



PHARMACOLD



NAB Classic Series

PHARMACY REFRIGERATORS

Operating Guidelines for the Pharmacold NAB-60 , NAB-140 and NAB-260

Distributed by: 360 Medical Inc.

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Thank you for choosing the Pharmacold NAB Classic Series Pharmacy Refrigerator. Please read and follow the operating guidelines within this instructional manual to ensure your safety and optimal equipment performance.

Failure to do so may result in damage to the unit, injury to the operator personnel, equipment under performance, or equipment failure.

Your Pharmacold product has been preprogrammed with a 5 degree Celsius set point, a low temperature alarm of 2 degrees Celsius, and a high temperature alarm of 8 degrees Celsius. If different settings are required please refer to this manual

PLEASE BE AWARE OF THE FOLLOWING REQUIREMENTS AND GUIDELINES

- All Internal adjustments and maintenance of any Pharmacold product must be preformed by qualified and licensed service personnel
- Please ensure all personnel operating this equipment receive and follow instructions on how to safely use the equipment and understand the hazards and risks involved
- Always use proper protective equipment when handling extreme temperature items
- Always follow proper hygiene practices before and after handling pharmacological items
- If the user's manual is lost or damaged, please download a copy from this units product page at www.360medical.ca or E-mail to info@360medical.ca

THROUGHOUT THIS MANUAL YOU WILL ENCOUNTER THE FOLLOWING SYMBOLS. PLEASE FOLLOW THEIR WARNINGS AND GUIDELINES



Important operating and / or maintenance guidelines. Please read and follow them carefully.



There are potential electrical hazards. Only qualified personnel should perform these procedures.



Hot Surface(s) may cause burns to unprotected skin, or damage to objects if they come into contact with them.



Extreme temperature hazard, hot or cold. Use special handling gear and / or equipment.



Do not throw electronics in domestic waste. Please recycle discarded electrical equipment properly. Help us protect the environment by bringing discarded appliances and electronics waste to recycling centres.

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INSTALLATION

Safety Information

All electrical work must be performed by licensed or qualified service technicians. Safety precautions must always be taken when using any electrical appliance.

- Do not use this appliance for other than its intended use. This product is intended for use as a purpose built Medical Refrigerator.
- Do not cover the front grille by placing objects up against the cabinet.
- Ensure adequate ventilation.
- Do not touch any moving parts or hot surfaces.
- Regulations require that all electrical work be carried out by authorized and licensed service technicians. For your own safety and that of others please ensure this is done.
- Do not overload the power supply. Always refer to the rating label.
- Never use extension cords or multiple adaptors (power bars).
- If the main supply cord is damaged, it must be replaced by the manufacturer, its service agent or a qualified technician.
- Disconnect the main power supply before attempting any cleaning, removal of any covers, or maintenance work.
- Do not store explosive substances, such as aerosol cans with flammable propellant.
- Warning: Do not use mechanical devices or other means to accelerate the defrosting process. Defrosting is performed automatically.
- Warning: Do not damage the refrigeration circuit.
- Warning: Do not use electrical appliances inside the storage compartment of this appliance

Assembly

- Remove the appliance from the packaging and peel off any protective film from all surfaces.
- Fit the shelf support clips onto the shelf support strips, making sure that the clips for each shelf are of the same height and that they are securely engaged on the support strip.
- Unwrap each shelf carefully to prevent damaging their protective coating or surface finish.
- Position the shelves onto the clips.



Please dispose of all waste packaging appropriately and in accordance with all local recycling laws.



WARNING

Do not overload the power supply. Always ensure that the power supply is adequate for the electrical requirements specified on the rating label and never use extension leads or multiple adaptors.

