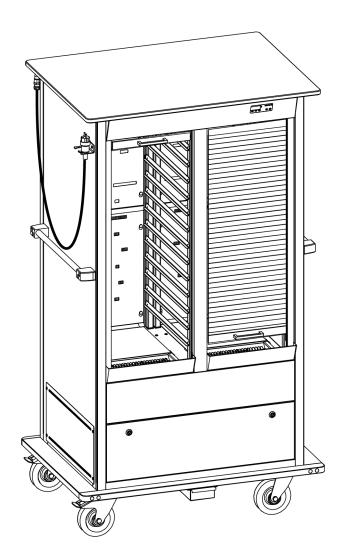


Operating instructions



CoolMultiMobil

CMM

Read the instructions prior to performing any task!

Manufacturer information

Hupfer Metallwerke GmbH & Co. KG Dieselstraße 20 48653 Coesfeld Telephone: + 49 (0) 2541 805-0

Email: info@hupfer.de Internet: www.hupfer.com

Document information

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1 General information

1.1 Product information

Product name CoolMultiMobil

Product types CMM 2/26 EN UK

CMM 2/26 GN UK

1.2 Target group

These operating instructions are intended for the following groups of people who perform the listed activities with or on the product:

Electrician

- Servicing or repairing the electrical installation within the product
- Rectifying electrical faults

Maintenance engineer

- Maintenance work on mechanical systems or trained activities on the electrical, cooling or heating systems
- Simple repairs
- Appropriately trained employees of the customer or an employee of the manufacturer

Operator

The operator or an authorised person must carry out the work.

- Check the condition of the entire unit
- Determine maintenance requirements

Refrigeration specialist

- Assembling, dismantling, servicing or disposing of a system within the product
- Rectifying faults



CoolMultiMobil Operating instructions

1.3 **Symbols**



DANGER

"Danger" indicates a hazardous situation that will result directly in death or serious injury.



WARNING

"Warning" indicates a hazardous situation that may result in serious injury.



A CAUTION

"Caution" indicates a potentially hazardous situation that may result in minor to moderate injury.



NOTICE

"Notice" indicates a situation that may result in damage to property.



"Notes" give tips on the correct use of the product.



1.4 Signs



General warning sign

This warning symbol is attached at points on the product that present a risk of accident and injury.



Warning of electric current

This warning symbol is attached at points on the product where the electrical circuits are installed.



Warning of flammable substances

This warning symbol is attached to points where hazards are caused by flammable substances.



Do not use pressure washers and steam cleaners

This warning symbol means that no steam cleaners or pressure washers may be used on or around the product.



2 Product description

2.1 Function

The CoolMultiMobil is a mobile refrigerator for cooling and serving meal components. The refrigerator holds meal components in containers or portioned on plates or in bowls on trays or grilles. The fan-assisted cooling ensures that the food is cooled even when the roller shutter is open.

2.2 Overview

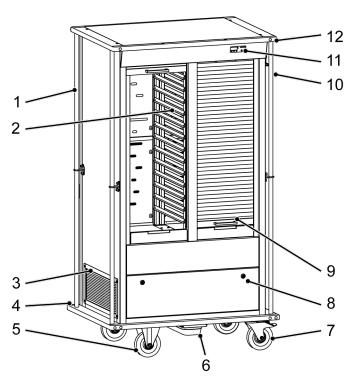


Fig. 1: Overview of the CoolMultiMobil

- 1 Ergonomic handle
- 2 Tray insertion
- 3 Vent
- 4 Chassis with bumper strip
- 5 Fixed castor
- 6 Condensation collector
- 7 Swivel castor with lock
- 8 Inspection opening
- 9 Roller shutter
- 10 Mains plug
- 11 Control with operating component
- 12 Top with bumper strip



2.3 Equipment features

Overall construction Self-supporting torsionally rigid structure

made of high quality stainless steel.

Double-walled housing isolated on all sides with CFC-free, fire-retardant material.

Housing With smooth stainless steel sur-

faces Hygienic interior with smooth stainless steel surfaces. Air baffles in the rear and on the base can be removed for cleaning the interior. Evaporator for refrigeration installed behind removable rear panel.

Impact protection Housing protected from damage by polymer

bumper strips round the entire chassis and top. Protruding edges and attachments on the housing also inside the area protected by the bumper strips. Additional bumper strip on the rear at 120 mm, level with

common kitchen appliances.

Interior With compartments for inserting trays.

Push-in racks and air baffles can be

removed for cleaning.

Refrigeration technology

Cooled interior with two front roller shutters

that can be opened separately and inserts for keeping food that needs to be refrigerated cold in accordance with HACCP specifications. Powerful air curtain refrigeration for cooling even when the front roller shutters are open for portioning food. Fanassisted cooling for even and constant temperature distribution on all levels of the inte-

rior.

Control Front with built-in operating and control

unit with digital temperature display, on/off switch and buttons for setting the tempera-

ture.

Wheels Transport trolley wheels as per DIN

18867-8.

Swivel castors With locks, actuated locks prevent the

wheels from swivelling and turning.

Fixed castors Fixed wheels for easy travel in a straight

line.

Push bar A vertical push bar made of round stainless

steel tube on each corner of the housing. Simple and ergonomic manoeuvring of the transport trolley with two hands at any

handle height.

Roller shutter On the front of each compartment an alu-

minium shutter with handle for one-handed use. Shutters can be opened separately on each compartment. Polymer rails ensure

that shutters do not jam.



Condensate pan

Stainless steel container under the chassis as a collection pan for the small amount of condensate that arises. Condensate pan can be removed and emptied without tools.

