



CF18, CF25, CF35, CF40, CF50, CF60



Compressor Fridge/Freezer

Operating manual

Please read this manual carefully before starting the device. Keep it in a safe place for future reference. If the device is passed on to another person, this manual must be handed over to the user along with it.

The manufacturer cannot be held liable for damage resulting from **improper usage** or **incorrect operation**.

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1 Explanation of symbols



DANGER!

Safety instruction: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.



WARNING!

Safety instruction: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION!

Safety instruction: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.



NOTICE!

Indicates a situation that, if not avoided, can result in property damage.

NOTE

Supplementary information for operating the product.

2 Safety instructions

The manufacturer accepts no liability for damage in the following cases:

- Damage to the product resulting from mechanical influences and incorrect connection voltage
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in the operating manual

2.1 General safety



DANGER!

• When using the device on boats: If the device is powered by the AC mains, ensure that the power supply is protected with a ground fault interrupter circuit.



WARNING!

- Do not operate the device if it is visibly damaged.
- If this device's power cable is damaged, it must be replaced by the manufacturer, customer service or a similarly qualified person in order to prevent safety hazards.
- This device may only be repaired by qualified personnel. Improper repairs can lead to considerable hazards.
- This device can be used by children aged 8 years or over, as well as by persons with diminished physical, sensory or mental capacities or a lack of experience and/or knowledge, providing they are supervised or have been taught how to use the device safely and are aware of the resulting risks.

- Cleaning and user maintenance must not be carried out by children without supervision.
- Children must not play with the device.
- Children must be supervised to ensure that they do not play with the device.
- Always keep and use the device out of the reach of children under the age of 8 years.
- Do not store any explosive substances such as spray cans with a flammable propellant in the device.



CAUTION!

- Disconnect the device from the power supply
 - before each cleaning and maintenance
 - after every use
- Food may only be stored in its original packaging or in suitable containers.

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NOTICE!

- Check that the voltage specification on the type plate corresponds to that of the energy supply.
- Only connect the device as follows:
 - With the DC cable to a DC plug socket in the vehicle (e.g. cigarette lighter)
 - Or with the AC connection cable to the AC mains supply
- Never pull the plug out of the socket by the cable.
- If the cooler is connected to the DC socket: Disconnect the cooler and other power consuming devices from the battery before connecting the quick charging device.
- If the cooler is connected to the DC socket: Disconnect the cooler or switch it off when you turn off the engine. Otherwise you may discharge the battery.
- The cooling device is not suitable for transporting caustic materials or materials containing solvents.
- The cooling device contains inflammable cyclopentane in the insulation. The gases in the insulation material require special disposal procedures. Deliver the device at the end of its life-cycle to an appropriate recycling.





CAUTION!

Before starting the device, ensure that the power supply line and the plug are dry.



NOTICE!

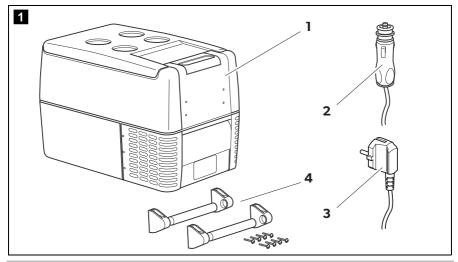
- Do not use electrical devices inside the cooler unless they are recommended by the manufacturer for the purpose.
- Do not place the device near naked flames or other heat sources (heaters, direct sunlight, gas ovens etc.).

• Danger of overheating!

Ensure at all times that there is sufficient ventilation so that the heat that arises during operation does not build up. Make sure that the device is sufficiently far away from walls and other objects so that the air can circulate.

- Ensure that the ventilation openings are not covered.
- Do not fill the inner container with ice or fluid.
- Never immerse the device in water.
- Protect the device and the cables against heat and moisture.
- Protect the device from exposure to rain.

