Dometic
GROUP

| Vehicle-specific solutions
| Stationary air conditioners
| Coolers

| Reversing video systems / Front camera system
| Vehicle accessories
| Kitchen solutions
| Electronics

On the Road again

The comprehensive accessory range for trucks and vans

| 2010

Freedom ...

... is a big word. It is not always an appropriate word to describe the life of a trucker constantly under pressure to meet deadlines and conform with regulations. Nevertheless there are the odd moments of joy to be had on the open road in a way that no office job in the world could possibly match. The feeling of sitting behind the wheel and being one's own boss, in charge of a truckload of high-tech gadgets. The feeling of being responsible for valuable freight. The joy of seeing new horizons unfold. The elation that comes from a sunny day and an open road free of traffic.

We would like to share these moments "on the road" with you and make your life on the go that little bit more enjoyable. The mobile technology from the tried and tested brands WAECO and Dometic has been specially tailored to the needs of truckers. Choose from a massive range – you have certainly deserved it!
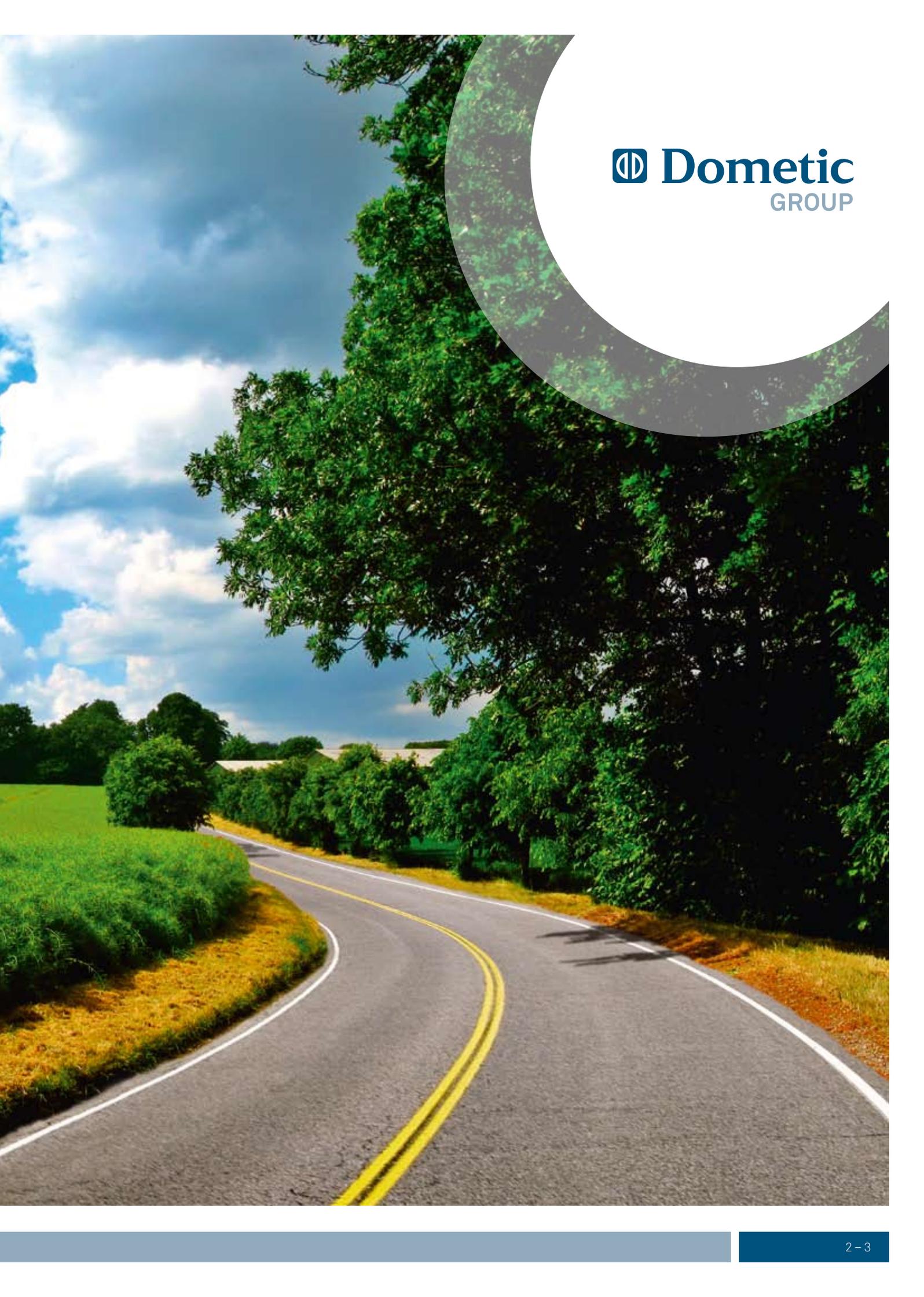
Contact