*If you have any questions during assembly please call our service line 1-800-209-2082 ext. 3



Positioning the Medical Refrigerator

- Please position the cabinet carefully and ensure the unit is not tipped more than 45 degrees or bumped against anything.
- The power supply cord for the Medical Refrigerator is located at the bottom right hand side (as viewed from the front).
- The maximum recommended ambient temperature range for this Medical Refrigerator is 10°C to 30°C.
- Avoid positioning the appliance in direct sunlight or damp areas.
- Allow adequate space for the door to fully open.
- Ensure that this Medical Refrigerator is positioned on a level surface, so as to allow the door to shut and seal correctly, as well as to allow proper drainage from the evaporator tray to prevent any water overflow. If necessary, adjust the screw feet of the appliance to make it level.

Note: If the unit has not been stored or moved in an upright position, let it stand upright for a minimum of 12 hours before operation.

Ventilation

- All models must have clear and unobstructed ventilation from the entire front grille.
- **WARNING:** Failure to provide the minimum ventilation space will harm the performance of your Medical Refrigerator could be damaged or cause fire hazard and will void any warranty.
- **WARNING:** Keep the front grille clear of obstruction.

Power Supply

This Medical Refrigerator uses a three-pin plug which must be well grounded. Never ground the Medical Refrigerator through a gas pipe, water pipe OR the ground wire of single-phase power supply etc.

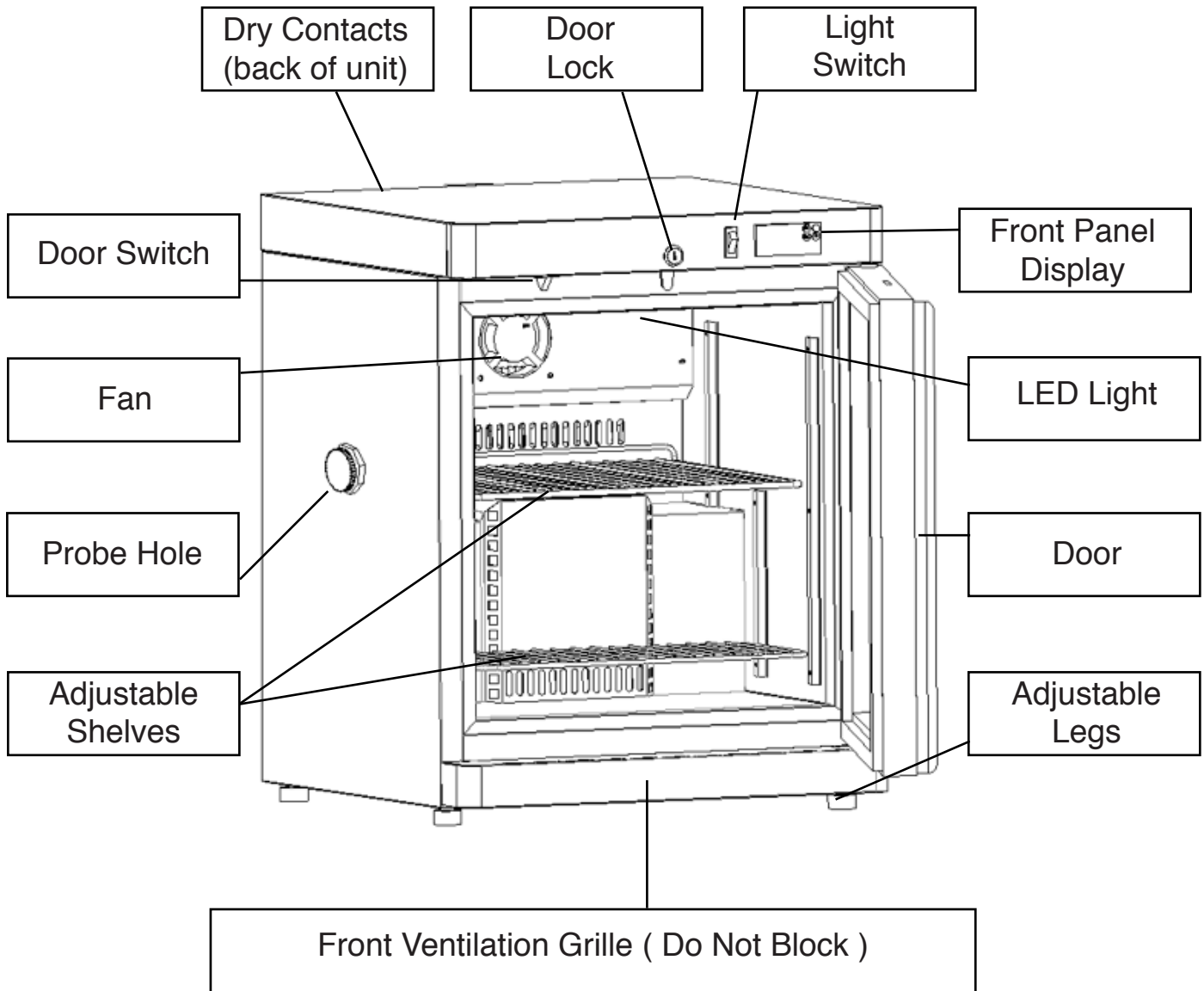
Never share the same circuit with other appliances. Before plugging in your Medical Refrigerator for the first time make sure the power cable is free from damage and check that your voltage corresponds to that on the rating plate located on the back of the fridge.

