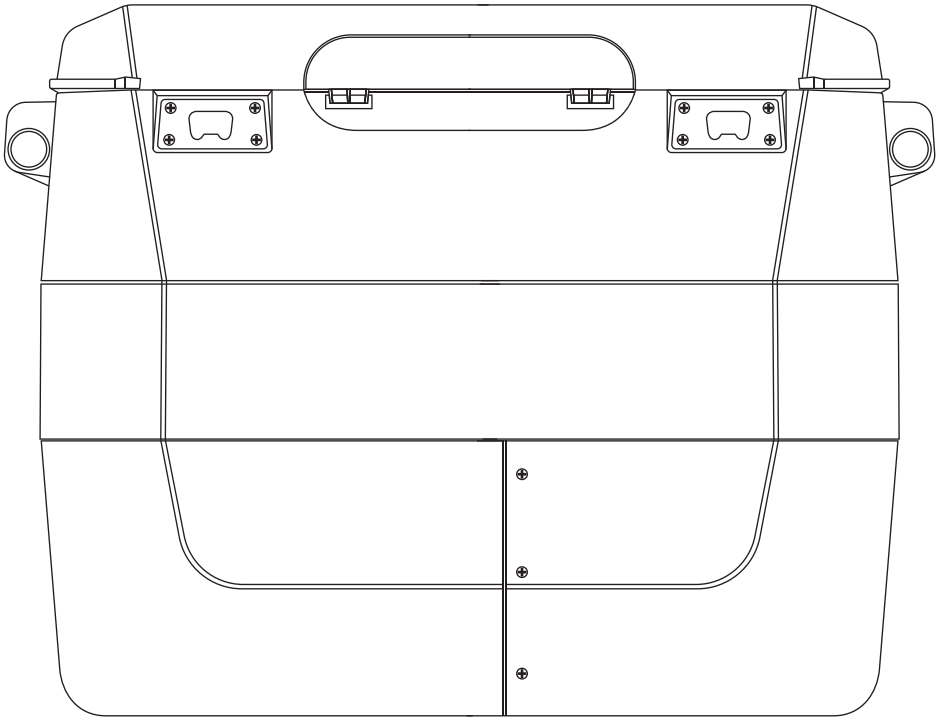
SnoMaster®

ICE COLD ANYWHERE

# USER MANUAL AND PRODUCT SPECIFICATIONS



## SMDZ-LS135

36.5L PORTABLE
**FRIDGE/FREEZER**

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SnoMaster®

3 YEAR WARRANTY ON THE UNIT

7 YEAR WARRANTY ON COMPRESSOR

# THANK YOU FOR PURCHASING THE SMDZ-LS135, 36.5L PORTABLE FRIDGE/FREEZER

## • WARRANTY, SERVICE AND SUPPORT •

This product has a **7-year warranty on the compressor, 3-year warranty on the unit and 1-year warranty on all parts not listed** from the date of purchase. Warranty does not cover products that have not been used in accordance with the user guide or are outside the warranty terms and conditions, which can be found at the following url:

**https://snomaster.co.za/warranty/**

### WARRANTY REGISTRATION

Register your SnoMaster SMDZ-LS135, 36.5L Portable Fridge/Freezer now for warranty, and allow us to provide you with the best possible after sales service:

- Please log onto our website at **www.snomaster.co.za**
- Click on the 'Warranty' tab.
- Enter warranty information and upload proof of purchase at the bottom of the page.

### SERVICE AND SUPPORT

Should an instance arrive where you require assistance, contact our service team:

- Please log onto our website at **www.snomaster.co.za**
- Click on the 'Support' tab.
- Click 'Find a Repair Agent Near You' and enter your region.
- Alternatively contact us via email: **info@snomaster.co.za** or contact us on **+27 11 392 5315**.

# IMPORTANT SAFETY INFORMATION

## SMDZ-LS135, 36.5L PORTABLE FRIDGE/FREEZER

**This manual contains important information including safety, installation, maintenance and warranty instructions of the SnoMaster SMDZ-LS135, 36.5L Portable Fridge/Freezer. Please read this manual carefully before use and follow all safety information and instructions. It is recommended to keep this manual for easy reference so that you are familiar with the operation and maintenance of your appliance.**

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### NOTE BEFORE USING YOUR APPLIANCE

Before using this appliance, ensure it is correctly positioned and installed as outlined in this manual. Follow these basic precautions to prevent the risk of fire, electrical shock, or injury:

