

MYCOOLMAN

UPRIGHT FRIDGE-FREEZER

Operation Manual ***Installation Instructions***

Models MCMU250 · MCMU205 · MCMU115 · MCMU80



www.mycoolman.com.au



LEISURE-TEC Australia Pty Ltd

MYCOOLMAN MCMU FRIDGE-FREEZER

Thank you for choosing our DC Upright fridge freezer. Please read this manual carefully before use, and enjoy the entertainment of DC Upright fridge freezer. This manual will teach you how to operate and maintain the fridge. This fridge must connect to a suitable DC12/24V power source. The manufacturer and seller will not take any responsibilities about the damage of the fridge if the fridge doesn't connect to a suitable power.

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Important Safety Warnings

- DO NOT use if any of the electrical cables or plugs are worn or frayed. Replace with original manufacturers parts.
- ALWAYS check cables for mechanical damage, cuts in the insulation, heat / moisture damage before use. If in any doubt REPLACE.
- DO NOT handle electrical flexes with wet hands.
- DO NOT place electrical items in refrigerator.
- If your fridge/freezer has been off with food stored, do not consume if in any doubt!
- Repairs should only be carried out by a suitably qualified and authorized person. Poor repair could be dangerous.
- DO NOT store dangerous items in the appliance, such as spray cans, explosives, and flammable liquids / propellants.
- ALWAYS leave room for airflow around the contents stored in the refrigerator to ensure optimum performance.
- DO NOT operate this appliance in the rain.
- DO NOT allow children to play with the appliance.
- Small children must be supervised when around all electrical appliances.
- DO NOT allow children or pets to climb inside appliance.
- ALWAYS disconnect before cleaning.
- Food must be stored in suitable and appropriate containers.
- If your appliance is plugged in to a DC vehicle socket – ensure that you disconnect from power when you stop. Or use the battery protection (page 10). Don't come back to a flat battery!
- DO NOT fill appliance with ICE, WATER or other liquid.
- DO NOT attempt to remove frost with scraper or knife. Serious damage to cooling system could occur.
- Buildup of heat in a vehicle can be extreme, 'shutdown' will occur if cooling is not possible.

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Important Product Information

- Best performance is achieved in ambient temperatures between +10 °C and + 38 °C.
- Temperatures above +32 °C may see a slight performance drop, and power consumption increase.
- The lower the ambient temperature, the lower the power usage. In order to maximize efficiency, keep the unit/vehicle in a cool location out of direct sunlight.
- When using the unit ensure the circuit being used has a fuse or circuit breaker, recommended size for DC 12 Volt is 20 Amp, DC 24 Volt is 10 Amp.
- Make sure the voltage is within the correct range for socket and cable being used.
- Do not place any electrical devices inside the refrigerator as they may be damaged.
- Your unit requires good ventilation, especially around compressor and electronics; allow a gap around this area with adequate ventilation installed (Refer Install Guide)
- Do not allow a large amount of frost to build up on the inside walls as this may impair cooling.
- Defrost by turning the unit off. Once frost has melted, drain any excess water out via drain tube and wipe out any remaining moisture with a clean cloth.
- It is recommended to operate the unit on a flat surface, but it will operate at angles up to 30 °.

Damage may occur if the DC cable supply is undersized. This will cause low voltage. As a guide, from the battery to the appliance follow this guide.

Cable cross section	12V maximum cable length	24V maximum cable length
mm ²	Metre	Metre
6	2	4
8	4	8
10	6	12

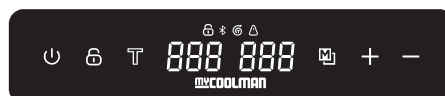
NOTE:

At inclinations of more than 15 ° the compressor noise level may increase (without any effect on the cooling performance).

