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accucold ARG8PVFS30LSTACKMED2 Counter Depth Top Freezer Refrigerator User Manual

Contents

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EQUIPMENT SAFETY

Your safety and the safety of others are very important. We have provided many important safety messages in this manual and on your unit. Always read and obey all safety messages. This is the Safety Alert Symbol. The symbol alerts you to potential hazards that can kill or injure you and others. All safety messages will follow the Safety Alert Symbol and either the words "DANGER" or "WARNING".

DANGER means that failure to heed this safety statement may result in severe personal injury or death.
WARNING means that failure to heed this safety statement may result in extensive product damage, serious personal injury, or death. All safety messages will alert you about the potential hazards, tell you how to reduce the chance of injury, and let you know what can happen if the instructions are not followed.

EQUIPMENT SAFETY

Before the equipment is used, it must be properly positioned and installed as described in this manual, so read the manual carefully. To reduce the risk of fire, electrical shock or injury when using this equipment, follow basic precautions, including the following

- Plug into a grounded 3-prong outlet, do not remove the grounding prong, do not use an adapter, and do not use an extension cord.
- Replace all panels before operating.
- It is recommended that a separate circuit serving only your unit be provided. Use receptacles that cannot be turned off by a switch or pull chain.
- Never clean the equipment parts with flammable fluids. These fumes can create a fire hazard or explosion.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other pieces of equipment. The fumes can create a fire hazard or explosion.
- Before proceeding with cleaning and maintenance operations, make sure the power line of the unit is disconnected.
- Do not connect or disconnect the electric plug when your hands are wet.
- Unplug the unit or disconnect the power before cleaning or servicing. Failure to do so can result in electrical shock or death.
- Do not attempt to repair or replace any part of your unit unless it is specifically recommended in this manual. All other servicing should be referred to a qualified technician.
- These units are CFC- and HFC-free and contain a small quantity of Isobutane (R600a), and the ARS18PV and ARG18PV are CFC- and HFC-free and contain a small quantity of propane (R290). Both are environmentally friendly but flammable. They do not damage the ozone layer, nor do they increase the greenhouse effect. Care must be taken during transportation and setting up of a unit so that no parts of the cooling system are damaged. Leaking coolant can ignite and may damage the eyes.
- In the event of any damage:
    - Avoid open flames and anything that creates a spark,
    - Disconnect from the electrical power line,
    - Air the room in which the unit is isolated for several minutes, and Contact the Service Department for advice.
- The more coolant there is in a unit, the larger the room it should be installed in. In the event of a leakage, if the unit is in a small room, there is the danger of combustible gases building up. For every ounce of coolant, at least 325 cubic feet of room space is required. The amount of coolant in the unit is stated on the data plate inside the unit. It is hazardous for anyone other than an Authorized Service Person to carry out servicing or repairs to this piece of equipment.
- Take serious care when handling, moving, and using the unit to avoid either damaging the refrigerant tubing or increasing the risk of a leak.
- Replacing component parts and servicing shall be done by factory-authorized service personnel so as to minimize the risk of possible ignition due to incorrect parts or improper service.

WARNING

FOLLOW WARNING CALLOUTS BELOW ONLY WHEN APPLICABLE TO YOUR MODEL

- Use two or more people to move and install the unit. Failure to do so can result in back or other injury.
- To ensure proper ventilation for your unit, the front of the unit must be completely unobstructed. Choose a well-ventilated area with temperatures above 60°F (16°C) and below 90°F (32°C). [For optimal performance, install the unit where the ambient temperature is between 72º and 78ºF (23º-26ºC).] This unit must be installed in an area protected from the elements, such as wind, rain, water spray or drips.
- The unit should not be located next to ovens, grills or other sources of high heat.
- The unit must be installed with all electrical, water, and drain connections in accordance with state and local codes. A standard electrical supply (115 V AC only, 60 Hz), properly grounded in accordance with the National Electrical Code and local codes and ordinances, is required.
- Do not kink or pinch the power supply cord of the unit.
- The size of the fuse (or circuit breaker) should be 15 amperes.

- It is important that the equipment be leveled in order to work properly. You may need to make several adjustments to level it.
- All installations must be in accordance with local plumbing code requirements.
- Make certain that the pipes are not pinched, kinked or damaged during installation.
- Check for leaks after connection.
- Never allow children to operate, play with or crawl inside the unit.
- Do not use solvent-based cleaning agents or abrasives on the interior. These cleaners may damage or discolor the interior.
- Use this equipment only for its intended purpose as described in this Instruction Manual.
- Keep fingers out of the "pinch point" areas. Clearances between the door and cabinet are necessarily small. Be careful closing the door when children are in the area.

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 old refrigerator:

- Take off the doors
- Leave the shelves in place so that children may not easily climb inside.

