

↔ DOMETIC

MOBILE COOLING

ACX3 SERIES

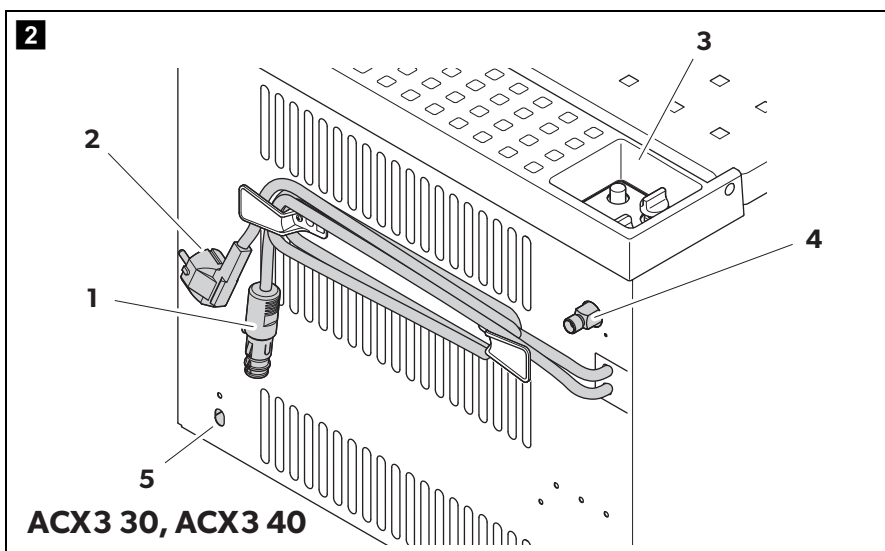
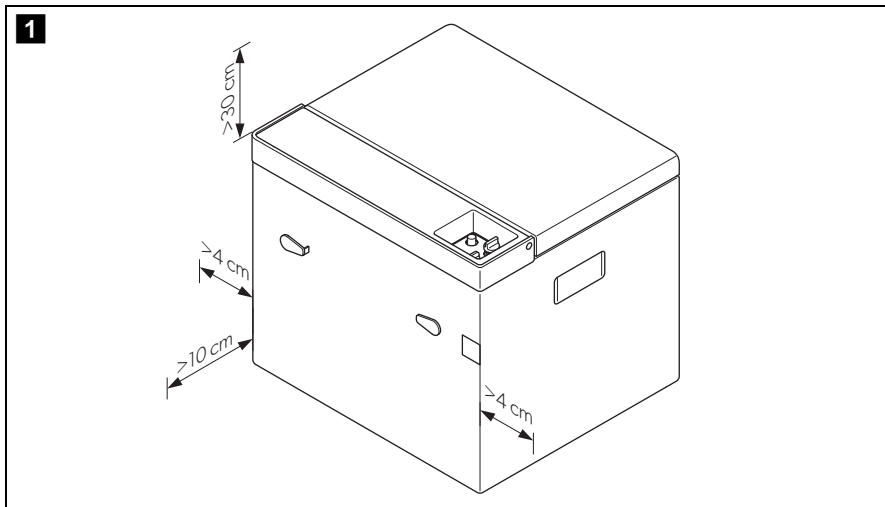


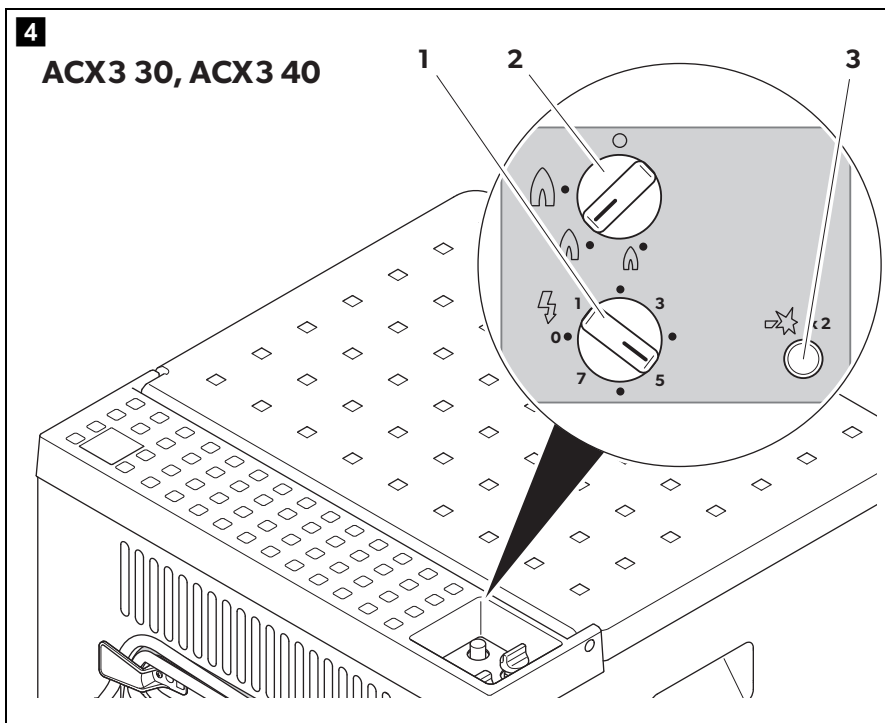
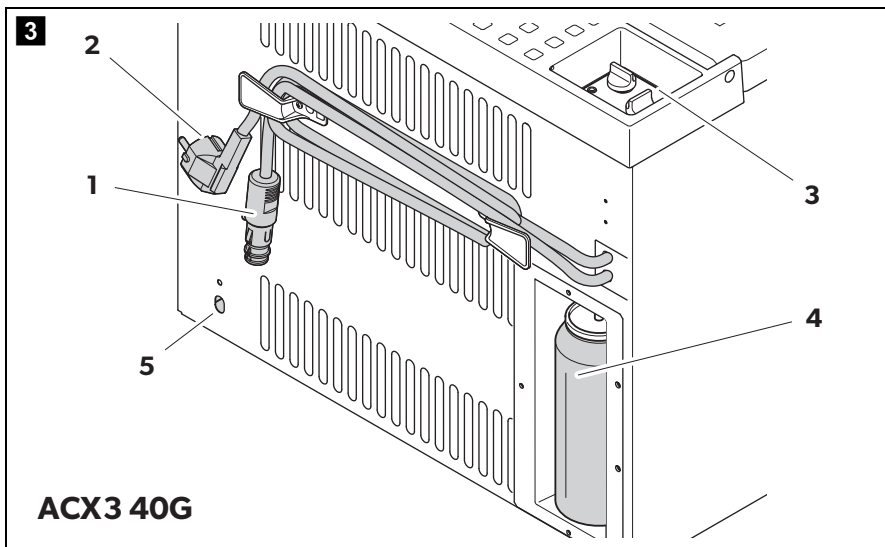
ACX3 30, ACX3 40, ACX3 40G

