

↔ DOMETIC

PORTABLE REFRIGERATION

FRIDGE/FREEZERS & COOLERS



COOLPRO

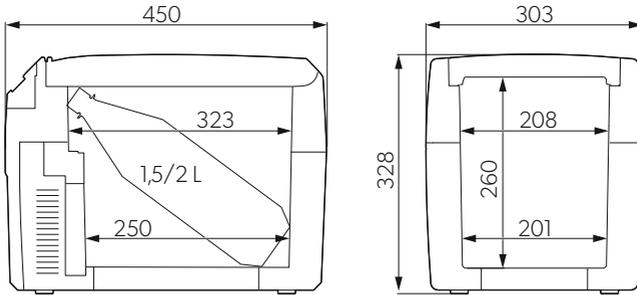
TC 14, TC 21, TC 35

Thermoelectric Cooler

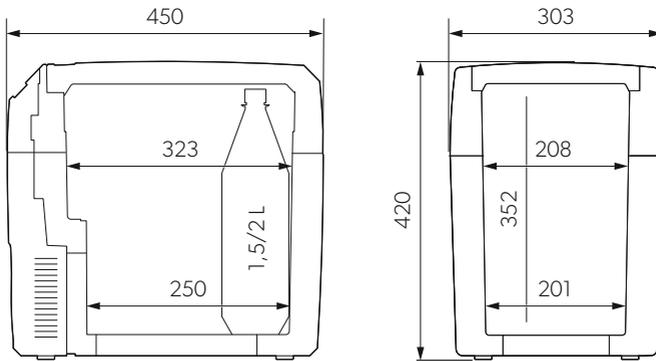
Operation Manual

1

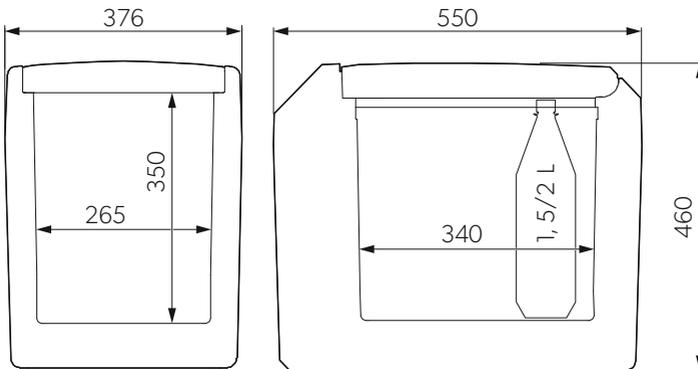
TC 14



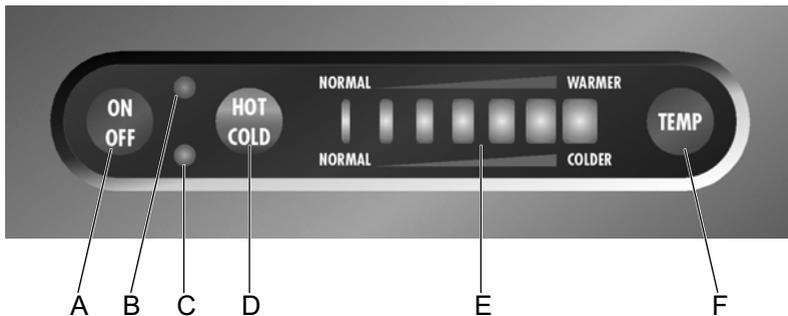
TC 21



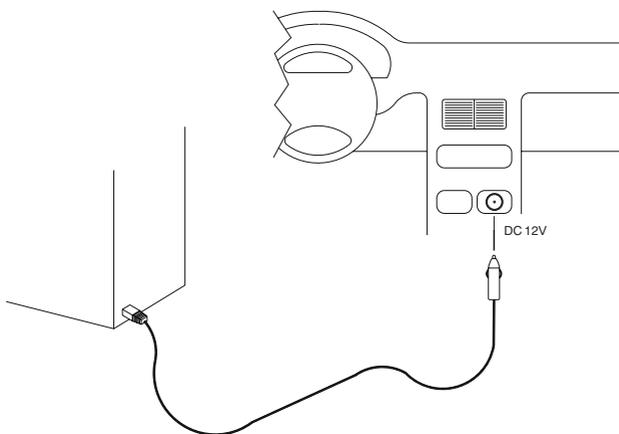
TC 35



2



3



Read these instructions carefully before the installation and commissioning and keep them in a safe place. Pass it on to the buyer in case of the further sale of the device.

