

## TWO YEAR LIMITED WARRANTY REGISTRATION FORM

This limited warranty program is the only one that applies to this product, and it sets forth all the responsibilities of Vector Manufacturing, Ltd., regarding this product. There is no other warranty, other than those described herein.

This Vector Manufacturing, Ltd. product is warranted, to the original purchaser only, to be free of defects in materials and workmanship for two years from the date of purchase without additional charge. The warranty does not extend to subsequent purchasers or users. Vector Manufacturing, Ltd. will not be responsible for any amount of damage in excess of the retail purchase price of the product under any circumstances. Incidental and consequential damages are specifically excluded from coverage under this warranty.

This product is not intended for commercial use. This warranty does not apply to accessories or damage to units from misuse or incorrect installation. Misuse includes wiring or connecting to improper polarity power sources.

**RETURN/REPAIR POLICY:** Defective products, other than accessories, may be returned postage prepaid to Vector Manufacturing. Any defective product, other than accessories, that is returned to Vector Manufacturing within 30 days of the date of purchase will be replaced free of charge. If such a product is returned more than 30 days but less than two years from the purchase date, Vector Manufacturing will repair the unit or, at its option, replace it free of charge. If the unit is repaired, new or reconditioned replacement parts may be used, at Vector Manufacturing's option. A unit may be replaced with a new or reconditioned unit of the same or comparable design. The repaired or replaced unit will then be warranted under the terms of the remainder of the warranty period. The customer is responsible for the shipping charges on all returned items after 30 days. During the warranty period, Vector Manufacturing, Ltd. will be responsible for the return shipping charges.

**LIMITATIONS:** This warranty does not cover accessories, bulbs, fuses and batteries, defects resulting from normal wear and tear (including chips, scratches, abrasions, discoloration or fading due to usage or exposure to sunlight), accidents, damage during shipping to our service facility, alterations, unauthorized use or repair, neglect, misuse, abuse, failure to follow instructions for care and maintenance, fire, flood and Acts of God.

If your problem is not covered by this warranty, call our Technical Support Department at (954) 584-4446 or toll free at (866) 584-5504 for general repair information and charges if applicable. You may also contact us through our website at [www.vectormfg.com](http://www.vectormfg.com).

**STATE LAW RIGHTS:** This warranty gives you specific legal rights. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the exclusions or limitations stated herein may not apply. This warranty gives the purchaser specific legal rights; other rights, which vary from state to state, may apply.

**TO REQUEST WARRANTY SERVICE FOR THIS PRODUCT:** Contact Vector Manufacturing Technical Support by telephone, fax or mail. We suggest that you keep the original packaging in case you need to ship the unit. When returning a product, include your name, address, phone number, dated sales receipt (or copy) and a description of the reason for return and product serial number. After repairing or replacing the unit, we will make every effort to return it to you within four weeks.

**WARRANTY ACTIVATION:** Please complete Warranty Activation Card and mail to Vector Manufacturing. Enter VEC225 as Model. All Vector Manufacturing, Ltd. products must be registered within 10 days of purchase to activate this warranty. Mail the completed registration form, along with a copy of the original sales receipt to:

ATTN.: CUSTOMER SERVICE / VECTOR MANUFACTURING, Ltd.  
4140 SW 28th Way, Ft. Lauderdale, FL 33312  
PH: 954-584-4446 • TOLL FREE: 866-584-5504 • Fax: 954-584-5556.  
You may also contact us at our web site [www.vectormfg.com](http://www.vectormfg.com)

- Please activate my limited Warranty for Model VEC225  
 I have enclosed a copy of the original sales receipt.

Name \_\_\_\_\_

Street Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip code \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_

Item Purchased \_\_\_\_\_

Date of Purchase \_\_\_\_\_ Store Where Purchased \_\_\_\_\_

UPC Number from package (12 digits) \_\_\_\_\_



VEC225

# MINI FRIDGE DELUXE COOLER & WARMER

**THERMOELECTRIC ADVANCED COOLING TECHNOLOGY  
OPERATES FROM SUPPLIED AC/DC CONVERTER OR  
ANY VEHICLE'S 12 VOLT ACCESSORY SOCKET**



## OWNER'S MANUAL & WARRANTY INFORMATION

THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING THE OPERATION AND WARRANTY OF THIS PRODUCT. PLEASE READ CAREFULLY BEFORE USE AND RETAIN FOR FUTURE REFERENCE.

