



Mobile Refrigeration

Portable coolers

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The comfort series for cool enjoyment

High-tech coolers with DC/AC and special electronics

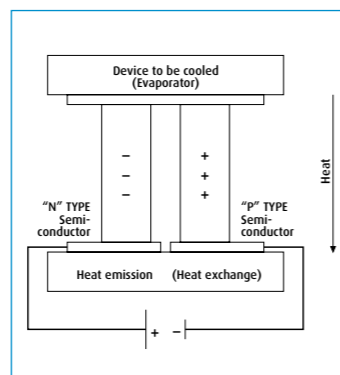
Mobility, performance and convenience – these are the hallmarks of the WAECO TropiCool series. State-of-the-art thermoelectrics made for outstanding cooling results up to 30°C below the ambient temperature. Add to this all the useful features and functions: 12/24/230 volts DC/AC as standard, and individual temperature regulation

with LED display and memory function, and much more. At the touch of a button the coolers (+1°C to +15°C) can be turned into warmer boxes (+50°C to +65°C). WAECO TropiCool – the comfort class of thermoelectric coolers.

Thermoelectrics

The thermoelectric principle was discovered in 1834 by J. C. A. Peltier. The temperature generating parts of thermoelectric systems are therefore referred to as Peltier elements. Thermoelectrics are based on the fact that cold or heat energy is generated when the connection between different types of metals is linked to a DC power source. The heating or cooling capacity is further enhanced by heat exchangers and air fans. It is well suited to small and medium-sized coolers.

- › **Trouble-free operation with 12/24 volts DC or 230 volts AC**
- › **Cooling performance up to 30°C below ambient temperature (depending on the size and design of the appliance)**
- › **Can be used for cooling and keeping food warm**
- › **Impeccable operation in inclined position**
- › **Low weight, convenient to transport**
- › **Wear-resistant and maintenance-free**
- › **Low investment cost**



WAECO TropiCool – powerful luxury



The intelligent power-save circuit

TropiCool coolers are great energy savers. As soon as the power is on, they **cool at full capacity** to reach the desired temperature. Once this has been achieved, they switch automatically to the **power-save mode**. In this mode, the Peltier element draws very little power. This gives rise to an insulation bridge that prevents heat from flowing

into the cooling compartment. **Example:** a conventional cooler operated in the 12-volt mode consumes between 4 and 4.5 Ah per hour to achieve an interior temperature of +5°C at an ambient temperature of +25°C, the WAECO TropiCool TC-21FL makes do with just 2.1 Ah per hour.

Perfect down to the last detail – product benefits of the TropiCool series

- › **Highly effective insulation**
Outstanding energy efficiency
- › **Dynamic interior ventilation**
Significantly improves cooling performance
- › **Wear-free fans**
Long service life
- › **Intelligent power-save circuit**
Electronics switch automatically to power-save mode once the desired interior temperature has been reached (for TC-14FL, TC-21FL and TC-35FL, p. 14 – 15).
- › **12/24/230 volts as standard**
With priority circuit for 230 volts
- › **Heat exchanger and high-performance Peltier element**
Cooling performance up to 30°C below ambient temperature!*
- › **Magnetic switch**
Switches the interior fan off when you open the cooler
- › **Universal fixing kit**
for TC-14FL, TC-21FL and TC-35FL (p. 14)



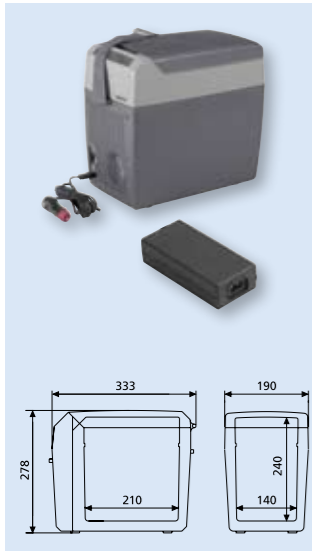
TC special electronics with soft-touch operating panel

WAECO TropiCool coolers* provide refrigeration up to 30°C below the ambient temperature and heating up to +65°C. Using the soft-touch operating panel, you can set the desired temperature in seven stages each: from +1°C to +15°C in the cooling mode, or from +50°C to +65°C in the heating mode. The memory function saves the last set parameters.