3 Scope of delivery



Item	Quantity	Description
1	1	Cooler
2	1	Connection cable for DC connection
3	1	Only CF35, CF40, CF50, CF60 Connection cable for AC connection
4	2	Only CF35, CF40, CF50, CF60 Carrying handle, consisting of: - 2 holders - 1 handle - 4 fastening screws
_	1	Only CF18 Plastic grille divider
-	1	Only CF35 Powdercoated steel evaporator protector
_	1	Only CF40, CF50, CF60 Powdercoated steel basket
_	1	Operating manual

4 Accessories

Available as accessories (not included in the scope of delivery):

Description	Ref. no.
For CF18, CF25: AC/DC power supply rectifier EPS-817	9109002086

If you have questions regarding the accessories, contact your local service partner.

5 Intended use

The cooling device is suitable for cooling and freezing foods.

The cooling device is designed to be operated from:

- a DC on-board power supply of a vehicle, boat or caravan
- a DC auxiliary battery
- an AC power supply (CF35, CF40, CF50, CF60)

For operating CF18, CF25 at AC mains you need an AC/DC power supply rectifier (accessory).

The cooling device is suitable for camping use and in mobile applications such as vehicles, caravans or boats.

The cooling device is intended to be used in household and similar applications such as

- staff kitchen areas in shops offices and other working environments
- farm houses
- clients in hotels, motels and other residential type environments
- bed and breakfast type environments
- catering and similar non-retail applications



CAUTION! Health hazard!

Please check if the cooling capacity of the cooling device is suitable for storing the food or medicine you wish to cool.

6 Function description

The cooler can refrigerate or freeze food products. A fast-acting and efficient cooling system provides low maintenance cooling performance with a compressor and control module.

The cooler is designed for mobile use and can be carried by using a folding carrying bracket (CF18), two recessed grips (CF25) or two removable carrying handles (CF35, CF40, CF50, CF60).

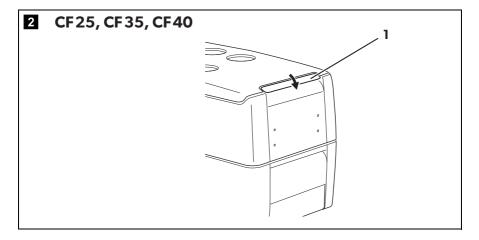
The cooler can withstand a short-term inclination of 30°, for example on boats.

6.1 Scope of functions

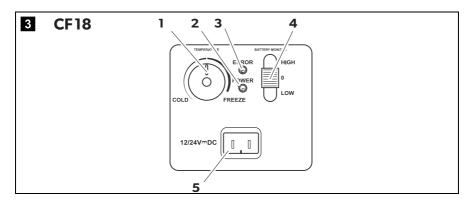
	CF18	CF25	CF35, CF40, CF50, CF60
Power supply with priority circuit for connecting to the power supply	_	_	•
Battery monitor to protect the vehicle battery	2-level	3-le	evel
Turbo mode for rapid cooling	-	•	-
Automatic compressor speed control for optimal performance	_	_	•
Display with temperature gauge (switches off automatically at low battery voltage)	_	•	•
Temperature setting	rotary-knob	two buttons in st	eps of 1 °C (2 °F)
Removable carrying handles	_	_	•

6.2 Operating and display elements

Latch for lid

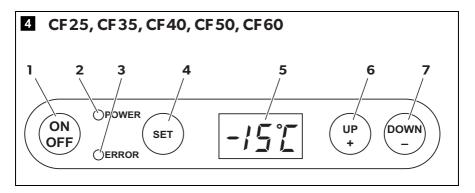


Operating panel and DC power supply inlet (CF18)



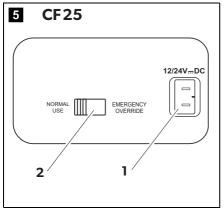
ltem	Description	Explanation	
1	TEMPERATURE	Temperature controller, cooling temperature at the end positions: COLD: +10 °C (+50 °F) FREEZE: –18 °C (0 °F)	
2	POWER	Status indication	
		LED lights up green:	Device is switched on and ready for operation
		LED lights up yellow:	Set temperature has been reached
3	ERROR	LED flashes red:	Device is switched on but not ready for operation
4	BATTERY MONITOR	Switch-on device/battery m	onitor:
		0:	Device is switched off
		HIGH:	Device is switched on, battery monitor is in HIGH mode
		LOW:	Device is switched on, battery monitor is in LOW mode
5	12/24 V 	DC voltage supply inlet	