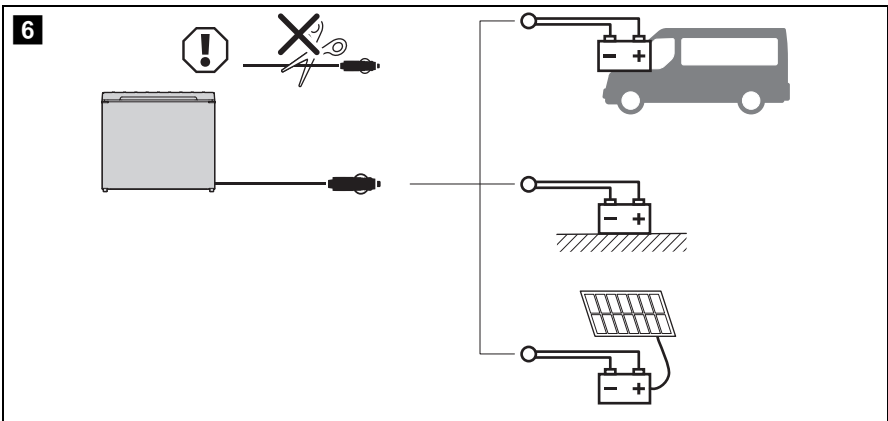
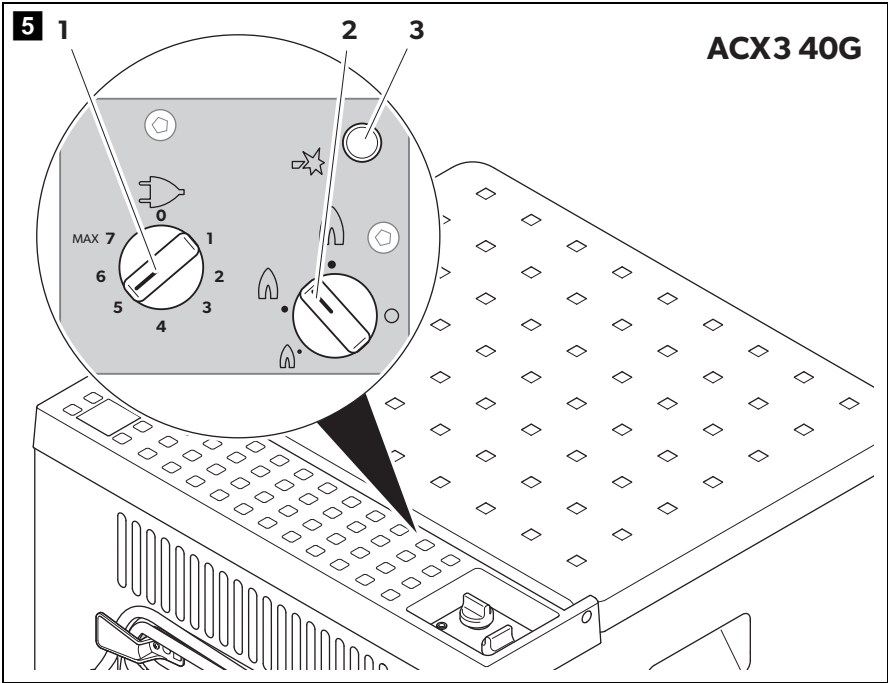
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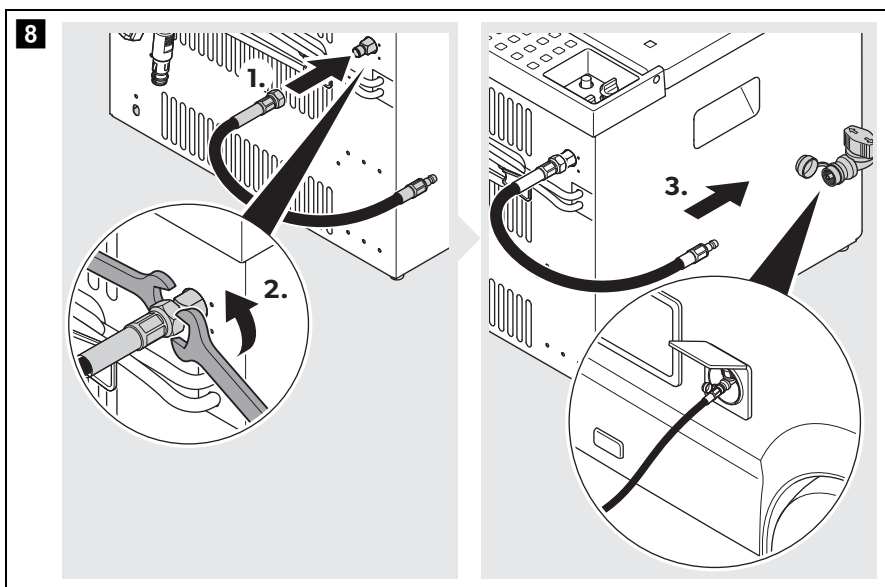
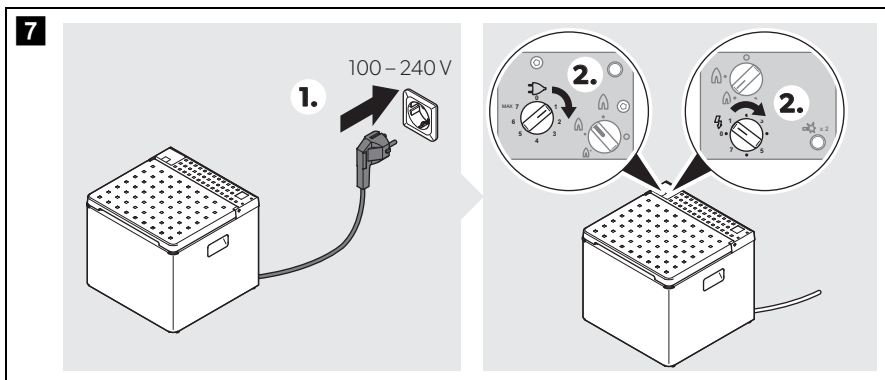
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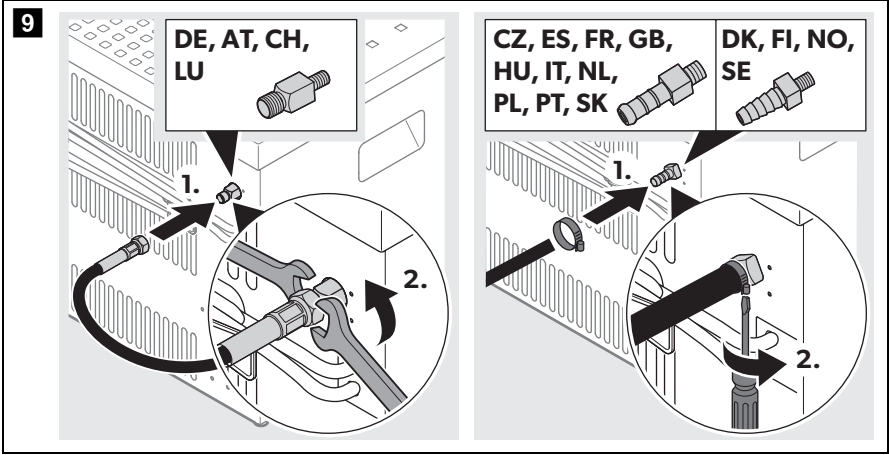
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DE, AT, CH, LU

