



# INSTRUCTION MANUAL

**FOR MODELS** MT-45 / MT-60 / MT075-DX **POWERED BY EVakcol** 



Please read operating manual carefully before using your new device. Please keep manual in a safe place.

If lost find a digital copy at Evakool.com.au or contact Evakool on (07) 5492 5495.

### **Contents**

1	Safety Instructions	4
2	Operating Instructions  2a Initial Start Up  2b Control Panel	5
3	Energy Saving Tips	7
4	Defrosting & Cleaning	7
5	APP (selected models)	8
6	Trouble Shooting	9
7	Technical Data 7a Dimensions & Parts	
8	Features	. 18
9	Warranty	1.8

# 1 Safety Instructions

- Do not use if any cabling is damaged, frayed or exposed. Especially on AC power supply.
- This appliance may only be repaired by a qualified technician.
- Do not attempt to operate this unit if wet.
- Not to be operated by children.
- Do not place or store any electrical devices inside the unit as they may be damaged.
- Disconnect from power supply and remove lead before defrosting, cleaning and maintenance.
- When using the unit ensure the electrical circuit being used has a fuse or circuit breaker (12V DC 15 Amps. 24V DC 7.5 Amps).
- Do place unit near naked flames and other heat sources (electric heaters, direct sunlight).

# 2. Operating Instructions

#### 2a Initial Startup

#### Pre check:

- For hygiene reasons we recommend cleaning the inside of the cabinet before use (see section 4 defrosting and cleaning).
- Your unit requires good ventilation especially around the vents of the engine compartment, allow at least 100mm gap around all vents.
  - (Warning: Do not operated unit in an unventilated confined space, E.g. storage box or cupboards in caravans and camper trailers. Doing so may cause damage to the unit).
- When using the unit ensure the electrical circuit being used has a fuse or circuit breaker. (12V DC 15 Amps. 24V DC 7.5 Amps).

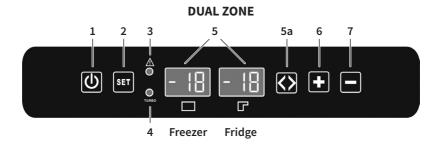
#### Ready to go:

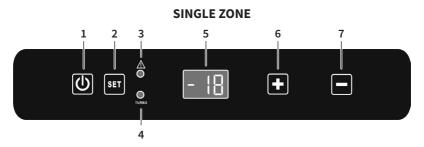
- 12 and 24 Volt DC: Plug the DC connection cable into the DC socket located on the motor compartment end of the unit (the unit will automatically detect the DC voltage applied 12 or 24 volts).
- Mains power AC: Plug the AC connection cable in the AC socket located on the motor compartment end of the unit. Then plug the 3-pin plug into the wall socket.
- Press and hold the **t** for 3 seconds. The display will light up, showing the temperature inside the unit. You will hear the compressor start first then the cooling fan will start. Your fridge is running.
- For a single zone. Press + or buttons to set the desired temperature inside the fridge.
- For a dual zone. Press 〈〉 once, the left display will start to flash, use the + or buttons to set the desired temperature. Press 〈〉 again, the right display will start to flash, use the + or buttons to set the desired temperatures. Press 〈〉 again to lock in settings.
- The unit will start to cool. Depending on the size and design of the unit, and your set temperature it should take between 60 and 120 minutes to reach its set temperature. Single Zone @24°C ambient, set at 4°C, no product inside.
  - Dual Zone @24°C ambient fridge set at 4°C, freezer set at -16°C, no product inside.
  - \*These are average cycle times, this will vary depending on ambient temperature, heat load, etc.

N.B: Always allow 24 hrs for unit to achieve proper running conditions

- Initial start up
- After changing the set temperature on the display.
- Allowing hot product to come down to temperature.

#### 2b Control Panel





- 1. On/Off button. 1 press and hold for 3 seconds to turn on unit. The LED display will light up and display the temperature inside the fridge.
- 2. Speed selection button. For press set button once, the Turbo Light (4) will come on indicating the compressor is running at high speed (use when ambient temperature exceeds 28°C or when unit is loaded with hot product, requiring a quick pull down).
- **4. Turbo light. O** (see speed selection 2. Above).
- **5. LED Display.** Displays the temperature inside the fridge. In the dual zone there are 2 LED displays for the left and right bins.
- **5a. Select button. ⟨>** (dual zone)

When setting temperature, press select button to change between freezer and fridge LED displays.