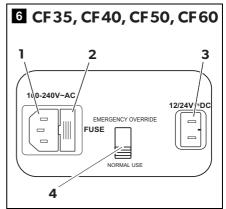
Operating panel (CF25, CF35, CF40, CF50, CF60)



Item	Description	Explanation	
1	ON OFF	Switches the cooler on or off when the button is pressed for between one and two seconds	
2	POWER	Status indication	
		LED lights up green:	Compressor is on
		LED lights up orange:	Compressor is off
		LED flashes orange:	Display switched off automatically due to low battery voltage
3	ERROR	LED flashes red:	Device is switched on but not ready for operation
4	SET	Selects the input mode – Temperature setting – Celsius or Fahrenheit display – Set battery monitor	
5	_	Display, shows the information	
6	UP +	Press once to increase the value	
7	DOWN -	Press once to decrease the value	

Connection sockets (CF25, CF35, CF40, CF50, CF60)





ltem in fig. 5	Description
1	DC voltage supply inlet
2	Emergency switch

ltem in fig. 6	Description
1	AC voltage supply inlet
2	Fuse holder
3	DC voltage supply inlet
4	Emergency switch

7 Operation

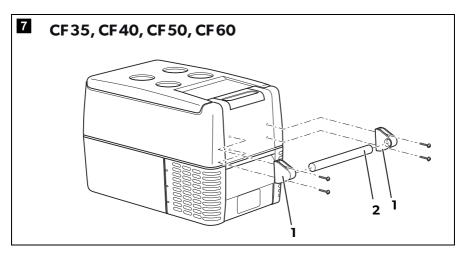
7.1 Before initial use



NOTE

Before starting your new cooler for the first time, you should clean it inside and outside with a damp cloth for hygienic reasons (please also refer to the chapter "Cleaning and maintenance" on page 22).

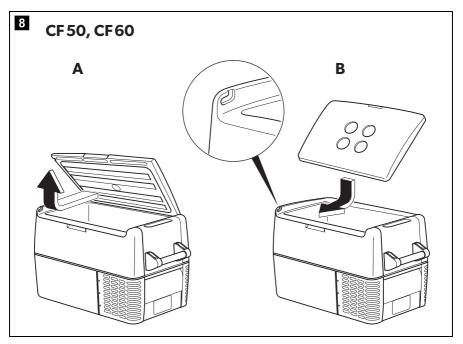
Mounting the handles



The handles are enclosed unassembled. If you wish to attach the handles, proceed as follows:

- ► Make a handle by putting two holders (1) and a handle (2) together.
- ► Fasten the grip with the enclosed screws in the holes provided.

Turning the lid around (CF 50, CF 60)



You can turn the lid around if you want to open the lid from the other side. To do this, proceed as follows:

- ► Open the lid and pull it out (A).
- ► Turn the lid.
- ► Insert the lid in the lid holders on the opposite side of the cooler (**B**).

Selecting the temperature units (CF25, CF35, CF40, CF50, CF60)

You can switch the temperature display between Celsius and Fahrenheit. This is how to do it:

- ► Switch on the cooler.
- Press the "SET" button (fig. 4 4, page 10) twice.
- Use the "UP +" (fig. 4 6, page 10) and "DOWN -" (fig. 4 7, page 10) buttons to select Celsius or Fahrenheit.
- ✓ The selected temperature units then appear in the display for a few seconds. The display flashes several times before it returns to the current temperature.

7.2 Energy saving tips

- Choose a well ventilated location which is protected from direct sunlight.
- Allow warm food to cool down first before placing it in the cooling device.
- Do not open the cooling device more often than necessary.
- Do not leave the cooling device open for longer than necessary.
- Defrost the cooling device once a layer of ice forms.
- Avoid unnecessarily low temperatures.