I₃B/P – 50 mbar

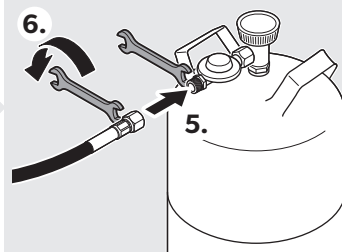
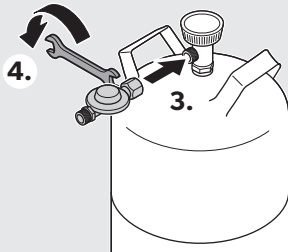
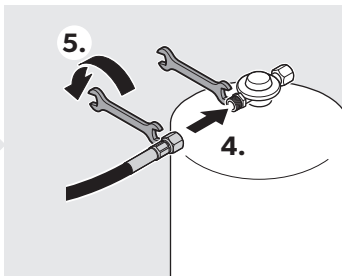
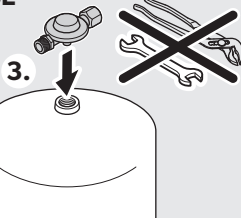
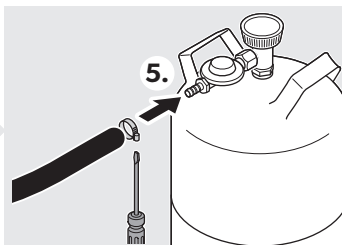
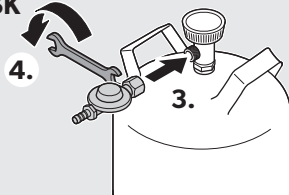
DK, FI, HU, NO, PL, SE