- This appliance is designed for domestic indoor and outdoor use only and suitable for camping and vehicle use.
- Ensure that the incline angle of the appliance is not more than 45° during transportation or operation.
- Ensure the appliance is placed on a flat surface.
- Ensure the plug is easily accessible after positioning the appliance.
- Ensure the appliance is well ventilated and the air vents are completely unobstructed.
- This appliance operates on a single-phase voltage of 220-240V/50Hz, to avoid electrical surges. It is advised to use a surge protector plug. No surge protection is required on 12v due to the voltage cut-out settings on the appliance.
- A separate earthed 15A socket outlet should be used on 220-240V AC and at least a 120W DC socket on 12V or 24V DC.
- Avoid disconnecting the electric plug with wet hands.
- To disconnect the appliance, grip the plug and pull it from the wall outlet or 12V cigarette outlet. Never pull the plug out by the cord.
- It is advisable is use a dedicated power source and avoid using extension cords.

- Please unplug the appliance or disconnect the power before performing any cleaning, maintenance, or servicing.
- If the appliance cord is damaged, it must be replaced by SnoMaster, its approved agent, or a similarly qualified person to prevent any hazard.
- Unless specifically recommended in this manual, do not attempt to repair or replace any part of the appliance. All other servicing should be referred to a qualified technician.
- Never clean appliance parts with flammable fluids as they may create a fire hazard or explosion. Also, avoid storing or using petroleum or other flammable vapours and liquids near this appliance.
- Avoid solvent-based cleaning detergents or abrasives on the interior or exterior as they may damage or discolour it.
- Cleaning and maintenance should be supervised by adults, especially if children are involved.
- The exterior of the appliance should not be exposed to water.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Ensure all packaging materials, stickers, and films are removed from the appliance. Clean the appliance surfaces with a mild detergent and a damp cloth before initial use.
- Before connecting the appliance to a power source, let it stand upright for approximately 12 hours. This measure helps minimise the risk of a cooling-system malfunction that might occur due to handling during incorrect transportation.
- Ensure all electrical connections are clean and dry before switching on the appliance.
- Ensure all parts are correctly assembled before operation.

**This appliance contains R134a refrigerant, which is FLAMMABLE and may cause a fire or an explosion.**

**WHEN DISPOSING THE APPLIANCE**

**Please observe the following instructions:**

- Detach the Lid.
- Always ensure the appliance is out of reach of children. Before disposing of it, damage the body to prevent children from climbing inside, ensuring their safety.
- Follow the instructions of your local regulations when disposing of the appliance.

# PRODUCT FEATURES

**2 BOTTLE OPENERS | INTERNAL LED LIGHT | CUP-HOLDERS ON LID | TURBO / ECO MODE | SHOCK PROOF DESIGN | EXTERNAL DIGITAL DISPLAY**

## SPECIFICATIONS:

- **Dimensions (mm) Unit:** (H) 465 (W) 616 (D) 382
- **Storage Volume:** 36.5L
- **Temp Range:** -20°C - 10°C
- **Net Weight:** 14.3Kg
- **Voltage DC:** 12V/24V Including 220V External AC Adapter
- **Compressor:** 55W
- **Rated Current AC:** 4.58A
- **Insulation:** Cyclopentane
- **Design Criteria:** Engineered for the African Climate

# INSTALLATION INSTRUCTIONS

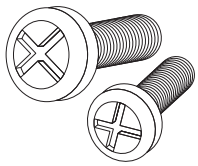
Before installing your new appliance, please read all safety instructions in this manual and follow the installation instructions below:

- Remove the appliance from the box, ensure all packaging materials, stickers, and films are removed from the product and any additional power cords.

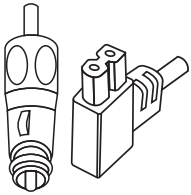
- To ensure optimal performance and reduced operational noise, position the appliance on a level, sturdy surface. If utilising a fridge slide or built-in fixture, verify its robustness to bear the appliance's weight when fully loaded.
- **Caution:** Installing the appliance on carpeting may lead to discoloration due to heat emission from the compressor.
- Ensure adequate air circulation for the appliance by maintaining a clearance of at least 150mm on all sides.
- **When transporting the appliance, avoid tilting it beyond a 45-degree angle from its upright position.**
- **Avoid areas where the appliance might be exposed to direct sunlight, any sources of heat (stove, heater, radiator, etc.), extremely hot ambient temperatures or excessive moisture.**

