Solution
The appliance is not heating up.	<ul style="list-style-type: none">• Appliance is not plugged in, or power is turned off.• Fuse has blown.• Door is not securely closed.	<ul style="list-style-type: none">• Plug the appliance into a working outlet and ensure the power is turned on.• Replace the blown fuse.• Ensure the door is properly closed and check for any obstructions or damaged seals.
Appliance turns on but does not reach the set temperature.	<ul style="list-style-type: none">• Possibly due to environmental factors or initial startup conditions.	<ul style="list-style-type: none">• Allow up to several hours of operating time for the unit to come to temperature.
The door will not close properly.	<ul style="list-style-type: none">• The appliance is not level.• The door was reversed and not properly re-installed.• The gasket is dirty.• The shelves are out of position.	<ul style="list-style-type: none">• Ensure the appliance is on a flat surface and adjust the feet if needed.• Reinstall the door correctly according to the manufacturer's instructions.• Clean the gasket.• Rearrange the shelves to ensure they are properly aligned.

If you continue to experience issues, contact Accucold's technical support department at **1-888-4-MEDLAB** or visit our website <https://www.accucold.com/support>

NOTES

WARRANTY

TWO YEAR LIMITED WARRANTY

Within the 48 contiguous United States, for two years from the date of purchase, when this appliance is operated and maintained according to instructions attached to or furnished with the product, warrantor will pay for factory-specified parts and repair labor to correct defects in materials or workmanship. Service must be provided by a designated service company. Outside the 48 states, all parts are warranted for two years from manufacturing defects. Plastic parts, shelves and cabinets are warranted to be manufactured to commercially acceptable standards and are not covered from damage during handling or breakage.

ITEMS WARRANTOR WILL NOT PAY FOR:

1. Service calls to correct the installation of your appliance, to instruct you how to use your appliance, to replace or repair fuses or to correct wiring or plumbing.
2. Service calls to repair or replace appliance light bulbs or broken shelves. Consumable parts (such as filters) are excluded from warranty coverage.
3. Damage resulting from accident, alteration, misuse, abuse, fire, flood, acts of God, improper installation, installation not in accordance with electrical or plumbing codes, or use of products not approved by warrantor.
4. Replacement parts or repair labor costs for units operated outside the United States.
5. Repairs to parts or systems resulting from unauthorized modifications made to the appliance.
6. Expenses for travel and transportation for product service in remote locations.
7. The removal and reinstallation of your appliance if it is installed in an inaccessible location or is not installed in accordance with published installation instructions.

DISCLAIMER OF IMPLIED WARRANTIES – LIMITATION OF REMEDIES

CUSTOMER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIRS PROVIDED HEREIN. IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR. WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR LIMITATIONS ON THE DURATION OF IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS, SO THESE EXCLUSIONS OR LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

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Revised May 2025