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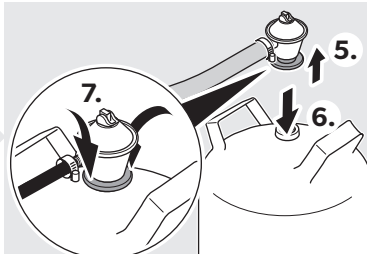
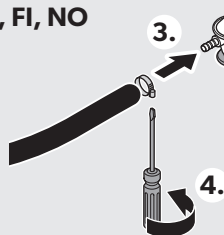
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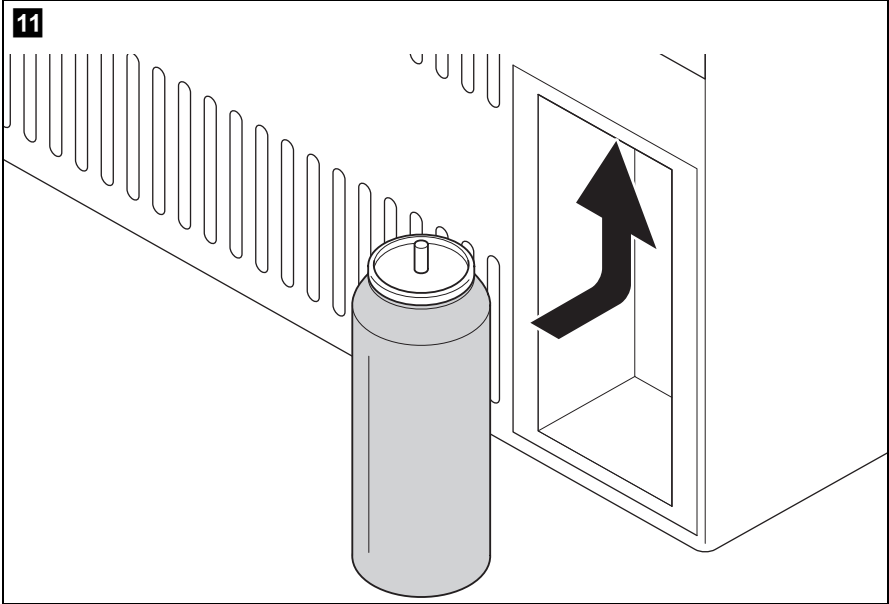
I₃± 28 - 30/37 mbar

DE, AT, CH, PL

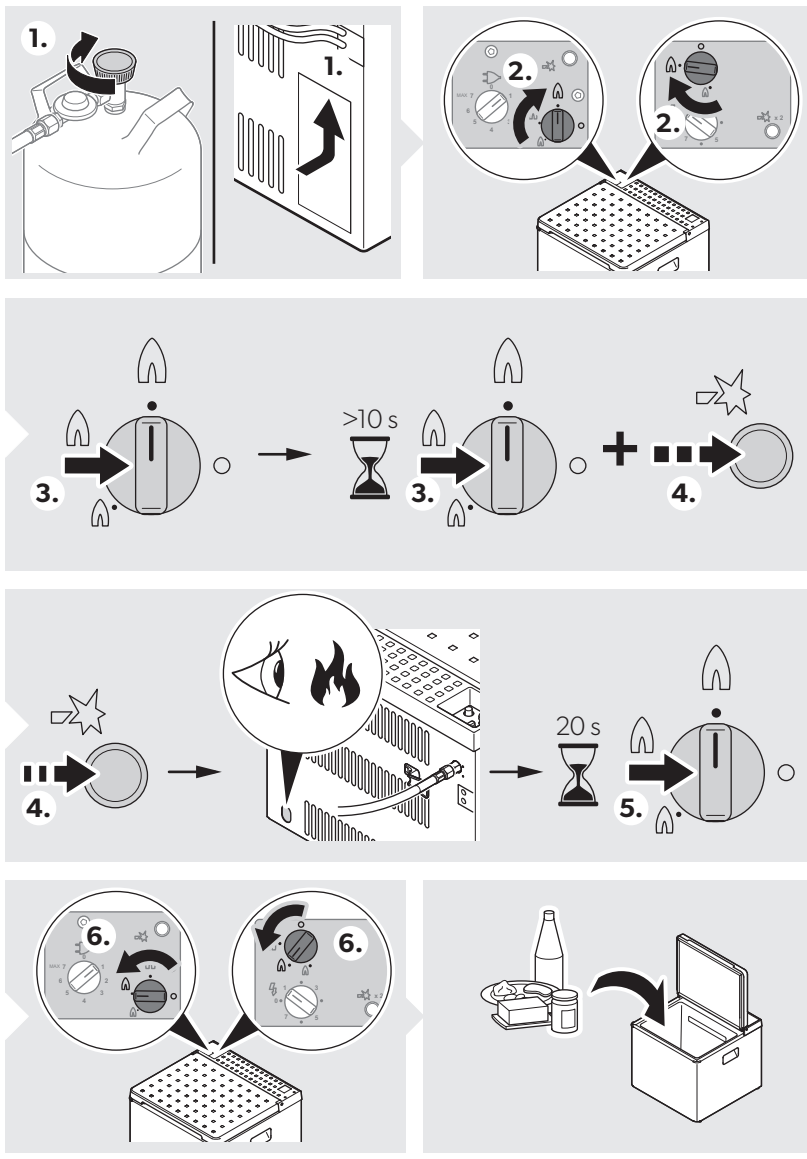
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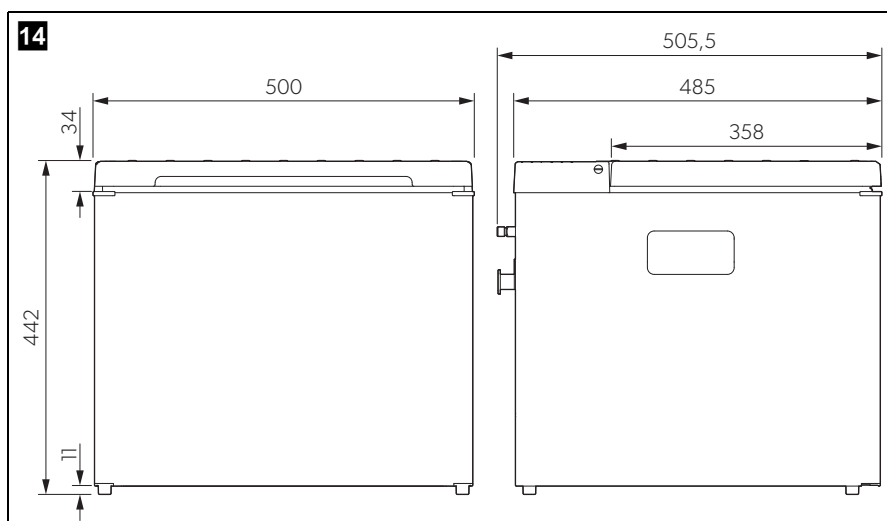
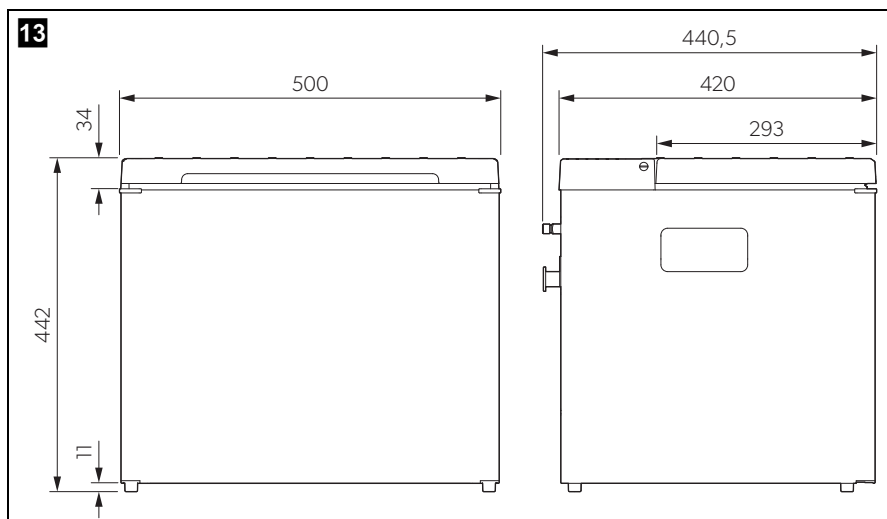
DK, FI, NO