Web contact to Dometic WAECO
www.dometic-waeco.com
info@dometic-waeco.com

Always a good link: the Dometic WAECO website. That's where you will find the complete Dometic and WAECO range. You'll get a clear view of the products along with detailed information. Plus interesting news about our company and the latest special offers. And of course you can order all our catalogues online.

Contents

Mobile refrigeration

Mobile safety solutions

Mobile electronics

Dometic WAECO – OEM partner

Our expertise serves the commercial vehicle sector

It is not just end users who value the name Dometic WAECO. The brand also carries weight among the leading vehicle manufacturers. They appreciate our outstanding competence in the areas of mobile refrigeration and electronics and know that we can meet the high standards expected of original equipment. Many of our innovative products are now firm fixtures on the original equipment lists of manufacturers. From storage compartment fridges to integrated inverters – make Dometic WAECO your preferred supplier straight from the factory!

Orders directly from MAN

Freshness factory direct
A customised cooler for MAN TGS / TGX

Our expertise in mobile refrigeration is sought after all over the world. It is also appreciated by MAN, a well known vehicle manufacturer we have been successfully working with for many years. The result is a high-performance compressor cooler tailor-made for the storage compartment under the driver's bed. This integrated solution is exclusively available from MAN; it can be ordered by the customers as factory direct option.

Original accessory:
WAECO 35-litre compressor cooler

MAN TGS / TGX generation trucks come with many technical innovations and enhancements. Our contribution: the 35-litre compressor cooler under the driver's bed – offered by MAN as a "cool" alternative to a practical storage box – was optimised by means of a foamed evaporator design which improves the cooling performance and makes cleaning easier. Moreover, the cooler's patented double lid is now even more convenient to open, it flexibly adjusts for easy access to cool snacks and drinks while driving.

Dometic
GROUP

Only available from Volvo

Extra comfort for Volvo drivers
WAECO products as optional equipment

Two cool compressor solutions by WAECO for the FH Globetrotter XL: the usual Bunk Box under the driver's bed can be replaced by a 22-litre drawer fridge to be ordered factory direct or as original accessory. Alternatively, the storage compartment at the rear wall of the driver's cabin (Rearshelf) can be turned into a convenient 25-litre on-board fridge. On top of that, there's a WAECO heavy-duty colour camera for convenient manœuvring.

Original accessory:
22-litre WAECO drawer fridge

Original accessory:
25-litre WAECO refrigerator

Original accessory:
WAECO heavy-duty colour camera

Orders directly from Mercedes-Benz

Cooling under a good star
Bespoke solutions for Mercedes-Benz

Both the Actros MP2 / MP3 and the Axor 2 have room to spare for refrigeration, so we created tailor-made cooling solutions for them. Perfectly integrated into the driver's cabin for fast access to fresh provisions. With powerful compressor technology and many technical extras.