## ACCESSORIES INCLUDED

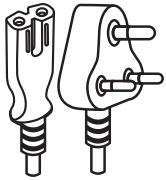
Verify that the appliance includes all the accessories listed below:



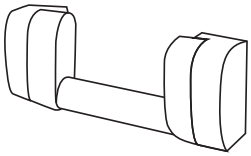
12 x SCREWS



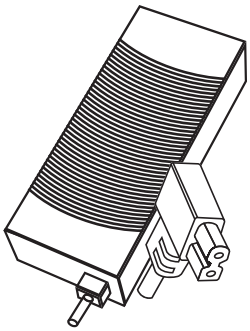
1 x 12V DC POWER CABLE



1 x 220V AC POWER CABLE



2 x CARRY HANDLES

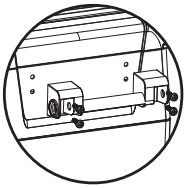


1 x 220V POWER ADAPTER

# HANDLE INSTALLATION

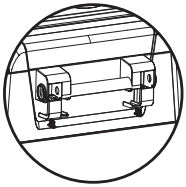
**STEP 1**

Remove the pre-fitted screws from the appliance's side.



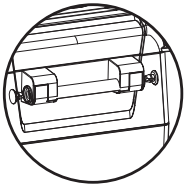
**STEP 2**

Align the provided handle bracket and secure with the four screws.



**STEP 3**

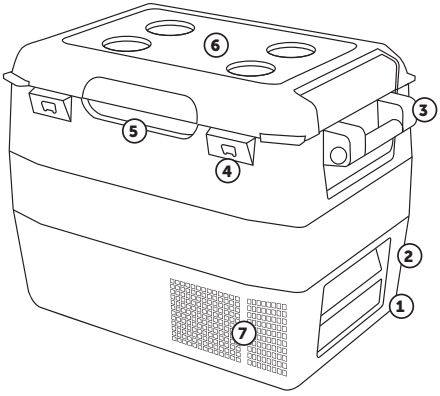
Attach the bottom part of the handle using the supplied screws.



**STEP 4**

Snap the side covers into place.

# STRUCTURE




**1** Power Input Panel

**2** LED Control Panel

**3** Handles

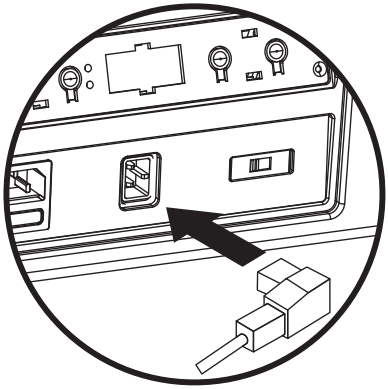
**4** Bottle Openers

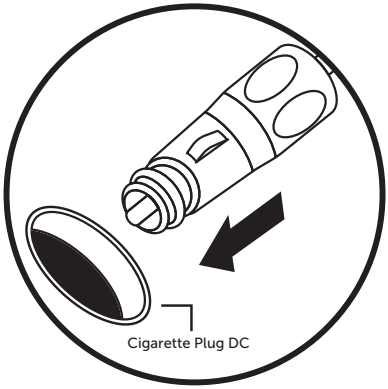
**5** Lid Latch

**6** Lid with Cupholders

**7** Air Flow Vent

# POWERING THE APPLIANCE

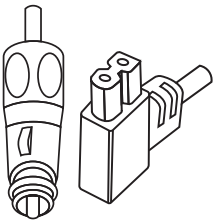





**CONNECTING WITH 12V OR 24V**

**Connect the 12V DC Cable to a direct 12/24V DC power source / cigarette plug.**

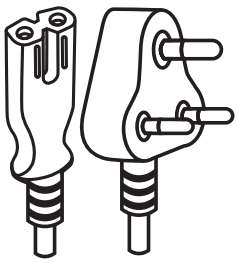
- If connected to an existing cigarette plug, ensure to check that the power supply is sufficient.
- If the supplied power cable is not used, please see the table containing the information related to the cable section. (The appliance is designed to operate on DC voltage inputs).



| | |
|---|---|
| **DC INPUT** | **12V or 24V** |
| DC Cable | 2,5m 16AWG |

**CONNECTING TO A 220V WALL SOCKET**

- Please connect the 12V/24V DC Power Cable to the appliance.
- Then connect the DC plug to the Power Cable Adapter.
- Finally, connect the Adapter Power Cable to a dedicated wall socket.