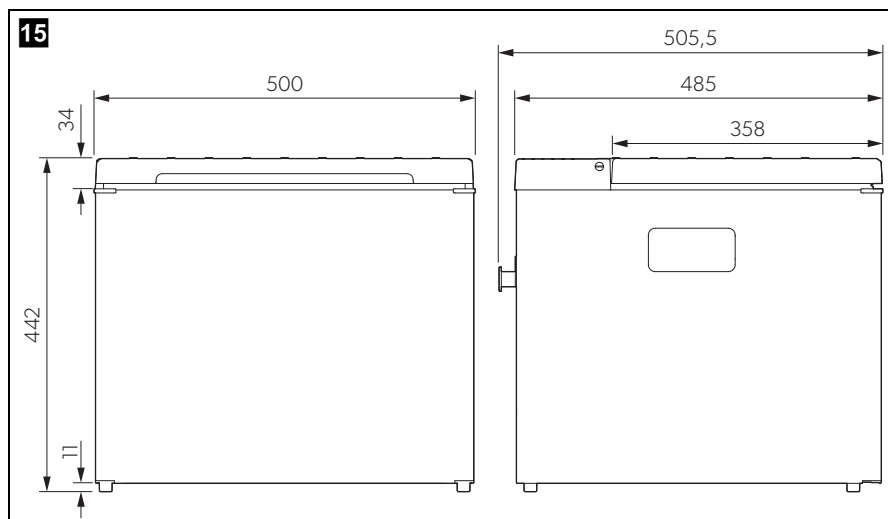




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Please carefully read and follow all instructions, guidelines and warnings included in this product manual in order to ensure that you install, use and maintain the product properly at all times.

By using the product, you hereby confirm that you have read this disclaimer, all instructions, guidelines and warnings carefully and that you understand and agree to abide by the terms and conditions as set forth herein.

You agree to use this product only for the intended purpose and application and in accordance with the instructions, guidelines and warnings as set forth in this product manual as well as in accordance with all applicable laws and regulations.

A failure to read and follow the instructions and warnings set forth herein may result in an injury to yourself and others, damage to your product or damage to other property in the vicinity.

Dometic accepts no liability for any loss, damage or injury incurred, directly or indirectly, from the installation, use or maintenance of the product not in compliance with the instructions and warnings in the product manual.

This product manual, including the instructions, guidelines and warnings, and related documentation may be subject to changes and updates. For up-to-date product information, please visit: documents.dometic.com, dometic.com.

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1 Explanation of symbols



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

2.1 General safety



WARNING! Failure to obey these warnings could result in death or serious injury.

Electrocution hazard

- Do not operate the cooling device if it is visibly damaged.
- If this cooling 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 cooling device may only be repaired by qualified personnel. Improper repairs can lead to considerable hazards.

Fire hazard

- The refrigerant in the refrigerant circuit is highly flammable. In the event of any damage to the refrigerant circuit (smell of ammonia):
 - Switch off the device.
 - Avoid naked flames and sparks.
 - Air the room well.
- When positioning the device, ensure the supply cord is not trapped or damaged.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the device.

Health hazard

- Never open the absorber unit. It is under high pressure and can cause injury if it is opened.

- This device can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the device in a safe way and understand the hazards involved.
- Children shall not play with the device.
- Cleaning and user maintenance shall not be made by children without supervision.
- Children aged from 3 to 8 years are allowed to load and unload cooling devices.

Explosion hazard

- Do not store any explosive substances such as spray cans with a flammable propellant in the cooling device.



CAUTION! Failure to obey these cautions could result in minor or moderate injury.

Electrocution hazard

- Before starting the cooling device, ensure that the power supply line and the plug are dry.
- Disconnect the cooling device from the power supply
 - before each cleaning and maintenance
 - after every use

Health hazard

- Please check if the cooling capacity of the device is suitable for storing the food or medicine you wish to cool.
- Only use the appliance where there is good ventilation.
- Do not let the appliance operate unattended.
- Only operate the cooler from a single energy source.
- Food may only be stored in its original packaging or in suitable containers.
- Opening the cooling device for long periods can cause significant increase of the temperature in the compartments of the device.
- Clean regularly surfaces that can come in contact with food and accessible drainage systems.
- Store raw meat and fish in suitable containers in the device, so that it is not in contact with or can drip onto other food.