2.4 Equipment options

Push-in racks	■ Euronorm trays 530 × 370 mm		
	■ Gastronorm trays/containers 530 × 325 mm		
Swivel castors with direction lock	The actuated direction lock fixes the wheels straight ahead, including the central lock tread.		
Central lock tread	For simultaneous foot actuation of the central locking device or direction lock of the swivel castors.		
Lighting	Optionally two LED light strips for lighting the interior without glare. LED light strips for lighting the interior without glare.		
Lockable	Each shutter has a triangular latch.		
Mains plug	Schuko plug, IP 44 (standard)		
	CEE plug, 230 V, earthed, IP 44		
	UK plug, type BS 1363		
	Swiss plug, type 12, IP 44		

2.5 Technical data

Model		CMM EN UK	CMM GN UK
Dimensions, total weight			
Width ¹	mm	1,114	1,114
Depth ¹	mm	798	798
Height ¹	mm	1,973	1,973
Weight ¹	kg	230	230
Payload, total	kg	320	320
Rail pairs			
Tray dimensions		Euronorm (EN) 530 × 370 mm	Gastronorm (GN) 530 × 325 mm
Quantity		2 × 13	2 × 13
Design		Frames with welded angle rails	Frames with welded angle rails
Insertion style		Lengthwise insertion	Lengthwise insertion
Pitch	mm	75	75
Payload per rail pair	kg	12	12
Cooling			
Refrigeration system		Compressor:	Compressor:
Refrigerant		R290	R290
Refrigerant quantity	g	110	110
Refrigeration capacity	W	1,039 (-10°C VT)	1,039 (-10°C VT)
Climate classification		N (Normal): +16°C to +32°C	N (Normal): +16°C to +32°C
Required temperature control range	°C	+3 to +12	+3 to +12



Model		CMM EN UK	CMM GN UK	
Electrical connection				
Voltage	V	2	30	230
Wattage	W	6	00	600
Rated current	Α		16	16
Mains frequency	Hz	50/	60	50/60
Protection class	IP		X3	X3
Emissions				
Sensitive waste heat	w/h	1,6	00	1,600
Condensate quantity ¹	I/d	Ca	a.1	ca.1
Sound pressure level	dB(A)	the A-weighted sound p	ressure level is less	than 70 dB(A)

¹The figures are approximate values. Deviations are possible.

2.6 Rating plate

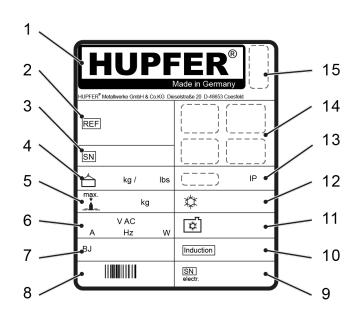


Fig. 2: Rating plate

- 1 Manufacturer and address
- 2 Type designation and product code
- 3 Order number
- 4 Total weight
- 5 Payload, total
- 6 Electrical connection
- 7 Model year
- 8 Product code as barcode

- 9 Electrical serial number
- 10 Induction frequency
- 11 Refrigerant
- 12 Refrigeration capacity
- 13 Protection code
- 14 Certification mark/CE label if available
- 15 Disposal of old appliances



3 Safety information

3.1 Intended use

The CoolMultiMobil is used to keep meal components cold and to serve meal components in containers or portioned on dishes on trays or grilles. Depending on the CoolMultiMobil variant, the rail pairs are suitable for Gastronorm or Euronorm size trays.

Intended use includes following the prescribed procedures, complying with the given specifications, and using the genuine accessories that are provided or additionally available. Any other use of the transport trolley is considered improper.

3.2 Improper use

Loading with warm or hot meal components is regarded as improper use. The loaded food must not interrupt the air flow of the cooling system. Trays and containers must be pushed in to the end position.

Objects must not be placed on the inner base of the unit without trays or grilles. Vents must not be blocked. The unit must not be loaded without pre-cooling. The unit must not be installed and operated outdoors.

It may not be used for transporting living creatures. Persons must not sit or stand on or in the unit.

In the case of improper use, the manufacturer and suppliers shall assume no liability for resulting damage. Damage caused by improper use shall result in loss of liability and of guarantee claims.

3.3 Safety instructions

3.3.1 General information

The unit may only be used in a technically sound condition, taking risks and safety into consideration, for its intended purpose and in accordance with the operating instructions.

Before each use, the unit must be checked for any visibly apparent damage and defects. If damage occurs, immediately notify those responsible and take the unit out of use.

Changes or conversions are only permitted after consultation and written consent from the manufacturer.

The CoolMultiMobil can move off under its own weight and in an uncontrolled manner if the wheels are not locked and the direction lock not engaged.

Secure the stationary CoolMultiMobil with the locks to prevent it from rolling away.

If the power supply cables are damaged, short circuits and electrical contact may occur. Do not pull on the cable, grip the mains plug. Disconnect the unit from the power supply before moving it.



3.3.2 Transport

If the unit needs to be lifted, only use lifting gear and load-bearing equipment approved for the weight of the unit.

Only use transport vehicles that are approved for the total weight of the unit.

The unit does not have any attachment points for eyelets or similar lifting aids.

Always transport the unit upright if possible. It can be lifted using a lifting platform, for example.

If the CoolMultiMobil is being transported, the unit must also be secured. The locks on the wheels are not sufficient as transport securing devices. They must not be braked during transport on an HGV because the locking mechanism will be damaged by the forces that occur.

Transport trolleys on which the direction lock has been released will roll from side-to-side when in motion. Transport trolleys on which the direction lock has been released can move off by themselves and in an uncontrolled manner on inclined surfaces, e.g. loading ramps. Only release the direction lock briefly when the transport trolley is at a standstill and on level ground, e.g. to move it sideways.

3.3.3 Operation and use

The CoolMultiMobil may move off independently and in an uncontrolled manner if the wheels are not locked. Secure the stationary unit against rolling away.

Do not park on sloping ground. Only move transport trolleys with the locks released. Moving with the locks engaged will damage the chassis. The locks are not brakes. Only engage the locks when the transport trolley is stationary. Only release the direction lock briefly when the transport trolley is at a standstill and on level ground, e.g. to move it sideways.

If the CoolMultiMobil is loaded with incorrect trays/containers, the containers may fall and cause damage. Load the CoolMultiMobil with the appropriate trays or containers.

