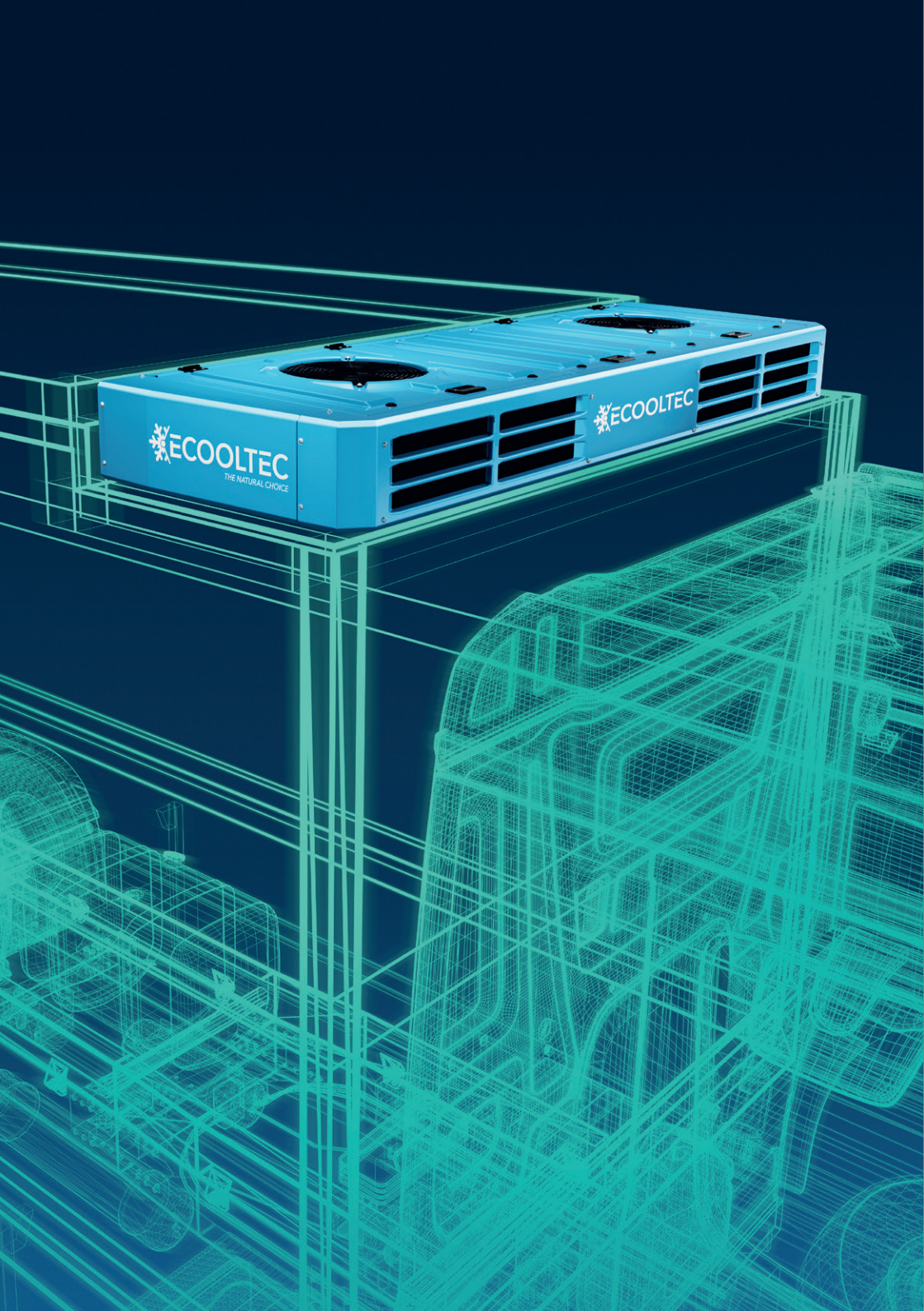




OPERATING INSTRUCTIONS **TM182**

SERVICE HOTLINE: +49 201 874694-40



The contents of this operating manual are protected by copyright and are to be regarded as confidential. Passing on this manual to unauthorised third parties or copying it, even in extracts, is expressly prohibited. Infringements will result in compensation for damages.

The information contained in this edition corresponds to the current status at the time of printing.

As ECOOLTEC products are subject to a continuous improvement process, changes to technical data, design, operation or equipment are possible at any time without special notification in the course of further development.

All rights reserved.
German original edition
September 2026

© ECOOLTEC Grosskopf GmbH

ECOOLTEC Grosskopf GmbH
Zinkhüttenstraße 17
45473 Mülheim a.d. Ruhr
Germany

TABLE OF CONTENTS

1. Introduction	4
About the instructions	4
Warranty and liability	5
Information on the safety instructions	5
General hazard warnings	6
Symbols used	7
2. Intended use	10
Switching off in an emergency	11
3. Assembly	12
Lifting	12
Installation position of the refrigeration system / evaporator	13
Installing the refrigeration system	14
Important for efficient use	15
4. Information on transport with ECOOLTEC refrigeration systems	16
Before starting the journey	16
Correct loading	16
During the delivery	18
After delivery	18
5. Inspection and maintenance instructions	19
Inspection before travelling	20
Tests and function checks for four-pole residual current circuit-breakers	20
Function check current circuit-breaker	21
Checking and cleaning the refrigeration system	22
Recommended cleaning frequencies and criteria for the interior	22

6. Identification of ECOOLTEC products	23
TM182	23
Evaporator E1221	23
Evaporator E1312	23
Information on the type plate	24
7. Authorisations	27
8. Handling operating materials and the refrigeration circuit	28
Refrigerant	28
Machine oil	29
Refrigerant circuit	30
9. Transport and packaging	31
10. Operating the ECOOLTEC refrigeration system using the 5-button remote control	32
Switch on the refrigeration system	34
Switch off the refrigeration system	34
Switching individual chambers on or off	34
Preselecting temperatures	35
Changing the compressor speed	36
Defrosting	37
Heating	38
Additional information in the status display at the top	38
11. Company details	40

1. Introduction

All ECOOLTEC products are quality products. They are built according to the latest state of the art and comply with the relevant directives that apply in the markets concerned.