List of contents

1	Information on using the installation instructions	4
2	Safety notes	5
3	Scope of delivery	6
4	Use as intended	6
5	Technical description	7
6	Operation	7
7	Cleaning and servicing	10
8	Disposal	10
9	Troubleshooting	11
10	Technical data	12

1 Information on using the installation instructions

The following symbols are used in these operating instructions:



Caution!

Safety note: Failure in observing these warnings may result in injuries to persons or damage of equipment.



Caution!

Safety note which points out the dangers involved with electrical current or electrical voltage: Failure in observing these warnings may result in injuries to persons or damage of equipment and improper functioning of the device.



Note

Supplementary information on the operation of the device.

- **Action:** This symbol indicates to you that you must do something. The actions necessary are described step by step.
- ✓ This symbol describes the result of an action.

Please also observe the following safety notes.

2 Safety notes

2.1 General safety

- Connect the device only as follows:
 - with the connecting cable contained in the scope of delivery to the alternating current circuit
 - with the connecting cable contained in the scope of delivery to the cigarettelighter in the vehicle (see illustration 3, page 3).
- The appliance shall not be exposed to rain.
- Never pull the plug at the connecting cable out of the cigarettelighter or the socket.
- If the supply cord is damaged, it must be replaced with same type and rating AC cord in order avoid a hazard.
- If the device shows visible damage, you may not put it into operation.
- Repairs on this device may be executed only by specialists. Considerable dangers can occur as a result of improper repairs.
Contact the customer service in the case WAECO of repairs.
- Disconnect the connecting cable
 - before each cleaning and servicing,
 - after each use.
- Make sure that the venting slots will not be covered!
- With boats: Make sure that with mains operation that your power supply is protected via a FI-switch! **Danger to life!**
- Disconnect your refrigerator and other consuming units from the battery before connecting a fast battery recharger!
- Compare the voltage indicated on the type plate to the present energy supply.
- The refrigerator is not suitable for the transport of corrosive or solvent-based substances!
- Food may only be stored in its original packaging or in suitable containers.



Electrical devices are no toys!

Please keep and use the device out of the reach of children.

2.2 Safety when operating the device

- Ensure before starting up that supply line and plug are dry.
- Do not place the device in the proximity of open flames or other heat sources (heating, strong solar rays, gas ovens etc.).
- Do not fill any liquids or ice into the interior container.
- Never immerse the device into water.
- Protect the device and the cables against heat and wetness.
- Never grasp with your bare hands the bare lines. This applies above all when operating on the alternating current circuit: **Danger to life!**
- WAECO is not liable for damages which are caused by **non- intended use or wrong operation**.

3 Scope of delivery

Quantity	Designation
1	Refrigerator
1	Connecting cable for mains operation
1	Connecting cable for cigarette lighter

Check before starting up the device that all parts are available belonging to the scope of delivery.

4 Use as intended

The refrigerator can be used to cool and keep foodstuffs warm. The device can be also used for camping purposes.

If you want to cool medicine, check please if the cooling capacity of the device corresponds to the requirements of the respective pharmaceuticals.

All materials processed in the refrigerator are safe for foodstuffs.

5 Technical description

The cooling box is suitable for mobile use. It can cool goods up to max. 25°C under ambient temperature (thermostatic switch-off with approx. +1 °C) or keep them cool or warm them up to max. 65 °C or keep them warm.

If the device has reached the set temperature range, then it will automatically switch over to the energy save mode. In this mode only the energy is consumed which is required to reach the temperature inside the box.

The cooling is a wear and CFC-free thermo-electric cooler with heat removal through a ventilator.