7.3 Connecting the cooler

Connecting to a battery (vehicle or boat)

The cooler can be operated with 12 V--- or 24 V---.



NOTICE! Danger of damage!

Disconnect the cooler and other consumer units from the battery before you connect the battery to a quick charging device. Overvoltage can damage the electronics of the device.

For safety reasons the cooler is equipped with an electronic system to prevent polarity reversal. This protects the cooler against short-circuiting when connecting to a battery.

Using the fused DC plug



NOTICE! Danger of damage!

For protection of the device the DC cable supplied includes a fuse inside the plug. Do **not** remove the fused DC plug. Only use the DC cable supplied.

- Plug the DC connection cable (fig. 1 2, page 6) into the DC power supply inlet of the cooler (fig. 5 1, page 11/fig. 6 3, page 11).
- Connect the connection cable to a DC power outlet.

Connecting to an AC power supply (e.g. in the home or office) (CF35, CF40, CF50, CF60)



DANGER! Danger of electrocution!

- Never handle plugs and switches with wet hands or if you are standing on a wet surface.
- If you are operating your cooler on board a boat from a power supply connection of 100 – 240 V~, you must install a residual current circuit breaker between the 100 – 240 V AC power supply and the cooler.

Seek advice from a trained technician.

The coolers have an integrated multi-voltage power supply with priority circuit for connecting to an AC voltage source. The priority circuit automatically switches the cooler to power supply operation if the device is connected to an AC power supply, even if the DC connection cable is still attached.

When switching between the AC power supply and the battery supply, the red LED may light up briefly.

- Plug the AC connection cable (fig. 1 3, page 6) into the AC power supply inlet of the cooler (fig. 6 1, page 11).
- ► Connect the connection cable to the AC power outlet.

7.4 Using the battery monitor

The device is equipped with a multi-level battery monitor that protects your vehicle battery against excessive discharging when the device is connected to an on-board DC supply.

If the cooler is operated when the vehicle ignition is switched off, the cooler switches off automatically as soon as the supply voltage falls below a set level. The cooler will switch back on once the battery has been recharged to the restart voltage level.



NOTICE! Danger of damage!

When switched off by the battery monitor, the battery will no longer be fully charged. For in-vehicle installations, avoid repeated starting and shutting off of the engine. Allow the vehicle to recharge the battery before powering the cooler on. In "HIGH" mode, the battery monitor responds faster than at the levels "LOW" and "MED" (see the following table).

	CF18			, CF35, C F50, CF6	
Battery monitor mode	LOW	HIGH	LOW	MED	HIGH
Switch-off voltage at 12 V	10.4 V	11.5 V	10.1 V	11.4 V	11.8 V
Restart voltage at 12 V	11.5 V	12.5 V	11.1 V	12.2 V	12.6 V
Switch-off voltage at 24 V	22.1 V	24.0 V	21.5 V	24.1 V	24.6 V
Restart voltage at 24 V	23.6 V	25.4 V	23.0 V	25.3 V	26.2 V

Selecting the battery monitor mode (CF18)

▶ Slide the selection switch (fig. 3 4, page 9) to select the battery monitor mode.

Selecting the battery monitor mode (CF25, CF35, CF40, CF50, CF60)

- Switch on the cooler.
- Press the "SET" button (fig. 4 4, page 10) three times.
- Use the "UP +" (fig. 4 6, page 10) and "DOWN -" (fig. 4 7, page 10) buttons to select the battery monitor mode.
- ✓ Display will be as follows: Lo (LOW), ⊓ed (MED) or HI (HIGH)
- ✓ The selected mode then appears in the display for a few seconds. The display flashes several times before it returns to the current temperature.



NOTE

When the cooler is supplied by the starter battery, select the battery monitor mode "HIGH". If the cooler is connected to a supply battery, the battery monitor mode "LOW" will suffice.

If you wish to operate the cooler from the AC power supply, set the battery monitor to the "LOW" position.