Product Features

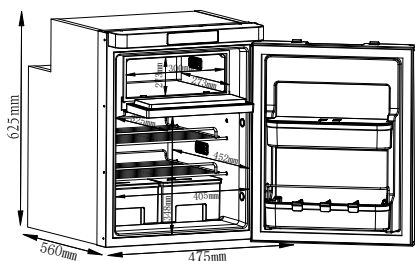


1. Powered by DC Compressor
2. Digital Dual Zone Operation
3. DC (12/24V) with battery protection
4. Dimmable Dual Colour LED interior light
5. Turbo Mode
6. Adjustable compartment storage
7. Headroom for upright standing bottles
8. Bluetooth App for mobile use
9. Dual Pin Door Latch
10. Auto Dim/Off digital display

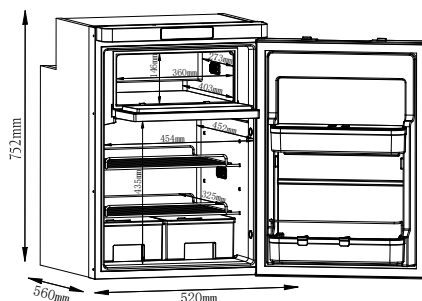


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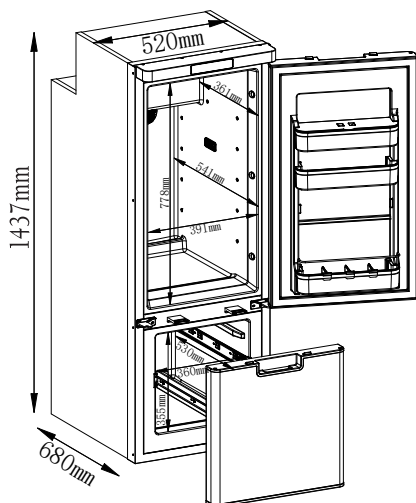
Dimensions and Installation



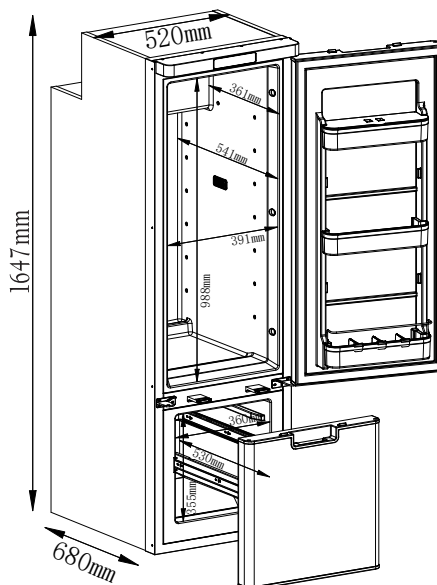
MCMU80



MCMU115



MCMU205



MCMU250

Package Contents:

! Depth includes doors on all models !

Compressor refrigerator, Ice box, Drain hose, User manual, Screws and mounting hole covers

4 screws and 4 mounting hole covers included in MCMU80 / MCMU115

6 screws and 6 mounting covers included in MCMU205 / MCMU250

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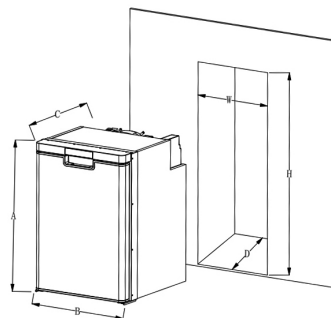
Dimensions and Installation

Installation Requirements:

Cavity with Trim Kit - External / Other Ventilation

	MCMU80	MCMU115
A	645mm	772mm
B	515mm	560mm
C	560mm	560mm
H	628mm - 633mm	755mm - 760mm
W	485mm - 490mm	530mm - 535mm
D	min. 522mm	min. 522mm

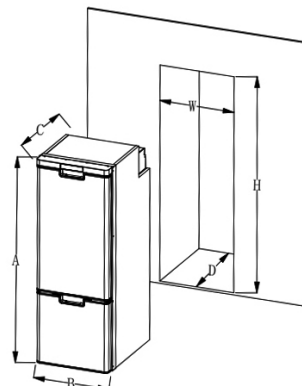
20mm Trim



Cavity with Trim Kit - External Ventilation

	MCMU205	MCMU250
A	1452mm	1662mm
B	550mm	550mm
C	680mm	680mm
H	1440mm - 1445mm	1650mm - 1655mm
W	530mm - 535mm	530mm - 535mm
D	min. 629mm	min. 629mm