The cooling box is equipped with an automatic priority circuit. Thus it is ensured that with simultaneous connection to the alternating current circuit and to a 12/24-V-battery, the alternating current circuit will be used.

6 Operation



Before you put the new refrigerator into operation, you should clean it inside and outside with a damp cloth for hygienic reasons (see also Chapter „Cleaning and servicing“ on page 19).

6.1 Tips to save energy



A ventilator in the interior space of the cooling box provides for the circulation of the cold air within the box. Thus a better cooling capacity will be achieved. In order that the cold air cannot reach the outside when opening the cooling box, this is equipped with a switch which turns off the ventilator as soon as the lid is opened.

- Select a well ventilated location which is protected against sunrays.
- Let warm foods first cool down before you bin them.
- Avoid an unnecessary low inside temperature!
- Do not open the refrigerator more often than necessary!
- Do not leave the lid or door open longer than necessary!

6.2 Switch on the cooling box

- Place the cooling box on a stable base.



The plug is safe against wrong polarity: You can plug it only in one direction into the (see illustration 3, page 3) socket.

- Connect the cooling box
 - with the connecting cable contained in the scope of delivery to the socket or...
 - with the supplied connecting cable to the cigarette lighter in the vehicle (see illustration 3, page 3).
- Press the button „ON/OFF“ at the control panel (see Illustration 2 A, Page 3) to switch on the cooling box.
- ✓ The cooling box starts to cool or heat the interior space.

Operating display

red
(see Illustration 2 B,
Page 3)

blue
(see Illustration 2 C,
Page 3)

Operating mode

heating

cooling



Take care that there are only objects or goods in the cooling box which may be cooled or heated to the selected temperature.

6.3 Switch over between cooling and heating

- If you want to switch over between **cooling** and **heating**, press the button „HOT/COLD“ (see Illustration 2 D, Page 3).



The control unit of the cooling box has a memory function. Thus the temperature range which is previously selected in the mode is set again with each switching on or switching over.

- ✓ The red or blue operating display lights up and the device starts to cool/heat.

- When you want to finish the cooling or heating process, press the button „ON/OFF“ (see Illustration 2 A, Page 3).
- When you put the cooling box out of operation, disconnect the connecting cable.

6.4 Select temperature

The status display of the temperature (see Illustration 2 F, Page 3) indicates the selected temperature range. With an increasing number of illuminating LEDs, the intensity of the temperature range also increases.



The following temperature indications are subject to tolerances and are dependent on the measuring position.

Interior space-temperature at approx. 25 °C ambient temperature:

	Status display	Temperature range
Cooling	seven illuminating LEDs	approx 1 °C in the interior space
	an illuminating LED	approx 15 °C in the interior space
Heating	seven illuminating LEDs	approx 65 °C in the interior space
	an illuminating LED	approx 50 °C in the interior space

- If you want to select the temperature to **cool/heat**, press the button “Temp“ (see Illustration 2 F, Page 3), until the requested temperature range is reached.

6.5 Connect to the cigarette lighter



When you connect the cooling box to the cigarette lighter of your vehicle (see illustration 3, page 3), observe that you have to turn on the ignition, if necessary, so that the device is supplied with current.

7 Cleaning and servicing

**Caution!**

Disconnect the connecting cable from the socket or cigarette lighter before each cleaning of the cooling box.

**Caution!**

Never clean the cooling box under running water or even in rinsing water.

**Caution!**

Do not use any mordant detergents or hard objects since these can damage the cooling box.

- Clean the cooling box inside from time to time with a damp cloth.
- Clean the outside of the device with a damp cloth.