7.5 Using the cooler



NOTICE! Danger of overheating!

Ensure at all times that there is sufficient ventilation so that the heat that generated during operation can dissipate. Ensure that the ventilation slots are not covered. The cooler MUST maintain a MINIMUM of 50 mm away from walls or similar surfaces which could restrict important air flow requirements of the cooling system.

 Place the cooler on a firm foundation. Make sure that the ventilation slots are not covered and that the heated air can dissipate.



NOTE

Place the cooler as shown (fig. **1**, page 6). If you operate the box in a different position it can be damaged.

 Close the cooler, see chapter "Connecting to a battery (vehicle or boat)" on page 15.



NOTE

If you wish to operate the cooler from the AC power supply, set the battery monitor to the "LOW" position.

CF18

- Set the slide switch (fig. 3 4, page 9) to "HIGH" when power is supplied by your vehicle's starter battery.
- Set the slide switch (fig. 3 4, page 9) to "LOW" when power is supplied by an external DC power supply source.
- ✓ The "POWER" LED is lit green.
- ✓ The cooler starts cooling the interior.
- ✓ When the cooling temperature has been reached, the "POWER" LED is lit yellow.

CF25, CF35, CF40, CF50, CF60

- Press the "ON/OFF" button (fig. 4 1, page 10) for between one and two seconds.
- ✓ The "POWER" LED lights up.
- ✓ The display (fig. 4 5, page 10) switches on and shows the current temperature.



NOTE

The temperature displayed is that of the middle of the interior. The temperatures elsewhere can deviate from this temperature.

✓ The cooler starts cooling the interior.



NOTE During low voltage:

If switched off by the battery monitor due to low voltage, the display goes blank, and the LED "POWER" flashes orange.

Latching the cooler lid (CF35, CF40)

- ► Close the lid.
- Press the latch (fig. 2 1, page 9) down, until it latches in place audibly.

7.6 Setting the temperature



NOTICE! Danger from excessively low temperature! Ensure that the only those objects are placed in the cooler that are intended to be cooled at the selected temperature.

CF 18

Set the cooling level with the temperature controller (fig. 3 1, page 9).

CF25, CF35, CF40, CF50, CF60

- Press the "SET" button (fig. 4, page 10) once.
- Use the "UP +" (fig. 4 6, page 10) and "DOWN -" (fig. 4 7, page 10) buttons to select the cooling temperature.
- ✓ The cooling temperature appears in the display for a few seconds. The display flashes several times and then the current temperature is displayed again.

7.7 Using the Emergency Switch

The emergency override switch (fig. 5 2, page 11 and fig. 6 4, page 11) is located in the connection panel.

► For normal operation the switch should be in the NORMAL USE position.

► In the unlikely event of an electronic control failure slide the switch to EMERGENCY OVERRIDE.



NOTE

In this position the appliance will run all the time and will therefore perform as a freezer only.

7.8 Switching off the cooler

- ► Empty the cooler.
- ► Switch the cooler off.
- ► Pull out the connection cable.

If you do not want to use the cooler for a longer period of time:

► Leave the lid slightly open. This prevents odor build-up.

7.9 Defrosting the cooler

Humidity can form frost in the interior of the cooling device or on the evaporator. This reduces the cooling capacity. Defrost the device in good time to avoid this.



NOTICE! Danger of damage!

Never use hard or pointed tools to remove ice or to loosen objects which have frozen in place.

To defrost the cooler, proceed as follows:

- ► Remove the contents.
- ► If necessary, place them in another cooling device to keep them cool.
- ► Switch off the device.
- ► Leave the lid open.
- ► Wipe off the defrosted water.

7.10 Replacing the AC fuse (CF35, CF40, CF50, CF60)

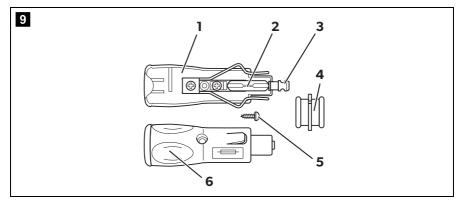


DANGER! Danger of electrocution!