INSTALLATION INSTRUCTIONS

Before Using your Equipment
Remove the exterior and interior packing.
CAUTION: After unpacking you MUST allow this unit to stand upright for at least 2 hours to allow the lubricant and refrigerant to drain back into the compressor and stabilize. Failure to do so may adversely affect performance and the lifetime of this unit. Clean the interior surface with lukewarm water using a soft cloth.

Installation of your Equipment

NOTE: Do not store or install the unit outdoors. Units with BI in their suffix are designed to be built-in or recessed installation. The rest of the units listed in this manual are designed for freestanding use. All models are for indoor use only.

CAUTION: This equipment is designed for the storage of medicine or other medical products. Do not store beverages or perishable food in this unit.

- Place the refrigerator on a floor that is strong enough to support it when it is fully loaded. To level the unit, adjust the front leveling legs.
- For free-standing installation, allow at least 5 inches (127mm) of space between the back, top, and sides of the unit.
- This allows the proper air circulation to cool the compressor and condenser for energy saving.
- Even for recessed or built-in installation (units with "BI" in the model number), it is a must to keep ¼" (6.35mm) of space on each side, and 2" (51mm) on the top and at the rear.
- The air vent at the front of the unit must never be covered or blocked in any way.

NOTE: It is recommended that you do not install the unit near an oven, radiator, or other heating source. Direct sunlight may affect the acrylic coating and heat sources may increase electrical consumption. Don't install in a

location where the temperature will fall below 60°F (16°C). For best performance, do not install the unit behind a cabinet door or block the base grille.

- Avoid locating the unit in moist areas.
- Plug the unit into an exclusive, properly grounded wall outlet. Do not under any circumstances cut or remove the third (ground) prong from the power cord. Any questions concerning power and/or grounding should be directed toward a certified electrician or an authorized service center.

Electrical connection

This unit should be properly grounded for your safety. The power cord of this unit is equipped with a three-prong plug which mates with standard three-prong wall outlets to minimize the possibility of electrical shock. Do not under any circumstances cut or remove the third (ground) prong from the power cord supplied. For personal safety, this equipment must be properly grounded. This unit requires a standard 115/120 Volt AC ~ 60Hz three-prong grounded electrical outlet. Have the wall outlet and circuit checked by a qualified electrician to make sure the outlet is properly grounded. When a standard 2-prong wall outlet is encountered, it is your responsibility and obligation to have it replaced with a properly grounded 3-prong wall outlet. To prevent accidental injury, the cord should be secured behind the unit and not left exposed or dangling.

The unit should always be plugged into its own individual electrical outlet which has a voltage rating that matches the rating label on the unit. This provides the best performance and also prevents overloading house wiring circuits that could cause a fire hazard from overheating. Never unplug the unit by pulling on the power cord. Always grip the plug firmly and pull straight out from the receptacle. Repair or replace immediately all power cords that have become frayed or otherwise damaged. Do not use a cord that shows cracks or abrasion damage along its length or at either end. When moving the equipment, be careful not to damage the power cord.

Electrical connection

Because of potential safety hazards under certain conditions, it is strongly recommended that you do not use an extension cord with this equipment. However, if you must use an extension cord it is absolutely necessary that it be a UL/CUL-Listed, 3-wire grounding type equipment extension cord having a grounding type plug and outlet and that the electrical rating of the cord be 115 volts and at least 10 amperes.

Reversing the Door
Unless ordered with the option "LHD," your unit has shipped with a right-hand self-closing door swing. If you wish to reverse the door to open from the opposite direction, follow the steps listed below.
NOTE: Doors on units certified to NSF/ANSI 456 or with "DL2B" factory-installed data loggers are factory-reversible only and cannot be changed in the field.

1. Carefully lay the unit on its back and remove the two front leveling legs
2. Remove the two hex head screws that connect the door hinges to the body on the bottom of the unit
3. Remove the two flathead screws that connect the hinge assembly to the bottom of the door
4. Remove the white hinge from the square rod
5. Slide the door towards the bottom until it is free of the top hinge
6. Unscrew the top hinge pin from the unit and reinstall on the left side
7. Flip the door so the handle is now on the right side
8. Push the door onto the top hinge piece.
9. Reinstall the hinge assembly on the left side bottom of the door using the flathead screws
10. Push the white hinge onto the square rod at a position of 9 o'clock
11. Turn the white hinge clockwise until the holes line up with the screws located at the bottom of the unit

12. Replace the hex head screws and front leveling legs

NOTE: Once the door has been reversed, the Pharma-Vac or Med-Lab sticker will be upside down. You can remove and reapply to the preferred position. If you would like a replacement sticker, contact our parts department at **parts@summitappliance.com**.