Original accessory for Actros MP2 / MP3:
Dometic 25-litre cooler

Shown as built-in solution:
Dometic cooler for Actros MP2 / MP3

Original accessory for Axor 2:
Dometic 32-litre cooler

Mobile technology for truckers

Safety and comfort on the move

It is not an easy job: the pressure of deadlines, intense competition and heavy traffic all serve to increase stress levels. Despite this it is still possible to concentrate on driving and relax with intelligent technology from WAECO and Dometic, tailored specifically to the needs of professional truck drivers. You will find everything that our special range has to offer on this double page.

① Mobile climate solutions

Superior compressor technology: roof and split air conditioners for stationary use in trucks. Easy installation and perfect finish with vehicle-specific installation kits.

WAECO CoolAir CA 800 / CA 850S

NEW

Truck roof air conditioner
for stationary use
24 V DC   **Page 38**

WAECO CoolAir SP 900

Truck split air conditioner
for stationary use
24 V DC   **Page 44**

② Mobile refrigeration

Designed for truckers: coolers for work and leisure. Built-in solutions for specific vehicles or universal models. From the high-tech compressor cooler to the thermoelectric bottle cooler.

WAECO CoolMatic CD-30

Compressor drawer fridge
12 / 24 V DC   **Page 52**

WAECO CoolFreeze CF-35

Compressor cooler
12 / 24 V DC
and 100 – 240 V AC   **Page 66**

③ Mobile safety solutions

Reversing without risk: reversing video systems for every demand. Wide choice of new complete systems and heavy-duty single components for individual solutions. Plus: an LCD front camera system to comply with the 2003/97/EC mirror directive.

WAECO PerfectView RVS 580

NEW

LCD reversing video system
12 / 24 V DC   **Page 98**

WAECO PerfectView FVS 740X

NEW

LCD front camera system
12 / 24 V DC   **Page 108**

④ Mobile comfort solutions

Many good product ideas to beat the stress while you drive and while you rest. From parking aids to gas detectors and safes to vacuum cleaners – the accessory range for more safety and comfort on the road.

WAECO MagicSafe MSG 150

Gas detector
12 / 24 V DC   **Page 140**

Dometic SAFE MD 361C

Safe with automatic
locking system   **Page 142**

⑤ Mobile kitchen solutions

Save time and money: mobile kitchen equipment makes you independent from expensive motorway restaurants. Coffee-Makers and Car-Kettle, all specially designed for mobile use.

WAECO PerfectCoffee MC 06

Truck Coffee-Maker
6 cups, 24 V DC   **Page 148**

WAECO PerfectKitchen MCK 750

Car-Kettle
24 V DC   **Page 152**

⑥ Mobile electronics

Professional electronics for homelike comfort. From voltage converters to mobile power supply – it's all here. Everything is running as usual, even when mains power is out of reach.

WAECO PerfectPower PP 154

Inverter
150 watts
24 V DC › 230 V AC   **Page 168**

Dometic TEC 29

Petrol generator
2600 watts
230 V AC output   **Page 180**

Take your choice

A better ride for van drivers

The best product ideas for retrofitting

For delivery vans and courier services every minute counts – keeping the driver's nerves constantly on edge. Mobile technology from WAECO and Dometic offers a high level of comfort, keeping stress at bay. You will be able to drive in a much more relaxed state of mind and focus entirely on getting to where you are going. Let us inspire you with the products on this double page!
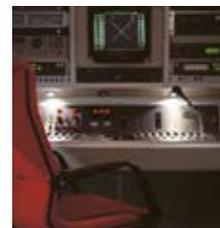
1 Mobile refrigeration

Super-compact cooling appliances to fit even in tight cabins. Universal use, for work and leisure. High performance compressor technology or thermoelectrics at fair prices. Many different sizes and designs – from the high-tech cooler / freezer to the thermoelectric bottle cooler.