- If the device is left empty for long periods:
 - Switch off the device.
 - Defrost the device.
 - Clean and dry the device.
 - Leave the lid open to prevent mould developing within the device.



NOTICE! Damage hazard

- Check that the voltage specification on the type plate corresponds to that of the energy supply.
- Only connect the cooling device as follows:
 - DC outlet: Only use cables with an appropriate cross section.
 - AC outlet: Only use the AC cable supplied
- Never pull the plug out of the socket by the cable.
- If the cooling device is connected to a DC outlet: Only select DC operation (battery mode) if you are using a battery monitor or if the alternator in your vehicle provides sufficient voltage.
- If the cooling device is connected to a DC outlet: Disconnect the cooling device 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 insulation of the cooling device contains flammable cyclopentane and requires special disposal procedures. Deliver the cooling device at the end of its life-cycle to an appropriate recycling center.
- Do not use electrical devices inside the cooling device unless they are recommended by the manufacturer for the purpose.
- Do not place the cooling device near naked flames or other heat sources (heaters, direct sunlight, gas ovens etc.).
- **Risk of overheating!**

Always ensure sufficient ventilation so that the heat generated during operation can dissipate. Make sure that the cooler is sufficiently far away from walls and other objects so that the air can circulate. Keep the following spaces (fig. **1**, page 3).
- To enable the refrigerant to circulate properly, the cooler may not be tilted by more than 3°. Use a spirit level to make sure the cooler is level.
- Ensure that the ventilation openings are not covered.
- Do not fill the inner container with ice or fluids.
- Never immerse the cooling device in water.
- Protect the cooling device and cables against heat and moisture.

- The device shall not to be exposed to rain.

2.2 Safety when operating with gas



WARNING! Failure to obey these warnings could result in death or serious injury.

Explosion hazard

- Only operate the device at the pressure shown on the type plate. Only use pressure controllers with a fixed setting which comply with the national regulations. Use a DIN-DVGW-approved pressure regulator with a fixed setting in accordance with DIN EN 16129.
- When using gas, the cooler may **only** be used outdoors.
- **Beware of suffocation!**
Operating the device with gas in an unventilated area will reduce the amount of oxygen in this area.
- Do not operate the device in unventilated areas such as enclosed premises, tents, motor vehicles, motor homes, caravans, ships, yachts, boats and truck cabs.
- Never place the device near flammable materials (paper, dry leaves, textiles).
- Keep flammable objects away from the burner.
- **Never** store liquid gas cylinders in unventilated areas or below ground level (funnel shaped holes in the ground).
- Keep liquid gas cylinders away from direct sunlight. The temperature may not exceed 50 °C.
- Never use a naked flame to check the cooler for leaks.
- If you smell gas:
 - Close the gas supply cock and the valve on the cylinder.
 - Do not press an electric switch.
 - Put out any naked flames.
 - Have the gas system checked by a specialist.



NOTICE!

- Only use propane or butane gas (not natural gas).

3 Scope of delivery

- Absorber cooler
- Tray with cover for making ice cubes

4 Intended use

The absorber cooler is suitable for cooling food.

The cooler can be operated with DC power, AC power or gas.

The cooler is suitable for camping use.

This product is only suitable for the intended purpose and application in accordance with this instruction. Any other use, deviating from the intended use, is not allowed! Dometic accepts no liability for any loss, damage or injury incurred, directly or indirectly due to other as the intended use.

5 Technical description

The cooler is portable. It can keep goods cool up to max. 30 °C below ambient temperature.

If using gas, the cooler may only be operated outdoors.

If using electricity, the cooler may also be operated in enclosed spaces.

5.1 Connections

No. in fig. 2, page 3, fig. 3, page 4	Description
1	DC connection cable
2	AC connection cable
3	Control elements
4	Gas connection port (only ACX3 30 and ACX3 40)
4	Gas cartridge (only ACX3 40G)
5	Pilot light sight glass

5.2 Control elements

No. in fig. 4, page 4, fig. 5, page 5	Description
1	Cooling level controller (AC operation)
2	Cooling level controller (gas operation)
3	Ignition button

When the cooler is connected to the AC mains, the required cooling level is set using the cooling level controller for AC operation **(1)**.

- ▶ To **increase** the cooling level, turn the cooling level controller **(1)** clockwise.
For the maximum cooling level, turn the cooling level controller **(1)** clockwise as far as it will go.
- ▶ To **decrease** the cooling level, turn the cooling level controller **(1)** anticlockwise.
- ▶ To switch the cooler off, turn the cooling level controller **(1)** anticlockwise as far as it will go.

When the cooler is connected to the DC power socket the cooling level **cannot** be adjusted.

When the cooler is operated with gas, the required cooling level is set using the cooling level controller for gas operation **(2)**.

- ▶ To **increase** the cooling level, turn the cooling level controller **(2)** clockwise.
For the maximum cooling level, turn the cooling level controller **(2)** to the maximum position.
- ▶ To **decrease** the cooling level, turn the cooling level controller **(2)** anticlockwise.
- ▶ To switch the cooler off, turn the cooling level controller **(2)** anticlockwise as far as it will go .

6 Operation



NOTICE! Beware of damage

- Ensure that the items placed in the cooler are suitable for cooling to the selected temperature.
- Ensure that food or liquids in glass containers are not excessively refrigerated. Liquids expand when they freeze, and can therefore destroy glass containers.
- Ensure that your refrigerated container is well ventilated so that any heat created can dissipate. Otherwise proper functioning cannot be ensured. It is especially important not to cover the air vents.



