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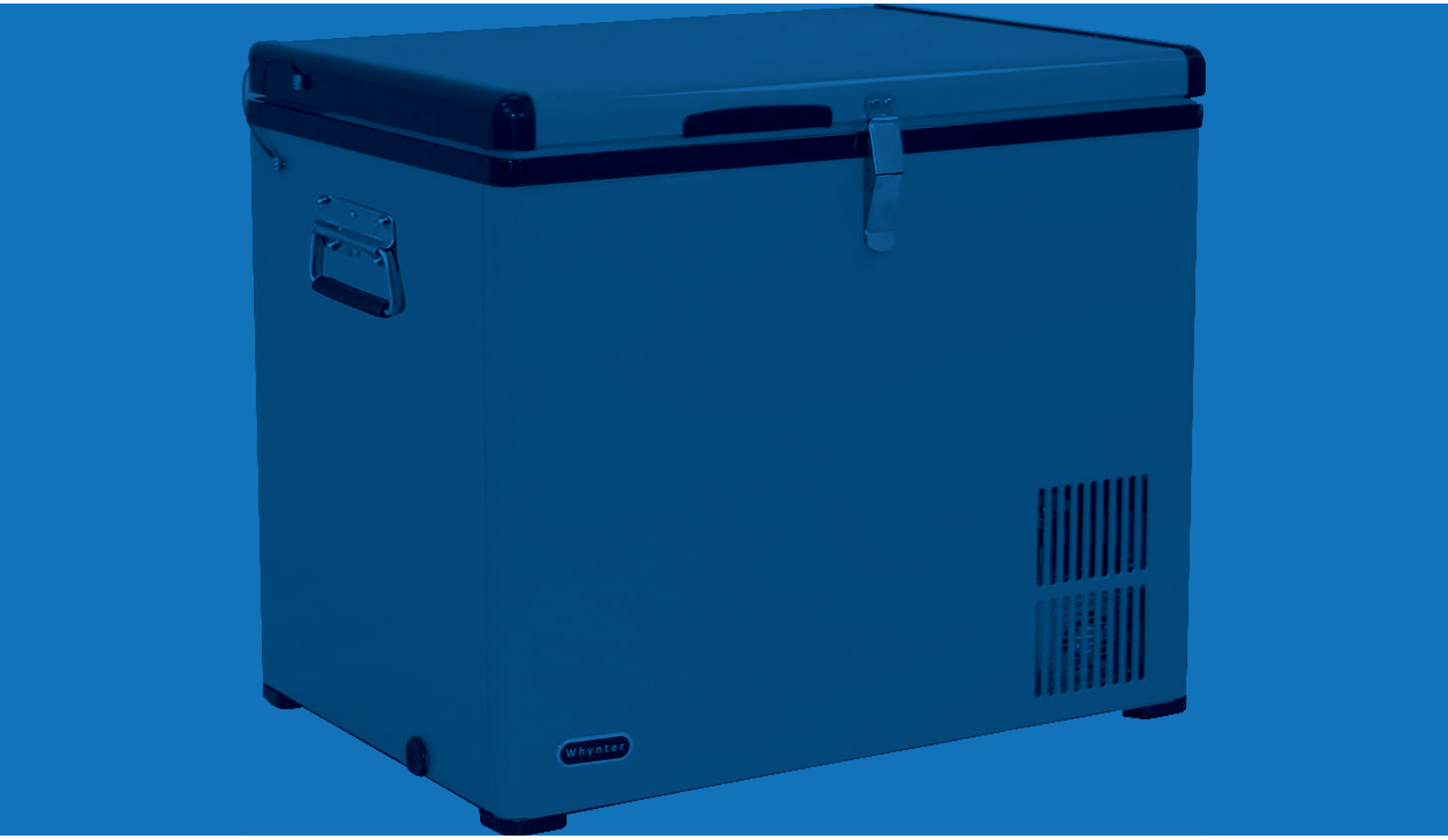
SPORT SYSTEMS
Safety through **innovation**



Ice Puck Freezer

Athletica user manual

1/2022

Thank you for purchasing the Ice Puck Freezer.