CAUTION: After setting the unit upright you MUST allow this unit to stand upright for at least 2 hours to allow the lubricant and refrigerant to drain back into the compressor and stabilize. Failure to do so may adversely affect performance and the lifetime of this unit. Stabilization Period – Prior to use, the unit shall be allowed to run and stabilize for at least twenty-four hours.

LOCATION OF PARTS
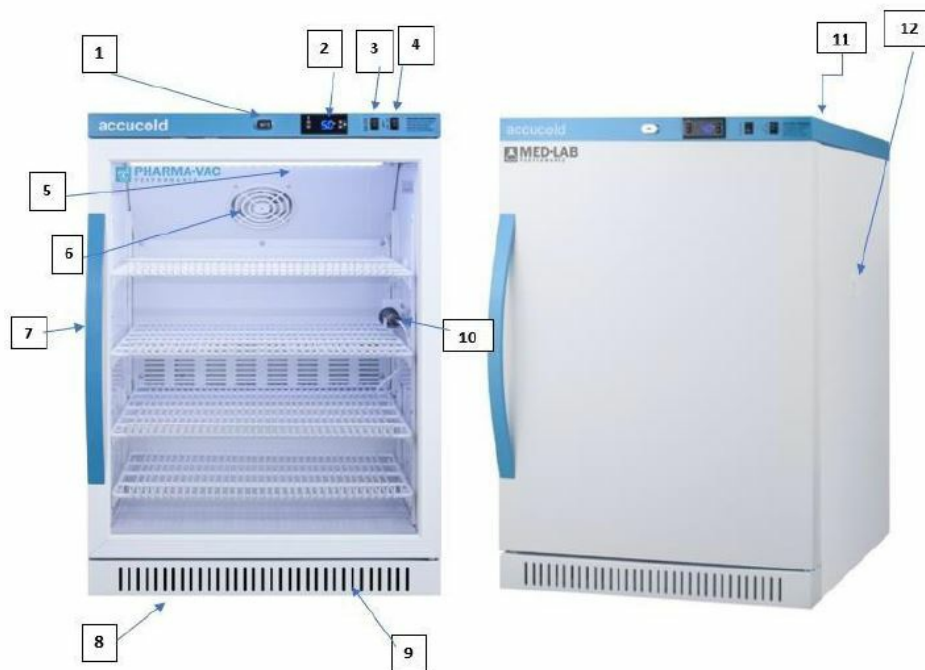
1. Keyed lock
2. Microprocessor
3. control panel
4. Reset switch
5. Light switch
6. Internal light
7. Internal fan Handle
8. Leveling legs
9. Kickplate
10. Temperature sensor in a glycol bottle
11. Dry contacts (located in rear)
12. Access port – for added monitoring devices of the useable area inside the unit

Power Failure Alarm
After plugging in the equipment, move the "Reset Switch" located at the front of the unit to the down position. When electrical power to the equipment is lost, an alarm will sound, and it will silence when the power is restored. Note the alarm is battery-powered and has a limited time to alarm.

Min/Max Temperature Recording

- Once connected to the power supply, your unit records the maximum high and minimum low temperatures reached inside the cabinet. The display will show the last HI and LO temperatures recorded until the refrigerator is reset.
- To display the HI reading, press and release the HI/LO button. To display the LO reading, press and release the HI/LO button again.

To Reset the Min/Max Temperature Recording
Hold the HI/LO button for 6 seconds. To confirm the operation, the display starts blinking and the buzzer sounds. After 5 seconds, the normal display will be restored.

Changing the Temperature Display

This unit ships with the temperature being displayed in Celsius. If you prefer the display in Fahrenheit, you will need to enter your password and adjust the parameters. Press and hold the "Set" button until it flashes "Pas," then enter the password (factory default is "15") using the up and down arrows. Once you enter the password, press "Set" about 25 times until "CF" displays, then press the down arrow until the control displays "ºF", then press "Set." Wait 6 seconds and the setting will be recorded, with your unit resuming normal operation.

Interior Light
Your unit includes an LED light that will automatically illuminate when the door is opened. If you would like to keep the light on when the door is closed, push the switch to the "on" position.

Door Alarm
If the door of the refrigerator is left open for more than 3 minutes, an audible alarm will sound. The alarm will be turned off automatically when the door is closed.

Remote Alarm
The electronic controller is equipped with dry contacts for alarm forwarding to an external remote alarm system (terminal block on the back of the refrigerator).
NOTE: The remote contacts are normally "closed" and "open" upon alarm. To change the output to normal "open" and "closed" on the alarm see item "C12" of the Table of Parameters and Factory Settings. Change the "C12" setting to "00" in lieu of "01".