Falling crockery items, trays and containers can cause injury. The rail pairs have no tilt protection. Slide trays and containers all the way into the inserts. Pull the trays and containers all the way out. Trays and containers that have been only partially pulled out can tip and fall onto people during loading.

Only move loaded units with the roller shutters closed to prevent trays, containers and crockery items from falling out.

Never try to catch a unit that is falling over. Transport trolleys are heavy and can cause serious injury. Move the unit with foresight.

Water or condensation on the electrical system can cause short circuits, corrosion and damage to the unit. Pre-cooling of the CoolMulti-Mobil must not take place in a cold room. Allow the CoolMultiMobil to pre-cool in the environment in which it is to be used.



The mains plug must be freely accessible. In an emergency, disconnect the mains plug to de-energize the unit, e.g. if the unit is leaking refrigerant.

The refrigerant is flammable. If the vents are blocked, the flammable refrigerant will form a flammable air-gas mixture in the event of a leak. Do not block the vents. Do not use any chemical aids or heat sources to de-ice the unit. Do not damage the refrigerant circuit. Do not operate any electrical devices within the cooling compartment except for fans and LED lights from the manufacturer's range of spare parts and accessories.

Do not store any explosive substances, e.g. aerosol containers with flammable propellant gas, inside this unit.

3.3.4 Cleaning

During cleaning and maintenance work, the unit must not be in operation and must be de-energised. Pull out the mains plug.

If the electrical system comes into contact with water or condensate, there is a risk of short circuits and damage to the unit. The CoolMulti-Mobil must not be cleaned with pressure washers or spraying lances.

3.3.5 Maintenance

Troubleshooting may only be carried out by maintenance technicians.

Work on electrical equipment may only be carried out by electricians. The work must be carried out in compliance with the rules of electrical engineering.

Work on the refrigeration system may only be carried out by refrigeration specialists. The work must be carried out in compliance with the rules of refrigeration engineering.

3.3.6 Safety devices

Direction lock on the swivel castors. The direction lock must be activated when moving the cart and on sloping ground. Only release the direction lock to move the cart sideways.



4 Transport



Risk of crushing

Improper use or incorrect means of transport may cause the unit to tip over, slip or fall. If not adequately secured, there is a danger of serious crushing injury and damage to the unit.

- Secure each unit with appropriate transport securing devices during transport.
- Fix the wheels in the "straight ahead" position.

NOTICE

Damage to the locks

The forces that occur during transport by lorry cause damage to engaged locks.

- Secure the unit with a transport securing device.
- Release the locks during transport by lorry.

4.1 Delivery

Delivery is performed by a transport company, whose specialists are responsible for securing the load during transport. At the place of delivery, the transport cart can then be moved on its own wheels.

4.2 In-house transport

A lift must always be used for transport to another floor. The unit is not designed to be pushed up or down slopes such as wheelchair ramps.

Note the instructions in chapter → Chapter 7.2 'Moving the unit' on page 18→ 'Moving with the push handle' on page 21.

Only use transport vehicles that are approved for the weight of the unit.

- **1.** Close the roller shutters.
- 2. Release the locks.
- **3.** Fix the wheels in the "straight ahead" position.

4.3 Lifting

The transport cart does not have any attachment points for eyelets or similar lifting aids.

Always transport the transport cart upright if possible. It can be lifted using a lifting platform, for example.



CoolMultiMobil Operating instructions

5 Operating conditions



For installation and operation, the BG rule "Arbeiten in Küchenbetrieben" (Working in kitchens) of the BGZ technical committee "Nahrungs- und Genussmittel" (Food and beverages) (BGR 111) BGR 500:2008-04 Chapter 2-35 must be observed, among others.



The unit requires unobstructed air exchange for cooling and for electronics to function properly.

- Pay attention to the distance to the vents.
- Do not cover or move any vents.
- 1. Donly move the unit over flat, dry and stable surfaces.
- 2. The unit should only be positioned on a level floor.
- 3. Secure the unit with the locks when stationary.
- Make sure the vents are not blocked.
- 5. ightharpoonup Position the unit a sufficient distance from heat sources and steam-forming devices, e.g. ovens and bain-marie wells.

6 Commissioning



Risk of crushing

The transport trolley is heavy, and if it rolls away out of control, there is a risk that people may be injured by being hit or crushed

- Each time you park the transport trolley, secure it against rolling away with both locks.
- The trolley may only be parked on horizontal surfaces.
- Fix the wheels in the "straight ahead" position.



NOTICE

Instructing operating staff

Before commissioning, operating staff must be instructed on how to use the unit correctly.





Compressor damage

After delivery, the compressor oil must settle or compressor damage will occur.

- Allow the unit to stand upright and undisturbed for at least 8 hours
- Do not connect the unit to the mains immediately.



Help protect our environment. Separate the packaging materials and recycle them. Dispose of:

- Packaging and foils in the (yellow) recycling bin.
- Cardboard boxes and paper in the paper recycling bin.

Clean the unit thoroughly before first use (see cleaning instructions).

Check the functions of the unit:

- Functionality of all mechanical parts
- Functionality of the controls
- Connector plug and connecting lead
- Functionality of the cooling system
- Functionality of the locks

Free access to the mains plug of the unit is required for operation. In an emergency, the mains plug can be pulled out of the socket to de-energise the unit.

7 Operation



WARNING

Flammable refrigerant

A flammable gas is used as a refrigerant. In the event of a leak, blocked vents will lead to an explosive mixture of air and gas.

- Do not block the vents.





Contusion hazard

Transport carts rolling in an uncontrolled way may crush persons.

- Never leave the transport cart to roll unattended.
- Only drive uphill or downhill if you can control the transport cart. If necessary, involve a second person.
- Only park the transport cart on level surfaces.
- Each time you park the transport cart, secure it with both locks against rolling away.
- Fix the wheels in the "straight ahead" position.

7.1 Getting to know the user interface

Switch on the controls

As soon as the unit is connected to the power supply, the controls are switched on.