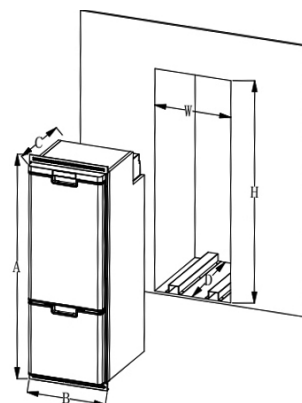
15mm Trim



Cavity With Side Trim Kit & Vent Kit

	MCMU205	MCMU250
A	1547mm	1757mm
B	550mm	550mm
C	680mm	680mm
H	1532mm - 1537mm	1742mm - 1747mm
W	530mm - 535mm	530mm - 535mm
D	min. 629mm	min. 629mm

Upper Vent 75mm
Lower Vent 50mm
15mm Trim



! Trim Kits & Vent Kits available separately !

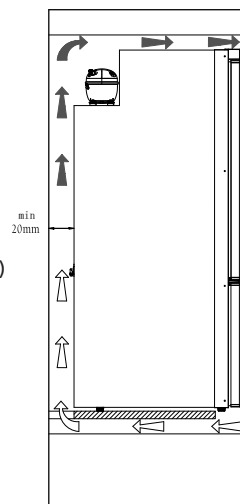
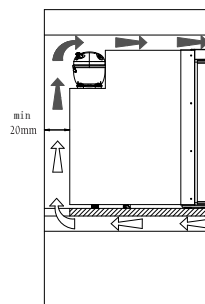
NOTE: These vent requirements are under the assumption that the fridges are in a sealed cabinet - additional ventilation will be beneficial, especially in extreme operating conditions

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Dimensions and Installation

Installation Requirements:

- Install the appliance according to the instructions to avoid any risk of instability.
- The electrical outlet should be easily accessible so that the appliance can be quickly disconnected from the power supply in an emergency.
- The electrical outlet must be secured outside at the rear of the appliance cavity.
- The drain pipe should be easily accessible to allow for the removal of excess water from the appliance. The hose should drain through the floor.
- The appliance should be installed in a recess with dimensions no smaller than those shown below. Ensure that there is sufficient space to allow the door to open and close freely.
- The installation site should be sufficiently sturdy and level.
- The location should be protected from direct sunlight and other heat sources.
- When installing in vehicles, the device's doors should not face the direction of travel.
- During installation, ensure there is adequate space at the rear (min. 20 mm) and on the sides of the device (5 mm) to provide cabinet tolerance.
- Ensure free airflow around the appliance. The recesses must remain clear of other components, obstructions or cabinetry that could restrict airflow (When using Internal Ventilation Kit).



Installation Process:

- Locate the drain outlet under the appliance for MUMU80/MCMU115 and the rear side for MCMU205/MCMU250. Connect the included drain hose to it and push through relevant floor outlet hole before fitting fridge to cavity - cut to length once in place.
- Connect the appliance to a power source.
- Drive a screw into each mounting hole to secure the refrigerator to the side walls of the cabinet (the screw length should be determined based on the dimensions of the cabinet-not included).
- After securing the refrigerator to the cabinet, replace the mounting hole covers.

CAUTION!

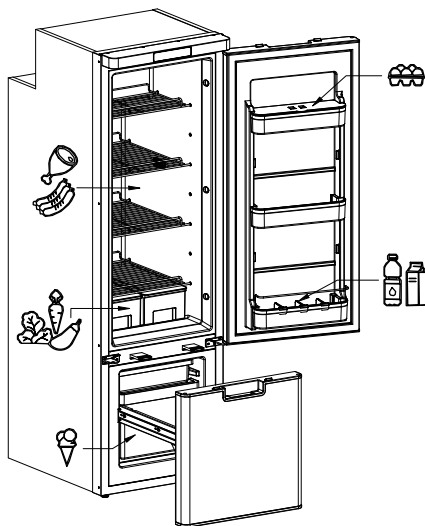
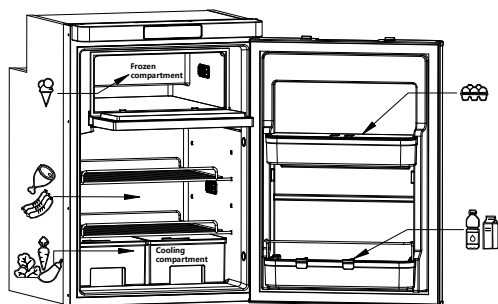
The appliance has sharp edges. Wearing protective gloves is recommended during installation. Do not move the appliance over surfaces susceptible to damage or scratching.