## WHAT IS THE BATTERY PROTECTION SETTING?

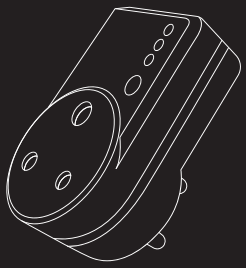
This function is designed to prevent over-discharge and battery depletion when the appliance is plugged in. When the measured DC voltage is below cut-off value, the compressor will shut off. When the voltage is higher than the start-up value, the compressor will switch on again.

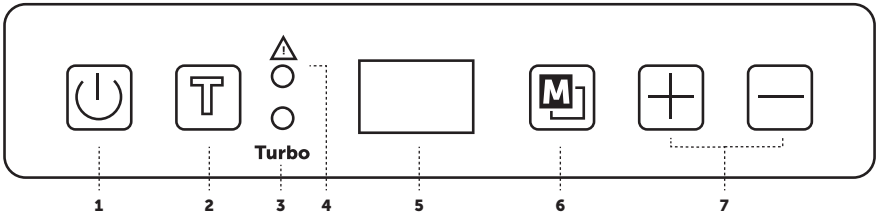
There are three settings for battery protection, depending on your requirements, as follows:

| PROTECTION LEVEL / POWER SOURCE | LO | | NE: | | HI | |
|---|---|---|---|---|---|---|
| | START-UP | CUT-OFF | START-UP | CUT-OFF | START-UP | CUT-OFF |
| **12V** | 11.1V | 10.1V | 12.2V | 11.4V | 12.6V | 11.8 V |
| **24V** | 23.0V | 21.5V | 24.0V | 22.5V | 24.5V | 23.0V |

## SURGE PROTECTOR PLUG

**To avoid electrical surges, it is advised to use a surge protector plug.** (Please note that this must be purchased separately and does not come with the unit.)






**1** Power On/off Button
**2** Turbo Mode Button
**3** Turbo Mode Indicator Light
**4** Fault Indicator Light
**5** LED Display
**6** Function Selection Button
**7** Temperature Settings (+ / -)

# OPERATION INSTRUCTIONS

## POWER ON/OFF

Connect the fridge/freezer to a power source. Press and hold ⏻ for +/- 2 seconds to turn the fridge/freezer on/off.

## STANDBY MODE

- When you turn on the fridge/freezer and left idle for 60 seconds, the display will automatically turn off. This indicates that is has entered standby mode.
- Should the fridge/freezer lose power, it will automatically power on again once power has been restored and will return to the last input temperature setting.

**Caution: To protect the compressor, if the fridge/freezer is switched off and then on again, please note there will be a delay of approximately 1 minute before the appliance resumes operation. This is a built-in auto-protection feature.**

## ADJUSTING TEMPERATURE

With the fridge/freezer on, short press ⊕ to increase the temperature or short press ⊖ to decrease the temperature. When the desired temperature has been selected, the LED Display will flash 5 times, which means the temperature is set. The LED Display will show the current internal temperature.

## TURBO MODE

For expedited cooling, short press [T] to activate TURBO mode. The TURBO indicator light Turbo will illuminate on the LED Display.

**Please Note: TURBO mode accelerates the cooling process but also increases power consumption. Only use this feature when rapid cooling is desired.**

## SWITCHING BETWEEN FAHRENHEIT AND CELSIUS

Short press [M] once to access the Fahrenheit and Celsius degree setting on the LED Display and press [+] or [—] to select.

## BATTERY PROTECTION LEVEL SETTINGS

Short Press [M] twice to access the Battery protect level selection mode, then press [+] or [—] to select LO, NE or HI level (As indicated in 'Powering the Appliance').

**Note: In the event of a malfunction, the fault indicator light ⚠ will illuminate or blink, and the LED display will present specific error codes. These are explained in detail in the Troubleshooting Section of this manual.**

# MAINTAINENCE

For your safety, always unplug the appliance before performing any maintenance or cleaning tasks.

**INTERIOR CLEANING:**

- Empty the appliance of all items. Clean removable parts with soap and water by hand; they are not dishwasher safe.
- Use a solution of warm water and baking soda/bicarbonate of soda (15 ml per liter) to clean the interior. Avoid abrasive materials and harsh detergents.
- Do not use sharp implements to dislodge ice build-up.
- Rinse with clean water and dry thoroughly.
- To mitigate odors, place an open container of baking soda/bicarbonate of soda inside the appliance.