- Connect the unit to the power supply.
 - → The display shows OFF when the cooling is switched off.
 - → The display shows the current temperature when the cooling is switched on.

The controls will remember if the cooling was switched on or off when the unit is disconnected from the power supply.

Switching the cooling on/off



▶ Press the on/off button ⊚

- → The display shows OFF when the cooling is switched off. The ventilation switches off.
- → The display shows the current temperature when the cooling is switched on.

The ventilation audibly switches on.

Switching the light on/off



- Press the Lighting on/off button .
 - → The COOLING MODE display lights up.
 - → The display shows the current temperature.

Displaying the required temperature



▶ Press the Set button ⊚.

→ The required temperature is shown in the display.



Setting the required temperature



1. Press and hold the Set button.

→ The required temperature is shown in the display.





- **2.** Select the desired required temperature using the corresponding Up and Down buttons $\triangle \bigcirc$.
- 3. Release the setting button.
 - → The required temperature is now changed.

7.2 Moving the unit



WARNING

Flammable refrigerant

A flammable gas is used as a refrigerant. In the event of a leak, blocked vents will lead to an explosive mixture of air and gas.

Do not block the vents.



WARNING

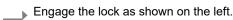
Injuries caused by rolling away

The unit is heavy, and if it rolls away out of control, there is a risk that people may be injured by being hit or crushed.

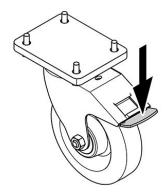
- Engage the locks when the unit is stationary.
- Only park the unit on level surfaces.

Engaging the locks

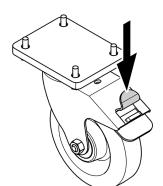
Swivel castors with locks can block the wheel from turning and swivelling. When the locks on both swivel castors are engaged, the transport cart is secured against rolling away.



→ The wheel cannot turn or swivel.







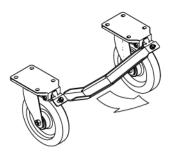
Releasing the lock

- Release the lock as shown on the left.
 - → The wheel can turn and swivel.

Actuating the central lock tread

Optionally, the transport carts have a central lock tread. With the central lock tread, the locks on both swivel castors are operated simultaneously. The central lock tread for the locks is marked [Stop.]

- Engage the lock as shown on the left.
 - → The wheel cannot turn or swivel.



Releasing the central lock tread

- Release the lock as shown on the left.
 - → The wheels can turn and swivel.



Actuating the direction lock



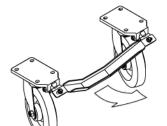
WARNING

Contusion hazard

Transport carts on which the direction lock has been released roll from side to side when in motion. Transport carts on which the direction lock has been released can move off under their own weight and in an uncontrolled manner on inclined surfaces, e.g. loading ramps. The transport cart is heavy, and if it rolls away out of control, there is a risk that people may be injured by being hit or crushed.

- Activate the direction lock for the wheels.
- Only release the direction lock when the transport cart is at a standstill and on level ground.

Optionally, the transport carts have a central lock tread. With the central lock tread, the wheels are fixed straight ahead.

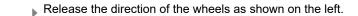


Lock the direction of the wheels as shown on the left.

- ➡ When the direction of the wheels is fixed, the cart is more stable when travelling on longer routes.
- → The direction lock snaps in audibly.

Release the direction lock

Only release the direction lock to manoeuvre in confined spaces, e.g. to move the appliance sideways. Afterwards, reactivate the direction lock.



→ The wheels can move freely again.





CoolMultiMobil Operating instructions

Moving with the push handle



WARNING

Contusion hazard

Transport carts rolling in an uncontrolled way may crush persons.

- Never leave the transport cart to roll unattended.
- Only drive uphill or downhill if you can control the transport cart. If necessary, involve a second person.
- Only park the transport cart on level surfaces.
- Each time you park the transport cart, secure it with both locks against rolling away.
- Fix the wheels in the "straight ahead" position.



A CAUTION

Risk of injury

If the unit is connected to the power supply when moving, there is a risk of injury.

- Disconnect the connection to the power supply.
- 1. Close the roller shutters.
- 2. Disconnect the connection to the power supply.
- 3. Hang the plug in the holder provided.
- 4. Release the locks.
- **5.** Move the unit using the push handle.
- 6. Make sure that path ahead is clear.
- 7. Only move the unit over flat, dry and stable surfaces.
- 8. Have someone help you if the unit needs to be moved on a slope.
- 9. Engage the locks when the unit is stationary.

7.3 Operating the fan-assisted cooling

Operating the fan-assisted cooling

The cooling is operated via the control panel.



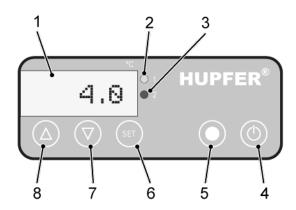


Fig. 3: Controls and display for the CoolMultiMobil

- 1 "Current temperature" display
- 2 "Cooling mode" display
- 3 "Lighting mode" display *
- 4 "On/off" button
- 5 "Lighting on/off" button *
- 6 "Set" button
- 7 "Reduce temperature" button
- 8 "Increase temperature" button



^{*}with optional lighting

7.4 Pre-cooling the CoolMultiMobil

The CoolMultiMobil can only effectively cool meal components if a pre-cooling time of at least half an hour is observed.

The CoolMultiMobil can be switched on manually for pre-cooling.

- 1. Connect the CoolMultiMobil to the power supply.
- 2. Close the roller shutters.
- **3.** ▶ Switch on the CoolMultiMobil using the on/off button ⊚.
- **4.** Check that the cooling is switched on (ventilation audible, display of current temperature). If necessary, switch on the cooling.
- **5.** Check the required temperature, press the Set button . If necessary, correct the required temperature.
 - → The CoolMultiMobil starts cooling.

The CoolMultiMobil can be switched on automatically for pre-cooling via a timer.