The term refrigeration system refers to the entire system including all additional components.

The refrigeration system is a machine requiring monitoring within the meaning of the Equipment Safety Act. This results in special requirements for operating and maintenance personnel.

These operating instructions and the completed customer service checkbook are part of the product. Read these documents carefully before commissioning the refrigeration system and always keep them at the system's place of use.

About the instructions

Observe the safety instructions and comply with them at all times. These operating instructions are intended to inform the operator about the basic operation of the refrigeration system.

Proper, safe and economical operation of the ECOOLTEC machine, including all components, requires professional and regular maintenance and repair. Maintenance and repair work may only be carried out by ECOOLTEC and its service partners.

Ensure that only original ECOOLTEC spare parts are used for all work. Detailed information on maintenance, e.g. maintenance intervals and scope of maintenance, can be found in the ECOOLTEC customer service checkbook. The maintenance personnel must have read and understood these operating and maintenance instructions before starting work.

Failure to observe the warnings may result in serious physical injury and damage to property, for which ECOOLTEC Grosskopf GmbH and its subsidiaries accepts no liability.

Warranty and liability

All information and instructions in this manual have been compiled taking into account the applicable standards and regulations, the latest state of the art and our knowledge and experience.

ECOOLTEC Grosskopf GmbH and subsidiaries accept no liability for damage resulting from:

- Non-compliance with the instructions
- Improper use
- Use by untrained personnel
- Unauthorised modifications
- Technical modifications
- Use of unauthorised spare parts

Warranty claims are only valid if the operator of the ECOOLTEC machine can provide the relevant proof that maintenance has been carried out properly by our service partners in accordance with the maintenance schedule during the warranty period. Failure to comply with the maintenance intervals and improperly performed maintenance work will invalidate the warranty claim.

The actual scope of delivery may deviate from the explanations and illustrations described here in the case of special versions, the utilisation of additional order options or due to the latest technical changes. In all other respects the obligations agreed in the delivery contract, the General Terms and Conditions of Business and the manufacturer's terms of delivery and the statutory regulations valid at the time the contract is concluded shall apply.

Information on the safety instructions

These safety instructions provide important information on handling the ECOOLTEC refrigeration system. The prerequisite for safe working is compliance with all the specified safety instructions and handling instructions.

In addition, the local accident prevention regulations and general safety regulations applicable to the area of use of the appliance must be observed.

Read the operating instructions carefully before starting any work!

They are an integral part of the product and must be kept in the immediate vicinity of the system and accessible to personnel at all times.

The operating instructions must be available for the entire service life of the product.

If the appliance is passed on to third parties, the operating instructions must also be included.

The illustrations in these instructions are not necessarily to scale and may differ slightly from the actual design of the appliance.

General hazard warnings

Warnings in these operating instructions are identified by symbols. The notes are introduced by signal words that express the extent of the hazard. It is essential to follow the instructions and act with caution to avoid accidents, personal injury or damage to property.



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Symbols used



Warning signs

Warning of danger of falling



Warning sign

Warning of low temperature



Warning sign

Warning of electrical voltage



Warning sign

Warning of suspended load



Warning sign

Warning of automatic sequence



Warning sign

Warning of corrosive substances



Warning sign

Warning of flammable substances



Warning sign

Warning of hot surface



Warning sign

Warning of explosive atmosphere



Warning sign

Warning of pressurised gases



Mandatory sign
Important note!



Mandatory sign
Use eye protection



Mandatory sign
Wear foot protection



Mandatory sign
Use hand protection



Mandatory sign
Use head protection



Mandatory sign
Use safety harness



Mandatory sign
Wash hands



Rescue sign
First aid



Prohibition sign
No smoking



Prohibition sign
No open flame or ignition source, no fire



Prohibition sign
Do not enter the area



Hazard warning
Danger due to flammable gases



Hazard warning
Hazard to aquatic organisms and other ecosystems

2. Intended use

ECOOOLTEC refrigeration units are designed to maintain the temperature of goods during transport in insulated vehicle bodies. The machines are fused electrically via the mains (connection 400 Volt/50 Hz, 32 A). It is also possible to operate the system with an energy source approved by ECOOLTEC Grosskopf GmbH, such as an alternator or battery pack.



The specially developed ECOOLTEC generator is authorised exclusively for the operation of an ECOOLTEC refrigeration system. Any other use is considered improper.

To ensure safe operation, the ECOOLTEC refrigeration system may only be used in accordance with the instructions in this operating manual. During use, the legal and safety regulations required for the respective application must also be observed. This also applies to the use of accessories.



WARNING

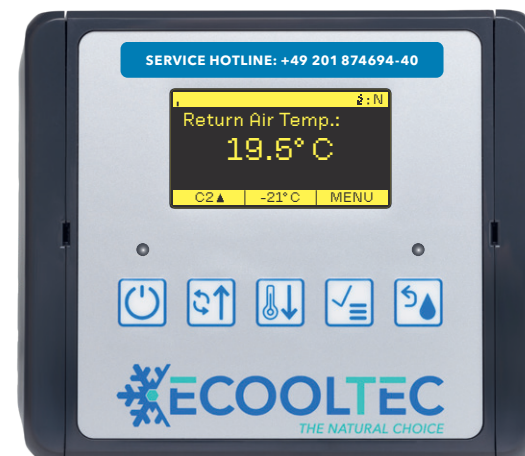
Safety devices of any kind must never be taken out of operation.