- › Cooling up to 30°C below ambient temperature
 - › Heating up to +65°C
 - › 7-stage temperature regulation for cooling and heating
 - › LED temperature display
 - › Memory function saves the last settings
 - › Membrane keypad protects the electronics from dust and moisture
- * All models except TC-07

WAECO TropiCool TC-07
Thermoelectric cooler

4.01



Gross capacity	approx. 7 litres
Voltage	12 / 230 volts DC/AC
Power consumption	approx. 36 watts at 12 volts DC approx. 40 watts at 230 volts AC
Temperature range	Cooling: approx. +5°C (up to 25°C below ambient temperature); Heating: approx. +65°C
Insulation	Polyurethane full-foam insulation
System	Wear-free thermoelectrics (Peltier system), cold / heat transmission to the interior through coated aluminium container, heat dissipation to the outside by brushless, wear-free fan
Colour	Dark grey / pale grey
Weight	approx. 2.8 kg
Quality features	Temperature regulation for cooling and heating with fixed point thermostats, ready for connection to 230 volts
Scope of delivery	Shoulder strap, 12-volt connection cable and 230-volt mains adapter included
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

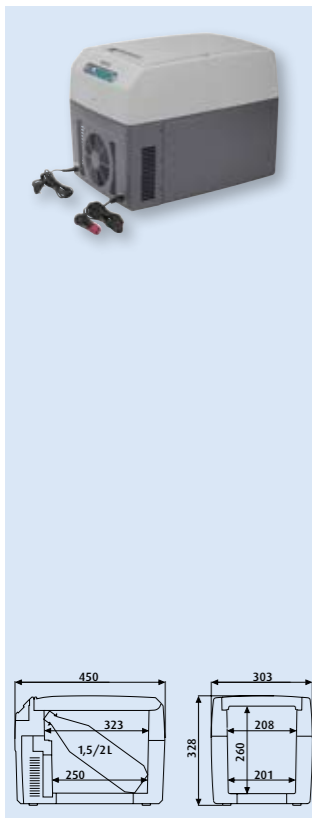
Product	Ref. No.
TropiCool TC-07	TC-07UG-12/230



WAECO TropiCool TC-14FL

Thermoelectric cooler with TC special electronics

4.01



Gross capacity	approx. 14 litres
Voltage	12 / 24 volts DC and 230 volts AC
Power consumption	approx. 55 watts at 12 volts DC approx. 60 watts at 24 volts DC approx. 80 watts at 230 volts AC
Average running time	30% at +20°C ambient temperature,
Temperature range	Cooling: +1°C to +15°C (up to 30°C below the ambient temperature); heating: +50°C to +65°C
Insulation	Polyurethane full-foam insulation
System	Wear-free thermoelectrics (Peltier system), cold transmission to the interior by dynamically-ventilated aluminium heat exchanger, heat dissipation to the outside by high-performance heat exchanger and brushless, wear-free fan
Material	Sturdy, injection moulded parts
Colour	dark grey / pale grey
Weight	approx. 5.0 kg
Quality features	TC special electronics: 7-stage electronic thermostat with LED indicators, memory function, ON/OFF and cold/warm option activated with soft-touch operating panel, intelligent power-save circuit. Integrated mains supply unit with priority circuit, outstanding cooling performance, magnetic switch to deactivate the interior fan when the box is opened, detachable lid with magnetic closure, sturdy, fold-away handle
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Product	Ref. No.
TropiCool TC-14FL	TC-14FL-AC
Optional extra Universal fixing kit	UFK-T

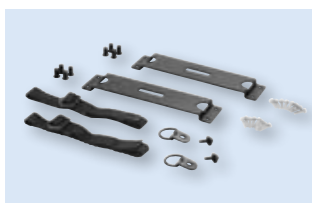


TC special electronics

Universal fixing kit

For TropiCool TC-14FL, TC-21FL, TC-35FL: fastening of TropiCool coolers in vehicles.

