DC COMPRESSOR DUAL ZONE FRIDGE-FREEZER

MODEL: Truma Cooler C69 DZ US, Truma Cooler C85 DZ US, Truma Cooler C96 DZ US

INSTRUCTION MANUAL

Congratulations on the purchase of this quality Refrigerator-Freezer.
We the manufacturer trust that you will enjoy many years of trouble free use.
Please read the instructions carefully before using your Refrigerator - Freezer.

This book will provide you with information on how to operate and care for your Refrigerator-Freezer in order to gain the maximum benefit from it.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

FCC& IC Radiation Exposure Statement:

This equipment complies with FCC and Canada radiation exposure limits set forth for an uncontrolled environment.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Déclaration d'IC sur l'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux radiations définies par le Canada pour des environnements non contrôlés. Cet émetteur ne doit pas être installé au même endroit ni utilisé avec une autre antenne ou un autre émetteur.

Warning:

1）This appliance can be used by children aged from 8 years and above and persons with reduced physical,
sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or
instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall
not play with the appliance. Cleaning and user maintenance shall not be made by children without
supervision.

2）Do not store explosive substances such as aerosol cans with a flammable propellant in
this appliance.

3）This appliance is intended to be used in household and similar applications such as
– staff kitchen areas in shops, offices and other working environments;
– farm houses and by clients in hotels, motels and other residential type environments;
– bed and breakfast type environments;
– catering and similar non-retail applications

4) The appliance suitable for camping use;
5) The appliance shall not be exposed to rain

6)The appliance must be earthed and connected to a suitable 100-240 volt or 12/24 volt socket. The manufacturer and the seller do not accept responsibility for any damage due to incorrect electrical installation.

TEST-RUN

- ✧ DC input condition, the voltage range required is DC12-24V, if the power is not stable, the unit will not run. The unit will restart when the voltage is normal.
- ✧ AC input condition, the voltage range required is 100～240V.
- ✧ Do not pull the appliance by power cord.
- ✧ Connect power, set the digital thermostat to -18℃ and check the indicators, 30 minutes later, open the door and check the inside surface. If the inside surface is cold, your appliance is working.

Operation with AC100-240V/50Hz

- ✧ Connect the appliance to a AC100-240V power source using the removable AC cable supplied with the appliance.
- ✧ In the Temperature window the temperature last set will flash for 5 seconds and then automatically change to display the temperature inside the cabinet.

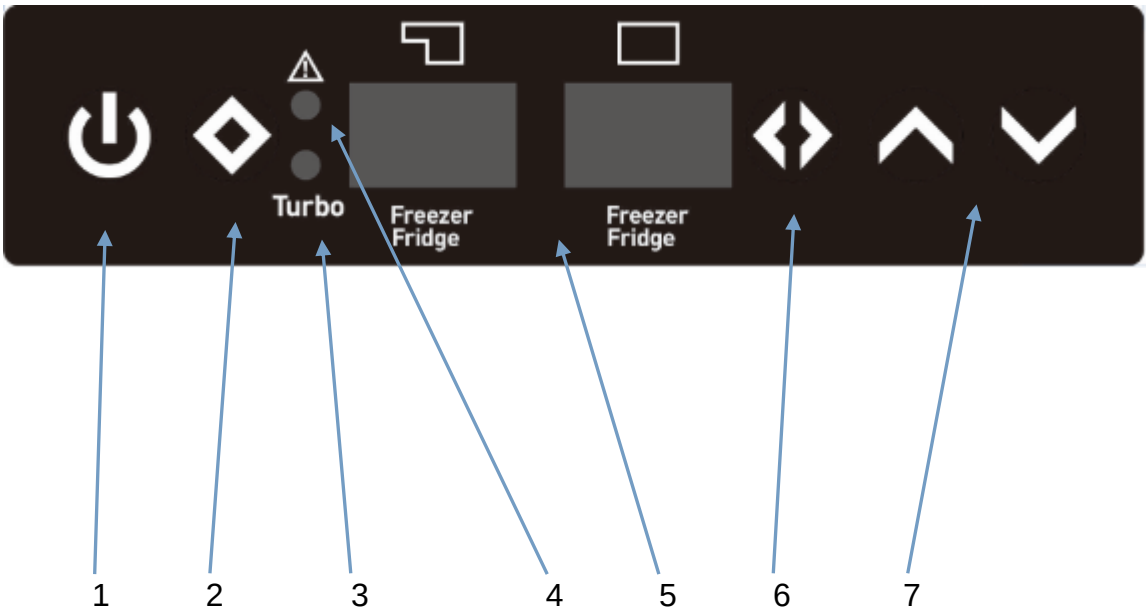
- ✧ Press the “Up” or “Down” keys to set the temperature you require.
- ✧ The set temperature will flash for 5 seconds and then automatically change to display the temperature inside the cabinet.
- ✧ To turn off the appliance, remove the plug from socket.