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First Use:

Before using the appliance for the first time, wait approximately 6 hours.

- Connect the appliance to a power source.
- Turn on the appliance and set the temperature to 3 °C in the large compartment and -16 °C in the small/drawer compartment. Wait one hour.
- If the refrigerator is cooling, you can begin using it.



Altering Door Opening Direction

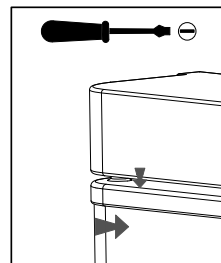
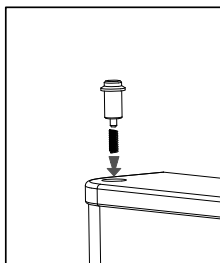
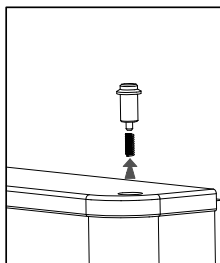
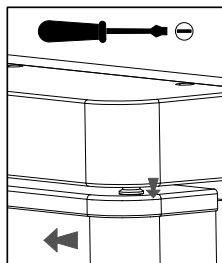
Changing the Door Opening Direction:

Step 1: Using a flat-head screwdriver, press the top hinge of the door inward and pull the top edge of the door outward from the refrigerator. Lift the door upward to remove it from the bottom hinge. Remove the top hinge and spring from the door.

Step 2: Remove the bottom hinge of the door and transfer it to the opposite side. Place the door on the bottom hinge.

Step 3: Insert the spring and top hinge into the top edge of the door. While holding the hinge inward, press the door towards the refrigerator. Once released, the hinge should automatically snap into place.

CAUTION! You will need a flat-head screwdriver for this step.



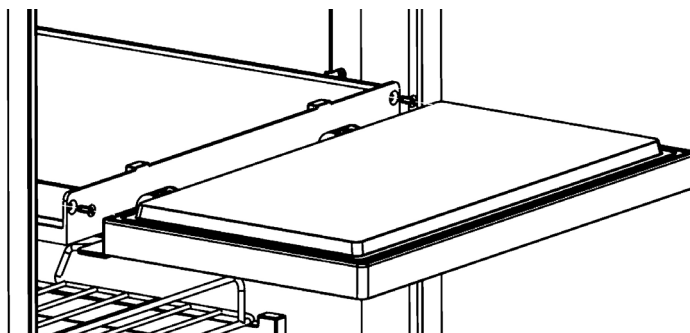
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Adjusting Compartment Divider/Shelves

Remove the Freezer Compartment Divider (suitable for MCMU80 / MCMU115)

The divider can be removed with a screwdriver as needed.

Please store the screws securely after disassembly to be used in re-assembly as required.