4140 SW 28TH WAY, FT. LAUDERDALE, FL 33312  
TEL: 954-584-4446 • FAX: 954-584-5556 • TOLL-FREE 866-584-5504

[www.vectormfg.com](http://www.vectormfg.com)

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## **IMPORTANT SAFETY INFORMATION**

- Unit operates from AC/DC power converter - make sure AC is 110 volts, and 60 Hz
- This cooler/warmer is not a toy, keep it away from children
- Do not allow the cooler or AC/DC converter to become wet. Operate only in a dry, well ventilated area
- This unit does not automatically turn on and off
- The interior of this unit gets quite hot in warming mode. Keep small children from opening unit when warming
- Do not operate unattended for extended periods of time
- When operating from a vehicle battery, make sure you start your engine after 3-4 hours of operation to recharge the vehicle battery
- Do not overstuff cooling/heating chamber. Airflow between food containers keeps temperature evenly distributed
- Allow airflow around fan area; blocking airflow will slow cooling or heating

## **INTRODUCTION**

Thank you for choosing the Vector Mini Fridge Deluxe Cooler and Warmer, one of the most advanced, state of the art units on the market today. Please read this owner's manual carefully before use to ensure optimum performance and avoid damage to the unit itself or power sources from which it operates.

The Mini Fridge Deluxe Cooler and Warmer is compact, lightweight, and portable. It provides convenient storage for cold or hot beverages and foods, making conventional insulation-only coolers, thermal bottles, jars and insulated chests obsolete.

### **FOR EXTENDED USE:**

No need for a refrigerator. Simply plug the Mini Fridge Deluxe Cooler and Warmer into converter's 12 Volt DC outlet or vehicle's 12 Volt DC accessory outlet to keep food and drinks cold or warm. No more digging around in melting ice and water for soggy foods and dripping drinks. No need for ice, dry ice, or cold/hot packs. Ideal for use in a:

- Home or motel - use with the supplied AC/DC 110 volt converter
- Car
- Truck or SUV
- RV, mobile home, camper
- Boat
- At the beach, on picnics, at the campground - use with battery power

### **FOR SHORT-TERM USE AWAY FROM AC POWER:**

When you have to leave the vehicle in the parking lot at the beach, park, campsite, stadium or ballpark, simply plug the Mini Fridge Deluxe Cooler and Warmer into a reliable cordless, rechargeable power supply, such as:

- Any Vector cordless, rechargeable Jumpstarter & 12 volt DC Power Supply
- The Vector cordless, rechargeable Pocket Power or Pocket Generator

**NOTE:** When used with a rechargeable power supply, a full-charge on the power source is recommended for optimum performance.

## **COMPLETELY PORTABLE**

Take the Mini Fridge Deluxe Cooler and Warmer with you, wherever you go, to keep cold or hot food and drinks at just the right temperature. Ideal for use:

- At the office, for lunches and snacks
- In a motel, as a personal mini-fridge
- On the road, for refreshments on long journeys
- On camping and day trips, for cold or hot food and drinks
- At tailgate parties for cooked dishes, snacks or drinks
- At the beach, picnics or barbecues for cookout supplies - keeps meats and condiments cool or prepared dishes hot
- Hold up to twenty one 12 oz. soda cans

## **IMPORTANT SUGGESTIONS**

Vector's Mini Fridge Deluxe Cooler and Warmer cools like a refrigerator and warms like an oven. For best performance, plug in the unit approximately 2 hours before loading to give it time to warm up or cool down. Always try to fill your unit with pre-chilled or pre-heated food or beverages, as the unit will always perform at its best when you do this. Generally, your unit will cool to approximately 40 °F. To ensure optimum performance, always keep the unit out of direct sunlight when running on the cold cycle. When the unit is running on the warm cycle, it will warm to approximately 120 °F. On cold days, the unit will need more time to reach the maximum warm temperature. Contact Technical Support at (954) 584-4446 or toll free at (866) 584-5504 for further information.

The Mini Fridge Deluxe Cooler and Warmer can be used with most food and beverages, either cold or hot. Use with standard household containers or ready-to-use food and drink packaging. Ideal as a:

### **COOLER:**

- Beverages - soda, beer, wine, juice, milk, iced tea or coffee, shakes, thirst quenchers, water and more - in cans, bottles, cartons, pouches, sport bottles, etc.
- Food - salads, sandwiches, deli meats, hamburgers, hot dogs, meat or fish, buns, condiments and dips, etc.
- Desserts - puddings, fruit cups, yogurts, etc.
- Snacks - fruit, candy, chocolate, cookies, fruit bars, chips, etc.