NSF 456 CERTIFIED models (Models with 456 Suffix) with NIST Calibration
These models are equipped with a NIST-calibrated temperature measurement device (TMD) also referred to as the Control and Temperature Measurement Device (TMD) that simultaneously displays current interior temperatures and provides a visual and audible signal when the temperature inside the unit falls outside the set temperature range. All NSF456 units ship with a two-year certificate of calibration that comes inside your unit. Keep this certificate stored safely for your records. Accucold® offers re-calibration services through their ISO 17025:2017 certified calibration laboratory. It is recommended to have your TMD re-calibrated every two years (or one year, depending on your state's health department guidelines).

OPERATION – QUICK SETUP GUIDE

This section explains how to operate your unit. For more detailed instructions on changing the parameters of the control panel, see page 10. Once plugged in, the display will show the product temperature inside the refrigerator and the compressor will start to run (an indicator light on the control panel will turn on at the same time).
NOTE: This product utilizes two sensors: A Product Sensor (display sensor) and an Air Sensor (control sensor). For maximum performance, the refrigerator controls use a separate air sensor. This allows it to rapidly respond to product loading and door openings. You may need to adjust the controller lower than the desired product temperature as the air temperature needs to be lower to pull the product temperature down.

The temperature displayed is the product temperature recorded by the product sensor in glycol inside a vial located in the refrigerator. As the refrigerator cools to the set point, the number on the display will decrease accordingly. The product vial will take longer to cool than the air in the refrigerator. If power is cut off, wait for at least 5 minutes before plugging the unit in again to avoid damaging the compressor.

Control and Temperature Measurement Device (TMD)

Adjusting the Operating Temperature
To change the set point, press the SET key and the set-point temperature will be displayed. To change the set point, within 10 seconds, press the up or down arrow key until the desired temperature is displayed. The new set point will be memorized when you push the SET key again. Glass door models come preset to 4°C and solid door models are factory set to 5°C. Adjust the temperature up or down to achieve your desired product temperature the displayed temperature.

High/Low-Temperature Alarm
If the temperature in your refrigerator drops below the air low alarm set point, an alarm will sound. The front panel display will flash LO and the current temperature will be displayed alternately. Also, if the temperature rises above the high air alarm setpoint an alarm will sound. The front panel display will flash HI and the current temperature will be displayed alternately. if the temperature rises above the high product alarm setpoint an alarm will sound. The front panel display will flash H2 and the current temperature will be displayed alternately. There could be a number of reasons for this which should be investigated immediately. The refrigerator should be monitored to check that it is returning to the correct temperature. Set the alarm values to meet your requirements in the parameter setup and settings For more information on how to have your device re-calibrated or to replace a valid certificate, contact us at **calibration@summitappliance.com**.

Probe Port
This unit is equipped with a 3/8" probe port and plug, which can accept additional monitoring devices. It is advisable to position the additional temperature monitoring device in the net usable area (inside ideally near the product sensor).

Summary of Alarm Types

ALARM TYPE	DISPLAY FLASH
Air temperature high alarm	HI delay alarm
Air temperature low alarm	LO delay alarm
Air temperature sensor short circuited	1H in time alarm
Air temperature sensor open circuited	1L in time alarm
Product temperature sensor short circuited	2H in time alarm
Air temperature sensor open circuited	2L in time alarm
Product temperature high temp alarm	H2 delay alarm
Product temperature low temp alarm	L2 delay alarm
Electric supply off alarm	No display – alarm in time
Door open delay alarm	Dr flash and delay alarm

Storage of Articles

- At the maximum loading level, the content should not block the refrigerator's airflow or be loaded above the load line.
- Leave space around the contents to allow a smooth flow of cold air inside the cabinet. To prevent freezing, be sure the articles do not touch the back of the interior cabinet.
- Store articles away from the inner fan.
- Shelves can be adjusted to allow proper airflow around the products being stored.

DETAILED TEMPERATURE CONTROL GUIDE

Front Panel Operation
Set temperature (compressor's top temperature) adjustment:

1. Press the SET button, the set temperature is displayed, then press the UP or DOWN arrow to store and memorize.
2. Press the SET button to exit the adjustment status and display the product temperature. If no more buttons are pressed within 6 seconds, the refrigerator product temperature will be displayed.
3. (Set temperature adjustment range: Parameter E1 E2)

Manually start/stop defrosting
Press HI/LO button, then press the SET button and hold for 6 seconds to enter defrost status or to stop defrost.

Display the sensor temperature (C13)
Press the DOWN arrow, the product temperature (or cabinet temperature) will flash display. After 6 seconds, will resume normal display.

Refrigeration LED
During refrigeration, the cooling snowflake LED is on. When the temperature is constant, the LED is off.

Defrost LED
During defrosting (if activated), the defrost LED is on. During the delay after defrosting, the LED flashes.