For your safety, please ensure you read these instructions carefully.

This manual details safety warnings, operation, cleaning, maintenance and troubleshooting.

Warranty

This Athletica Sport Systems product is warranted to be free of defects in materials and workmanship for a period of 1 year from the date of purchase. Please contact Athletica Sport Systems with any questions about the performance of this product.

Contact Us

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FEATURES

- Operates as a refrigerator or freezer
- Compressor Cooling System
- Voltage power AC (115V/ 60Hz – 65W/ 0.75A) or DC (12V/24V – 4.5A /2.5A Car Lighter Socket)
- 8′ AC power cord and 10′ DC power cord are included
- "Fast Freeze" mode rapidly cools to -8°F
- Adjustable temperature range: -8°F to 50°F
- LED temperature display
- Power low indicator
- Insulated lid and walls
- Two removable wire baskets
- Side handles for easy mobility
- Functions even when tilted 30°
- Tough and solid outer casing
- ETL approved

Model	FM-45G
Unit Capacity	45 Quarts or 60 Cans Capacity
Volume	1.41 cu. ft.
Temperature Range	-8°F to 50°F
Refrigerant Type	R-134A
Wattage	65 Watts
Max Power Consumption (AC)	AC (115V/ 60Hz – 65W/ 0.75A)
Max Power Consumption (DC)	DC (12V/24V – 4.5A /2.5A Car Lighter Socket)
Unit Dimensions	23.5″ W x 16.5″ L x 20.5″ H
Noise Level (dBA)	< 45.46 (dB)
Net weight	45 LB

SAFETY PRECAUTIONS

- Do not use if the power supply cord is damaged. If damaged, it must be replaced by qualified technician/electrician.
- This portable freezer is not intended for use by young children or infirm persons without supervision. Young children must be supervised to ensure they do not play with the appliance.
- Ensure the freezer is unplugged before cleaning or if not in use.
- To clean the freezer use only mild detergents or glass cleaning products. Never use harsh chemicals or solvents.
- Do not use this portable freezer with an extension cord or power strip. Please ensure that the appliance is plugged directly into the electrical outlet.
- When positioning the portable freezer, ensure that there is at least a 6" clearance at the sides of the portable freezer. This will allow for adequate ventilation of heat from the back of the freezer.
- Close the freezer lid immediately after putting in any items to maintain the internal temperature of the unit.
- Avoid placing the freezer near external heat sources or direct sunlight.
- Make sure the freezer is placed on a flat, level, and solid surface.
- Make sure that the surface on which the freezer is placed is strong enough to hold the freezer once it is fully loaded with items.
- The portable freezer is an electrical appliance. To avoid serious injury from electrical shock, do not operate the freezer with wet hands, while standing on a wet surface, or while standing in water.
- Do not expose this appliance to rain or excessive moisture.
- Do not turn the portable freezer upside down, on its side, or 45° or more off level.
- Never pull the power cord to disconnect the unit from an outlet. Grasp the plug directly and pull it from the outlet.
- Never lift or carry the freezer by the power cord.
- Keep the power cord away from heated surfaces.
- This portable freezer is designed for non-commercial use only.
- Do not plug this portable freezer into the power socket before setup is completed.
- An empty portable freezer can be dangerous for children or small animals. If disposing of the portable freezer remove gaskets, latches, lids and the entire door from your unused appliance so that children or small animals cannot become trapped inside.
- Do not cut or remove the third prong (the grounding prong) from the power cord.
- The cord should be secured behind the unit and should not be left exposed or dangling.
- Do not move this portable freezer without securing the lid in a closed and latched position.
- Performance may vary based on operational and ambient conditions.

PARTS & FEATURES

Your portable freezer is supplied with all the accessories you need to enjoy refrigeration almost anywhere. Below is an image of the freezer features and standard accessories.



Proper Location

Because this unit is compressor based appliance, ample space is required around the unit to allow it to exhaust

Position your portable freezer in a location where there is proper air circulation and electrical connections.