WAECO CoolFreeze CDF-11

NEW

Compressor cooler
12 / 24 V DC **New!**　　**Page 60**

WAECO CoolFun CR-18

Thermoelectric cooler
12 / 24 V DC　　**Page 72**

WAECO TropiCool TC-35FL

Thermoelectric cooler
12 / 24 V DC and 230 V AC　　**Page 77**

WAECO MyFridge MF-1F

Thermoelectric bottle cooler
12 / 24 V DC　　**Page 78**

2 Mobile safety solutions

Reversing without risk: reversing video systems for every demand. Wide choice of new complete systems. Favourably priced entry-level solutions with compact CRT or LCD monitor, ideal for smaller dashboards.

3 Mobile comfort solutions

Many good product ideas to avoid unnecessary stress on board. From parking aids and daytime running lights to CAN-bus compatible cruise controls – all designed for fast and easy retrofitting.

WAECO PerfectView CRT 580

NEW

CRT reversing video system
12 / 24 V DC　　**Page 90**

WAECO PerfectView RVS 550

NEW

LCD reversing video system
12 / 24 V DC　　**Page 96**

WAECO MagicWatch MW 2500

Parking aid with
wireless transmission
12 / 24 V DC　　**Page 129**

WAECO MagicSpeed MS 900

Cruise control
for vehicles with
comfort CAN bus system
12 V DC　　**Page 132**

4 Mobile electronics

All you need for batteries and electrical devices on board. Utmost quality standard and many user-friendly details are provided by the WAECO (sine wave) inverters. Battery chargers, voltage and charging converters as well as the well proven Dometic generators for mobile power supply complete the range.