Parameter set-up and settings (for all settings other than temperature setpoint)
Press the SET button and hold for 6 seconds to enter the parameter setting (flash and display PAS). After entering the correct password (factory default is 15), press SET and the display will show E1, E2, …~do3 PAS in sequence. Press the UP or DOWN arrow and the value of the parameter will be displayed and can be modified and stored. If no other buttons are pressed within 6 seconds, it will exit, and the new value will be stored. NOTE: Only when in the inner parameter menu (display PAS) and the correct password is entered can the parameter value be adjusted. If the wrong password is entered, the parameter modification will be exited, although the set temperature adjustment is still active. If you forget the password, you will need to resume the factory default settings.

The following are examples of how to change common settings
Enter Password – Press and hold the "Set" button 6 seconds until it flashes "Pas", then enter the default password "15" using the up and down arrows. When "15" is reached press the "Set" button.

- Change display to "°F" in lieu of "°C" – After entering the password press the set button about 25 times to reach the "CF" display, then press the up or down arrow unit the control displays "°F" then press set. Wait 6 seconds and it will be set and the unit will go back to normal operation.
- High Air Alarm Settings – After entering the password press the set button until you reach the "C1" display, then press the up or down arrow unit the control displays your desired setting then press set. Wait 6 seconds and it will be set and the unit will go back to normal operation.
- Low Air Alarm Settings – After entering the password press the set button until you reach the "C2" display, then press the up or down arrow unit the control displays your desired setting then press set. Wait 6 seconds and it will be set and the unit will go back to normal operation.
- High Product Alarm Settings – After entering the password press the set button until you reach the "C3H" display, then press the up or down arrow unit the control displays your desired setting then press set. Wait 6 seconds and it will be set and the unit will go back to normal operation.
- Low Product Alarm Settings – After entering the password press the set button until you reach the "C3L" display, then press the up or down arrow unit the control displays your desired setting then press set. Wait 6 seconds and it will be set and the unit will go back to normal operation.
- To change any other parameters in the "Factory Settings" enter the Password and then press the "Set" button until the desired Parameter is displayed, then press the up or down arrow until the desired setting is displayed then press the "Set" key again. Wait 6 seconds and it will be set and the unit will go back to normal operation

Recording the highest and lowest temperature

Once turned on and after the C5 delay, the unit will start to record the highest and lowest temperature; the record will be refreshed at any time. The values will be kept in memory even after the power is turned off. Press the HI/LO button to see the highest temperature recorded. Press it again to see the lowest temperature. Holding the HI/LO button for 6 seconds will cause the display to flash and a buzzer to sound; the previous highest and lowest

temperature readings will be cleared, and a new record will begin. (Highest and lowest temperature recording instructions: When parameter F4=0, the unit can record the highest and lowest temperature at any time. When F4=1,2,3, during defrost and delay locking 20 minutes, the highest and lowest temperatures are not recorded. During air sensor failure, the highest and lowest temperatures are not recorded.) When set C13=00, the temperature in the liquid bottle is recorded; when set C13=01, the temperature of the air in the cabinet is recorded. The product temperature corresponds to the temperature of the liquid in the bottle.

Factory default resumption

Press and hold the DOWN arrow; at the same time, press the UP arrow and hold for 6 seconds. The display will flash and show 888. At this time, all parameters will resume factory default values. After 6 seconds, normal operational mode will return.

To check or change the password

Enter the inner parameter menu (PAS display) and enter the correct password. After entering the inner parameter PAS, press the UP or DOWN arrow to display and change the password, then press HI/LO to confirm and store the new password.

Table of Parameters and Factory Settings

Parameter	Function	Set Range	Default	Parameter	Function	Set Range	Default
Set	Setpoint		4.0°C For glass door models 5.0°C For solid door models	**C3H**	Product Temp. High Temp. Alarm	-19.9~20.0°C / −3.8~68.0°F	8.0°°C / 46.4°F
PAS	Password	00~99	15	**C3L**	Product Temp. Low Temp. Alarm	-19.9~20.0°C / −3.8~68.0°F	2.0°C / 3.6°F
E1	Lowest set	-19.9°C / 3.8°F ~ set	2.0°C / 35.6°F	**C4**	Hysteresis	0.1~20.0°C /	0.1°C /
	point limit	temp.			Alarm	1.8~36.0°F	0.18°F
E2	Higher set point limit	20.0°C / 68.0°F ~set temp.	10.0°C / 50°F	**C5**	Start-up Temp. Alarm delay	00~99 min	60 min
E3	Temp. Hysteresis	0.1~20.0°C / 0.2~36.0°F	2.0°C / 3.6°F	**C6**	Temp. Alarm Delay	00~99 min	0 min
E40	Turning On delay time	00 ~10 min.	3 min.	**C7**	Power Off relay Alarm	00=do not alarm / 01= alarm	01