Once plugged in the display will show the temperature inside the Medical Refrigerator and the compressor will run (the indicator light of cooling will be on at the same time). This temperature is the actual temperature recorded by the sensors inside the Medical Refrigerator and as the fridge cools to the set point (factory set at 5°C) the number on the display will descend accordingly.

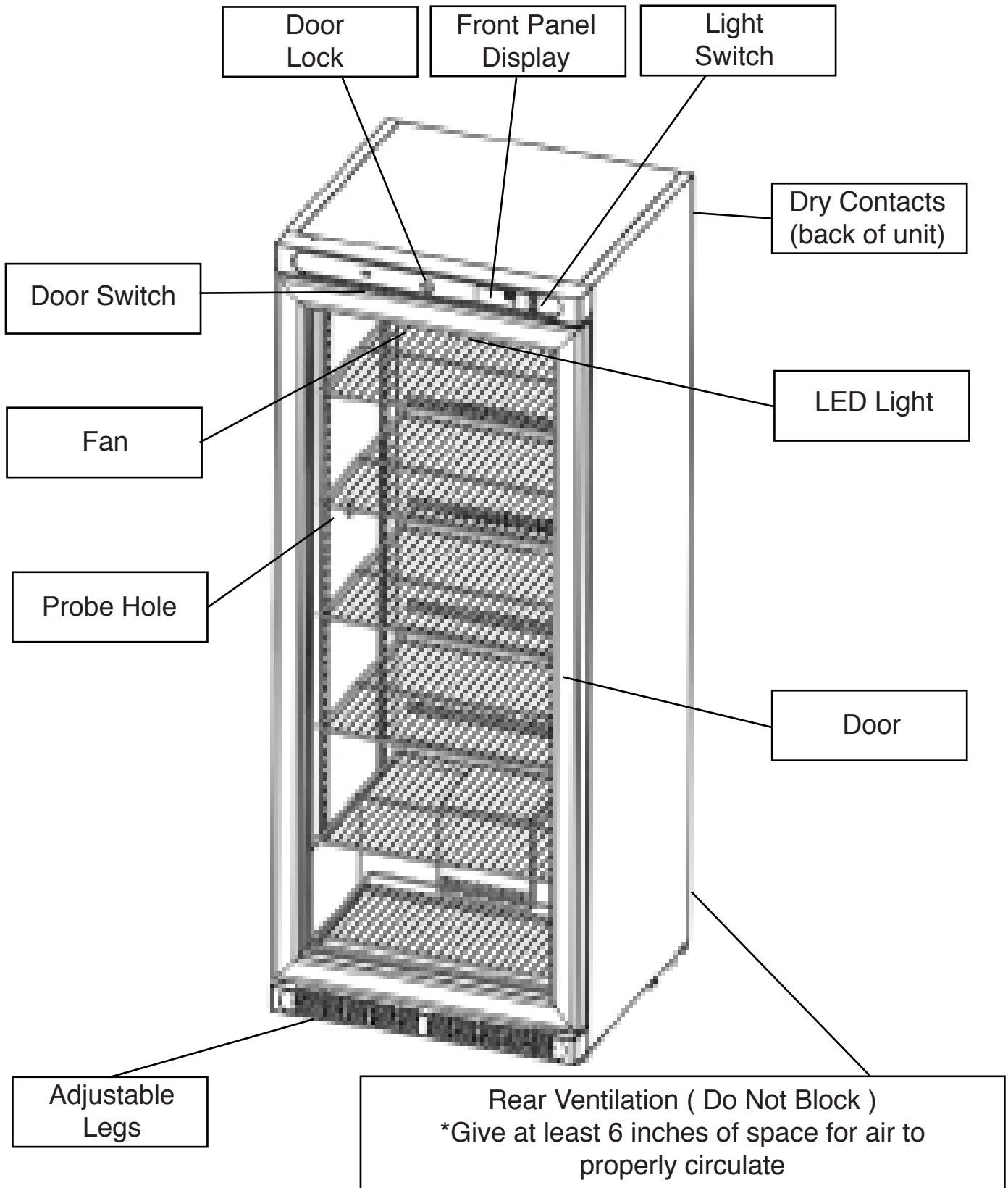
If power is cut off, wait for at least 5 minutes before plugging the unit in again to avoid damaging the compressor.