- **1.** Connect the GN container food serving trolley to the power supply via the timer.
- 2. Close the roller shutters.
- 3. Switch on the CoolMultiMobil using the on/off button .
- **4.** Check that the cooling is switched on (ventilation audible, display of current temperature). If necessary, switch on the cooling.
- **5.** Check the required temperature, press the Set button. If necessary, correct the required temperature.
- **6.** Switch off the power supply at the timer.
 - The CoolMultiMobil starts cooling when the timer connects the CoolMultiMobil to the power supply.

7.5 Keeping food cold

The CoolMultiMobil is only intended to keep food cold. The unit must not be loaded with warm food that has not been pre-cooled.

Close the roller shutters if it is not necessary to access the u	nit.
--	------

Food can only be kept cold when the unit is connected to the power supply. Only disconnect the unit from the power supply during operation when the roller shutters are closed and only for a short time.

After an interruption in operation, check whether the food temperatures are still within the permissible range.

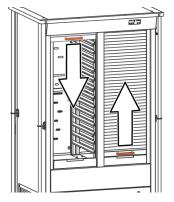


7.6 Opening/closing the roller shutter



Help the CoolMultiMobil to cool efficiently.

 Close the roller shutters if it is not necessary to access the unit. The food will cool more evenly and the cooling will work more efficiently.



- **1.** Open the roller shutter using the handle.
- 2. Close the roller shutter using the handle.

7.7 Loading the unit



WARNING

Risk of fire

The refrigerant circuit contains a flammable refrigerant.

Do not damage the refrigerant circuit.



WARNING

Risk of injury

Partially inserted trays may tip spontaneously, causing the loaded objects to fall on people. Falling crockery items, food, containers and trays pose a risk of injury.

- Slide trays and containers all the way into the inserts.
- Pull trays and containers all the way out of the inserts.



WARNING

Insufficient cooling

Trays or containers, air baffles and flow rectifiers that have not been pushed all the way in hinder the airflow of the cooling system. Foods positioned underneath these will not be sufficiently cooled and the risk of icing increases.

- Slide trays and containers, air baffles and flow rectifiers all the way into the inserts.
- Pull trays and containers, air baffles and flow rectifiers all the way out of the inserts.

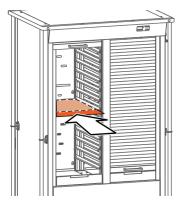




Load from bottom to top

Begin loading from the bottom and work up to the top, loading evenly on the left and right.

- Lower centre of gravity with partial loading.
- Cold air sinks down and the cooling is used effectively.



- **1.** Check the current temperature.
- 2. Load the CoolMultiMobil with the appropriate trays or containers.
- 3. Load the CoolMultiMobil from bottom to top
- 4. Slide trays or containers into the inserts as far as they will go.
- 5. Pull trays and containers all the way out of the inserts.
- **6.** Remove trays or containers from top to bottom.
- 7. Close the roller shutters.

8 Care and cleaning



⚠ DANGER

Electrical hazard

Electricity is a serious hazard and can cause injury or even death.

- Before starting any cleaning and maintenance work, disconnect the unit from the mains.
- Disconnect the mains plug and put away the cable in its designated place until the next use.
- Do not clean the transport trolley with steam cleaners or highpressure cleaners.



WARNING

Flammable refrigerant

A flammable gas is used as a refrigerant. Blocked vents will result in a flammable air-gas mixture in the event of leakage.

- Do not block the vents.
- Do not use any chemical de-icers or heat sources for de-icing.
- Do not damage the refrigerant circuit.



8.1 Cleaning intervals

The specified cleaning intervals are recommendations from the manufacturer. You can clean the unit at any time if necessary. Observe the operator's hygiene concept.

Area Process		Interval		
Condensation col-	Empty and clean		After each use	
lector, floor pan			At least 1× per day	
Evaporator	Clean		Weekly	
Recirculated air	Clean and disinfect		Weekly	
duct, floor pan, air baffles, siphon	if necessary	•	As required	
banies, sipnon		•	According to the in-house hygiene concept	
Interior	Clean		After each use	
			In case of contamination	
Outer housing	Clean		As required	
		•	According to the in-house hygiene concept	
Refrigeration unit, condenser	Remove dust	•	Every six months	

8.2 Permissible cleaning types



CAUTION

Spreading water

Wet and dripping transport trolleys distribute water on paths. There is a severe risk of slipping on wet paths.

- Dry the transport trolley after cleaning.
- Remove the water from the interior, e.g. by tilting the trolleys 5°.



NOTICE

Deformation at high temperatures

The polymers used deform at high temperatures and longer contact times.

- Restrict the contact time to max. 3 seconds.
- Restrict the temperature to max. 120°C.



NOTICE

Bearing damage

The wheel bearings are greased. Washing out the bearing grease will result in bearing damage.

- Do not aim jets directly at the wheel bearings.



Cleaning type		Definition of the cleaning operation	Approval for unit
Manual cleaning	Dry	Cleaning with dry cleaning agents	×
	Moist	Cleaning with a damp cloth and degreasing liquid cleaner	V
	Wet	Cleaning with a wet sponge and degreasing liquid cleaner	×
Water hose	Pressure ≤ 8 bar	Cleaning with a spray jet and degreasing cleaning agents if required.	×
		■ Do not spray into bearings.	
High-pressure/	High pressure	Cleaning the surfaces:	•
steam cleaning	≤ 200 bar	max. 30-90 seconds	
		Do not spray into bearings	
		Use a flat stream nozzle	
		Keep a distance of at least 30 cm	
	Wet steam	Cleaning the surfaces:	•
	≤135° C	max. 30-90 seconds	•
		Short exposure time for individual sections	
		Do not spray into bearings	
Transport trolley washing devices	•	Spraying with cleaning and rinsing agent:	×
		max. 30-90 seconds	



8.3 Permissible cleaning agents

NOTICE

Incorrect cleaning agents

Incorrect treatment of the installed material surfaces will result in damage and corrosion.

- Only use cleaning agents approved for cleaning.
- Follow the instructions of the cleaning agent manufacturer.



Suitable cleaning agents

The manufacturer cannot assess the suitability of specific detergents or disinfectants.