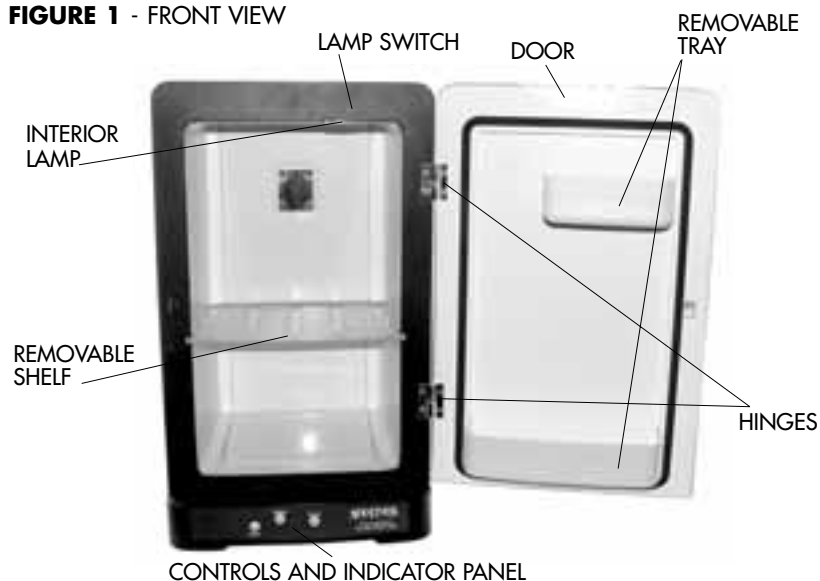
### **WARMER:**

- Beverages - hot coffee and tea, cocoa, milk, etc.
- Food - leftovers, pre-packaged/pre-heated meals, take-out food, soups, covered dishes, stews, casseroles, etc.

## FEATURES (See Figure 1)

- Microprocessor controlled for digital accuracy.
- Pushbuttons digitally set temperature.
- Displays set temperature or current temperature in °C or °F.
- Operates upright - refrigerator style.
- Interior lamp automatically lights when door is opened.
- Use with standard household containers or ready-to use packaging.
- Rests on vehicle floor or tailgate for easy access.
- Extra-long, 7-foot, 12 volt DC power cord with 12 Volt DC plug; equipped with replaceable 10-amp fuse to protect the unit and power source.
- Durable, weather resistant construction and easy-open and close door.
- Environment-friendly CFC-free polyfoam liner.
- Cold/heat transfer to foods via temperature-efficient liner.
- Built-in heat dissipation fan with long-life, brushless motor.
- Full range user set thermostatic temperature control.
- Digital Display shows internal temperature.
- Removable door compartments.
- Removable interior shelf to allow larger packages to fit.
- Automatic shut-off to prevent overheating of unit.
- Replaceable interior lamp.
- Indoor operation using the supplied AC/DC converter.
- Compact, lightweight, completely portable - use with supplied AC/DC converter or with vehicle or boat's 12 volt DC accessory outlet.
- Non-wearing thermoelectric system cools to approx. 40 °F or warms to approx. 120 °F from surrounding air temperature.
- Attractive stainless steel door (see cover photo)

**FIGURE 1 - FRONT VIEW**



## CAUTIONS

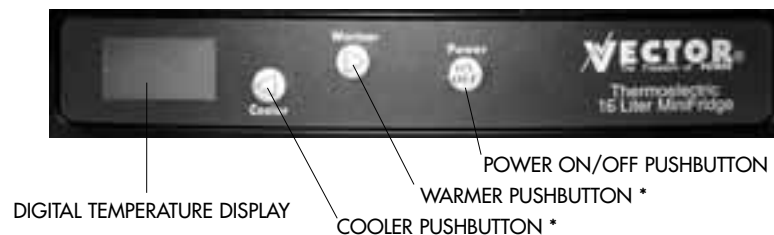
- This unit is intended for use with the supplied 12 volt DC power source (converter) that can provide at least 4 amperes of current. DO NOT attempt to use with any power source that provides less than 4 amperes at 12 volts DC.
- NEVER operate unit in an enclosed space. ALWAYS ensure that there is adequate ventilation and free flow of air around the unit, so that warm air expelled by the fan (in the rear of the unit) is effectively dissipated.
- When operating the unit in a vehicle or boat cabin, adequate ventilation must be provided by an air conditioning system or open window. In a car with windows up, air temperatures can reach 150 °F.
- This unit is not designed to be built-in or recessed - this would interfere with the unit's air dissipation system, and could cause a fire or other safety hazard.
- Use only with the supplied power cord. If cord becomes worn or damaged, discontinue use and call Vector Customer Service Department for an authorized replacement.
- Never allow the cooler/warmer or AC/DC converter to be immersed in water or other liquid. This will void the warranty.
- Make sure the AC/DC converter is connected to 110 V AC, 60 Hz power.
- Do not leave plugged in. Disconnect AC/DC converter when not in use, or when cooler is turned OFF.