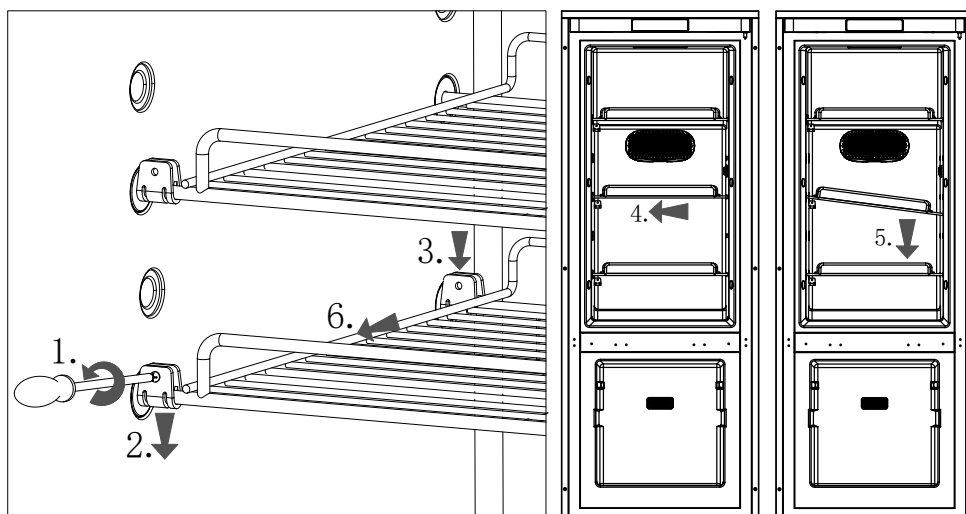


NOTE:

When this freezer divider is removed we recommend either adjusting the fridge to single zone mode (see page 11) or set both digital temperatures to the same desired temperature between +18 and 0 °C (MCMU80/115 only)

Reposition the Fridge Shelf

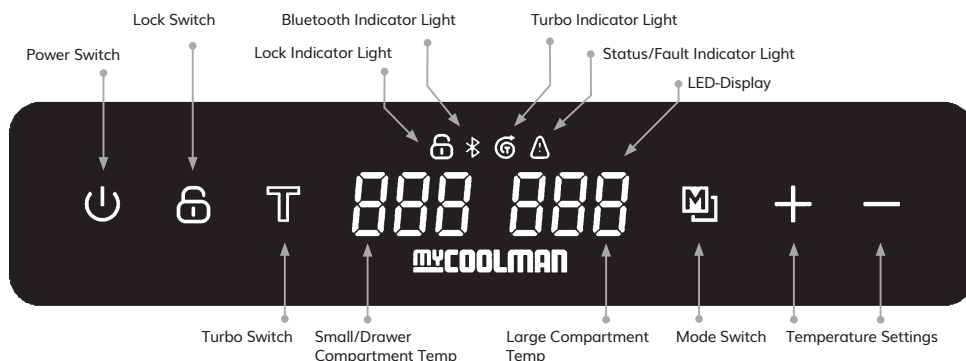
Remove the screws on the clip, take off the clip, and remove the shelf as shown.



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LED Control Panel & Operation Instructions

Control Panel for all Models:



Turning the unit on and off:

Step 1: Plug in the DC power cable (ensure power is on at source).

Step 2: Press the  button once to turn on - To switch off press the  button again.

Using the Display Lock Function:

Step 1: Press & hold the  button on the display for 3 seconds to activate the Lock Function. The display is now locked and cannot be accidentally used until unlocked.

Step 2: Press & hold the  button for 3 seconds to de-activate the Lock Function. The display can now be used as normal.

NOTE:

- The 'Power/Status Indicator Light' will only illuminate to indicate a fault.
- The system has a memory which records your last setting before shutting down.
- If the power supply is cut off or disconnected, the unit will switch off automatically, once the power supply is restored it will automatically switch back on.
- When adjusting settings directly on the fridge, the selected digital set point will be shown on the display.

CAUTION!

- If turn on and turn off frequently, the fridge will not run until around 1 minute later due to the compressor auto-protection function.

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LED Control Panel & Operation Instructions

Change between Compartments:

Step 1: Press  button once to adjust small/drawer compartment or twice to adjust large compartment.

Step 2: Use the  or  button to adjust temperature.

Changing the set temperature:

Step 1: Use the  and  button to change the temperature.

Step 2: Once you reach your desired temperature you do not need to press any further buttons. Display will flash 8 times then go solid - this means the temperature is now locked in.

NOTE:

*Temperature can be set from -18 °C to +18 °C (-4 °F to +68 °F) Small/Drawer Compartment.
Temperature can be set from 0 to +18 (32F to 68F) In Large Compartment.*

Change temperature between °C or °F:

Step 1: Press the  button 3 times to enter °C Celsius and °F Fahrenheit setting mode.