Disconnect the connection cable before you replace the device fuse.

- Pull off the connection cable.
- ▶ Pry out the fuse insert (fig. 6 2, page 11) with a screwdriver.
- ▶ Replace the defective fuse with a new one that has the same rating (T4AL 250 V).
- ► Press the fuse insert back into the housing.

7.11 Replacing the DC plug fuse



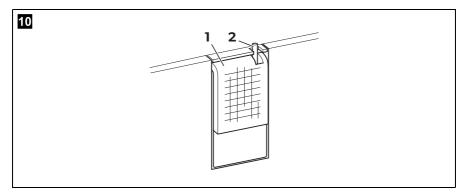
- ► Pull the adapter sleeve (4) off of the plug.
- ► Unscrew the screw (5) out of the upper half of the housing (1).
- ► Carefully raise the upper half of the housing from the lower (6) half.
- ► Take out the contact pin (3).
- Replace the defective fuse (2) with a new fuse of the same type and rating (8 A 32 V).
- ► Re-assemble the plug in the reverse order.



NOTE – Internal DC fuse

There is an additional DC fuse inside the device (Automotive standard blade fuse, 10 A). This fuse can only be replaced by an authorised repair centre.

7.12 Replacing the light bulb (CF25, CF35, CF40, CF50, CF60)



- Press the switch pin (2) downwards so that the transparent part (1) of the lamp can be removed at the front.
- ► Replace the light bulb.



NOTE

The LEDs in the light bulb must be facing the transparent part of the lamp.

▶ Press the transparent part of the lamp back into the housing.

8

Cleaning and maintenance



WARNING! Electrocution hazard

Always disconnect the device from the power supply before you clean and service it.



NOTICE! Risk of damage

- Never clean the cooler under running water or in dish water.
- Do not use abrasive cleaning agents or hard objects during cleaning as these can damage the cooler.
- Occasionally clean the device interior and exterior with a damp cloth.
- Make sure that the air inlet and outlet vents on the device are free of any dust and dirt, so that heat can be released and the device is not damaged.

9 Guarantee

The statutory warranty period applies. If the product is defective, please contact the manufacturer's branch in your country (see back page) or your retailer.

For repair and warranty processing, please include the following documents when you send in the device:

- A copy of the receipt with purchasing date
- A reason for the claim or description of the fault

10 Troubleshooting

Fault	Possible cause	Suggested remedy
Device does not function, LED does not glow.	No voltage was detected in the DC power outlet.	In most vehicles the ignition must be turned on before power will be supplied to the DC power outlet.
	No voltage present in the AC voltage outlet.	Try using another plug outlet.
	The device fuse is defective.	Replace the device fuse, see chapter "Replacing the AC fuse (CF35, CF40, CF50, CF60)" on page 21.
	The integrated power supply adapter is defective.	This can only be repaired by an authorized repair center.
The device does not cool (plug is inserted, "POWER" LED is lit).	Defective compressor.	This can only be repaired by an authorized repair center.
The device does not cool (plug is inserted,	Battery monitor is set too high.	Select a lower battery monitor setting.
"POWER" LED flashes orange, display is switched off).	Battery voltage is too low.	Test the battery and charge it as needed.

Fault	Possible cause	Suggested remedy
When operating from the DC outlet: The ignition is on and the device is not	The DC outlet is dirty. This results in a poor electrical contact.	If the plug of your cooler becomes very warm in the DC outlet, either the DC outlet must be cleaned or the plug has not been assembled correctly.
working and the LED is not lit.	The fuse of the DC plug has blown.	Replace the fuse in the DC plug, see chapter "Replacing the DC plug fuse" on page 21.
	The DC fuse inside the device has blown.	This can only be repaired by an authorised repair centre.
	The vehicle fuse has blown.	Replace the vehicle's DC outlet fuse. Please refer to your vehicle's operating manual.
The display shows an error message (e.g. "Err1") and the appli- ance does not cool.	The appliance has switched off due to an internal fault.	This can only be repaired by an authorized repair center.
The interior light of a compartment flashes.	The lid of the compartment has been left open for more than three minutes.	Close the lid of the compartment.