The performance specifications and operating limits on the rating plate of the ECOOLTEC refrigeration system must always be observed.

Operating limits of the ECOOLTEC refrigeration system:

- Maximum temperature in the body up to 41 °C with refrigerants R744 and R1270
- Control range for cooling and heating in the refrigeration system from -35 °C to +15 °C

Switching off in an emergency



1. Long press: Switch cooling system on/off
2. Switch off the vehicle engine
 - 2.1 Disconnect the mains plug

This de-energises the ECOOLTEC refrigeration system.

3. Installation



Installation and commissioning of ECOOLTEC machines may only be carried out by service personnel authorised by ECOOLTEC Grosskopf GmbH.

Installation must be carried out in accordance with the installation drawings, installation instructions, circuit diagrams and safety regulations. Only then will a warranty claim be honoured.

Lifting



WARNING

Risk of injury if incorrect lifting gear is used!
Danger due to suspended load!



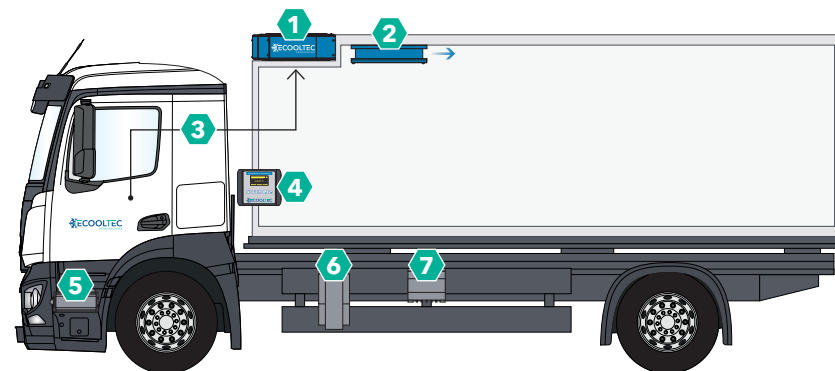
Use a sling chain with 4 load hooks to lift the refrigeration system up or down. All 4 hooks must be attached to the eyelets provided (see illustration).

The sling chain must have a load capacity of at least 300 kg at an angle of $< 45^\circ$ and a length of at least 500 mm. Pay attention to the expiry date of the chain and a suitable hook size.

The machine must be in a horizontal position at all times when lifting.

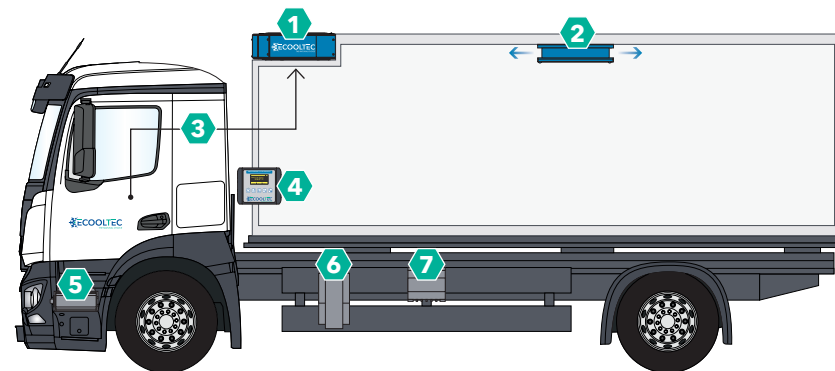
Installation position of the refrigeration system / evaporator

Single discharge evaporator variant



- | | |
|--------------------------------------|---|
| 1 Refrigeration system with inverter | 5 Alternator |
| 2 Single discharge evaporator | 6 Alternator cooling module |
| 3 24V supply from the truck | 7 Switch cabinet incl. mains connection |
| 4 Remote control | |

Dual discharge evaporator variant



- | | |
|--------------------------------------|---|
| 1 Refrigeration system with inverter | 5 Alternator |
| 2 Dual discharge evaporator | 6 Alternator cooling module |
| 3 24V supply from the truck | 7 Switch cabinet incl. mains connection |
| 4 Remote control | |

Installation of the refrigeration system

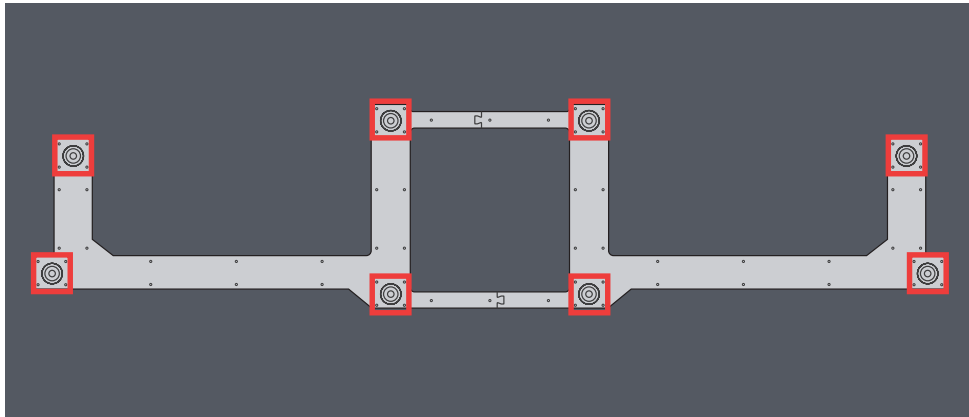


WARNING

Risk of injury when working at height! Danger due to incorrect installation!