- Check the notes on the cleaning agents or disinfectants to find out whether they are suitable for the materials of the transport cart.
- If in doubt, ask the manufacturer of the agent if it is suitable for the materials of the transport cart.

Cleaning agent	Approval
Degreasing agent	
Neutral liquid cleaner	V
Salty cleaning agents	•
■ Table salt	
Hydrochloric acid	
Sulphuric cleaning agents	•
■ Sulphur dioxide	
Sulphuric acid	
Chlorinated cleaning agents	•
■ Chlorine cleaner	
■ Sea water	
■ Bleach	
Ferrous material	•
Water with iron content	
Low-oxygen cleaning agents	×
■ Low-oxygen water	
CO2 atmosphere	
Neutral cleaning agents	
Neutral cleaning agents pH 7	V
■ Slightly acidic cleaning agents pH 6 – 7	
■ Slightly alkaline cleaning agents pH 7 – 8	
Acidic cleaning agents pH 1 – 5	\
Acids	



Cleaning agent	Approval
Alkaline cleaning agents pH 8 – 14	•
Alkalis	
Abrasive cleaning agents	•
■ Scouring pad	
Pot scrubber	
Non-abrasive cleaning agents	
Uncoated sponges	V
■ Soft cloths	

8.4 Material compatibility

When selecting the cleaning agent, make sure it is compatible with the materials used.

Copper Piping for refrigerant	Material	Component
Copper Piping for refrigerant	Stainless steel	Housing, interior, top
	PE 500 (polyethylene)	Bumper strips, shutter guides
Aluminium Heat exchanger, condensel	Copper	Piping for refrigerant
3 ,	Aluminium	Heat exchanger, condenser

8.5 Manual cleaning

Manual cleaning

- 1. Disconnect the CoolMultiMobil from the power supply.
- **2.** Clean the interior of the unit after each transport and according to the operator's instructions.
- 3. Clean the outer surfaces of the unit after use or as required.
- **4.** For wet cleaning, use a soft cloth or an uncoated sponge.
- **5.** Use degreasing liquid cleaners.
- **6.** Rinse so that all detergents and disinfectants are completely removed.
- 7. Dry the interior and exterior surfaces after cleaning.



Clean the interior



A CAUTION

Sharp edges

The thin plates of the evaporator present a cutting hazard.

- Wear protective gloves.
- Remove the air baffles using the handle.
- Avoid contact with the evaporator.
- In the event of injuries, contact the responsible first aider.



CAUTION

Insufficient cooling function

If internal components are missing or have been incorrectly installed after cleaning, the cooling system will not function adequately.

- Reinstall all components.
- Connect the fans to the sockets.

The following parts are found inside the unit. Components can be removed from the interior for hygienic cleaning.



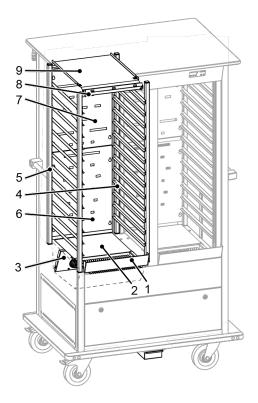


Fig. 4: Components for cleaning

- 1 Door flap, removable
- 2 Floor insert with ventilation slots, removable
- 3 Floor insert, closed, removable
- 4 Tray inserts, left and right, removable
- 5 Air baffle, bottom, removable
- 6 Air baffle, top, removable
- 7 Flow rectifier, magnetic, removable

- 8 Air baffle, top panel, removable
- 9 Fan bracket, removable
- 10 Condensation collector, removable
- 11 Vent
- 12 Floor pan, fixed
- 13 Inspection opening, lockable

The interior can be fully cleaned.

- 1. Disconnect the CoolMultiMobil from the power supply.
- 2. Remove removable components 1 to 9 in numerical order.
- 3. Clean the interior and the heat exchanger on the rear panel.
- 4. Clean the removed components.
- **5.** Reinstall the components.
- **6.** Connect the fans to the sockets.



Removing and installing the door flap

The door flap can be removed as follows.

- **1.** Fully open the roller shutters.
- 2. Loosen the left and right clips.
- 3. Remove the flap.
 - → You have removed the flap.

The wire pin [1] can be removed for cleaning and easier insertion.

The flap can be replaced by reversing the steps described above.

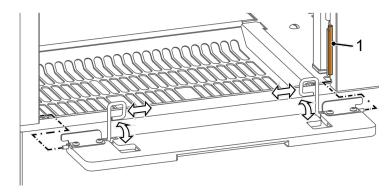


Fig. 5: Removing and installing the door flap

Cleaning the roller shutters

- **1.** Disconnect the CoolMultiMobil from the power supply.
- 2. Remove all trays and containers from the CoolMultiMobil.
- 3. Remove removable components 1 to 4 in numerical order.
- **4.** Close only one roller shutter. The other roller shutter remains open.
- **5.** Clean the outside and inside of the roller shutter. Clean the guide rails
- **6.** Dry the outside and inside of the roller shutter and the guide rails.
- 7. Repeat the same steps for the second roller shutter.
- 8. Reinstall all components in reverse numerical order (from 4 to 1).
 - → The roller shutters have been cleaned.



Emptying the condensation collector

During operation, air humidity condenses on cold components. The condensate is collected in a container underneath the CoolMultiMobil. The container must be emptied and cleaned after each use and at least 1× per day. The amount of condensate depends on the air humidity and the ambient temperature.



- **1.** Remove the condensation collector from the holder.
- 2. Empty the condensation collector.
- 3. Clean the condensation collector.
- **4.** Slide the condensation collector into the holder.
 - → The condensation collector has been emptied.