11 Disposal

 Place the packaging material in the appropriate recycling waste bins wherever possible.



If you wish to finally dispose of the product, ask your local recycling centre or specialist dealer for details about how to do this in accordance with the applicable disposal regulations.

12 Technical data

	CF18	CF25
Connection voltage:	12/24 V	
Rated current		
-12V:	3.1 A	6.8 A
- 24 V :	1.9 A	3.0 A
-100-240 V~:	-	_
Cooling capacity:	+10 °C to -18 °C (+50 °F to 0 °F)	
Gross volume:	181	251
Storage volume:	181	231
Climate class:	N or T	
Ambient temperature:	18 °C to 43 °C (+50 °F to 109.4 °F)	
Noise emission:	-	
Refrigerant quantity:	38 g	40 g
CO ₂ equivalent:	0.054 t	0.057 t
Global warming potential (GWP):	1430	
Dimensions (W \times H \times D) in mm:	465 x 414 x 300	260 x 425 x 550
Weight:	12 kg	12.7 kg
Test/certificates:	l	2

	CF35	CF40
Connection voltage:	12/24 V and 100 - 240 V~	
Rated current		
-12 V:	6.0 A	
- 24 V :	3.0 A	
-100-240 V∼:	1.3 A to 0.7 A	
Cooling capacity:	+10 °C to -18 °C (+50 °F to 0 °F)	
Gross volume:	351	391
Storage volume:	311	371
Climate class:	N or T	
Ambient temperature:	18 °C to 43 °C (+50 °F to 109.4 °F)	
Noise emission:	45 dB(A)	
Refrigerant quantity:	40 g	45 g
CO ₂ equivalent:	0.057 t	0.0064 t
Global warming potential (GWP):	1430	
Dimensions (W x H x D) in mm (with handles removed):	360 x 385 x 580	360 x 445 x 580
Dimensions (W x H x D) in mm (including handles):	360 x 385 x 710	360 x 445 x 710
Weight:	15.5 kg	17.2 kg
Test/certificates:	L	2

	CF 50	CF60	
Connection voltage:	12/24 V and	12/24 V=== and 100 – 240 V~	
Rated current			
- 12 V===:	7.0 A		
- 24 V:	3.0 A		
-100-240 V∼:	1.3 A to 0.7 A		
Cooling capacity:	+10 °C to -18 °C	+10 °C to -18 °C (+50 °F to 0 °F)	
Gross volume:	48	581	
Storage volume:	46	551	
Climate class:	No	N or T	
Ambient temperature:	18 °C to 43 °C (+6	18 °C to 43 °C (+64.4 °F to 109.4 °F)	
Noise emission:	45 c	45 dB(A)	
Refrigerant quantity:	45 g	55 g	
CO ₂ equivalent:	0.064 t	0.079 t	
Global warming potential (GWP):	1430	1430	
Dimensions (W x H x D) in mm (with handles removed):	630 x 480 x 360	630 x 580 x 360	
Dimensions (W x H x D) in mm (including handles):	760 x 480 x 360	760 x 580 x 360	
Weight:	18.5 kg	20.6 kg	
Test/certificates:		2	



NOTE

If the ambient temperature is above 32 $^{\circ}\text{C}$ (90 $^{\circ}\text{F}),$ the minimum temperature cannot be attained.

The refrigerant circuit contains R134a.

Contains fluorinated greenhouse gases

Hermetically sealed equipment

Mobile living made easy.



dometic.com

YOUR LOCAL DEALER

YOUR LOCAL SUPPORT



dometic.com/dealer

dometic.com/contact

dometic.com/sales-offices

A complete list of Dometic companies, which comprise the Dometic Group, can be found in the public filings of: **DOMETIC GROUP AB** Hemvärnsgatan 15 SE-17154 Solna Sweden