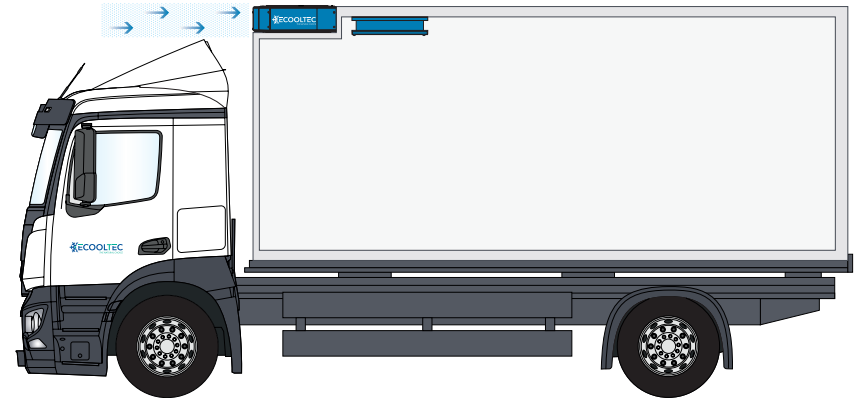
- Always observe the protective equipment and warnings provided for this chapter.
- Only use the installation material supplied by ECOOLTEC Grosskopf GmbH.

The refrigeration system is centred by placing it on the mounting plate and bolted in the following positions (see illustration).



The refrigeration system must be bolted using the M8 hexagon bolts with flange and locking ribs supplied by ECOOLTEC Grosskopf GmbH.

Important for efficient use



The spoiler of the vehicle must be adjusted so that it does NOT obstruct the free air supply to the system while driving.

4. Information on transport with ECOOLTEC refrigeration systems

Before starting the journey



DANGER

Electrical voltage can cause internal and external burns and death if handled incorrectly. An ECOOLTEC refrigeration system is operated in mains operation with 400 volts.



Ensure that the condenser is free of dirt. The intake opening of the evaporator in the refrigeration unit must not be blocked. Ensure that there is no danger from packaging material.



To ensure optimum efficiency of the refrigeration system, it is important that the body insulation is checked for damage and leaks before travelling.

Correct loading

To maintain the temperature during delivery, it is essential that the refrigerated body is pre-cooled and that the goods groups with different temperatures are transported separately from each other.

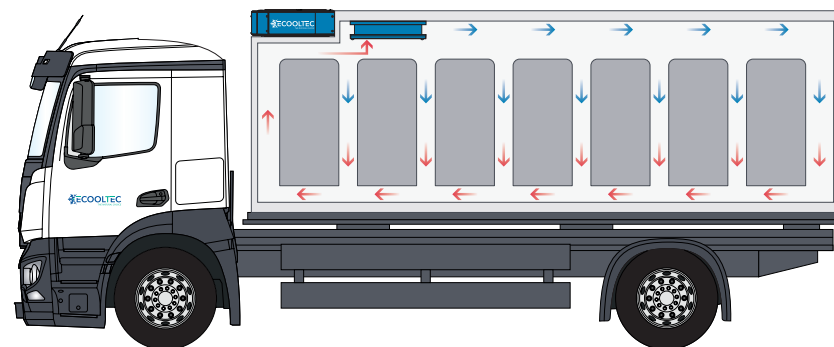


The refrigeration system must be switched off during loading. The pre-picked goods must be loaded in the unloading sequence.

Ensure that the goods comply with the specified temperatures immediately before loading. The required temperature must be set using the remote control. See the chapter (Operating the ECOOLTEC refrigeration system).



Air must be able to flow around the goods in the refrigerated body. Proper use of pallets or roll cages ensures that the air is returned to the evaporator. Pallets and roll cages must not be wrapped in film up to the base. Ensure that no loose packaging material can fly around.



Ensure that there is sufficient space between the goods and the bulkhead, roof and floor. Observe the maximum loading height.



In the refrigerated body, the air is responsible for the required heat transfer. Optimised air flow is required to ensure a constant temperature and therefore the quality of the goods.



CAUTION

Observe the guidelines for securing loads. Telescopic rods for securing the load must not be supported under the flat evaporator.

During the delivery

Check the temperature in the body at regular intervals during the journey. You can read the temperature on the operating display.

An increased number of door openings increases the incidence of warm air. If possible, deliver the goods in the order in which the vehicle was previously loaded.



The cold curtain must be closed when picking goods and when leaving the body. A cold curtain minimises energy loss. Avoid opening doors unnecessarily.



Opening the doors and the nature of the goods will affect the moisture content in the refrigerated body. If you notice ice forming on evaporators, initiate defrosting.

After the delivery



Clean the body and remove loose packaging material. Fully heat the superstructure at least once a week.

5. Inspection and maintenance instructions



To ensure the operational safety and economical operation of the ECOOLTEC system, you should carry out daily inspections and follow the maintenance instructions below.



When carrying out any work, the operational and general regulations on occupational safety as well as the safety guidelines in the operating instructions must be observed.



WARNING

Electrical voltage, rotating parts, hot and cold surfaces, risk of falling.



CAUTION

Ensure the use of fall protection when working at height.



CAUTION

The components and surfaces of the refrigeration system can be hot (over 80 °C) or cold (below 0 °C). Before starting work, wait until the temperatures have equalised with the surroundings.



DANGER

Before starting any work on the ECOOLTEC system, make sure that no voltage is present.

To do this:

- Switch off the ECOOLTEC system
- Switch off the vehicle engine
- Disconnect the mains cable from the mains
- Disconnect the vehicle engine and, if present, the energy source such as the fuel cell or battery from the system



WARNING

There are rotating and moving parts inside the system. Keep yourself and other objects away from rotating parts. Wait until the system has come to a complete standstill before carrying out any work.



WARNING

Propene (R1270) is used in the refrigeration system mounted outside of the refrigerated body. It can form an explosive atmosphere in the event of leaks. Propene is heavier than air and settles at the bottom of the system. Before starting work, check that all drain holes in the base of the unit are clear so that the propene can escape in the event of a leak.