E41	Comp. start delay time	00 ~10 min.	3 min.	**C8**	Alarm relay close after, muffle alarm relay switch	00=open / 01= close	00
E5	Offset on Air Temperature	-10.0~10.0°C / − 18.0~18.0°F	1.0°C / 1.8°F For 1 and 3 cu. Ft. models 2.0°C / 3.6°F For 6, 8, 12, 15 and 18 cu. Ft. models	**C9**	Restart time after buzzer mute	00=do not start / 01 ~30 min=restart time	10 min
E6	Offset on Product Temp.	-10.0~10.0°C / − 18.0~18.0°F	0.0°C / 32°F	**C10**	Comp. Force stop time	01~99 min	99 min

F0	Defrost Type	00=defrost by turning of comp.	00	**C11**	Comp. Force Running Time	00=comp. Stop / 01-99min=starting time	0 min
F1	Max defrost duration	01~60 min.	20 min.	**C12**	Alarm Output Type	00=contact actuation when alarm / 01=contact disconnect when alarm	01
F2	Defrost Interval XXhr/time	00~24 hr.	00	**C13**	Normal State temp. display type	00=liquid bottle temp / 01=cabinet air temp.	00
F4	Temp. displaying on screen when defrost	00= normal Temp; 01=latest Temp. 02=Fixed Temp. ; 03=showing "dEF" on screen	00	**CF**	Temperature Unit	°C=Celsius / °F=Fahrenheit	°C
C1	High Temp Air Alarm	C2~20.0°C / 68.0°F	9.0°°C / 48.2°F	**do1**		00=do not alarm / 01=99 min=delayed alarm	02 min
C2	Low Temp Air Alarm	-19.9°C / 3.8°F ~C1	1.0°°C / 33.8°F	**do2**	Comp. status when door open	0=stop / 01=original status	0 1
				do3	Light status when door open	00=start / 01= original status	0 1

FUNCTION DETAILS

Temperature Control: After turning on the unit and reaching the delay time (parameter E40), the compressor starts operating when the cabinet temperature is higher than (set temperature + hysteresis) and will be off when the cabinet temperature is lower than the set point temperature. To protect the compressor, it cannot be re-started unless the time after the compressor stops is longer than the delay time (Parameter E41). Defrost Control: After running for a defrost interval set time (parameter F2), the unit will enter defrost and the compressor stops. When the defrost duration time (parameter F1) ends, it will exit defrost status. After a defrost period ends, there will be 2 minutes of dripping time before the unit can enter refrigeration status.

- When defrost interval F2 is set to "00", the automatic defrost by turning off the compressor will be canceled.
- When setting parameter F4 is set to "0", the temperature will be displayed normally during defrost.
- When setting parameter F4 is set to "1", the cabinet temperature is locked during defrost, and the last value before defrost is displayed.
- When defrosting ends, the normal display will resume after a temperature display 20 minutes delay (or cabinet temperature lower than the set temperature). The defrost LED flashes during the delay.
- When setting parameter F4 is set to "2", the set temperature will be displayed during defrost.

- When defrosting ends, the normal display will be resumed after 20 20-minute delay (or cabinet temperature lower than the set temperature). The defrost LED flashes during the delay.
- When setting parameter F4 is set to "3", dEF will be displayed during defrost. When defrosting ends, the normal display will be resumed after 20 minutes of delay display dEF (or cabinet temperature lower than the set temperature).
- The defrost LED flashes during the delay.

Alarm Control: After turning it on for the first time, the unit will need to reach the C5 delay time setting, then the high/low-temperature alarm function can be triggered (C1, C2, C3). After passing the C5 delay, when the cabinet temperature is abnormal (for example higher than the temperature alarm C1 or lower than temperature alarm C2) and the duration is more than alarm delay time C6, the unit will enter alarm status and alarm start. When a high-temperature alarm alternate displays H1 and cabinet air temperature, the compressor starts to run. When a low temperature alarm, will alternate display L0 and cabinet temperature, the compressor stops. When cabinet temperature is higher than the (low-temperature alarm value C2 + alarm hysteresis C4), the low-temperature alarm ends. When cabinet temperature is lower than (high-temperature alarm value C1 –alarm hysteresis C4), the high-temperature alarm ends.

When the product sensor temperature is greater than or equal to the product temperature high-temperature alarm value C3 and duration more than alarm delay time C6, the unit enters alarm status, and starts the alarm, alternate display H2 and cabinet temperature. When the product sensor temperature is less than or equal to the(high-temperature alarm value C3 – alarm hysteresis C4), it will end the high-temperature alarm. When the electric supply is off, flash and display EEL and alarm. When setting do1 is set at "00", the unit will not alarm when the door is open. When setting do1 is set at "0", once the unit reaches the delay time, it will flash and display "dr alarm", and press the random button to cancel. If setting C7 is set to "0", then the unit relay does not alarm when power is off.