**EXTERIOR CLEANING:**

- Avoid cleaning the appliance with sharp tools and high-pressure water sprays.
- Avoid pouring running water over the exterior of the appliance.
- Wipe the exterior of the appliance with warm, soapy water without using abrasive cleaners.
- Take care to avoid sharp edges at the appliance's base.
- Periodically dust off the condenser with a brush or vacuum to prevent dust accumulation that could impair efficiency and increase power use.

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# FOOD STORAGE

- Limit lid openings to maintain temperature and save energy.
- Do not overfill the appliance to ensure proper air circulation around food items.
- Keep vents clear to allow proper airflow.

# ENERGY-SAVING RECOMMENDATIONS

- Position the appliance in the coolest area in your vehicle or room, away from heat sources and out of direct sunlight.
- Avoid overloading the appliance to reduce compressor workload.
- Set the thermostat to a moderate cooling temperature to avoid unnecessary energy use.
- Load the fridge/freezer with items that are already chilled or frozen to help it reach the desired temperature more quickly, alternatively, connect the appliance to a dedicated 220V power outlet until it reaches the set temperature, before switching to a 12V/24V power source.

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# STORAGE

Before storing the appliance, please remove any food items and turn off the power by either unplugging the fridge/freezer or adjusting the temperature control to the OFF position. Clean the interior with a solution made by dissolving one tablespoon of baking soda /bicarbonate of soda in 1 liter of water. Once cleaned, leave the lid(s) open to ventilate the interior.

# TROUBLESHOOTING

Should you experience any issues with your appliance and the below troubleshooting tips do not resolve the fault experienced, kindly contact SnoMaster Service Department or your nearest accredited Service Agent:

| PROBLEM | PROBLEM POSSIBLE CAUSE / MEASURE |
|---|---|
| The compressor runs for 1-5 minutes then stops | • Select a well-ventilated area and keep the fridge/freezer away from direct sunlight.<br>• Switch the power off and restart after a couple of minutes. |
| The compressor is running but interior of the fridge/freezer is not getting cold | • Ensure the fridge/freezer is well-ventilated.<br>• The Ambient temperature is too high, ensure it is not in direct sunlight or a nearby heat source. |