8 Disposal

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



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

9 Troubleshooting

Fault	Possible cause	Suggestion
Your box does not function and the fan impeller which is visible from outside does not rotate.	The cigarette lighter in your vehicle does not conduct any voltage.	In the most vehicles, the ignition switch must be switched on, so that the cigarette lighter has voltage.
The ignition is switched on and the box does not work. Disconnect the plug immediately from the socket and execute the following checks.	The socket of the cigarette lighter is dirty. This results in a poor electrical contact.	Clean the socket of the cigarette lighter with a non-metallic brush and a solvent, so that the middle contact pin is clean. If your cooling box plug becomes very warm in the cigarette lighter box, either the socket must be cleaned or the plug is possibly not correctly assembled.
	The fuse of the connecting cable is burnt through.	Replace the fuse of the connecting cable (5 A).
	The vehicle fuse is burnt through.	Replace the vehicle fuse of the cigarette lighter (usually 15 A). (Observe the operating instructions in your motorcar for this).
Your box does not cool satisfactorily and the fan impeller at the outside does not rotate.	The ventilator motor is defective.	The repair can be executed only by an authorized customer service.
Your box does not cool satisfactorily and the fan impeller at the outside does not rotate.	The ventilator motor for the inner ventilator is defective.	The repair can be executed only by an authorized customer service.
	The thermo-electric element is defective.	
	The integrated power unit is defective.	The repair can be executed only by an authorized customer service.

10 Technical data

	TC-14FL-AC	TC-21FL-AC	TC-35FL-AC
Storage volume:	14 l	20 l	33 l
Input voltage:	12/24 volts DC/220-240 volts AC		
Power input:	46 W (DC 12V) 50 W (DC 24V) 64 W (AC 220-240V)		
Temperature range:	Cooling: up to approx. 1 °C interior space-temperature (max. 25 °C under ambient temperature) Heating: up to approx. 65 °C interior space-temperature		
Weight:	5,5 kg	7 kg	10 kg
Inspection/ Certificate:	 		

The device is free of CFC.

Subject to changes due to technical progress and availability.

AUSTRALIA**Dometic Australia Pty. Ltd.**

1 John Duncan Court - Varsity Lakes QLD 4227

☎ 1800 212121 • ☎ +61 7 55076001

Mail: sales@dometic-waeco.com.au

www.dometic.com**AUSTRIA****Dometic Austria GmbH**

Neudorferstraße 108

A-2353 Guntramsdorf

☎ +43 2236 908070

☎ +43 2236 90807060

Mail: info@dometic.at

BENELUX**Dometic Branch Office Belgium**

Zincstraat 3

B-1500 Halle

☎ +32 2 3598040

☎ +32 2 3598050

Mail: info@dometic.be

BRAZIL**Dometic DO Brasil LTDA**

Avenida Paulista 1754, conj. 111

SP 01310-920 Sao Paulo

☎ +55 11 3251 3352

☎ +55 11 3251 3362

Mail: info@dometic.com.br

DENMARK**Dometic Denmark A/S**

Nordensvej 15, Taulov

DK-7000 Fredericia

☎ +45 75585966

☎ +45 75586307

Mail: info@dometic.dk

FINLAND

Dometic Finland OY

Mestarintie 4

FIN-01730 Vantaa

☎ +358 20 7413220

☎ +358 9 7593700

Mail: info@dometic.fi

FRANCE**Dometic SAS**

ZA du Pré de la Dame Jeanne

B.P. 5

F-60128 Plailly

☎ +33 3 44633525

☎ +33 3 44633518

Mail : vehiculesdeloisirs@dometic.fr

GERMANY**Dometic WAECO International GmbH**

Hollefeldstraße 63 · D-48282 Emsdetten

☎ +49 (0) 2572 879-195

☎ +49 (0) 2572 879-322

Mail: info@dometic-waeco.de

HONG KONG**Dometic Group Asia Pacific**

Suites 2207-11 · 22/F · Tower 1

The Gateway · 25 Canton Road,

Tsim Sha Tsui · Kowloon

☎ +852 2 4611386

☎ +852 2 4665553

Mail: info@waeco.com.hk

HUNGARY**Dometic Zrt. Sales Office**

Kerekgyártó u. 5.