Keep the portable freezer away from heat and direct sunlight if possible.

This portable freezer is suitable for vehicle use and camping, however, the appliance should never be exposed to rain.

This portable freezer should not be placed in a built-in or recessed area. It is designed to be freestanding.

The normal operation of the freezer depends on heat radiation from the condenser. For the initial use, remove all packaging and allow at least 6" of clearance around the perimeter of the freezer.

Movement & Installation

1. Remove all interior and exterior packaging.
2. Position the freezer in a dry and well-ventilated place. Keep the freezer away from direct sunlight, heaters and corrosive gases/chemicals.
3. Clean the interior surface with lukewarm water and a soft cloth.
4. When inserting the AC power cord into the power socket, make sure the power socket is a grounded 115V~AC / 60Hz socket. Also, make sure that the unit's grounding prong has not being tampered with.

   Note: When inserting the DC power-cord, make sure the input is a 12V~DC / 24V power source.
5. When moving the freezer, always use both handles to the carry the unit as level as possible. This is in order to protect the compressor and the sealed system.

OPERATION

Test Run

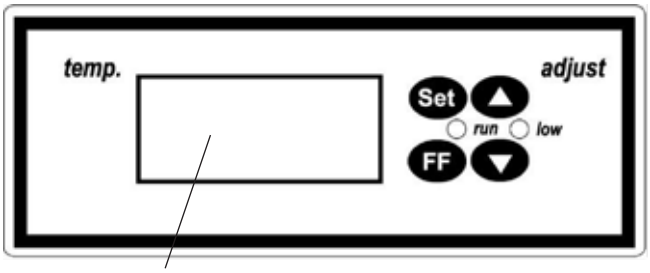
DC input power

When powering your portable freezer with a standard 12 V socket, the unit will not work if socket has a voltage of less than 10.4 V. The unit will restart when the voltage is 11.8V or greater.

When powering your portable freezer into a standard 24 V socket, the unit will not work if the socket has a voltage of less than 22.5 V. The unit will restart when the voltage is 24.2 V or greater.

UNDERSTANDING THE TEMPERATURE CONTROL SETTING

Your portable freezer uses a digital control system for adjusting the thermostat.



LED Display

SET Set button – press this to set the desired temperature

▲ Button for increasing the temperature setting +

▼ Button for decreasing the temperature setting –

FF Fast Freeze button – this function quickly drops the temperature

Run This will be red when the Fast Freeze function is on and green when the unit is running normally

Low Yellow indicator will flash when the power is too low

LED display shows the temperature in Fahrenheit (°F)

Temperature adjustment

When the freezer is plugged in to a power outlet, press the "Set" button. The LED will display the factory pre-set temperature of 0°F.

To adjust the temperature:

a. Press the "Set" button again

b. While the LED is flashing, press the "▲" or "▼" buttons to reach the desired temperature

c. Once the desired temperature is set, the LED stops flashing. The current internal temperature will then be displayed. After the LED has stopped flashing, you can check the set temperature by pressing the set button again

d. To change the preset temperature again repeat steps a., b. and c.

Note: Do not use the refrigerator-freezer as a refrigerator when the ambient temperature is lower than 41°F

Fast Freeze Mode

Press the "FF" button to run the freezer on the "Fast Freeze" mode. The Fast Freeze mode rapidly cools the unit to -8°F. The freezer will then maintain this temperature.

Note: Do not run the unit on "FF" (fast freeze) for more than four hours, as this might adversely affect the refrigeration system.

Defrosting & Deodorizing

Never remove ice with a sharp object or screwdriver..

When the ice layer on the inner cabinet sides is over 0.2", the defrosting operation should be performed to improve the refrigerating efficiency. To do this,

follow these steps below:

1. Turn off the power, and remove all items inside the freezer.
2. Allow the ice to completely melt.

Tip: To remove unpleasant odors place a piece of charcoal in the chest.

Normal Operating Sounds and Functions

It is normal to hear gurgling sounds caused by the flow of refrigerant when each cooling cycle ends.

The surface temperature of the compressor can reach 158-194°F when running.