Operation with DC12V/DC24V

- ✧ Connect the “DC cable supplied with the appliance to a suitable DC socket outlet .A 120 watt dc socket outlet is recommended. The appliance will automatically identify and apply DC12V or DC24V.
- ✧ The LED light “12V” (Noted: 12V and 100-240V share the same light) or “24V” will illuminate to indicate the appliance is working.
- ✧ In the Temperature window the digital temperature last set will flash for 5 seconds and then automatically change to display the temperature inside the cabinet.
- ✧ Press the “Up” or “Down” keystrokes to set the temperature you required.
- ✧ The set temperature will flash for 5 seconds and then automatically change to display the temperature inside the cabinet.
- ✧ To turn off the appliance, remove the DC plug from the DC socket.

NOTE: When using 24V and 100-240V together, make sure to plug in 100-240V power cord first then the 24V power cord. Otherwise the appliance will “BEEP” indicating low voltage. This is not a malfunction.

CONTROL PANEL:



1. ON/OFF switch button
2. ECO and TURBO switch button
3. Turbo running indicator
4. Faulty LED indicator
5. LED display
6. Function selector

7. Temperature setting button

POWER SOCKET PANEL:

Front side:

The USB socket in the above panel is 5V/3A. it is normally for electrical appliance charge or LED light charge. It is forbidden to charge the appliance which is not within voltage range.

When you switch on the Emergency override, the control panel is out of use, compressor will keep on running. It is suggested to use only when the control panel is out of function. Fridge power consumption is higher when use emergency override, but battery protect function is still working.

Back side:

Both sides DC socket have the same function.

MAINTENANCE AND REGULAR CLEANING

- ✧ Always disconnect the power supply before cleaning. Clean the inside of the cabinet whenever necessary using a warm solution of water and bicarbonate of soda(1 tablespoon to every 2 liters of water) dry with a soft cloth
- ✧ Dirt from the condenser should be cleaned by a qualified technician when necessary.

NOT A MALFUNCTION

- ✧ 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 70-90℃ when running.
- ✧ The noise emitted by the cooling fan on the condenser is a normal condition.

MAIN TECHNICAL PARAMETER

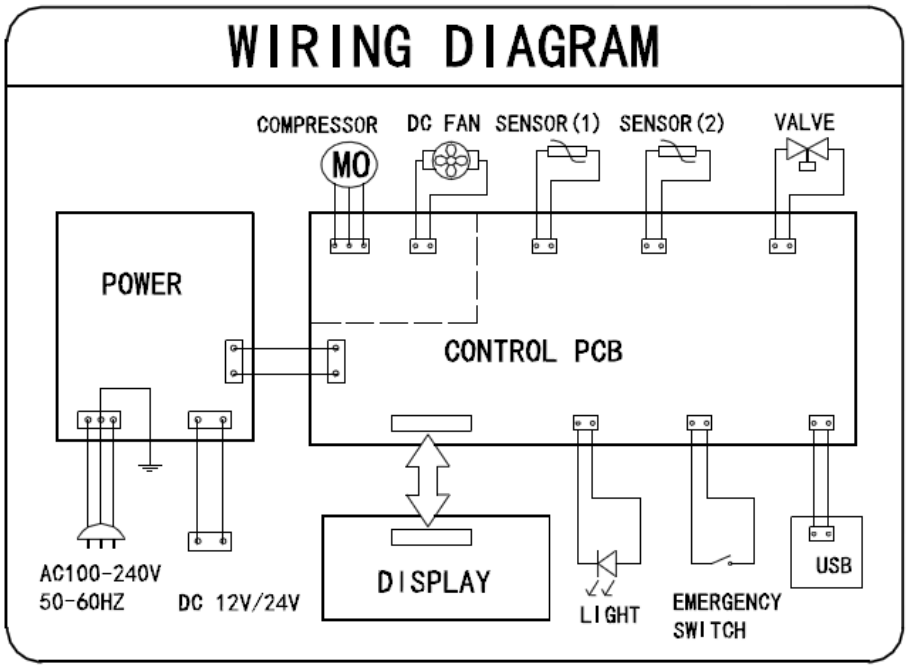
MODEL	Truma Cooler C96 DZ US	Truma Cooler C85 DZ US	Truma Cooler C69 DZ US
VOLUME	96L	85L	68.5L
VOLTAGE	100V-240V~ 50~60Hz	100V-240V~ 50~60Hz	100V-240V~ 50~60Hz
INPUT CURRENT	0.55A at AC240V	0.55A at AC240V	0.53A at AC240V
DC POWER AND CURRENT	5A at 12V ⎓ 2.5A at 24V ⎓	5A at 12V ⎓ 2.5A at 24V ⎓	5A at 12V ⎓ 2.5A at 24V ⎓
GAS	R134a / 98GRAMS	R134a / 98GRAMS	R134a / 70GRAMS
FOAMING	C-Pentane	C-Pentane	C-Pentane
LOWEST TEMP.	-22ºC	-22ºC	-22ºC
HIGHEST TEMP.	+10ºC	+10ºC	+10ºC
NET WEIGHT	31.8	29.8	27.2
DIMENSION	W912*D536*H500	W912*D536*H420	W732*D456*H555