NAB-60 AND 140 DESCRIPTION



NAB-260 DESCRIPTION



TEMPERATURE

Description

The Digital display controller is used to set and control temperature settings and alarms. It will also display the current internal temperature of the fridge. We also recommend using a Pharmacold Traceable Min/Max Glycol Thermometer to have a reference point as well a backup alarm in case of any power failures.



Controller Symbols



Indicator Light	Symbol	Status	Meaning
Setting	Set	ON	Parameter setting
		OFF	Status of temperature measuring and controlling
Refrigeration	❄️	ON	Fridge is running
		OFF	Fridge is not running
		FLASH	Refrigeration time delay
Defrost	❄️	ON	Defrost mode is active
		OFF	Defrost mode is not active
Fan	🌀	ON	Fan is running
		OFF	Fan is not running
Defrost dripping	drip	ON	Defrost drip in process
		OFF	Defrost drip is finished
Door switch	🚪	ON	Cabinet door is open
		OFF	Cabinet door is closed
Power outage	🕒	ON	Controller power off

Button Description

Button	Function
Set	Enter the status of parameter setting
	Switch between menu and parameter
💡	Adjust menu and parameter
	Remote alarm
🌙	Adjust menu and parameters
	Press more for than 10 seconds to enable parameter one-key recovery
❄️	View evaporator sensor temperature
	Exit from parameter setting
	Exit from one key recovery status
	Press 3 seconds to force switch between refrigeration, defrost/defrost delay. Defrost dripping

FUNCTIONS AND PARAMETERS

To check the set temperature for the unit press the Set key for **3S** to enter the user menu. It will display the code **ST**. Press and release the Set button again, the display value of **ST** now be visible.

The **Set** temperature can now be modified by pressing the button  or button . To save the set temperature, leave the control untouched until it returns to the temperature display


When the display shows the code ST, press the button, it will display the code **PO**, then press Set button to display 00, then press **Set** to input the password for the administrator menu.

For administrator password and parameter list please contact technical support. Note Administrator parameters should only be reviewed and changed by a certified technician, or over the phone with technical support. Otherwise do not change any other controls unless a certified technician approves it. Changing without notifying a qualified technician could affect the performance of the fridge.

Temperature viewing

To view the temperature status, press the  to view the current sensor temperature reading.

Manual Operation

To override automatic settings and manually start a setting press the  button for 3 seconds to force the switch between refrigeration, defrost delay, and defrost dripping.

Temperature and Parameter Technical Settings

Parameters	Description	Min	Max	Unit	R	F
St	Temperature set value	r1	r2	°C/°F	4	-20

D0 – Technical parameter – Admin code required.