WAECO PerfectCharge DC 20

Charging converter
20 A
12 V DC › 12 V DC　　**Page 162**

WAECO PocketPower TSI 102

Smart sine wave inverter
120 watts
12 V DC › 230 V AC　　**Page 166**

WAECO PerfectPower PP 152

Inverter
150 watts
12 V DC › 230 V AC　　**Page 168**

Dometic TEC 29
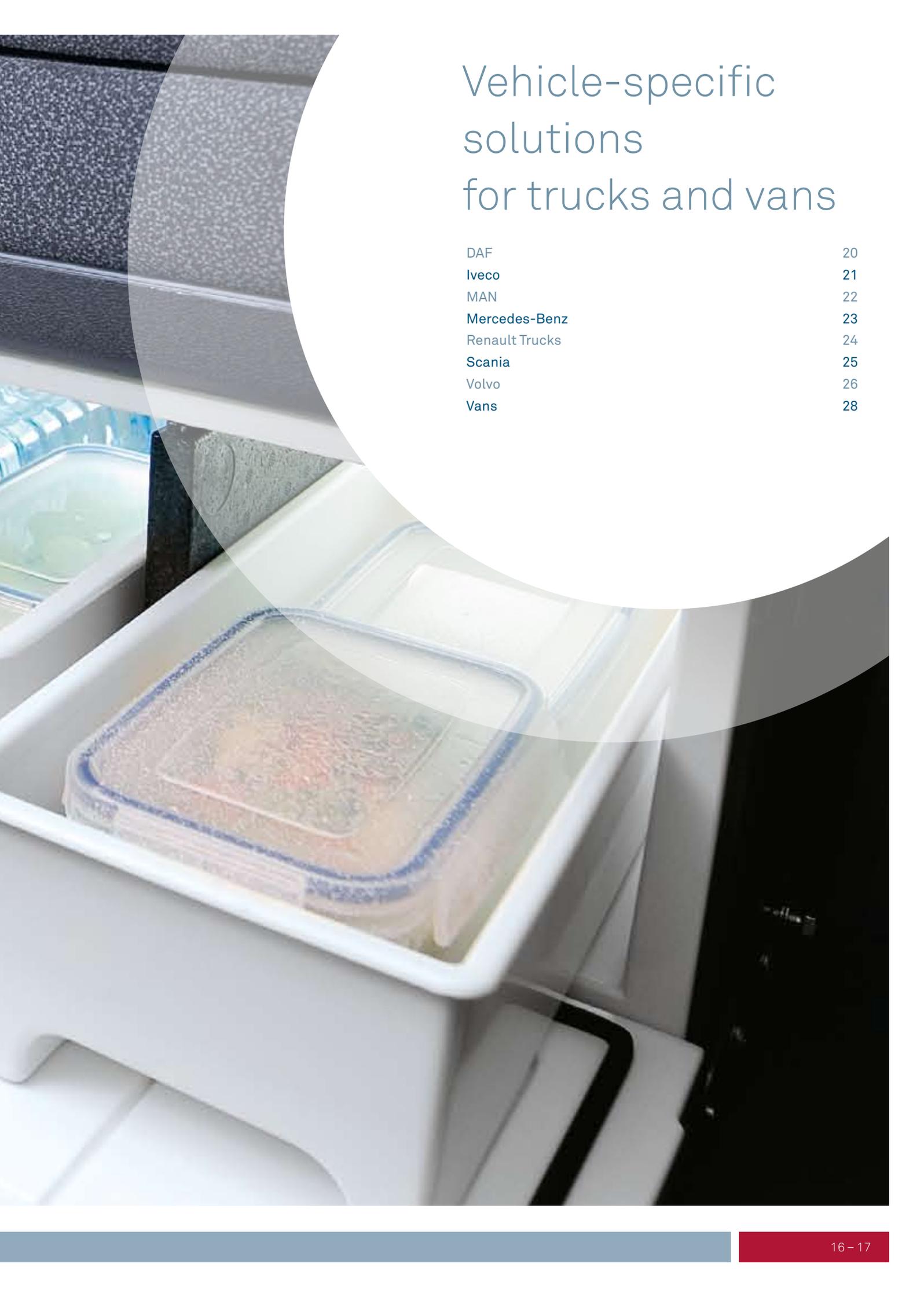
Petrol generator
2600 watts
230 V AC output　　**Page 180**

Vehicle-specific solutions
for trucks and vans

Our experience – your gain
Vehicle-specific integrated solutions

Retrofit safety and comfort

Trucks are mobile workplaces and frequently living, eating and sleeping place to boot. The provisions for these activities are often makeshift and inadequate. After all, a truck cab is hardly the place for luxurious accessories ...

Or perhaps it is, you just have to know how to accommodate them. This is the challenge we have been successfully addressing for many years in the areas of mobile refrigeration and electronics with the help of our close partnership with the commercial vehicle sector. The result of this cooperation is a comprehensive range of accessories with tailor-made products for all common truck and van models. The advantage of vehicle-specific solutions for retrofitting: they are perfectly adapted to the space in the cab, often utilise forgotten corners or storage compartments, and are easy to fit. Of course they also offer the same level of quality as our OEM solutions for the automotive industry.

On the following pages you will find detailed information about our vehicle-specific coolers.
We are very happy to answer any further questions.

Contents, specifications and availability are subject to change serving the technical improvement.

Custom-made to fit your DAF

The WAECO range for vehicle types XF / CF 95 and 105

WAECO CoolMatic CD-30

One-hand access

30-litre drawer fridge with compressor. Fits perfectly under the driver's bed. Convenient one-hand access. Flawless finish with stainless steel installation frame (optional).
Continuous temperature regulation
from 12°C to −2°C.
Details on page 52.

