



The Most Reliable & Efficient Portable 12/24 & 110/220-Volt Refrigerator/Freezers Made

INSTRUCTION MANUAL FOR RECREATIONAL REFRIGERATOR/FREEZER MODEL

15-LITER, 20-LITER, 35-LITER, 45-LITER, 60-LITER & 100-LITER

SECTION 1 Basic Operation

SECTION 2 Cleaning and Storing

SECTION 3 Basic Trouble Shooting

Last revised April 18, 2011

**PLEASE READ ENTIRE INSTRUCTION MANUAL BEFORE
USING THE *SPORTFRIDGE* UNIT**

SECTION 1

Basic Operation

WARNING

SportFridge portable refrigerator/freezers are powered by electric current; not taking proper steps to ensure safety can potentially injure or kill. **ANY** installation, cleaning, or troubleshooting must be conducted with the electrical power source disconnected from the unit.

- After receiving the SportFridge unit from the shipper, please wait 24 hours before turning it on. The oil in the compressor needs time to settle. Ensure unit is upright and out of the box.
- Never operate the SportFridge unit at a tilt exceeding 30 degrees. The oil reservoir will not lubricate the compressor motor properly at angles above 30 degrees.
- SportFridge units can operate with 12/24-volts DC power or with 110-volts AC power. 12/24-volts DC power is found in most cars, trucks, RVs and boats. 110-volts AC power is found in all U.S. homes and office buildings. Make sure to use the black appliance cord for 110-volts AC power and the red and black lead for 12/24-volts DC power.
- A deep cycle battery is the best power supply when operating a SportFridge unit using 12/24 –volts DC. Our UPS (uninterruptable power supply) battery back-up systems includes a deep cycle battery.
- The SportFridge can operate from a vehicle’s cigarette outlet with the included cigarette lighter adapter.
- When using the SportFridge unit in a vehicle with only a single battery for more than a day, a SportFridge UPS Battery Back-Up System is highly recommended. Using the SportFridge UPS Battery Back-Up System will ensure your vehicle’s battery is not drained, leaving the vehicle unable to start its engine.
- Generators are NOT a recommended power source for the SportFridge and can damage the unit’s control module. NEVER connect the SportFridge unit directly to a generator.

- SportFridge units are equipped with a green light indicator located on the control panel. The compressor is running when this light is illuminated.
- The thermostat dial has 8 positions with #0 being OFF. Position #1 is the warmest and Position #7 is the coldest.
- The handles can be used to secure the SportFridge unit in any type of vehicle. Nylon cam straps or stainless-steel turnbuckles are suggested for use.
- On units with a high/normal compressor speed switch, the compressor speed should be set in the *normal* position most of the time. If rapid cooling is needed, the switch can be moved to the *high* position. The *high* position will cool the interior faster, but will also consume approximately 15-20% more power.
- **35-liter, 45-liter, 60-liter & 100-liter modules only:** The SportFridge comes with a thermal barrier which can be used to create separate temperature zones inside the unit. This allows your SportFridge to be used as a refrigerator and a freezer at the same time. The SportFridge refrigerates from the bottom up; place items you wish to freeze at the bottom of the unit. Place the thermal barrier on top of those items. Then place the items you wish to refrigerate on top of the thermal barrier. Some supervision of the contents will be necessary so that the right thermostat setting can be achieved. The thermostat setting that will best freeze and simultaneously refrigerate will vary depending on the ambient temperature.
- At least 4 inches of ventilation space around a SportFridge unit is recommended in order to properly dissipate heat. Keeping the unit well ventilated will improve performance.
- Whenever possible, avoid operating the SportFridge unit in direct sunlight; doing so will decrease the unit's efficiency.
- Several factors affect the efficiency of a SportFridge unit. These factors include: the ambient temperature, the amount of items inside the unit, and the starting temperature of the items put in the unit. Placing warm items inside the unit in hot ambient temperatures and leaving the lid open will all negatively affect the performance of the SportFridge. Using the SportFridge unit is the best way to learn its capabilities.
- Whenever possible, pre-cool your SportFridge unit and its contents in advance with the 110-volt power source before taking it out to the field. Always place the warmest items towards the bottom of the unit and the coldest items towards the top.

SECTION 2

Cleaning and Storing

WARNING

SportFridge portable refrigerator/freezers are powered by electric current; not taking proper steps to ensure safety can potentially injure or kill. **ANY** installation, cleaning, or troubleshooting must be conducted with the electrical power source disconnected from the unit.

- The best way to clean your SportFridge unit is with a bucket of warm water, a sponge and a bottle of all-purpose cleaner. Never submerge a SportFridge unit in water.
- If the SportFridge is used as a freezer for long periods of time, (approximately 2-3 months) the unit should be periodically defrosted with its contents removed.
- Although the inside compartment of your SportFridge is sealed, water should not be left inside the unit for long periods of time. **Never** empty water out of the unit by turning it upside down. Doing so can cause water to collect in the top of the cowl. Remove excess water with a sponge.
- To store the SportFridge unit:
 1. Unplug the unit.
 2. Defrost the unit with the lid open.
 3. Once defrosted, remove excess water with a sponge.
 4. Store unit with the lid cracked open
 5. Cables and baskets can be stored inside.

SECTION 3

Basic Troubleshooting

Observation	Probable Cause (Work down the list)	Remedy	Part Description & Number
AC power does not work	1. No Power from AC outlet	Check main room switch	
	2. Burned out fuse in AC circuit	Replace internal fuse	4 amp slow blow E-149 100LT: 10 amp slow blow E-148
DC power does not work	1. Blue connector not secured properly	Twist blue plug clockwise until it snaps into place	
	2. Polarity incorrect	Fix polarity	
	3. 12-volt DC supply has low voltage	Fix DC voltage to 11.7-volts or higher	
	4. Blown fuse within the DC chord	Replace inline fuse	ATC15 amps E-123
	5. Blown internal fuse in DC circuit	Replace internal fuse	ATC15 amps E-123
	6. Low voltage at control module terminals	Fix connection	
Both AC and DC do not work	1. Loose connection in control module	Correct	
	2. Loose Connection in stat	Correct	
	3. Malfunctioning stat	Replace	Danfoss Stat H-125
	4. Dead control module	Replace	Danfoss Module CP-101
	5. Service personnel rewired internal harness incorrectly	Consult wiring diagram	
Cigarette lighter is not working	1. Blown fuse(s) in cigarette lighter adapter	Replace fuses(s)	E-148/E-123
	2. Some vehicles require the ignition to be turned to accessory mode	Turn ignition	
	3. Voltage at cigarette outlet is too low	Rewire DC lead directly to vehicle's battery	
Observation	Probable Causes (Work down the list)	Remedy	Part Description & Number