Check before starting

Check

- whether the mains cable is unplugged,
- whether leaks are visible on the system,
- whether screw connections are loose,
- whether electrical connections on plugs or sockets are loose or have changed colour.

Tests and function checks for four-pole residual current circuit-breakers

After switching on the mains voltage and the circuit breaker, carry out a simple function test using the test button T. Pressing it must switch off the residual current device, with the toggle in the centre position. Switching back on to position "1" is only possible if the toggle is moved to position "0" first. The operating indicator below the toggle shows the status of the contacts:

red = closed

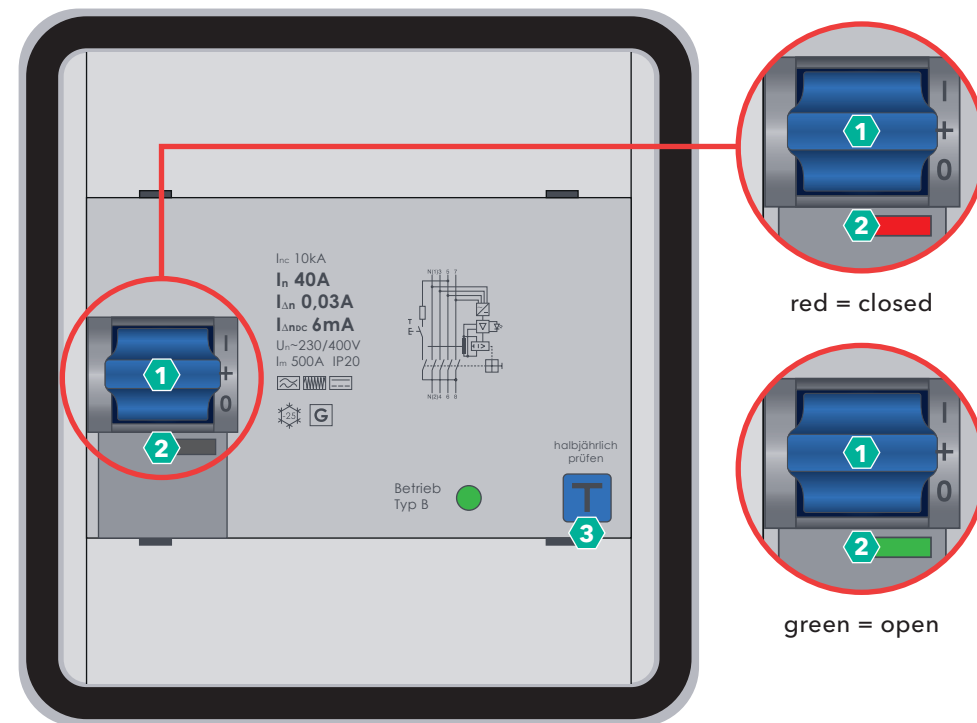
green = open

This test should be repeated every working day.



If the device is not triggered, it must be replaced immediately.

Function check current circuit-breaker



- 1** Toggle
- 2** red = closed
green = open
- 3** Test button

Checking and cleaning the refrigeration system

- The condenser in the ECOOLTEC refrigeration system (outside the cargo hold) and the evaporator (in the insulated body) must be cleaned with a high-pressure cleaner at intervals of 4 weeks when the ECOOLTEC refrigeration system is switched off.
- The cleaning jet must not be too strong and must hit vertically so that the fins are not bent or damaged. A temperature of +60 °C must not be exceeded.
- The cleaning agent must be suitable for metals such as aluminium and copper.
- Plug connections and switch boxes must not be cleaned with a high-pressure cleaner. Unused sockets must be sealed watertight.

Recommended cleaning frequencies and criteria for the interior

Frequency of use

Low risk (only packaged, dry food, short cycles):

- Visual inspection: after each use
- Wipe down surfaces: every 1-2 weeks
- Vacuum/blow out evaporator fins: monthly
- Check/clean condensate drain: monthly

Medium risk (mixed goods, frequent trips, occasional moisture):

- Wipe cleaning: weekly
- Evaporator cleaning including fins: every 4-6 weeks
- Disinfection: monthly or after critical loads
- Condensate drains: every 4 weeks

High risk (fresh meat, fish, unpackaged/moist products, long standing times):

- Wipe cleaning: after every trip
- Evaporator cleaning + disinfection: at least monthly, more frequently if necessary
- Condensate drains: check after every trip, clean weekly
- Odour/biofilm indicators: immediate special cleaning

6. Identification of ECOOLTEC products

The following products are available depending on the conditions and applications:

TM182



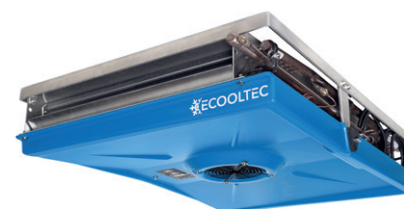
Installation in a niche created by the body builder.

Evaporator E1221



The evaporator is mounted in a case on the ceiling and has one discharge direction. The width corresponds to half a chamber in the direction of travel.

Evaporator E1312



The evaporator is mounted in a case on the ceiling and has two discharge directions. The width corresponds to one third of the chamber in the direction of travel.