Step 2: Use the  and  button to change between °C or °F.

NOTE:

*The fridge temperature shown on the LED is the current inside temperature.
This will lower to your set temperature when given time to chill down.*

Setting Battery Protect:

Step 1: Press the  button 4 times to enter battery protection setting mode.

Step 2: Use the  or  button to choose either HI, NE or LO protection levels.

Automatic shut down and re-start voltage levels:

	12V MAX Input Voltage 17V		24V MAX Input Voltage: 31.5V	
	Unit turns off at	Unit turns on at	Unit turns off at	Unit turns on at
LO:	9.6	11.1	21.1	23.0
NE:	10.8	12.2	22.1	24.0
HI:	11.4	12.6	22.6	24.5

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LED Control Panel & Operation Instructions

Bluetooth Mode ON/OFF:

Step 1: Press the  button 5 times to enter Bluetooth ON/OFF mode.

Step 2: Press  or  button to cycle the selected option. (More Information on page 12).

Setting Internal LED lighting options:

Step 1: Press the  button 6 times to change the inner LED light color.

Step 2: Press  or  button to select B1, B2 or B3. B1 means White, B2 means Dim White, B3 means Orange.

Setting display beep on and off:

Step 1: Press the  button 7 times to turn on or off the beep.

Step 2: Press  or  to select. H0 means turn the beep on.

When you press the mode , it generates a beep sound. H1 means silent operation.

Setting Digital Display auto dim/auto off and always bright:

While setting the auto dim/off mode, the display panel and indicator light will auto dim/off without setting after approx. 2 mins, and the LED display is on again while you set the control panel.

Use the function mode  to turn on/off the auto dim mode to your preference.

Step 1: Press the  button 8 times to enter auto dim mode while the units turned on and the digital panel displayed.

Step 2: Press  or  button to select A0, A1 or A2. A0 display fully on, A1 means turn on the auto dim mode and A2 means turn on the auto off mode setting.

NOTE: Auto dim /auto off mode will allow less illumination if the fridge is installed in or near a sleeping area of a vehicle, caravan or RV - auto off mode means the entire display will turn off completely until the display is touched or a door is opened. Opening drawer won't activate display.

Setting Single Zone Mode: (When Freezer Divider removed MCMU80/115 only)

Step 1: Press the  button 9 times to enter Single Zone Mode Selection.

Step 2: Press  or  to select d0 (SZ Mode) or d1 (DZ Mode).

NOTE: Select Single Zone Mode when the small compartment has been removed to ensure correct operation - (Temp can be set from 0 °C to +18 °C) MCMU80 MCMU115 Models ONLY

Engaging Turbo Mode:

Step 1: Press the  button once to turn on. The  icon will illuminate to indicate that Turbo Mode is engaged and the compressor runs at a higher speed for faster cooling.

Step 2: To turn off, press the  button again. The  icon will now go out to indicate that Turbo mode is no longer engaged.

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Bluetooth Mode Instructions

Activate Bluetooth mode:

Step 1: Press the  button 5 times to enter Bluetooth function.

Step 2: Use the  and  button to choose either ON or OFF.

Step 3: Once you reach your desired setting you do not need to press any further buttons. Just leave it sit until you see the setting flash 8 times – this means the setting is now locked in.

NOTE:

- **OFF: Bluetooth mode is off.**
You can only pair your unit to the App by directly scanning the QR code adhered to the data sticker inside of the fridge.
- **ON: Bluetooth connection is open.**
You can now 'search' using your App for your unit and pair your unit to the App.



Installing the myCOOLMAN UPRIGHT Bluetooth App

Step 1: Download the App (for FREE) from the Apple or Google Play store.

Step 2: Open the App.

Step 3: Connecting to your unit - There are 2 ways to discover your unit within the App.

Option 1 – Scan QR code.

Step 1: Scan QR code – this is on a sticker adhered to the inside of the unit.