WAECO CoolAir SP 900

Stationary climate in two components

Your cabin is too tall or too steep for a roof air conditioner? Or it's already fitted with a roof superstructure? Then the WAECO split air conditioner is the perfect choice. Mounted to the inside and outside rear wall of the driver's cabin. Fastening frames for DAF XF105 Super Space Cab and DAF Space Cab. Details on pages 44 – 47.
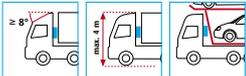
DAF
fastening frame
DAF1 SP900

WAECO CoolAir CA 800

Perfect climate "on the spot"

Rest and recuperation regardless of temperatures outside: this roof air conditioner was specifically designed for stationary use in trucks – the ideal complement to your vehicle's A/C! Easy installation and a neat finish with a vehicle-specific installation kit. For DAF Super Space Cab XF95/XF105 and DAF Space Cab XF105. Details on pages 40 – 43.

DAF installation kits
CA-EK-DAF1, CA-EK-DAF2,
CA-EK-DAF3

WAECO PerfectView CAM 40

Far better than any mirror!

Compact ball camera + flat LCD monitor = perfect front view. Approved to 2003/97/EC (mirror directive). Details on pages 108 – 111.

Contents, specifications and availability are subject to change serving the technical improvement.

A piece of WAECO in the Iveco …

… or two or three – tailor-made for the Iveco Stralis!

WAECO CoolFreeze FT-30

Squared to fit

30 litres cooling capacity for snacks, beverages or even frozen food would fit your needs? It's a perfect fit, because the square CoolFreeze FT-30 has almost the same dimensions as your storage compartment. Details on page 56.

## WAECO ColdMachine CS-IV

Budget-price perfection!

Iveco Stralis drivers don't need to look far for a suitable cooler – it's just between their seats. Just roll your sleeves up and install the high-performance CS-IV cooling unit in the storage drawer. Details on page 56.

WAECO CoolAir SP 900

Hot outside, lovely cool inside

A hot cabin is definitely not a good place to sleep. Why go without adequate rest and recovery when you can have a perfectly fitting A/C for your Iveco? The two components of the CoolAir SP900 split air conditioner are simply mounted to the inside and outside of the rear wall. Details on pages 44 – 47.
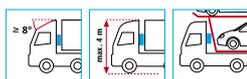
Iveco fastening frames
IVEC1 SP900
IVEC2 SP900

WAECO CoolAir CA 850S

Compact and powerful

Cools and dehumidifies the air – and creates a pleasant climate in the cabin. Operation with all windows closed – good for keeping burglars away. Specially designed for IVECO Stralis AS, AS³, AT (high-roof cab). Fast installation and a perfect finish with the vehicle-specific cover frame. Details on pages 36 – 39.

NEW

Iveco cover frame

Contents, specifications and availability are subject to change serving the technical improvement.

20 – 21

Good for MAN …

Refrigeration and more for TGX, TGS, TGA, TGM, TGL

WAECO TropiCool TC-21FL

XXL-size cooling

A low-cost cooling solution for MAN TGX XLX und XXL: this thermoelectric cooler easily slots into the storage compartment under the driver's bed. 21 litres capacity for food and snacks. Cooling performance up to 30°C below ambient, heating up to +65°C.
Details on page 76.

WAECO CoolAir SP 900

Rest and relaxation …

… are the built-in benefits of this split air conditioner. A high-performance, easy-to-install alternative for vehicles where a roof air conditioner cannot be used because, for example, there's already something fitted on the roof, or a roof-mounted unit would mean exceeding the maximum permissible height. Details on pages 44 – 47.

MAN
fastening frames
MAN1 SP900
MAN2 SP900

WAECO CoolAir CA 800

The climate to suit you and your truck …

… and so easy to fit with the vehicle-specific installation kit. This compressor powered stationary air conditioner ensures you will really enjoy your well deserved breaks. It creates a pleasant climate in your cab, with cool and dehumidified air. Details on pages 40 – 43.

MAN installation kit
CA-EK-MAN1

WAECO PerfectView CAM 40

Camera replaces mirror

Compact ball camera + flat LCD monitor = perfect front view. Approved to 2003/97/EC (mirror directive). Details on pages 108 – 111.