The noise emitted by the cooling fan on the condenser is a normal function.

It is normal for the fan in the power supply to run all the time.

CLEANING YOUR PORTABLE FREEZER

Always disconnect the power supply before cleaning. Clean the inside of the cabinet whenever necessary using a solution of warm water and baking soda (1 tablespoon to every 2 liters of water). Dry with a soft cloth.

Do not use steel brushes or harsh detergents to clean the inner liner.

Dirt from the condenser should be cleaned by a qualified technician when necessary.

POWER CONSUMPTION CHART

Model: FM-45G	77ºF ambient temperature	90ºF ambient temperature	109ºF ambient temperature
Running Voltage (V)	AC: 110V/60Hz DC: 12/24V	AC: 110V/60Hz DC:12/24V	AC: 110V/60Hz DC:12/24V
Running Current (A)	AC: 0.91/0.5 DC: 4.5/2.25	AC :0.91/0.5 DC: 4.5/2.25	AC :0.91/0.5 DC: 4.5/2.25
Running Power (W)	AC: 70 DC: 60	AC:70 DC:60	AC:70 DC:60
Lowest Temp. Inside	-7.6ºF	-7.6ºF	-7.6ºF
AC Power Consumption	39.2ºF refrigerator: 0.325kwh/24h 10.4ºF freezer: 0.55kwh/24h -0.4ºF freezer: 0.75kwh/24h	39.2ºF refrigerator: 0.43kwh/24h 10.4ºF freezer: 0.76kwh/24h -0.4ºF freezer: 0.96kwh/24h	39.2ºF refrigerator: 0.55kwh/24h 10.4ºF freezer: 1.02kwh/24h -0.4ºF freezer: 1.2kwh/24h
DC Power Consumption	39.2ºF refrigerator: 20Ah 10.4ºF freezer: 33.8Ah -0.4ºF freezer: 46.1Ah	39.2ºF refrigerator: 26.5Ah 10.4ºF freezer: 46.8Ah -0.4ºF freezer: 59Ah	39.2ºF refrigerator: 33.8Ah 10.4ºF freezer: 62.7Ah -0.4ºF freezer: 73.8Ah
Setting 39.2ºF, pull-down time	12.5h	15h	19h
Suggested battery capacity (AH)	12V/80AH	12V/100Ah	12V/120Ah
Battery using time (hrs)	67.2h 39.7h 29.1h	63.3h 35.8h 28.4h	59.6h 32.3h 27.3h
Solar Panel Power (W)	150W	150W	150W
Solar Panel charging Time (hrs)	7h	7h	7h

TROUBLESHOOTING

Problem	Cause	Solution
The compressor runs for 1 to 5 minutes and stops.	The voltage is not in the correct range.	Switch off the power and restart when the power is normal.
The compressor runs but the inner liner does not get very cold.	The ambient temperature is too high.	The operating temperature of this unit is <90°F. If temperature is higher than 90°F, the unit will need longer to cool to the set temperature.
	The system is blocked.	Contact service department via email at info@athletica.com
The inner liner is very cold and the compressor runs continuously.	The ice layer on the evaporator is too thick.	Defrost the freezer.
	The door is being opened and closed too frequently.	The door should be opened as little as possible.
	The freezer is overloaded.	Remove some products from the freezer.
	The condenser is not well-ventilated.	Place the freezer in a well-ventilated place.
	The temperature sensor- tube is out of the evaporator or the controller is faulty.	Contact service department via email at info@athletica.com
The compressor does not run.	The controller is faulty (the power indicator is not on).	Contact service department via email at info@athletica.com
	The thermostat is set too high and the ambient temperature is too low.	Set the freezer to a lower temperature.
The freezer is noisy.	The freezer is not level.	Place the freezer on a flat and hard surface.
	The voltage is not in the correct range.	Switch off the power and restart when the power is normal.
Can the unit plugged into both AC and DC power supply?		Yes. If both AC and DC are plugged in at the same time, then the unit will primarily operate on AC. If the AC power source fails, DC will become primary source of power supply.

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