Option 2 – 'Search' for the device

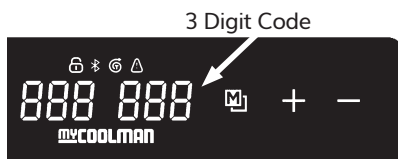
Step 1: Click the  Bluetooth icon

Step 2: Select your unit from the list.

If your unit does not appear, you can either complete option 1 or see above 'Activate Bluetooth mode' to turn on Bluetooth connectivity.

Security Code Function:

Once you have selected the correct fridge you will be prompted to enter a three digit code that will appear on the display:



Enter this code into you're device to access all of the APPs features.

This will occur when you first connect to your myCOOLMAN UPRIGHT fridge APP.

What can I do through the app now that I am activated and connected?

- Turn your fridge/freezer on and off
- Adjust the fridge/freezer temperature
- Check the current temperature
- Turn the Turbo Mode on and off
- Adjust display settings
- Choose between °C or °F in the settings
- Adjust lighting settings
- Select battery monitor settings

MYCOOLMAN MCMU FRIDGE-FREEZER

DC 12V/24V Inlet Connection

DC Inlet Connection (Fused Anderson)

MCMU80 / MCMU115:

You will find the power inlet Anderson plug at the upper rear of the fridge -
The positive cable is also pre-fused and is ready for connection via an Anderson plug in the Vehicle/Caravan.

DC Inlet Connection (Fused Cable)

MCMU205 / MCMU250:

You will find the power inlet cable at the upper rear of the fridge -
The positive cable is pre-fused and is ready for connection via suitable cable from a power source in the Vehicle/Caravan.

Cleaning & Maintenance

1. Cleaning method: Turn off or disconnect the power before cleaning and maintenance.

Use a wet soft rag to wipe the inside and outside of the refrigerator.

If necessary, wipe it with a neutral detergent and then wipe it with a clean cloth.

2. Maintenance method: Properly protect the door seals and keep it clean. Try to avoid oil stains and deformation when using. If oily substances (plant or animal oil) are attached to the plastic in the refrigerator for a long time, the plastic will easily age or crack and send peculiar smell.

3. Precautions: Don't directly clean the refrigerator with water to prevent electrical insulation and material rust. The following things will damage the coating and plastic parts which cannot be used for cleaning: alkaline detergent, soap, abrasive powder, hot water, brush, banana oil, gasoline and alcohol.

How to clean your unit:

- Clean the appliance inside and outside with a clean damp cloth every week.
If it is dirty, use sodium bicarbonate dissolved in lukewarm water to clean the unit.
- Please don't use abrasive products, detergents, soap or hard objects to clean as these can damage your refrigerator.
- After cleaning, wipe out with a clean damp cloth and dry carefully.
- Use the integrated Door/Drawer stays to prop the Door/Drawer open to allow adequate ventilation when in storage.
- Never clean the unit under running water or in dish water.
- Do not store products inside unit if the unit is off.
- Do not store the unit if it is wet inside or without leaving the Door/Drawer propped open using door stays.

Troubleshooting

How to get the most out of your unit:

- Best performance is achieved at ambient temperatures between +10 °C and +32 °C.
- Product is rated as a 'N, T Climate' class (Tropical), which means that the units meet the requirements of ISO-15502 at 43 °C.
- Higher ambient temperatures mean that the compressor will run faster and longer.
- If the unit is in direct sun, this also increases the ambient temperature and may result in the compressor running faster and longer.
- In extraordinary high temperatures the compressor will purposely slow to 1080 RPM for safety.
- Never stack meat, fish or any other solid water-based food directly against each other without air gaps. If the cool air cannot circulate and surround the individual contents, it will take much longer to freeze and may even result in partial freezing.

The unit is not turning on

- Check whether the unit has been turned on.
- Check the power supply (try a different power source/vehicle/socket).
- Check whether the plug and the socket have a good connection.
- Check whether the fuse has been burned out or blown.

Low refrigeration performance

- Too much product has been placed inside the unit.
- There is no room for air to circulate between the items in the fridge/freezer.
- There is too much warm product inside the unit.
- The lid is unlatched or open.
- The lid seal is broken.
- Poor ventilation (check vents are not covered or blocked)).
- The ambient temperature is too high.
- The temperature setting is too high.