Information on the type plate



ECOOLTEC Grosskopf GmbH
Zinkhüttenstraße 17
D-45473 Mülheim a.d. Ruhr

1 Type:	TM182	Circulation	Refrigerant	Mass	MOP
2 Serial number:	000000000	COMP 1	R1270	0,65 kg	31 bar 8
3 Year of manufacture:	2025	COMP 2	R1270	0,65 kg	31 bar 9
4 Current consumption:	32 A	 Serial no.			
5 Voltage:	400 V / 50 Hz				
6 Control voltage:	24 V				
7 System weight:	190 kg				

Next test dateE1*10R06/02*10168

- 1 ECOOLTEC type designation
- 2 ECOOLTEC serial number
- 3 Year of manufacture
- 4 Current consumption
- 5 Rated voltage and frequency
- 6 Control voltage
- 7 System weight
- 8 Circuit 1 with refrigerant, charge and pressure
- 9 Circuit 2 with refrigerant, charge and pressure

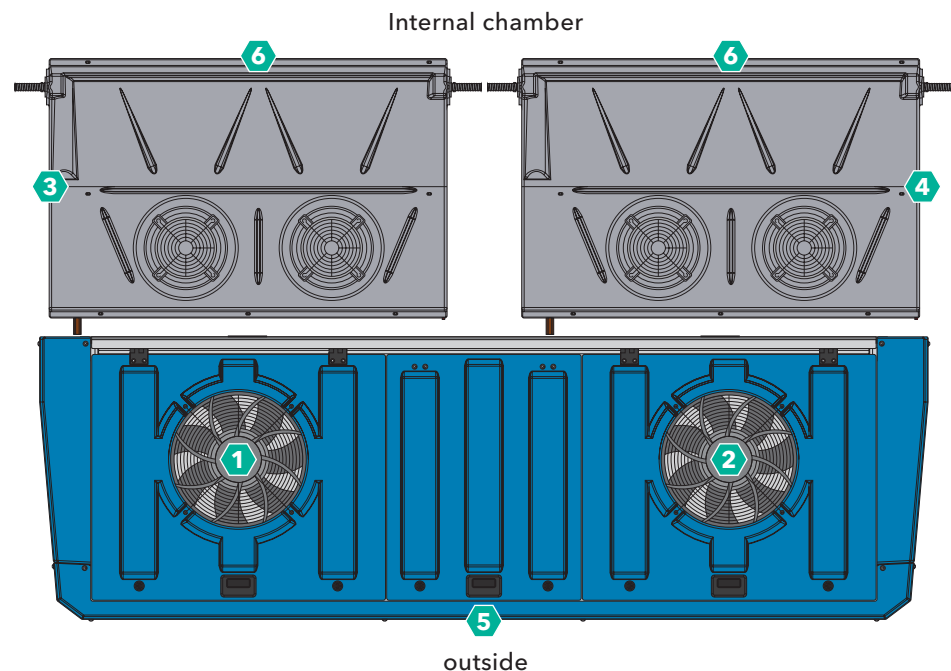


Circuit	Refrigerant	Mass	MOP
1 EVAP 1	R744		100 bar
2 EVAP 2	R744		100 bar

ECOOLTEC Grosskopf GmbH Zinkhüttenstraße 17
D-45473 Mülheim a.d. Ruhr

- 1 Circuit 1 with refrigerant, charge and pressure
- 2 Circuit 2 with refrigerant, charge and pressure

Information on the type plate



- 1 Outdoor area chamber 1 (circuit COMP 1)
- 2 Outdoor area chamber 2 (circuit COMP 2)
- 3 Evaporator 1 (circuit EVAP 1)
- 4 Evaporator 2 (circuit EVAP 2)
- 5 Outdoor chamber compressor
- 6 Indoor chamber evaporator

The refrigerant and filling quantity can be found in the table.

Always ensure the correct quantity and the correct circuit.

Further technical data and installation dimensions can be found in the system-specific data sheets.

7. Authorisations



For repair and maintenance work, please always contact a service partner authorised by ECOOLTEC Grosskopf GmbH or contact ECOOLTEC Grosskopf GmbH directly.



DANGER

Refrigerants are harmful to health, flammable and explosive. There are pressurised gases in the refrigerant circuit.



The refrigerant circuit may only be opened for maintenance or repair work by qualified personnel (in accordance with DIN EN 13313) authorised by ECOOLTEC Grosskopf GmbH. This also applies to refilling refrigerant. The relevant health and safety regulations must be observed.



DANGER

Electrical voltage can cause internal and external burns and death if handled incorrectly. Parts of an ECOOLTEC refrigeration system are operated with 400-850V DC and/or 400-480V AC.



Work on electrical components of the ECOOLTEC refrigeration system and all auxiliary units such as the alternator, fuel cell or battery pack may only be carried out by persons with the appropriate expertise (qualified electrician for specified tasks) or a qualified electrician. The relevant health and safety regulations must be observed.

8. Handling operating fluids and the refrigeration circuit



Always wear suitable personal protective equipment when handling refrigerants and machine oils.



Avoid prolonged contact with the skin and wash your hands thoroughly with soap and water after handling refrigerant oil.

In addition to the operating instructions, the information in the relevant safety data sheets must be observed for refrigerants and refrigeration machine oils. These can be found on the Internet on the websites of the respective manufacturers or suppliers.

Refrigerant



Ensure that only the refrigerant specified on the type plate of the ECOOLTEC refrigeration system is used.



ECOOLTEC refrigeration systems are operated with the refrigerants R1270 (propene) and R744 (CO₂). R1270 (propene) is flammable.



DANGER

Refrigerant that accumulates in closed rooms can affect human breathing and cause suffocation. Inhalation of highly concentrated vapours is harmful to health and can lead to cardiac arrhythmia, unconsciousness or even death. Always ensure adequate ventilation when working on the refrigerant circuit or handling refrigerants.



WARNING

Refrigerants have the property of evaporating very quickly under ambient pressure. Everything that comes into contact with the evaporating refrigerant is cooled considerably. This can lead to frostbite and serious eye injuries.



FIRST AID MEASURES

Inhalation:

Remove affected persons from the danger area to fresh air. In case of nausea, consult a doctor immediately.

Skin contact:

Treat frostbite like burns, rinse thoroughly with water, **do not** remove clothing (possible risk of adhesion to skin). In case of skin burns, call a doctor immediately.