Parameter description:

St Set temperature

User set the shutdown point temperature.

Defrost

This equipment has a manual defrost function

Remote Alarm

The unit has a built in door open alarm as well as a high and low temperature alarm.



Low-power mode / Power failure alarm mode

When there is a power outage the alarm will sound to inform the user of an interruption in the cooling process.

Operation

This product is designed to operate at a recommended ambient temperature between 10°C - 30°C.

Access to power

Close the door of the appliance.

Setting Temperature

- Press down to decrease the set temperature.
- Press up to increase the set temperature

Turn on/off the light

- The light will turn on while the door is opened and will turn off while closed.
- Alternativley the light can be turned on and off via the light switch on face of unit.

CLEANING AND GENERAL MAINTENANCE

All cleaning and maintenance on medical refrigerators should be done by qualified and/or licensed service technicians.

- **WARNING:** You must disconnect the plug before cleaning or maintenance.
- Do not use abrasive cleaning agents which may scratch and harm the delicate interior finishes of your appliance.
- Always wipe dry after cleaning.
- An agent or qualified technician must carry out repair if required.
- The unit must be kept clean and free of dust at all times. It is recommended that the cleaning routine be conducted at an interval appropriate to the speed of accretion of dust on the unit and in any event at least every month. Failure to keep the unit clean will damage the refrigeration system and invalidate the warranty. Use a vacuum cleaner, preferably with a brush attachment, to remove built up dust.

Cleaning the condenser

The condenser must be kept clean and free of dust at all times. It is recommended that the cleaning routine be conducted at an interval appropriate to the speed of accretion of dust on the condenser.

Failure to keep the condenser clean will damage the refrigeration system and invalidate the warranty.

WARNING: The condenser is a delicate component and is easily damaged. Never use a stiff brush or sharp objects to clean it. Never use water. This unit should only be cleaned by qualified and/ licensed service technicians.

TROUBLESHOOTING

If this refrigerator develops a fault, please check the following table before making a call to the service line.

Fault	Possible Cause	Action
The appliance is not working	The unit is plugged in correctly	Check the unit is plugged in correctly
	Plug or lead is damaged	Call Our agent or qualified technician
	Power supply	Check power supply
	Internal wiring fault	Call Our agent or qualified technician
The appliance turns on, but the temperature is too high or too low	Filter or condenser blocked with dust	Clean filter or condenser
	Doors are not shut properly	Check doors are shut and seal are not damaged
	Appliance is located near a heat source or air flow to the condenser is being interrupted	Move the appliance to a more suitable location
	Ambient temperature is too high	Increase ventilation or decrease if needed. Or move unit to a cooler location.
	Insufficient airflow to the fans	Remove any blockages to the fans
	Appliance is overloaded	Reduce the amount stored in the appliance
	Factory default parameters adjusted	Call Our agent or qualified technician
The LED lights not working	Led light short Leaded damage	Call Our agent or qualified technician
The appliance is unusually loud	The appliance is touching a neighboring object	Check installation position and change if necessary
	The appliance has not been installed in a level or stable position	Check installation position and change if necessary

GUIDELINES FOR DISPOSAL

DO NOT dispose of this product into municipal waste. Electrical appliances disposed in landfills or dumps will leak hazardous material into the ground water, damaging the environment.

Contact your local municipal government for more information on how and where to dispose of this type of electrical unit.

WARRANTY

This product comes with a 1 year parts, 1 year labour and 5 year compressor part warranty from purchase date.

**FOR SERVICE AND WARRANTY INFORMATION
PLEASE CONTACT 360 MEDICAL INC.**

1-800-209-2082 ext 3

Or

Info@360medical.ca

Also Available From Pharmacold

Temperature Data-loggers
Glycol Traceable Min/Max Thermometers
Iced Lined Refrigerators
Portable Refrigerated Coolers
Vaccine Transport Coolers
-20 Degree Celsius Medical Freezers
-60 Degree Celsius Medical Freezers
-80 Degree Celsius Medical Freezers



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