Can hear the sound of liquid flowing or gurgling from inside the unit

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

Unusual noise when refrigerator is working

- The refrigerator is not placed on a level surface. If none of the above solves your issue, see page 3 or contact Leisure-Tec on 1300 07 2018.

NOTE:

At inclinations of more than 15 ° the compressor noise level may increase (without any effect on the cooling performance).

Status Indicator

E1 flash every 4 seconds - low voltage & Battery Protection:

- An E1 will occur when the battery protection level has been reached.
i.e input voltage to low for protection setting, check power source voltage.
- Check setting is correct then try on different power source.
If changing power source fixed issue, then possible issue with original power source.
- Ensure cabling between fridge and battery is of sufficient diameter -
refer page 3 cable requirements table .

E2 flashes every 4 seconds - fan issue:

- Fan is drawing too many amps (over 0.6 amps), replace fan.
Contact Leisure-Tec on 1300 07 2018

E3 flashes every 4 seconds - compressor start issue:

- Unplug cable and allow unit to rest for 30 minutes.
- Try on different power source.
- Electronic box fault.
- Compressor fault.

E4 flashes every 4 seconds - 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.

E5 flashes every 4 seconds - over temperature:

- Ambient temperature too high.
- Clean vents/ensure clear air flow over compressor.
- Fan fault.

E6 or E7 flashes every 4 seconds - temperature sensor issue:

- NTC (the temperature sensor) broken circuit or short circuit.
- Contact Leisure-Tec on 1300 07 2018

NOTE:

The status indicator will be blank if operation normal. If it changes to a flashing orange light, this indicates that there is a change in status. There will also be a status indicator code shown on the LED display.

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Product Specifications

Model	MCMU80 Dual Zone Fridge-Freezer	MCMU115 Dual Zone Fridge-Freezer	MCMU205 Dual Zone Fridge-Freezer	MCMU250 Dual Zone Fridge-Freezer
Dimensions mm	Depth 560 Width 475 Height 625	Depth 560 Width 520 Height 752	Depth 680 Width 520 Height 1437	Depth 680 Width 520 Height 1647
Weight / kg	23.8	28.6	56.6	62.4
Input power	65W	70W	95W	100W
Power consumption	1.19 Ah *	1.32 Ah *	2.18 Ah *	2.33 Ah *
Connection voltage	DC 12/24V ---			
Insulation	C-Pentane			
Climate class	N or T			
Refrigerant Quantity	R600a / 17g	R600a / 21g	R600a / 46g	R600a / 50g
Cooling capacity	-18 °C to +18 °C (-4 °F to +68 °F)			
Volume litres (large/small)	77 (67/10)	112 (94/18)	205 (140/65)	250 (185/65)

* Small Zone set to -15 °C and Large Zone set to 5 °C, 25 °C Ambient, Power: 12VDC

All data is accurate at the time of publishing and is subject to change without notice. For more details visit our website.

Warranty Terms & Conditions

To warranty register your unit please head to: <https://mycoolman.com.au/pages/warranty-registration> and upload a copy of your proof of purchase as well as completing the online form.

When you buy myCOOLMAN Fridge-Freezer you have peace of mind knowing that it is backed by a comprehensive 3 year warranty against defects in materials and workmanship. The myCOOLMAN warranty is provided in addition to any rights provided under Australian Consumer Law. All claims under this warranty should be made by returning the product to the place of purchase at your expense, with the detail of the fault, proof of purchase and fitment details. If we determine that a myCOOLMAN product is defective in materials or workmanship during the warranty period, we will either repair or replace the unit.

This warranty does not apply to failure or damage to a myCOOLMAN product caused by incorrect or faulty fitment, accidental or intentional damage, failure of other products, incorrect application, incorrect voltage, environmental damage, operation of the product outside of its environmental and technical specifications, or repair or modification carried out by anyone other than an authorised repairer.

Designed and made in China for

LEISURE-TEC Australia Pty Ltd
Phone 1300 07 2018



www.mycoolman.com.au