H-1147 Budapest

☎ +36 1 468 4400

☎ +36 1 468 4401

Mail: budapest@dometic.hu

ITALY**Dometic Italy S.r.l.**

Via Virgilio, 3

I-47122 Forlì (FC)

☎ +39 0543 754901

☎ +39 0543 754983

Mail: vendite@dometic.it

JAPAN**Dometic KK**

Maekawa-Shibaura, Bldg. 2

2-13-9 Shibaura Minato-ku

Tokyo 108-0023

☎ +81 3 5445 3333

☎ +81 3 5445 3339

Mail: info@dometic.jp

MEXICO**Dometic Mx, S. de R. L. de C. V.**

Circuito Médicos No. 6 Local 1

Colonia Ciudad Satélite

CP 53100 Naucalpan de Juárez

Estado de México

☎ +52 55 5374 4108

☎ +52 55 5393 4683

Mail: info@dometic.com.mx

NETHERLANDS**Dometic Benelux B.V.**

Ecustraat 3

NL-4879 NP Eften-Leur

☎ +31 76 5029000

☎ +31 76 5029019

Mail: info@dometic.nl

NEW ZEALAND**Dometic New Zealand Ltd.**

P O Box 12011

1642 Penrose, Auckland

☎ +64 9 622 1490

☎ +64 9 622 1573

Mail: customerservices@dometic.co.nz

NORWAY**Dometic Norway AS**

Østerøyveien 46

N-3232 Sandefjord

☎ +47 33428450

☎ +47 33428459

Mail: firmapost@dometic.no

POLAND**Dometic Poland Sp. z o.o.**

Ul. Puławska 435A

PL-02-801 Warszawa

☎ +48 22 414 3200

☎ +48 22 414 3201

Mail: info@dometic.pl

PORTUGAL**Dometic Spain, S.L.**

Branch Office em Portugal

Rot. de São Gonçalo nº 1 – Esc. 12

2775-399 Carcavelos

☎ +351 219 244 173

☎ +351 219 243 206

Mail: info@dometic.pt

RUSSIA**Dometic RUS LLC**

Komsomolskaya square 6-1

RU-107140 Moscow

☎ +7 495 780 79 39

☎ +7 495 916 56 53

Mail: info@dometic.ru

SINGAPORE

Dometic Pte Ltd

18 Boon Lay Way 06-140 Trade Hub 21

Singapore 609966

☎ +65 6795 3177

☎ +65 6862 6620

Mail: dometic@dometic.com.sg

SLOVAKIA**Dometic Slovakia s.r.o. Sales Office Bratislava**

Nádražná 34/A

900 28 Ivánka pri Dunaji

☎ / ☎ +421 2 45 529 680

Mail: bratislava@dometic.com

SOUTH AFRICA**Dometic (Pty) Ltd.**

Regional Office

South Africa & Sub-Saharan Africa

2 Avalon Road

West Lake View Ext 11

Modderfontein 1645

Johannesburg

☎ +27 11 4504978

☎ +27 11 4504976

Mail: info@dometic.co.za

SPAIN**Dometic Spain S.L.**

Avda. Sierra del Guadarrama, 16

E-28691 Villanueva de la Cañada

Madrid

☎ +34 902 111 042

☎ +34 900 100 245

Mail: info@dometic.es

SWEDEN**Dometic Scandinavia AB**

Gustaf Melins gata 7

S-42131 Västra Frölunda

☎ +46 31 7341100

☎ +46 31 7341101

Mail: info@dometicgroup.se

SWITZERLAND**Dometic Switzerland AG**

Riedackerstrasse 7a

CH-8153 Rümliang

☎ +41 44 8187171

☎ +41 44 8187191

Mail: info@dometic.ch

UNITED ARAB EMIRATES**Dometic Middle East FZCO**

P.O. Box 17860

S-D 6, Jebel Ali Freezone

Dubai

☎ +971 4 883 3858

☎ +971 4 883 3868

Mail: info@dometic.ae

UNITED KINGDOM**Dometic UK Ltd.****Dometic House, The Brewery**

Blandford St. Mary

Dorset DT11 9LS

☎ +44 344 626 0133

☎ +44 344 626 0143

Mail: customerservices@dometic.co.uk

USA**Dometic RV Division**

1120 North Main Street

Elkhart, IN 46515

☎ +1 574-264-2131