NOTE

- Before starting your new cooler for the first time, you should clean it inside and outside with a damp cloth for hygienic reasons (see also chapter "Cleaning and maintenance" on page 25).
- Cool the cooler for about 24 hours before starting your journey using gas or electricity from the mains. This way your cooler will attain the required cooling level faster when you reach your destination.
- The cooling performance can be affected by:
 - the ambient temperature
 - the amount of food to be conserved
 - how often the lid is opened.
- A few water drops may form inside the cooler if it has been cooling for a lengthy period. This is normal because the moisture in the air condenses to water when the temperature in the cooler falls. The cooler is not defective. Wipe it out with a dry cloth if necessary.

- ▶ Press the control element cover (fig. **2** 3, page 3 and fig. **3** 3, page 4) to open it.
- ▶ To close the control element cover (fig. **2** 3, page 3 and fig. **3** 3, page 4), push it towards the lid until it latches.

6.1 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 to keep cool.
- Do not open the cooling device more often than necessary.
- Do not leave the cooling device open for longer than necessary.

6.2 Using the cooler in DC mode

Proceed as follows (fig. **6**, page 5):

- ▶ Place the cooler on a firm, level surface.
- ▶ Plug the DC connection cable (fig. **2** 1, page 3 and fig. **3** 1, page 4) into the DC socket in the vehicle.
- ✓ The cooler starts cooling the interior.
- ▶ Pull out the DC connection cable to switch off the cooler.

6.3 Connecting to vehicle power



NOTE

If you connect the cooling device to the vehicle power, remember that you may have to turn on the ignition to supply it with power.

6.4 Using the cooler in AC mode

Proceed as follows (fig. **7**, page 6):

- ▶ Place the cooler on a firm, level surface.
- ▶ Plug the AC connection cable (fig. **2** 2, page 3 and fig. **3** 2, page 4) into the AC mains.
- ▶ Turn the cooling level controller (fig. **4** 1, page 4 and fig. **5** 1, page 5) to the required position.
- ✓ The cooler starts cooling the interior.

6.5 Connecting the cooler to a gas supply



WARNING!

- Never check for leaks with an open flame or near sources of ignition.
- Only use approved hose lines (DIN 4815, part 2) with a maximum length of 1.5 m.

**NOTICE!**

- Only use cylinders of propane or butane gas (not natural gas or city gas) with an approved pressure reduction valve and suitable head. Compare the pressure information on the type plate with the pressure information on the pressure regulator on the propane or butane gas cylinder.
- Observe the pressures which are permitted in your country. Use a DIN-DVGW-approved pressure regulator with a fixed setting:
 - The following applies for Germany: DIN EN 16129.
 - The following applies for Europe: EN 732, EN 521 and EN 437:2019-04.
- The cooler may only be operated with hose lines in a perfect technical condition. Replace any porous or damaged hose lines.

**NOTE**

Use a gas pressure controller to match the gas pressure that is specified on the type plate.

6.6 Connecting the cooler to an external gas connection socket (ACX3 30 and ACX3 40)

**WARNING!**

There must be a shut-off device in the gas line so that the cooler can be cut off separately. The shut-off device must be easily accessible.

Proceed as follows (fig. **8**, page 6):

- ▶ Place the cooler on a firm, level surface.
- ▶ Connect the hose line to the gas connection port of the cooler.
To do this, use two open-end spanners of 13 mm and 17 mm.
- ▶ Make sure that the hose line
 - is not crushed or kinked
 - is a safe distance from the burner
- ▶ Take the safety cap off the safety coupling of the gas port.
- ▶ Push the sleeve of the hose line into the safety coupling until you hear it latch.
- ▶ Open the valve on the safety coupling.
- ▶ Open the valve of the gas cylinder or container.
- ▶ Check all connections with leak spray.

There are no leaks at the connections if **no** bubbles form.

Disconnecting the cooler from the external gas supply

- ▶ Close the valve of the safety coupling of the gas port.
- ▶ Disconnect the hose line by pushing the sleeve towards the valve handle.
- ▶ Put the cap onto the safety coupling.
- ▶ Turn the cooling level controller (fig. **4** 2, page 4 and fig. **5** 2, page 5) anti-clockwise as far as it will go (position "O").

6.7 Connecting the cooler to a gas cylinder (ACX3 30 and ACX3 40)

Note the following country-specific gas type and gas pressure categories:

Country	Device categories
Denmark (DK), Finland (FI), Hungary (HU), Norway (NO), Poland (PL), Sweden (SE)	I ₃ B/P – 30 mbar
Belgium (BE), Czech Republic (CZ), France (FR), Italy (IT), The Netherlands (NL), Portugal (PT), Slovakia (SK), Spain (ES), United Kingdom (GB)	I ₃ + – 28 – 30 / 37 mbar
Germany (DE), Austria (AT), Switzerland (CH), Luxembourg (LU)	I ₃ B/P – 50 mbar

- ▶ Connect the ACX3 30 or ACX3 40 cooler to the gas hose (fig. **9**, page 7) and the gas cylinder (fig. **10**, page 8).



NOTICE!

- After connecting the device to the gas supply, check the gas pipe for leakage at all the connection points (all threaded connections, hose connections with clamps, connection to the gas cylinder) using a foaming agent, e.g. with soap.
- In addition, perform a visual inspection of the hose (for cracks, weathering, damage).
- Replace any faulty hoses immediately with a new one.

6.8 Connecting a gas cartridge to the cooler (ACX3 40G)



WARNING!

- Observe the handling and storage instructions for the gas cartridge.
- Make sure that the ports on the cartridge and the cooler are free of dirt.



NOTE

The cooler is suitable for operation with self-sealing gas cartridges of the type CAMPINGGAZ CP250.