## USE AS COOLER OR WARMER

Figure 2 details the locations of the Digital Display and the Pushbuttons.

1. Start vehicle, or turn ignition to accessory position.
2. Insert the Power Cord's DC plug into the converter or vehicle's 12 volt DC accessory outlet and the other cord connector into the receptacle on rear of cooler/warmer. Refer to either CONNECTING TO THE SUPPLIED AC/DC CONVERTER or CONNECTING TO PORTABLE DC POWER SUPPLY, if required.
3. Press the ON/OFF Power Pushbutton. The Digital Display will light.
4. Press and hold down either the COOLER or WARMER button to set the desired temperature. The Digital Display will show the desired temperature.

**FIGURE 2 - CONTROLS AND INDICATOR PANEL**



\* Press both buttons at same time to change from °F to °C

**NOTES:** The display will automatically change back to display the current temperature after releasing the button. Pressing both COOLER and WARMER at the same time changes the display to °C or °F.

5. Put items into the unit and close the door. Do not overstuff the unit or keep the door from closing.
6. Keep door closed during operation and re-close it quickly when adding items to the unit or removing items from it.
7. After use, press the Power pushbutton to turn OFF the unit then empty the unit.
8. Disconnect the power cord from the converter or accessory outlet and from the unit. Disconnect the converter from AC.
9. Clean unit as described in the Care & Maintenance section of this manual.
10. Store in a cool, dry area out of direct sunlight.

### CAUTIONS

- The unit can take up to 2 hours to reach its optimum set temperature if the set temperature is an operating extreme (approx. 40 °F to warm temperature 120 °F). It is recommended that items to be placed in the unit are at the correct temperature. This will assist the unit in reaching the desired temperature as quickly as possible
- The unit will continue to operate as long as power is applied to it and it is turned ON.
- If the vehicle engine is turned off, the unit will continue to draw power (a nominal 3.6-amps or 44 watts) from the vehicle battery.
- If the engine is switched off for a long period (overnight) it is important to disconnect the unit from the accessory outlet to avoid draining the vehicle's battery.

### WARNINGS

- Food will stay at desired temperature for some time after the unit is disconnected or turned off, but the temperature will eventually change to that of the surrounding air.
- Observe common sense hygiene rules, as with any cooling/heating unit. Do not eat or drink perishable items that may have spoiled or become contaminated from lack of proper temperature control.

### CAUTIONS

- The unit is intended to maintain the temperature of pre-cooled or pre-heated food and beverages; it is not designed to warm cold items or to heat cold items.

### CONNECTING TO THE SUPPLIED AC/DC CONVERTER

**FIGURE 3** - VEC002 AC/DC Converter



- Plug supplied Vector VEC0024 ampere converter's power cord into standard 110 Volt 60 Hz outlet.
- Insert the 12 Volt DC connector of the cooler/warmer into the socket on the converter.
- Connect the other end of the cooler's power cord into the polarized receptacle on the rear of the cooler.
- Continue operating the cooler/warmer as described under USE AS A COOLER WARMER.

### CONNECTING TO A PORTABLE 12 VOLT DC POWER SUPPLY

- Insert the 12 volt DC plug on the power cord into the 12 volt DC socket on the portable power supply and the other end of the power cord into the receptacle on the rear of the cooler.
- Continue operating the cooler/warmer as described under USE AS A COOLER WARMER.
- Observe all CAUTIONS AND WARNINGS

**Note:** With a current draw of approximately 3.6 amps (44 watts), the unit will operate for approximately 1.2 hours from a fully charged 12 volt DC portable power supply, such as the Vector Pocket Power (Model #VEC018). A standard 19 Ampere Hour Jumpstarter/Power Supply such as the VEC021 or VEC020 series - can operate the cooler/warmer for approximately 4.8 hours.

### CARE AND MAINTENANCE

The Mini Fridge Deluxe Cooler and Warmer is ruggedly constructed to provide years of dependable service.

- After each use, clean the unit, inside and out, with a soft cloth and mild soap solution.
- Do not scrape, scratch or puncture the surface of the unit with sharp objects or abrasives.
- Dry the unit properly and store in a cool, dry place.
- Always make sure the power cord and converter are disconnected before storing.
- Never allow the unit to be immersed in liquid.