Eye contact:

Rinse immediately with plenty of water with the eyelids wide open. Consult an ophthalmologist immediately.

Machine oil



WARNING

Refrigeration oils are substances hazardous to water. Oil is hazardous waste and must be disposed of properly.



FIRST AID MEASURES

General information:

Change oil-soaked or contaminated clothing and shoes. Never put oil-soaked cloths into clothing pockets.

Skin contact:

Wash with plenty of soap and water.

Ingestion:

Rinse out mouth. If symptoms persist, consult a doctor.

Refrigerant circuit

ECOOLTEC Grosskopf GmbH refrigeration systems work exclusively with natural refrigerants. Two separate refrigerant circuits are used, both of which are technically hermetically sealed and operated in above atmospheric pressure.

The outdoor part of the system uses R1270, which belongs to the group of hydrocarbons and has a very high energy efficiency as a refrigerant. R744, i.e. CO₂, is used in the part of the system located within the refrigerated body. This means that there is an extremely low risk of the flammable refrigerant R1270 forming a flammable mixture with air in the refrigerated body, which could lead to a deflagration if a suitable ignition source is also present.

To ensure the technical tightness of the refrigeration system at all times, the service intervals must be adhered to. If you suspect a leak in the refrigerant circuit, which is also indicated via the control unit of the refrigeration system, please contact an ECOOLTEC service partner or contact the manufacturer directly.

9. Transport and packaging



On delivery, look out for damage to the packaging. Any recognisable damage must be noted on the delivery documents and reported immediately to ECOOLTEC Grosskopf GmbH.

The components of the ECOOLTEC refrigeration system must be stored in a dry environment and in their original packaging. To prevent transport damage, components must not be stacked and are labelled with stacking protection caps.

During transport, observe the centre of gravity marking and all other information labels on the packaging. The packaging material must be disposed of properly.



Arrows indicate the top of the packaging. The goods are fragile. The delivery must be stored in a dry place.

Stacking protection, do not stack packaging

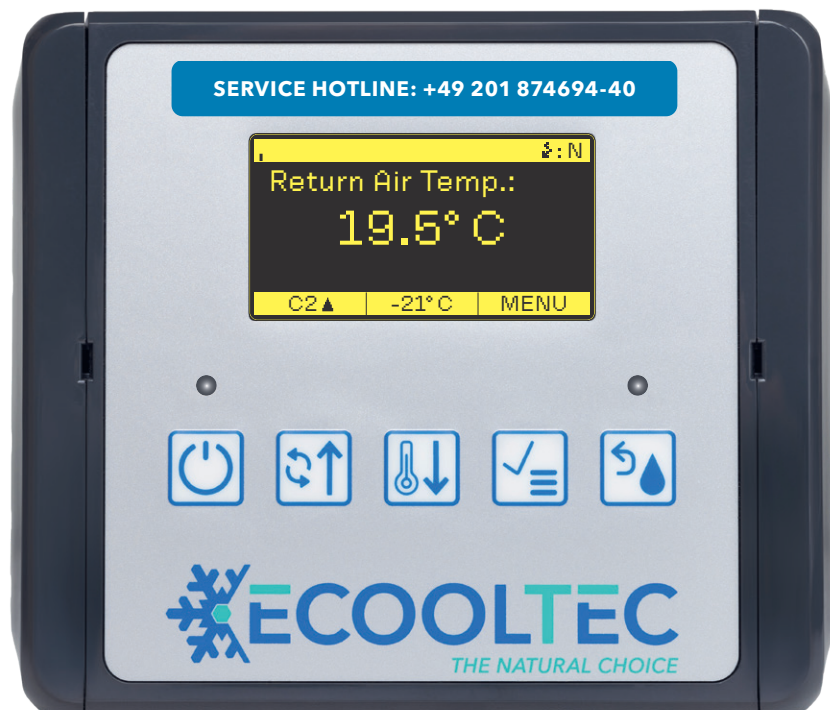
Do not stack or place anything on packaging with this symbol.



10. Operating the ECOOLTEC refrigeration system using the 5-button remote control

The 5-button remote control is a CAN bus-based control point for the refrigeration system.

The remote control has the following functions:



- Switching the refrigeration system on and off
- Switching the individual chambers on and off
- Setpoint temperature preselection for the individual chambers
- Speed of the refrigeration machine (slow, normal and fast)
- Manual start of the defrosting process
- Display of the status of the refrigeration system
- Display of the status of the individual chambers

Functional description:



- Long button press: Switch refrigeration system on/off
- LED flashes in generator mode and mains operation at switch-on moment (approx. 10 s)
- LED lights up when the refrigeration system is switched on



- Short button press: Change displayed chamber [C1 / C2]
- Long button press: Displayed chamber On / Off



- Short press of the button: Temperature setting of the individual chambers



- Short button press: Diagnostic values, error messages, all temperatures
- Long button press: Speed setting
- Confirmation of menu item entry



- Short button press: Back to the main menu
- Long button press: Defrosting is initiated manually
- LED above button lights up (orange) when defrosting is activated

Switch on the refrigeration system



The refrigeration system is switched on by pressing and holding the button. While the system is starting up, the LED display above the button flashes green for a few seconds before it then lights up green continuously.

Switching off the refrigeration system



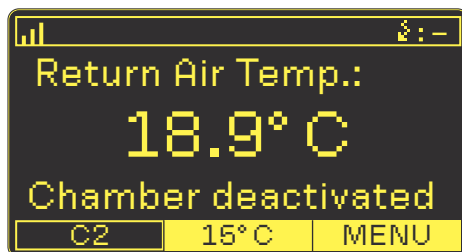
To switch off the cooling system, press and hold the button. While the system is shutting down, the green LED display above the button flashes for a few seconds before finally going out. The refrigeration machine is now switched off.