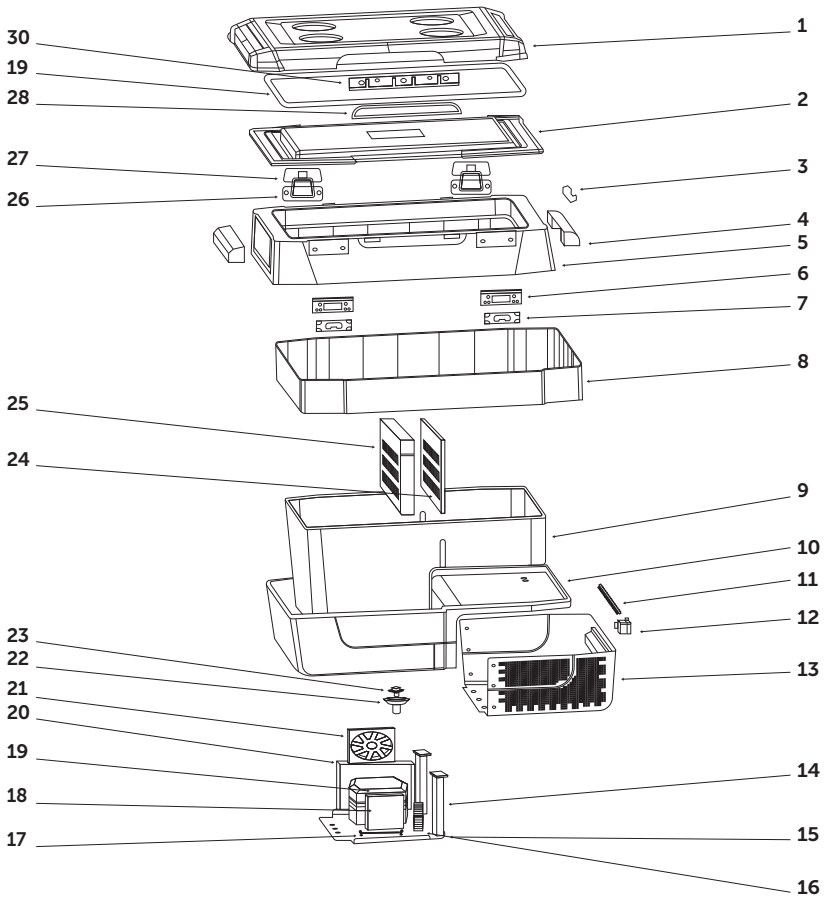
# TROUBLESHOOTING

| PROBLEM | PROBLEM POSSIBLE CAUSE / MEASURE |
|---|---|
| The compressor does not run | • The battery protection is set too high, see battery protection settings.<br>• Ambient temperature is too low, relocate the fridge/freezer to a warmer area, preferably at room temperature.<br>• Controller error. |
| Temperature within the fridge/freezer is too cold and the compressor is running continuously | • Please relocate the fridge/freezer to a warmer area, preferably at room temperature.<br>• The thermostat probe may be faulty.<br>• Check that the temperature is set properly. |
| The Fridge/Freezer is noisy | • Ensure that the fridge/freezer is level.<br>• Check for any internal loose parts.<br>• Check that there is no dust or obstructions on the condenser fan. |
| LED Control Panel Displays 'EO' | • Check the circuit connection.<br>• The temperature sensor is faulty and will have to be replaced. |
| Fault Indicator Light flashes once every 4 seconds and the LED Control Panel Displays 'E1' | LOW VOLTAGE INDICATION:<br>• Try an alternative power source in the vehicle or plug into a dedicated 220V AC power source. If the issue is resolved, there may be an issue with the original power source.<br>• Check the cable (if the cable has been changed or modified, the problem will persist, try using the original cable).<br>• In the case where the 12V cable has been modified, for every meter in length that the cable has been increased, the diameter of the wire needs to increase by 2mm. |
| Fault Indicator Light flashes twice every 4 seconds and LED Control Panel Displays 'E2' | FAN FAULT:<br>The fan is drawing too much power and will need to be replaced. |

# TROUBLESHOOTING

| PROBLEM | PROBLEM POSSIBLE CAUSE / MEASURE |
|---|---|
| Fault Indicator Light Flashes three times every 4 seconds and LED Control Panel Displays 'E3' | COMPRESSOR START ISSUE:<br>• Unplug the fridge/freezer and wait 10 minutes.<br>• Try an alternative power source in the vehicle or plug into a dedicated 220V AC power source. If the issue is resolved, there may be an issue with the original power source.<br>• Power Supply Fault.<br>• Compressor Fault.<br>• Compressor Controller Fault. |
| Fault Indicator Light Flashes four times every 4 seconds and LED Control Panel Displays 'E4' | LOW MOTOR SPEED:<br>• The fridge/freezer might be overpacked. Reduce the volume of items inside the fridge/freezer.<br>• Select a well-ventilated area and keep the fridge/freezer away from direct sunlight.<br>• Clean the vents / ensure there is a clear airflow over the compressor.<br>• Compressor Fault. |
| Fault Indicator Light flashes 5 times every 4 seconds and LED Control Panel Displays 'E5' | OVERHEATING:<br>• The ambient temperature is too high, move the fridge/freezer to a cooler place, out of direct sunlight.<br>• Clean the vents / ensure there is a clear airflow over the compressor.<br>• Fan Fault. |
| PLEASE NOTE, THE FOLLOWING ARE CONSIDERED NORMAL:<br>• A gurgling sound made by the refrigerant during the cooling cycle.<br>• The fan is noisy while the fridge/freezer is running.<br>• Condensation on the exterior of the fridge/freezer may be present when the fridge/freezer reaches a temperature below -15°C and the ambient temperature is very high or humid. | |

# SMDZ-LS135 EXPLODED DIAGRAM




| | |
|---|---|
| 1 | Lid |
| 2 | Interior Door Panel |
| 3 | Light Cover |
| 4 | Handle |
| 5 | Upper Cover |
| 6 | Opener Assemble Parts |
| 7 | Opener |
| 8 | Middle Cover |
| 9 | Inner Liner |
| 10 | Bottom Cover |
| 11 | Label |
| 12 | DC socket |
| 13 | Rear Cover without wheel |
| 14 | Hardware |
| 15 | Compressor Fixed plate |
| 16 | Dryer |
| 17 | Rubber Shock Absorber |
| 18 | HD25 controller |
| 19 | HD25 compressor |
| 20 | Condenser |
| 21 | Fan |
| 22 | Drain Plug |
| 23 | Screw of Drain Plug |
| 24 | Divider 1 |
| 25 | Divider 2 |
| 26 | Door Hinge 2 |
| 27 | Door Hinge 1 |
| 28 | Door Handle 1 |
| 29 | Door Seal |
| 30 | Door Handle 2 |

SnoMaster®

ICE COLD ANYWHERE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