- **6. Up button. +** Changes the temperature setting warmer.
- **7. Down button.** Changes the temperature setting colder.

# 3. Energy Saving Tips

- Run unit in a well-ventilated location, protect from direct sunlight.
- Keep lid openings to a minimum.
- Don't leave lid open too long
- Try to pre chill product before loading into unit.
- Set your freezer warmer if your freezing needs are short term.
  - -18°C for long term
  - -12°C to -15°C for short term (based on an article from the CSIRO).
- Defrost unit when a layer of ice forms. (see defrosting and cleaning 4).

# 4. Defrosting & Cleaning

WARNING: Always turn unit off and remove power cord before cleaning.

#### Do's:

- Turn off and allow unit to defrost
- Wipe out water before restarting.
- Clean inside regularly with a clean damp cloth.
- When not in use ensure that inside the cabinet is completely dry.
- When not in use leave lid slightly open.

#### Don'ts:

- Do not use sharp objects to defrost ice buildup.
- Do not use heat to defrost ice buildup.
- Do not use abrasive liquids or pastes to clean unit
- Do not use abrasive cleaning pads to clean unit.
- Do not store food inside unit when off.
- Do not clean unit with running water.

# 5. APP (selected models)

Download Maxi Trac Repco app for your Apple or Android phone.



1. Press Enter.



2. Select WiFi or scan QR code.



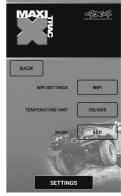
The device will connect.



4. This is the fridge turned "off".



- 5. This is the fridge turned "on".
- Press temperature control to adjust temperature, use the blue arrow to adjust colder and the red arrow to adjust warmer.
- The temperature displayed near the fridge logo, indicates the temperature inside the cabinet.
- The temperature displayed below is the set temperature.



6. Press the Settings button to access setting mode.

#### Setting mode

- WiFi Settings Manage WiFi.
- Temperature Unit Change between Celsius and Fahrenheit.
- Mode Change compressor speeds( see 2b control panel, speed selection).

Press BACK button to return to the home screen.

# 6. Trouble Shooting

FAULT	CAUSE	RECOMMENDED FIX		
Not running No LED display	No power to unit	<ul> <li>Try on both 12V DC and 240 AC</li> <li>Maybe a faulty lead</li> <li>Try a different power supply</li> <li>Check circuit breaker or fuse</li> </ul>		
	Faulty electronic component	Contact Evakool (07) 5492 7777		
LED display on but not running	Faulty electronic component	Contact Evakool (07) 5492 7777		
LED display on, compressor running, not cooling	Compressor or refrigerant problem	Contact Evakool (07) 5492 7777		
LED display on Fault light flashing	Refer to chart below	The unit has its own built in fault finding system depending on how many fashes per 5 flashes		
Led display shows Error codes	ER1 ER2	This is a thermistor issue contact Evakool (07) 54927777		

## Refers to fault light error

#### 1 Flash: LOW VOLTAGE ERROR

#### Cause:

- Battery is flat. Check with multimeter, 12.70 Volts 100% charge, 12.05V 50% charge, 10.50V 0% charge.
- Faulty supply lead. Check that the plug and lead are not broken or frayed.
- Supply wiring not the correct size (refer to cable sizing chart below).
- To rule out that the fridge is not faulty, try running it on a different power source, either on 240 Volt supply or a different vehicle or battery.

#### 2 Flash: FAN ERROR

#### Cause:

 Condenser fan drawing too many amps (over 1-amp peak). Requires a replacement fan, contact Evakool.

#### 3 Flash: COMPRESSOR START ERROR

#### Cause:

- Stopping and starting too quickly (not giving the system time to equalize).
- Electronic box issue.
- · Faulty compressor.
- Disconnect power for ten minutes, then re-start, if problem persists, contact Evakool.

#### 4 Flash: MINIMUM MOTOR SPEED ERROR

#### Cause:

- If the refrigeration system is too heavily loaded, the motor cannot maintain minimum speed at approximately 1,850 rpm.
- Very high ambient temperatures (move to a cooler area).
- Blocked or dirty condenser (clean and re-test).
- Fan not working (contact Evakool).