4.01



Material	Powder-coated metal
Colour	Black
Scope of delivery	Two base plates, two adjustable straps, set of screws

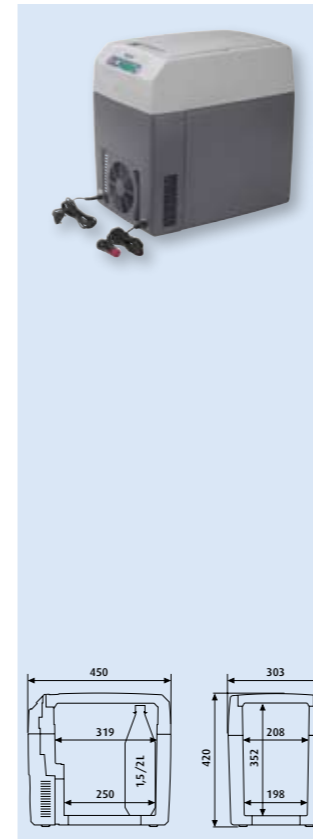
Product	Ref. No.
Universal fixing kit	UFK-T



WAECO TropiCool TC-21FL

Thermoelectric cooler with TC special electronics

4.01



Gross capacity	approx. 21 litres
Voltage	12 / 24 volts DC and 230 volts AC
Power consumption	approx. 55 watts at 12 volts DC approx. 60 watts at 24 volts DC approx. 80 watts at 230 volts AC
Average running time	32% at +20°C ambient temperature,
Temperature range	Cooling: +1°C to +15°C (up to 30°C below the ambient temperature); heating: +50°C to +65°C
Insulation	Polyurethane full-foam insulation
System	see TC-14FL
Material	Sturdy, injection moulded parts
Colour	Dark grey / pale grey
Weight	approx. 6.0 kg
Quality features	TC special electronics: 7-stage electronic thermostat with LED indicators, memory function, ON / OFF and cold / warm option activated with soft-touch operating panel, intelligent power-save circuit. Integrated mains supply unit with priority circuit, outstanding cooling performance, magnetic switch to deactivate the interior fan when the box is opened, detachable lid with magnetic closure, sturdy, fold-away handle, vertical space for 2-litre bottles, adjustable grid divider
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Product	Ref. No.
TropiCool TC-21FL	TC-21FL-AC
Optional extra Universal fixing kit	UFK-T

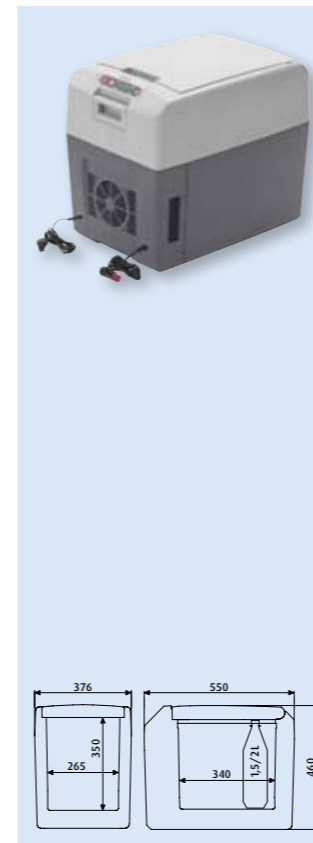


TC special electronics

WAECO TropiCool TC-35FL

Thermoelectric cooler with TC special electronics

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Gross capacity	approx. 35 litres
Voltage	12/24 volts DC and 230 volts AC
Power consumption	approx. 55 watts at 12 volts DC approx. 60 watts at 24 volts DC approx. 80 watts at 230 volts AC
Average running time	35% at +20°C ambient temperature,
Temperature range	Cooling: +1°C to +15°C (up to 30°C below the ambient temperature); heating: +50°C to +65°C
Insulation	Polyurethane full-foam insulation
System	see TC-14FL
Material	Sturdy, injection moulded parts
Colour	Dark grey / pale grey
Weight	approx. 10.0 kg
Quality features	TC special electronics: 7-stage electronic thermostat with LED indicators, memory function, ON/OFF and cold / warm option activated with soft-touch operating panel, intelligent power-save circuit. Integrated mains supply unit with priority circuit, outstanding cooling performance, magnetic switch to deactivate the interior fan when the box is opened, detachable lid with snap lock closure, handy carrying grips, vertical space for 2-litre bottles, adjustable grid divider
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Product	Ref. No.
TropiCool TC-35FL	TC-35FL-AC
Optional extra Universal fixing kit	UFK-T



Jumbo cooler for campers, travellers and truckers

TC special electronics