- ▶ Push the gas cartridge up into the port on the cooler (fig. **11**, page 9).



WARNING!

Never check for leaks with an open flame or near sources of ignition.

- ▶ Check all connections with leak spray.
There are no leaks at the connections if **no** bubbles form.

Any time you move the cooler:

- ▶ Take out the gas cartridge first.

6.9 Using the cooler in gas mode

Proceed as follows (fig. **12**, page 10):

- ▶ Turn the cooling level controller (fig. **4** 2, page 4 and fig. **5** 2, page 5) to the maximum position.
- ▶ Press and hold the cooling level controller.
- ▶ After 10 seconds, press the ignition button (fig. **4** 3, page 4 and fig. **5** 3, page 5) several times quickly in succession until the flame is lit.
- ✓ After ignition, you can see the flame in the sight glass (fig. **2** 5, page 3 and fig. **3** 5, page 4).
- ▶ Hold down the cooling level controller for another 20 seconds.

To switch off the cooler:

- ▶ Close off the gas valve on the device and on the gas cylinder.

6.10 Defrosting the cooler

**NOTICE!**

Never use mechanical tools to remove ice or to loosen objects stuck to the device.

**NOTE**

Over time, frost builds up on the cooling fins inside the cooler. If this layer of frost is about 3 mm thick, you should defrost the cooler.

- ▶ Disconnect the voltage and gas supply.
- ▶ Empty the cooler.
- ▶ Put a cloth in the cooler to absorb any excess water.
- ▶ Leave the lid open.
- ▶ Wipe the cooler dry with a cloth.

7 Cleaning and maintenance

**NOTICE! Damage hazard**

Do not use sharp or hard objects or cleaning agents for cleaning as these may damage the product.

- ▶ Occasionally clean the product with a damp cloth.

7.1 Cleaning the gas burner

**WARNING!**

- Work on gas installations may only be performed by qualified technicians.
- Allow the burner to cool down before cleaning it.

**NOTE**

- Dirt in the gas burner is indicated by poor ignition or deflagrations.
- The manufacturer also recommends cleaning the burner after it has not been used for an extended period, and at least once a year.

8 Warranty

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

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

9 Troubleshooting

Problem	Possible cause	Suggested remedy
The cooler does not work.	The cooler has not been set up properly.	Check if the device is horizontal. Check if the ventilation of the device is sufficient.
	The refrigerant circuit is defective.	This can only be repaired by an authorised repair centre.
IN DC mode: The cooler is not working (plug is inserted).	No voltage is flowing from the DC power socket in your vehicle.	The ignition must be switched on in most vehicles to supply current to the DC power socket.
	The DC socket is dirty. This results in a poor electrical contact.	If the plug of your cooler becomes very warm in the DC socket, either the socket must be cleaned or the plug has not been assembled correctly.
	The fuse of the DC plug has blown.	Replace the fuse of the DC plug with one of the same rating.
	The vehicle fuse has blown.	Replace the vehicle fuse in the DC socket (usually 15 A) (Please refer to the operating manual of your vehicle).
In AC mode: The cooler is not working (plug is inserted).	No voltage present in the AC socket.	Try using another plug socket.

Problem	Possible cause	Suggested remedy
<p>In gas mode: The cooler is not working (to cooler is connected to the gas).</p>	<p>The cooler is not properly connected to the gas.</p>	<p>Check if the gas supply is in full working order. Check if the valve on the gas bottle is open. Check if there is still gas in the bottle. Check if several energy sources are connected at the same time. Hold down the cooling level controller longer to ignite the flame.</p>
<p>The cooler does not start up after a long period of inactivity.</p>		<p>Disconnect the device from the power supply, turn it upside down and wait for five minutes. Turn the cooler the right way up again and switch it on again.</p>


10 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.

11 Technical data

	ACX3 30	ACX3 40
Gas consumption:	12.6 g/h	
Nominal heat input Butane:	175 W	
Minimum heat input Butane:	128 W	
Connection voltage:	12 V ₌₌₌ 220 – 240 V _~ , 50/60 Hz	
Power consumption:	75 W	85 W
Cooling capacity:	max. 30 °C below ambient temperature	
Total volume:	33 l	41 l
Energy consumption:	1.4 kWh/24 h	1.6 kWh/24 h
Climate class:	N	
Ambient temperature:	16 to 32 °C	
Noise emission:	>0 dB	
Refrigerant:	159 g H ₂ O + 86 g NH ₃	
Dimensions (W x H x D) in mm:	see fig. 13 , page 11	see fig. 14 , page 11
Weight:	Approx. 15 kg	Approx. 16 kg
Inspection/certification:		
	ACX3 30 28 – 30 mbar, 30 mbar, 37 mbar	ACX3 40 28 – 30 mbar, 30 mbar, 37 mbar
Ref. no.:	9600028404, 9600028405, 9600028406, 9600028413	9600028408, 9600028409, 9600028410, 9600028411
	ACX3 30 50 mbar	ACX3 40 50 mbar
Ref. no.:	9600028403	9600028407

	ACX3 40G
Gas consumption:	12.6 g/h
Nominal heat input Butane:	175 W
Connection voltage:	12 V=== 220 – 240 V~, 50/60 Hz
Power consumption:	85 W
Cooling capacity:	max. 30 °C below ambient temperature
Total volume:	41 l
Energy consumption:	1.6 kWh/24 h
Climate class:	N
Ambient temperature:	16 to 32 °C
Noise emission:	>0 dB
Refrigerant:	159 g H ₂ O + 86 g NH ₃
Dimensions (W x H x D) in mm:	see fig. 15 , page 12
Weight:	Approx. 16 kg
Inspection/certification:	
	ACX3 40G
Ref. no.:	9600028412,9600028414