### TROUBLESHOOTING

#### PROBLEM/POSSIBLE CAUSE/REMEDY

- Accessory outlet of DC power supply is not functioning-check by plugging in a different (less than 4 amp) 12 Volt DC appliance. If not, clean accessory outlet and reconnect the Mini Fridge Deluxe Cooler and Warmer .
- Fuse or circuit breaker in accessory outlet is open. Reset breaker or check fuse, and replace fuse if necessary. (See paragraph below)
- Ignition is switched off - start engine or switch ignition to accessory position.
- Fuse in unit's DC power plug is blown - see Fuse Replacement section for location of fuse and instructions for checking and replacing fuse.

#### REFRIGERATOR/WARMER IS NOT COOLING OR HEATING PROPERLY (FAN IS NOT TURNING).

- Fan is defective. Call Vector Customer Service Department for return/replacement instructions. This unit is not user-serviceable, it must be returned to Vector Manufacturing for professional service or repair. Any attempt to service by user will void warranty.

#### REFRIGERATOR/WARMER IS NOT COOLING OR HEATING, BUT FAN IS TURNING.

- Cooling unit is defective. Call Vector Customer Service Department for return/replacement instructions. This unit is not user-serviceable, it must be returned to Vector Manufacturing for professional service or repair. Any attempt to service by user will void warranty.

#### REFRIGERATOR/WARMER TAKES LONGER THAN 2 HOURS TO REACH DESIRED TEMPERATURE INSIDE.

- Low battery or supply voltage. Check converter output.
- Unit will attain desired temperature more efficiently if items are pre-heated or pre-chilled.
- Fan area is blocked - Move unit or object.

## **FUSE REPLACEMENT**

The power cord is fuse-protected against short-circuiting, by a 10-amp fuse located in the tip of the DC power plug. If the DC socket is powered, but the unit does not operate, then the cooler/warmer fuse may be open.

To inspect or replace the DC Power Cord Fuse

1. Unscrew the end-cap of the DC plug counterclockwise.
2. Remove fuse, inspect it for an open element, and replace with a new 10 amp fuse, if needed.
3. Re-attach the end-cap to the plug.
4. If new fuse opens, call Vector Customer Service Department for further instructions and possible return/replacement. This unit is not user-serviceable, it must be returned to Vector Manufacturing for professional service or repair. Any attempt to service by user will void warranty.

## **LAMP REPLACEMENT**

At the inside top of the cooler there is a lamp that lights when the cooler door is opened. If the lamp does not light when the door is opened, and the unit is powered, the cartridge type bulb should be replaced. These are available from most automotive supply stores. Replace the bulb with one that is the same type and rating.

1. Disconnect all power to the cooler/warmer
2. Empty the cooler of it's contents
3. Turn the cooler upside down so that the lamp assembly is down and is accessible.
4. Slide the clear plastic cover part way towards the front of the unit.
5. Lift the clear cover and expose the bulb
6. Using a paperclip, form a half-inch hook at one end.
7. Hook the paperclip under the bulb at one end and lift the end of the bulb.
8. The bulb will disconnect from the springs of the socket.
9. Place the new bulb between the socket springs.
10. Replace the clear plastic cover by reversing the removal actions.
11. Turn the unit right side up.
12. Apply power and open the door.

If there are any problems call Vector Technical Support Toll Free (866) 584-5504.

## **SPECIFICATIONS**

Capacity	21 twelve oz. cans /16 Liter/4.2 Gallons (US)
Operating Voltage	12 Volt DC
Power Cord	7', with fused 12 Volt DC power plug
Replaceable fuse in DC Plug	10 Amps
Replaceable Interior Lamp	12V, 3.6 watt cartridge (Festoon)
AC/DC Power Adapter	110 Volt AC to 12 Volt DC at 4 Amps.
Amperage Draw	3.6 Amperes (approx. 45-watts)
Cooling Performance	Cools to average 40 °F
Warming Performance	Warms to 60 °F above surrounding air or 120 degrees maximum
Cold/Heat Transfer	Temperature-efficient, easy clean liner
Insulation	.CFC-free liner
Heat Dissipation	Built-in fan with long-life, brushless motor
Warm/Cool System	Non-wearing thermoelectric
Outside Dimensions	H 19in. (48.3cm) x W 11.5 in. (29.3cm) x D 11.25 in. (28.6cm)
Weight	13.65lbs (6.19 Kg)

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