If setting C8 is set to "0", then after the alarm is canceled, the alarm relay does not close. If C9 is set to "0", then after the alarm cancel button is pushed, the buzzer does not restart. If setting other numbers, then after reaching delay time, buzzer sounds one more time. (Under the condition of alarm not terminating) Abnormal work mode: When air sensor is short-circuited or high temperature over the limit (66°C/151°F), "1H" is displayed; when the air sensor is open-circuited or low temperature over the limit (- 40°C/°F) "1L" is displayed. The compressor will enter the force running mode, according to C10, C11 set parameters running in sequence. When the product sensor is short-circuited, open-circuited or over the limit (66°C/151°F), alternate display 2H and air temperature, the product temperature sensor open-circuited or low temperature over the limit (-40°C/°F), alternate display 2L and air temperature.

Instrument running alarm indication list

Alarm type	Compressor running	Display flash
Refrigerator high temp. alarm	Compressor on	H1 delay alarm
Refrigerator low temp. alarm	Compressor off	L0 delay alarm
Air temp. sensor short-circuited	Press C10, C11 to run the comp.	1H in time alarm
Air temp. sensor open-circuited	Press C10, C11 to run the comp.	1L in time alarm
Product temp. sensor short- circuited		2H in time alarm
Product temp. sensor open- circuited		2L in time alarm
Product temperature high temp.	Limit alarm	H2 delay alarm
Product temperature low temp.	Limit alarm	L2 delay alarm
Electric supply off alarm		No display and alarm in time
Door open delay alarm		Dr flash and delay alarm

When the door is open, the light switch can turn the light on and off.

Circuit Diagram
When the door is closed, normal close contact When the door is open, contact is disconnected
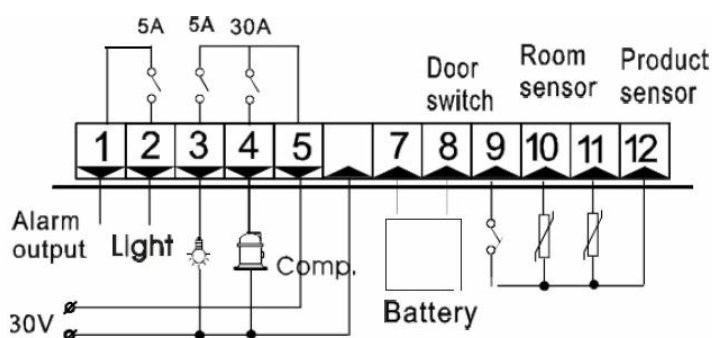
Notes for installation

1. Sensor leads must be kept separately from main voltage wires in order to avoid high-frequency noise-induced. Separate the power supply of the loads from the power supply of the controller.
2. When installing, the sensor must be placed with the head upward and the wire downward.
3. The temperature controller must not be installed in an area where water drips

CLEANING AND MAINTENANCE

Before cleaning, it is essential that you unplug the unit from the power line and transfer the contents where they can be stored and monitored at the correct temperatures.

- Wash the inner compartment with warm water and neutral detergent.
- DO NOT allow the control panel, cables or plug to get wet.
- NEVER use corrosive detergents, wire brushes, or abrasive scourers to clean your refrigerator. NEVER use

metal or sharp implements to remove debris.

- Dry all surfaces thoroughly.
- To ensure trouble-free operation, the condenser should be cleaned every three months where appropriate using a vacuum hose.
- The condenser is located at the back of the cabinet. In exceptionally dusty locations, the condenser should be cleaned more often.
- When transporting the unit, try to keep it vertical with the angle of inclination between the sides of the refrigerator and the horizontal plane not less than 50o.
- Otherwise, the compressor may be affected, disrupting the normal operation of the refrigerator.

TROUBLESHOOTING

Problems	Possible causes	Remedy
The unit does not operate	Bad connection of plug or burnt out fuse	Unplug the power cord and re-connect the plug to power supply or replace with a new fuse
Abnormal operation of the compressor or there is a buzzing sound	The power voltage is out of rated range	Disconnect the power supply immediately and reconnect with it after normal voltage. It is necessary to have a voltage stabilizer in case of poor power supply.
Compressor operates for a long time and no frost on the surface of the evaporator	Refrigeration system is at fault (leakage or blocked)	Call for service
There is frost or ice on the walls of the inner cabinet and internal temperature is too low, the compressor never stops running.	Thermostat does not work	Call for service
	The temperature setting of the thermostat is too low.	Adjust to a higher temperature
The internal temperature is too high, and the compressor never stops operating.	Bad heat dissipation and ventilation of condenser	Improve ventilation
	Too many warm items were put in at one time	Remove some goods so air can circulate
	Door is being opened too frequently during initial cool down	Permit the unit to cool down adequately, prevent product access during this
Too noisy	The unit is not level	Adjust the adjustable legs
	The fastener of the unit is loose	Tighten the loose fastener
	Pipe near the compressor are touching	Carefully separate the touching pipes
The side of unit is hot	The condenser in the side wall gives out heat as part of normal operation	Nothing to worry about.
Sometimes a light sound of water flowing will be heard	Refrigerant flowing inside the pipe.	Nothing to worry about.