#### 5 Flash: OVER TEMPERATURE ERROR

#### Cause:

- Ambient temperature too high (move to a cooler area).
- Blocked or dirty condenser (clean and re-test).
- Fan not working (contact Evakool).



# 7. Technical Data

	MT45	MT60	MT75			
Fridge Type	Single Zone	Single Zone	Dual Zone			
Cooling Range	10° to -1	10° to -18°C (40 ~ 45°C below ambient)				
Volume	45 litres	60 litres	44 + 31 = 75 litres			
Power		45 Watts				
Power Consumption @ 24°C ambient	Eco +5°C 1.0 to 1.5 A/Hr	Eco +5°C 1.0 to 1.5 A/Hr				
	Turbo +5°C 1.3 to 1.8 A/Hr	Turbo +5°C 1.3 to 1.8 A/Hr	Fridge /Freezer 2.5 A/Hr			
	Turbo -16°C 2.0 to 2.5 A/Hr	Turbo -16°C 2.0 to 2.5 A/Hr				
Voltage	DC 12/24 AC 100~240V 50/60hz					
Insulation	Cabinet 45 to 58mr	m / Lid 45mm / C-penta	ne, totally CFC Free			
Refrigerant R134a	55 grams	62 grams	90 grams			
Gross Weight	23 kg	30 kg	37 kg			
Net Weight	18.5 kg	25.3 kg	31.5 kg			
External Dimensions (WxHxD) in mm 747 x 413 x 450		747 x 513 x 450	747 x 513 x 450			
Carton Dimensions (WxHxD) in mm	795 x 470 x 490	795 x 570 x 490	975 x 540 x 490			
Compressor	Evakool CK 25 (see table for technical data)					

Compressor	Evakool CK25					
Displacement cm <sup>3</sup>	2.5					
Application		LE	3P			
Rotation RPM	2000	2500	3000	3500		
Capacity W	40	50	60	70		
Input Power W	36	44	50	60		
Operating Current A	3	3.7	4.3	5		
COP W/W	1.1 1.14 1.15 1.16					
Cooling	Static or Fan Cooling					
Lubricant	Polyester					
Weight of Compressor	3.1					
Weight of Controller	0.16					
Motor Type	BLDCM					
Refrigerant	R134a					
Throttling Device	Capillary					
Power Supply	V.DC 12/24					
Test Conditions	Evaporating Temp -23°C Suction Temp 32.2°C Condensing Temp 54.4°C Sub Cooling Temp 32.2°C Ambient Temp 32.2°C Test Voltage 12VDC for 24V applications the current must be halved					

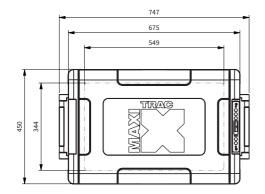
# **Cable Length Specification**

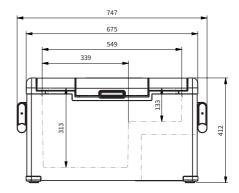
The DC cables must have a suitable cross-section for their length (measured from the battery to the unit), according to this table:

Cable Thickness		12V Max Ca	ıble Length	24V Max Cable Length		
(mm2)	AWG	(m)	(ft)	(m)	(ft)	
2.5	14	2.5	8	5	16	
4	12	4	13	8	26	
6	10	6	20	12	39	
10	8	10	33	20	66	