Cleaning the floor pan

- 1. Disconnect the CoolMultiMobil from the power supply.
- 2. Remove all trays and containers from the CoolMultiMobil.
- 3. Position the CoolMultiMobil over a drain.
- **4.** Remove condensation collector 10.
- 5. Remove components 2 and 3 and, if necessary, component 1.
- 6. Unplug the fans from the sockets.
- 7. Remove component 9.
- 8. Clean the condensate pan.
- **9.** Rinse the siphon with plenty of water and detergent.
- **10.** ▶ Clean the removed components as required.
- **11.** ▶ Dry all components.
- **12.** Reinstall the components in the reverse order.
- 13. Connect the fans to the sockets.
 - → The floor pan has been cleaned.



CoolMultiMobil Operating instructions

Cleaning and de-icing the evaporator

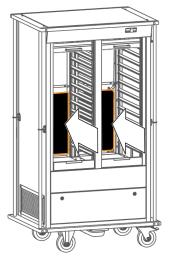


CAUTION

Sharp edges

The thin plates of the evaporator present a cutting hazard.

Wear protective gloves.



Contamination on the evaporator, e.g. ice and dust, impedes the air flow. The contamination renders the cooling ineffective meaning that the meal components can no longer be cooled as intended. The control unit includes a de-icing function. Manual de-icing and cleaning may be necessary under certain environmental conditions, e.g. hot outside temperatures and humid climates. Do not remove ice build-up with chemical de-icers or heat sources.

- 1. Disconnect the CoolMultiMobil from the power supply.
- 2. Remove all trays and containers.
- 3. Allow the CoolMultiMobil to defrost, overnight if necessary.
- 4. Remove components 1 to 6 where possible.
- 5. Clean the heat exchanger and evaporator.
- **6.** ▶ Clean the removed components and fans.
- 7. Dry the removed components and the walls.
- **8.** Reinstall the components in the reverse order.
- 9. Connect the fans to the sockets.
 - ➡ The evaporator has been de-iced.

Cleaning the heat exchanger



A CAUTION

Sharp edges

The thin plates of the evaporator present a cutting hazard.

Wear protective gloves.





Dust can collect in front of the heat exchanger during operation. Heat exchangers heavily contaminated with dust work inefficiently and consume more energy.

The heat exchanger can be cleaned.

- 1. Disconnect the CoolMultiMobil from the power supply.
- **2.** Open the inspection opening, component 12.
- Clean the heat exchanger, e.g. with a vacuum cleaner. Be careful with the plates of the heat exchanger. Bent plates make the heat exchanger ineffective. The metal plates present a cutting hazard.
- Close the inspection opening.
 - → The heat exchanger has been cleaned.

8.6 Disinfecting

All the surfaces can be disinfected with commercially available surface disinfectants.



NOTICE

Damage to property

High concentrations of disinfectant can cause corrosion damage.

Follow the instructions of the disinfectant manufacturer.

9 Maintenance and repair



DANGER

Electrical hazard

Electricity is a serious hazard and can cause injury or even death.

- Before starting any cleaning and maintenance work, disconnect the unit from the mains.
- Disconnect the mains plug and put away the cable in its designated place until the next use.
- Do not clean the unit with steam cleaners or high-pressure cleaners.





Flammable refrigerant

A flammable gas is used as a refrigerant. Blocked vents will result in a flammable air-gas mixture in the event of leakage.

- Do not block the vents.
- Do not use any chemical de-icers or heat sources for de-icing.
- Do not damage the refrigerant circuit.
- Carry out work in accordance with VDMA 24020-2.

The refrigerant circuit and its components must be inspected and, if necessary, serviced once a year by a refrigeration specialist. The work must comply with the refrigeration engineering regulations (VDMA 24020-2).

Ensure the correct filling quantity when filling the refrigeration system with refrigerant. Only fill the refrigeration system with refrigerant that is specified on the rating plate.

9.1 Maintenance intervals

Regularly check that the following components are functioning properly:

Interval	Maintenance work	Personnel	
before each use	Check connecting cable and mains plug for mechanical damage and ageing.	- Operator	
daily	Carry out a visual inspection of the entire unit.	Operator	
every six months	Check electrical functions of cooling system	Electrician	
	Check cooling capacity and temperature.	Refrigeration specialist	
annually	 Check entire unit for distortion and mechanical damage 	Maintenance engineer	
	Check effectiveness of the locks		
	Check mechanical strength of the wheels		
	Check functionality of the central lock treads		
	Check electrical protective conductor (VDE 0701); limit value for protective conductorresistance $< 100 \text{ m}\Omega$	Electrician	
	Perform DGUV V3 measurement for portable equipment.	Electrician	
	Check cooling controller.	Refrigeration specialist	
	Reset maintenance interval.		



9.2 Error messages

Fault description	Cause	Remedy	Personnel
Hi	Alarm, temperature too high		
L 0	Alarm, temperature too low		
EIL	Short circuit in sensor F1	Check or replace the F1 sensor.	Maintenance engi- neer
E IH	Broken sensor F1	Check or replace the F1 sensor.	Maintenance engi- neer
EP 0	Fault in the control unit	Repair or replace control system.	Maintenance engi- neer
EP 1	Error in parameter memory	Repair control system.	Maintenance engi- neer
EP 2	Error in data memory	Repair or replace control system.	Maintenance engi- neer

9.3 Troubleshooting

Troubleshooting

In the event of malfunctions and complaints within the guarantee period, contact our service partners. After the guarantee period has expired, have any necessary repair work carried out by our service partners or qualified electricians.

Fault description	Cause	Remedy
Unit veers to the left or right during transport	Wheel bearings damaged	Replace wheels
Running noises made by wheels	Wheel bearings damaged	Replace wheels
Wheel lock has no effect	Lock worn out	Replace lock
Roller shutters do not close correctly	Latch faulty	Have the latch replaced by a technical service provider
	Guide dirty	Clean the guide rails
Insufficient cooling power	Incorrect required temperature	Setting the required temperature
	Internal air baffles/components missing or incorrectly installed	Ensure that the air baffles and components from the interior are fully and correctly installed
	Evaporator iced up	De-ice the evaporator
	Compressor defective	Contact the service technician, replace the compressor if necessary
	Heat exchanger dusty	Clean the heat exchanger



Fault description	Cause	Remedy	
Insufficient air flow	Fans not connected	Clean the condensate pan and connect the fan	
	Ensure that the air baffles and components from the interior are fully and correctly installed	Internal air baffles/components missing or incorrectly installed	
	Evaporator iced up	De-ice the evaporator	
	Air flow disrupted, e.g. due to protruding trays	Insert the tray all the way or remove it completely; clean the condensate pan; check the air duct.	
	Fan(s) defective	Contact the service technician, replace the fan if necessary	

9.4 Repairs and spare parts

Spare parts and accessories are available from our customer service. Replace defective components with genuine spare parts. Only then can safe and reliable operation be guaranteed. When ordering spare parts or requesting customer service, always state the order number and the information on the rating plate. This information helps avoid follow-up queries and speeds up the process.

