



## **Ice Puck Freezer**

**Athletica user manual**

## **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**

#### **Canada and International**

554 Parkside Drive. Waterloo ON Canada N2L 5Z4  
519-747-1856

#### **USA**

720 Innovation Drive. Shakopee MN USA 55379  
763-249-7465

## **Contents**

### **Safety Warnings & Usage Tips**

### **Operation**

### **Cleaning & Maintenance**

### **Troubleshooting**

### **Technical Data**

### **Customer Service**

## **Warnings**

Do not use your unit if any wiring is visibly damaged or frayed.

Do not attempt to continue to operate the unit if it is wet.

When using the portable refrigerated cooler in a vehicle, make sure the circuit being used is fused. DC 12V 15 amp. DC 24V 7.5 amp.

Ensure the voltage is within the correct range for both the socket and cable. Correct voltage can be found on the Technical Data label on the side of the unit.

Do not place any electrical devices inside the unit.

## **Usage Tips**

Ensure there is good ventilation around the back of the unit. Allow a gap of at least 1 inch around all sides.

Avoid frost build-up on the inside walls as this will impair cooling.

To defrost, turn the unit off and allow the frost to melt, then wipe out any water and moisture.

For maximum efficiency, keep the unit in a cool location out of direct sunlight.

Keep the unit on a flat surface, but it will operate at angles up to 30°.

## Operation

Power: DC 12V and DC 24V

Included: INPUT: 110VAC, OUTPUT: 12VDC adapter

Battery Protection: Selecting either LOW, MED or HIGH positions (Switch next to the DC power socket), you can adjust the battery protection for the unit. Refer to the table below for the voltages and settings.

Setting	12V Stop	12V Start	24V Stop	24V Start
Low	10.2V	11.2V	21.6V	23.0V
Medium	10.7V	11.7V	22.6V	24.0V
High	11.7V	12.7V	24.6V	26.0V

## Battery Protection Pre-Configured Settings

### Cable Length Specifications

The DC cables must have a suitable cross-section for their length (measured from the battery to the unit). Please refer to the table below.

Cable Thickness (mm <sup>2</sup> )		12V Max Length		24V Max Length	
(mm <sup>2</sup> )	AWG	(m)	(ft.)	(m)	(ft.)
2.5	14	2.5	8	5	16
4	12	4	13	8	26
6	10	6	20	12	39
10	8	10	33	20	66

## Temperature Setting Range: -20°C to 10°C

Plug in the DC power cable. Press the ON/OFF button to turn the unit on.

The LED display on the control panel will illuminate and display the current interior temperature.

Press the UP button to increase the set temperature, or press the DOWN button to decrease the temperature.

Pressing the SET button will toggle the temperature display between °C and °F.

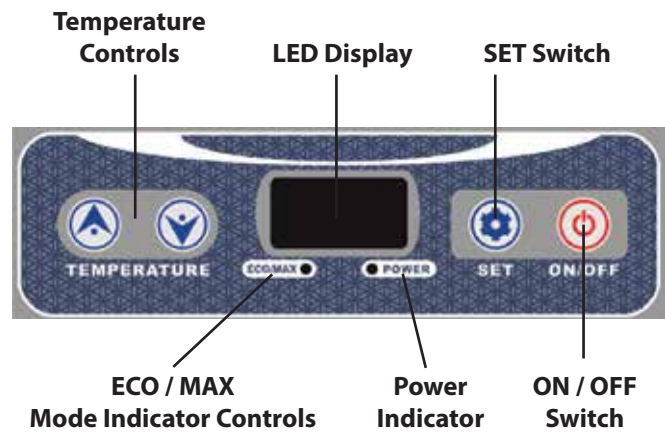
Press the SET button to begin Economy run mode. The ECO indicator light (green) will turn on. Press the button again; the unit will start Maximum Running

Mode (HH) and the MAX indicator (red) will illuminate.

Economy mode runs the compressor at a lower speed to save power. Maximum mode runs the compressor at a higher speed, increasing power.

Economy mode is useful if the ambient temperature is over 30°C, or if fast cooling is required.

If the power supply is cut off or disconnected, the unit will switch off automatically. Once the power supply is restored, it will automatically turn on again.



## Cleaning and Maintenance

Clean the unit inside and out with a clean, damp soft cloth each week.

If it is dirty, use baking soda or table salt dissolved in tepid water.

Never use abrasive products, harsh detergents or soaps.

After cleaning, wipe down with a clean cloth and dry carefully.

Do not store perishable food products inside the unit if the unit is not powered on.

Ensure the interior of the unit is totally dry before closing the lid and storing it.

Never clean the unit under running water, and never submerge in water.

Do not clean in the dishwasher.

Do not use sharp objects or abrasive materials during cleaning as this will damage the unit.

## Troubleshooting

### ■ The unit is not turned on:

Check if the unit has been turned on.

Check the power supply - try a different power source, for example, a different vehicle or power outlet.

Ensure the plug and socket are connected properly.

Check if the fuse has been burned out or blown.

### ■ Low refrigeration performance:

Ensure the unit isn't over-filled with items.

Ensure the items inside the unit aren't very warm or hot.

Check if the lid is unlatched or open.

Check the integrity of seal on the lid, ensure it is not damaged.

Make sure there is enough space around the unit for proper ventilation (minimum of 100mm around all sides).

Is the ambient temperature too high?

Is the temperature setting too high?

### ■ Can hear running water inside the unit:

This is normal - due to the flow of refrigerant inside the unit.

If unusual noise persists, ensure the unit is placed on a level surface.

## Error Protection Function

When the electronic control module of the compressor malfunctions, the LED display will show:

ER1 / ER2 / ER3 / ER4 / ER5

and the compressor will stop working. If you are able to identify the fault, remove it and then wait 3 minutes before starting the unit again.

NTC - display sensor failure detected.

ER0 / ER9 - after removing the fault, the internal temperature will display within 2 seconds.

Code	Problem	Solution
ER0	Temperature sensor short circuit. The compressor enters a regular operating mode, on for 30 min / off for 30 min.	Change the temperature sensor line.
ER1	Input under-voltage protection.	1. Change the battery. 2. Lower battery protection switch.
ER2	DC fan over-current protection.	Change the fan.
ER3	Compressor start-up problem.	Power off. Wait 30 mins. Restart.
ER4	Rotation speed of compressor is abnormal.	Change the main controller.
ER5	Temperature of control module is abnormal.	Move the unit into a cool place. Cool off the unit and restart.
ER9	Temperature sensor open circuit. The compressor enters a regular operating mode, on for 30 min / off for 30 min.	1. Tighten the temperature sensor line. 2. Change the temperature sensor line.

## International Certification Approvals



## Technical Data (DC)

Model	Moose 1.1
Climate Category	T / ST / N / SN
Protective Classification of Electric Shock Resistance	Class III
Rated Voltage DC (V)	12 / 24V
DC Amps (A)	15A
Watts	50W
Rated Current for DC (A)	4.2A / 2.1A
Refrigerant	32g
Foam / Vesicant	C5H10/C-Pentane

## Accessories

Included with the unit are the following attachments for AC and DC power connectivity:



## Guidelines For Disposal

**DO NOT dispose 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.**



554 Parkside Drive, Waterloo, Ontario, Canada N2L 5Z4 TEL 519-747-1856  
720 Innovation Drive, Shakopee, Minnesota, USA 55379 TEL 763-249-7465

**athletica.com**



**BORDER PATROL**  
RINK SYSTEMS



**GAMEPLEX**

**Infinity Series™**



**Pro Series™**