Switching on individual chambers or deactivating

Depending on the type of refrigeration system and the number of chambers in the application, the individual chambers can be switched on and off individually.



Pre-select the desired chamber by briefly pressing the corresponding button.



Then switch the chamber on or off by pressing and holding the button.

The status indicator on the display shows the current switching status of the chamber.

C1

Lights up = chamber is switched on (example)

C2

Dark background = chamber is deactivated

Preselect temperatures

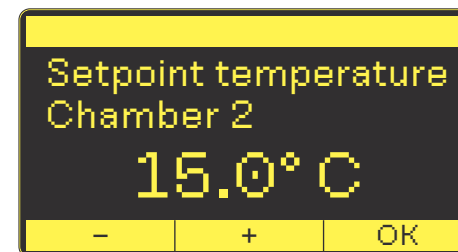
Preselect the desired setpoint temperatures for the chambers.

Select the chamber in which the temperature setpoint is to be changed.



To do this, select the desired chamber by briefly pressing the button.

The following display appears.

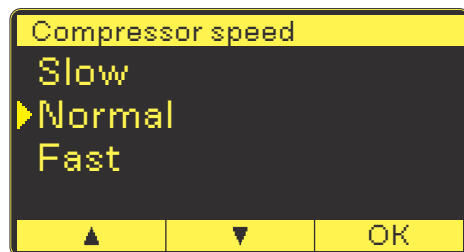


The setpoint temperature for the selected chamber can now be changed by pressing the buttons below the display. The display shows the functions of the lower buttons. Pressing the plus button, for example, increases the setpoint temperature. A long press adjusts the temperature in steps of 0.5 °C. As soon as the desired setpoint temperature has been set, please confirm this by pressing the OK button.

Change compressor speed



Press and hold the button to access the speed preselection menu.



Use the buttons to set the desired speed and confirm with OK. The speed range in which the refrigeration system is operating can then be recognised by small lines in the top left-hand edge.



Slow (1 bar)

Normal (2 dashes)

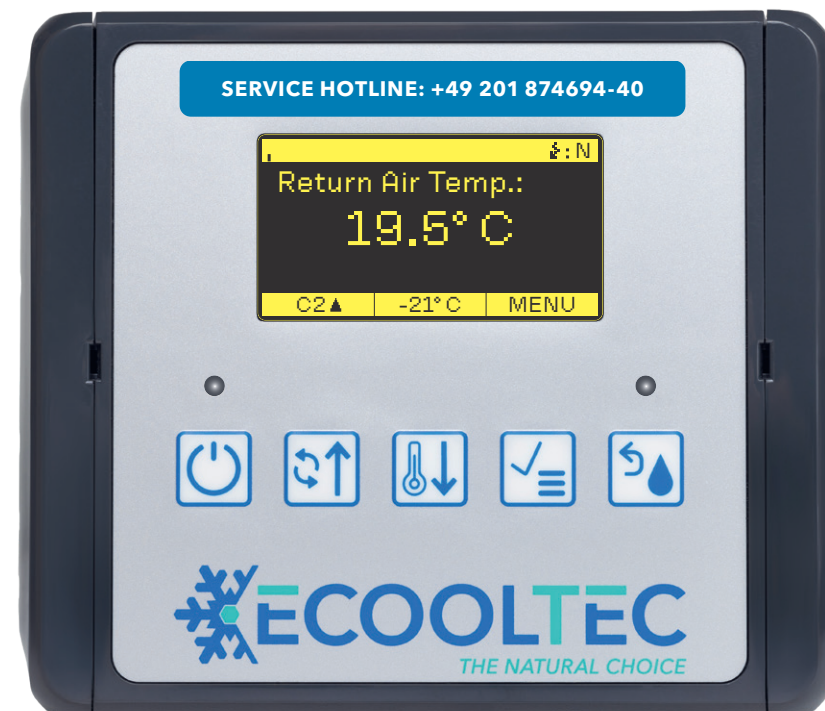
Fast (3 dashes)

Defrosting

If required defrost the refrigeration system regularly, several times a day while travelling. Time required: approx. 15 min. During this time, neither the refrigeration system nor the lorry engine (in generator mode) must be switched off.

The system can be programmed to defrost automatically.

However, this must be carried out by the service partner in the ECOOLTEC tool.



It is also possible to start the defrosting process manually by pressing the defrost button on the remote control. During this process, the LED above the defrost button lights up orange. Automatic defrosting takes place sequentially only for active evaporators when ready for defrosting. Once the defrosting process is complete, the orange LED goes out. This is followed by a short standstill phase. This allows the accumulated defrost water to drip off and drain away.

Heating

The evaporators can also be heated manually. This function is located in the same display view as the temperature preselection. To use it, simply scroll down and select the desired function.

Additional information in the status display top

C2 ▼

The ▼ symbol in the display indicates cooling mode.

C1▲

The ▲ symbol on the display indicates heating mode.

 $\xi : N$

Symbol for 400V AC mains operation.

Notes

[illegible]

11. Company details

ECOLTEC Grosskopf GmbH
Zinkhüttenstraße 17
45473 Mülheim a.d. Ruhr
Germany
www.ecooltec.com

A Company of
Umweltstiftung Grosskopf
GmbH

Article no. 605-0001

Local court Duisburg HRB 33545
Ust-IdNr.: DE308321381
Managing directors:
Henning Altebäumer and Holger Dörre

September 2026

ECOOOLTEC Grosskopf GmbH

Zinkhüttenstraße 17
45473 Mülheim a. d. Ruhr
Germany

T +49 201 874694-10
info@ecooltec.com

ECOOOLTEC UK Ltd.

Chandos House
School Lane
Buckingham
Buckinghamshire MK18 1HD

T +44 1280 733038
info@ecooltec.com

www.ecooltec.com