9.5 Recommissioning

The unit may only be used in a technically sound condition, for its intended use, and in accordance with the operating instructions. Check the unit for visible damage before each use. In the event of damage, inform the responsible departments immediately. Only operate units that are in faultless technical order.

- Check the functions of the unit, especially the lock and cooling.
- Clean the unit thoroughly before putting it back into operation.
- If the unit has been stopped, leave it to rest for 24 hours before putting it back into operation.

10 Disposal



Help protect our environment. Make sure that the materials are recycled.

- Have the unit disassembled and disposed of by recycling companies. All the materials are recyclable.
- The cooling system may only be removed by refrigeration specialists.
- The electrical system may only be removed by qualified electricians.





Help protect our environment. Make sure that the materials are recycled.

- Have the transport trolley disassembled and disposed of by recycling companies. All the materials are recyclable.
- Electrical components may only be removed by qualified electricians.
- The cooling system may only be removed by refrigeration specialists.

Dispose of the product using the following steps.

- **1.** Remove the electrical components.
- **2.** Drain the refrigerant and cooling brine.
- **3.** Drain the refrigerant.
- **4.** Dispose of the refrigerant and cooling brine properly.
- **5.** Dispose of the refrigerant properly.
- **6.** Take the components to a designated disposal centre.



Maintenance documentation

Interval	Weekly	Every 3 months	Annually	Annually	Annually	Annually	Annually
Inspection/activity	Check electrical functions of cooling system, clean evaporator.	Check cooling capacity and temperature.	Check the entire unit for distortion and mechanical damage, the effectiveness of the locks, the mechanical strength of the wheels and the functionality of the central locks.	Check electrical protective conductor (VDE 0701): Limit value for the protective conductor resistance $< 100 \text{ m}\Omega$	Carry out DGUV V3 measurement for mobile operating equip- ment.	Check cooling controller. Reset maintenance interval.	Check documentation.
Responsibility	Electrician	Refrigeration specialist	Maintenance engineer	Electrician	Electrician	Refrigeration specialist	Operator
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CoolMultiMobil



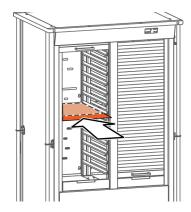
Brief guide

Observe the operating instructions

The brief guide does not take the place of the operating instructions. Observe the information in the operating instructions.

Loading the unit

Precool the unit for 0.5 hours.



- 1. Only load the unit with suitable trays, grilles or containers.
- 2. Push the items all the way in.
- 3. Load evenly from bottom to top.
- **4.** Close the shutters.

Operating the cooling system

(6)	Cooling on/off
	Light on/off
SET	Display set temperature
SET	Increase set temperature by degrees
SET	Decrease set temperature by degrees
\bigcirc	

Emptying the condensation collector



Empty the condensation collector after each use. At least 1× per day.

Opening/closing the shutters

- 1. Den and close the shutters using the handle.
- **2.** Keep the shutters closed. Cooling is more efficient when the shutters are closed.

Moving the CoolMultiMobil



Injuries from rolling away

If the unit rolls away, it may crush or run into people.

- Secure the stationary unit with the castor locks.
- Only park the unit on level surfaces.
- 1. \triangleright Disconnect the unit from the power supply.
- 2. Close the shutters.

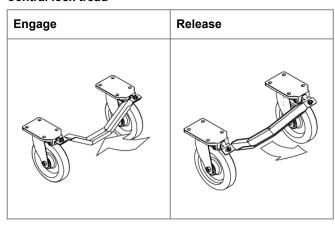
Castor locks

Engage	Release

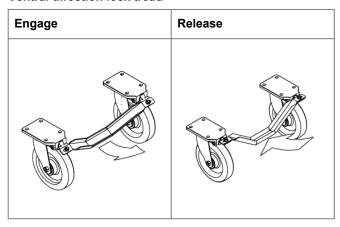
CoolMultiMobil



Central lock tread



Central direction lock tread



Cleaning the interior



DANGER

Electrical hazard

Contact with electrical voltage will result in death.

- Before starting any cleaning and maintenance work, disconnect the unit from the mains.
- Do not clean the unit with steam cleaners or high-pressure cleaners.



CAUTION

Insufficient cooling

If interior components are missing, the cooling will not work properly.

- Reinstall all components.
- Connect the fans to the sockets (step 3).

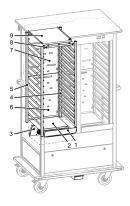
CAUTION

Sharp edges

There is a risk of being cut on the thin plates of the evaporator (especially in steps 6 and 7).

- Wear protective gloves.
- Remove the air baffles on the pin.
- In the event of injuries, contact the responsible first aider.

To clean the interior thoroughly, you must remove all the components from the interior.



- 1. Disconnect the unit from the power supply.
- Remove the components in the order shown (steps 1 to 9).
- 3. Disconnect the power cables from the fans (step 9).
- Reinstall the components in the reverse order (steps 9 to 1).

NOTE: Connect the cables to the fans (step 9).

Video cleaning instructions

The QR code takes you directly to the cleaning video.



- 1. Scan the CR code or
- 2. Lolick on the QR code.

You will need an internet connection and possibly an app to open QR codes. Additional charges may arise depending on your mobile phone provider.