Problems	Possible causes	Remedy
The unit does not operate	Bad connection of plug or burnt out fuse	Unplug the power cord and re-connect the plug to power supply or replace with a new fuse
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Compressor operates for a long time and no frost on the surface of the evaporator	Refrigeration system is at fault (leakage or blocked)	Call for service
There is frost or ice on the walls of the inner cabinet and internal temperature is too low, the compressor never stops running.	Thermostat does not work	Call for service
	The temperature setting of the thermostat is too low.	Adjust to a higher temperature
The internal temperature is too high, and the compressor never stops operating.	Bad heat dissipation and ventilation of condenser	Improve ventilation
	Too many warm items were put in at one time	Remove some goods so air can circulate
	Door is being opened too frequently during initial cool down	Permit the unit to cool down adequately, prevent product access during this
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Sometimes a light sound of water flowing will be heard	Refrigerant flowing inside the pipe.	Nothing to worry about.

You can solve many common problems easily, saving you the cost of a possible service call. Try the suggestions below to see if you can solve the problem before calling the servicer If you continue to experience issues, contact Accucold's technical support department at 1-888-4- MEDLAB.

TECHNICAL INFORMATION

Model Numbers	Gross Capacity Cu. Ft.	Net Useable Interior Capacity Cu. Ft.
ARS1PV, ARG1PV, ARS1ML, ARG 1ML, ARS1PV456, ARG1PV456	1.00	1.00
ARS3PV, ARG3PV, ARS3ML, ARG 3ML, ARS3PV456, ARG3PV456	3.00	2.70
ARG31PVBIADA, ARG31MLBIADA , ARG31PVBIADA456	2.83	2.83
ARS32PVBIADA, ARS32MLBIADA, ARS32PVBIADA 456,	2.83	2.83
ARS6PV, ARG6PV, ARS6ML, ARG 6ML, ARS6PV456, ARG6PV456	6.00	4.40
ARG61PVBIADA, ARG61MLBIADA , ARG61PVBIADA456	6.00	4.40
ARS62PVBIADA, ARS62MLBIADA, ARS62PVBIADA 456,	6.00	4.40
ARS8PV, ARG8PV, ARS8ML, ARG 8ML, ARS8PV456, ARG8PV456	8.00	7.75

ARS12PV, ARG12PV, ARS12ML, ARG12ML, ARS12PV456, ARG12 PV456	12.00	10.10
ARS15PV, ARG15PV, ARS15ML, ARG15ML, ARS15PV456, ARG15PV456	15.00	12.10
ARS18PV, ARG18PV, ARS18ML, ARG18ML, ARS18PV456, ARG18 PV456	18.00	17.40

LIMITED WARRANTY
TWO-YEAR LIMITED WARRANTY

Within the 48 contiguous United States, for two years from the date of purchase, when this unit is operated and maintained according to instructions attached to or furnished with the product, the 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.

FIVE-YEAR COMPRESSOR WARRANTY

1. The compressor is covered for five years.
2. Replacement does not include labor.

ITEMS THE WARRANTOR WILL NOT PAY FOR

1. Service calls to correct the installation of your equipment, to instruct you how to use your equipment, to replace or repair fuses or to correct wiring or plumbing.
2. Service calls to repair or replace unit 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 the 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 unit.
6. The removal and reinstallation of your unit 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 REPAIR AS PROVIDED HEREIN. IMPLIED

WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR. THE 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

Accucold Division of Felix Storch, Inc.
An ISO 9001:2015 registered company
770 Garrison Avenue
Bronx, NY 10474

Documents / Resources

	accucold ARG8PVFS30LSTACKMED2 Counter Depth Top Freezer Refrigerator [pdf] User Manual ARG8PVFS30LSTACKMED2 Counter Depth Top Freezer Refrigerator, ARG8PVFS30LSTACKMED2, Counter Depth Top Freezer Refrigerator, Depth Top Freezer Refrigerator, Top Freezer Refrigerator, Freezer Refrigerator

References

- ❄ **Medical & Scientific Cold Storage Solutions | Accucold® Medical Refrigerators**
- ❄ **Medical & Scientific Cold Storage Solutions | Accucold® Medical Refrigerators**
- ❄ **Service and Support | Accucold® Medical Refrigerators**

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