SAFTY:

A separate earthed 15A socket outlet should be used on 100-240V AC and at least a 120W DC socket on 12/24V DC.

In the event of any malfunction of your freezer, please contact the nearest service agent.

CIRCUIT DIAGRAM



TROUBLESHOOTING

problem	Cause	Remedy
The compressor runs for 1～5 minutes and stops	The voltage is not in the normal range	Switch off power and restart when power is normal
The compressor runs but inner liner does not get cold	The refrigerant has leaked	Contact your local dealer
	The system is blocked	
The inner liner is very cold and the compressor runs continuously.	The door is being opened and closed too frequently	The door should be opened as little as possible
	The condenser is not well-ventilated. The controller is faulty	Select a well-ventilated place
The compressor does not run	“+” and “-” are switched.	Rectify
	The controller is faulty(the power indicator is not on)	Contact your local dealer
	The thermostat is set too high; the ambient temperature is too low.	Use as a freezer
The freezer is noisy	The freezer is not placed properly.	Make the freezer level
	Some parts have come loose.	Contact your local dealer
	The pipes are touching.	Contact your local dealer

1 Flash every 4 seconds	Low Voltage	Try on different power source (vehicle or 240V AC power). If changing power source fixed, then possible issue with the original power source. Ensure cabling between fridge and battery is at least 4mm, if the distance is more than 2 meters then use at least 6 mm cable.
2 Flashes every 4 seconds: fan issue	Fan issue	Fan is drawing too many Amps (over Amps), replace fan.
3 Flashes every 4 seconds	compressor start issue	Unplug cable and allow unit to rest for 10 minutes. Try on different power source (vehicle or 240V AC power) Electronic box fault. Compressor fault.
4 Flashes every 4 seconds: low motor speed	low motor speed	Reduce products /items inside unit. Move so unit is in a lower ambient temperature; clean vents/ensure clear air flow over compressor. Fan fault.
5 Flashes every 4 seconds	over temperature	Ambient temperature too high. Clean vents / ensure clear air flow over compressor Fan fault.

MOVEMENT AND INSTALLATION

- ✧ When moving the freezer, the angel between the cabinet and the ground should not be less than 45^{o} in order to protect the compressor and refrigerating system.
- ✧ Position the freezer in a dry and well-ventilated place. Keep the freezer away from

direct sunlight, heaters and corrosive gases.

- ✧ The normal operation of the freezer depends on the heat radiation of the condenser. For the initial use, the packing foam must be taken off and at least 150mm space must be left around the freezer.

CORRECT DISPOSAL OF THIS PRODUCT:

This symbol on the product, or in its packaging, indicates that this product may not be treated as household waste. Instead, it should be taken to the appropriate waste collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by the inappropriate waste handling of this product. For more detailed information about the recycling of this product, please contact your local council, your household waste disposal service, or the shop where you purchased the product.