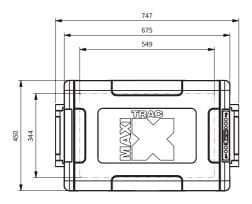


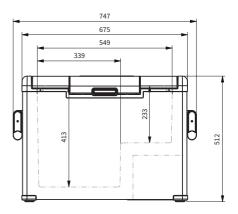
# 7a Dimensions & Parts



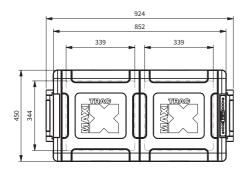


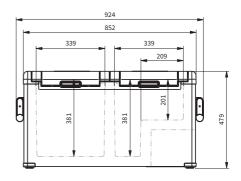






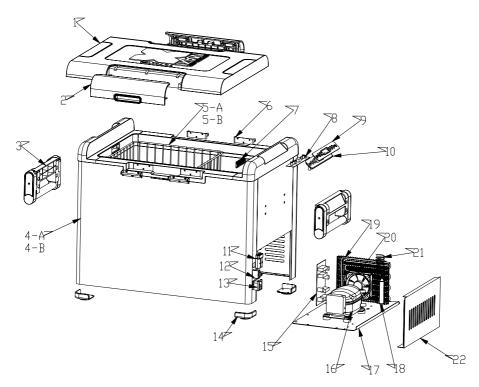




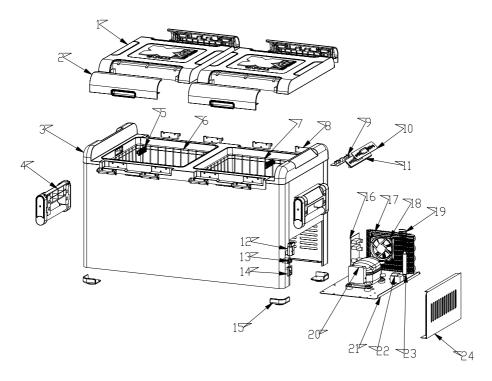




# MT45 & 60



1	RC45/65 - 001	Door	11	RC45/65/75D - 006	50A Plug
2	RC45/65/75D - 001	Door Handle	12	RC45/65/75D - 007	Circuit Breaker
3	RC45/65/75D - 002	Cabinet Handle	13	RC45/65/75D - 008	230V Socket
4A	RC45/65 - 002 - A	RC45 Cabinet	14	RC45/65/75D - 009	Angle Surrounding
4B	RC45/65 - 002 - B	RC65 Cabinet	15	RC45/65/75D - 010	Power Switch
5A	RC45/65 - 003 - A	RC45 Basket	16	RC45/65 - 006	Compressor
5B	RC45/65 - 003 - B	RC65 Basket	17	RC45/65/75D - 011	Compressor Base Board
6	RC45/65/75D - 003	Door Hinge	18	RC45/65 - 007	Dryer
7	RC45/65/75D - 004	LED Light	19	RC45/65/75D - 012	Condenser
8	RC45/65 - 004	Display Board	20	RC45/65/75D - 013	Fan
9	RC45/65 - 005	Display Sticker	21	RC45/65/75D - 014	Capillary
10	RC45/65/75D - 005	Display Plastic Frame	22	RC45/65/75D - 015	Rear Cover Board



1	RC75D - 001	Door	13	RC45/65/75D - 007	Circuit Breaker
2	RC45/65/75D - 001	Door Handle	14	RC45/65/75D - 008	230V Socket
3	RC75D - 002	Cabinet	15	RC45/65/75D - 009	Angle Surrounding
4	RC45/65/75D - 002	Cabinet Handle	16	RC45/65/75D - 010	Power Switch
5	RC45/65/75D - 004	LED Light	17	RC45/65/75D - 012	Condenser
6	RC75D - 003	Basket 1	18	RC45/65/75D - 013	Fan
7	RC75D - 004	Basket 2	19	RC45/65/75D - 014	Capillary
8	RC45/65/75D - 003	Door Hinge	20	RC75D - 007	Compressor
9	RC75D - 005	Display Board	21	RC45/65/75D - 011	Compressor Base Board
10	RC75D - 006	Display Sticker	22	RC75D - 008	Electronic Valve
11	RC45/65/75D - 005	Display Plastic Frame	23	RC75D - 009	Dryer
12	RC45/65/75D - 006	50A Plug	24	RC45/65/75D - 015	Rear Cover Board

#### 8. Features

- Extremely powerful DC compressor cooling system.
- Digital control with LED display.
- Extremely high reliability and long-life expectancy.
- Smart start technology (soft start to reduce power consumption).
- Fully insulated base, lid and walls.
- 12/24 and 240-volt operation built in.
- Turbo mode for faster cooling.
- Self-diagnostic fault system.
- Smooth interior walls, hygienic and easy to clean.
- Downloadable APP (Wi-Fi) to monitor and control the fridge.
- Handles can be used as tie down points.
- Will operate on angles up to 30 degrees.
- · LED light.
- · Nationwide warranty.

# 9. Warranty

The statutory warranty period applies if your unit is defective. Please contact Evakool on (07) 5492 7777 or warranty@evakool.com for details of your closest Evakool service centre.



# POWERED BY EVAICOL CHILLED FOR GOOD TIMES

For your nearest stockist contact EvaKool

T: 1300 385 665 (1300 EVKOOL)

E: warranty@evakool.com

or visit us at evakool.com.au