Designed under a good star
Specials for Mercedes-Benz Actros

WAECO CoolMatic CS-MP2

Concealed cooling

This tailor-made compressor cooler for the Actros 2 and 3 works quietly in the background. Its place is in the drawer under the driver's bed. The interior light reveals an inviting, roomy interior with a capacity of 25 litres. Top cooling performance, minimal power consumption. Details on page 54.

WAECO CoolAir SP 900

Perfect climate while stationary

Purpose-designed for stationary use and easy to fit to the rear wall of the cabin with the vehicle-specific fastening frame. The split air conditioner is ideal for vehicles where a roof system cannot be fitted because it would make the vehicle too tall, or because the cabin already has a roof-mounted structure. Details on pages 44 – 47.
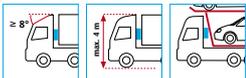
Mercedes-Benz
fastening frame
MB1 SP 900

WAECO CoolAir CA 800

Like a blessing from above …

… in this case from the jets of your compressor roof air conditioner. The refreshing air jet creates a pleasant climate in your cabin and gives you a restful break. Specially designed for stationary use and fitted in no time at all. Thanks to the vehicle-specific installation kit the CoolAir CA 800 integrates harmoniously in the roof lining. Details on pages 40 – 43.

Mercedes-Benz
installation kits
CA-EK-MB1, CA-EK-MB2

WAECO PerfectView CAM 40

Premium perspective

The combination of front camera and LCD monitor is better than a front mirror. Approved according to 2003/97/EC. Read up on pages 108 – 111 why investing in that much safety is so important.

Contents, specifications and availability are subject to change serving the technical improvement.

22 – 23

German-French teamwork

WAECO technology for Magnum and Premium

## **WAECO** CoolMatic CD-30

Cooling capacity disguised …

… very elegantly below the driver's bed. The CD-30 compressor drawer fridge neatly fits the storage space underneath. Convenient one-hand access from the driver or passenger seats. Continuous temperature regulation from +12°C to −2°C. Perfect finish with stainless steel installation frame (optional). Details on page 52.

WAECO CoolAir SP 900

Climate control at the rear wall

Your cabin is too tall or too steep for a roof air conditioner? Or it's already fitted with a roof superstructure? That makes the WAECO split air conditioner the perfect solution. Conceived for stationary use it makes for a restful break. Easy installation with vehicle-specific fastening frames. Details on pages 44 – 47.
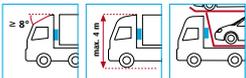
Renault
fastening frames
REN1 SP900
REN2 SP900

WAECO CoolAir CA 800

Rest in a Renault

This roof-mounted compressor air conditioner makes your rest perfectly comfortable when you stop by the road. Driver and passenger enjoy pleasant temperatures and dehumidified air. Installation is quick and easy with the vehicle-specific kit. For Renault Magnum and Premium Route (Long Cab). Details on pages 40 – 43.

Renault installation kits
CA-EK-REN1, CA-EK-REN2

WAECO PerfectView CAM 40

A watchful eye

Better than a front mirror: the ball camera fitted on the windscreen, combined with the LCD monitor in the cockpit gives you a perfect overview at the front. Approved to 2003/97/EC (mirror directive). Details on pages 108 – 111.

www.dometic-waeco.com

Contents, specifications and availability are subject to change serving the technical improvement.

The cool Scania collection
New and good old solutions for Swedish power guys

## WAECO CoolMatic CS-SC

Cooler / freezer combo for Scania R

Home-like cooling comfort: 26 litres for refrigeration, 11 litres for deep-freezing up to –12°C. All this in two separate drawer sections, easily accessible from either seat. Most likely, this offer will make Scania R drivers glad to part with their under-bed storage drawer. Especially nice to have at night: the LED interior light. Details on page 55.

WAECO CoolAir SP 900

Split to fit

Why go without the comforts of climate control just because the cabin is too tall or too steep for a roof-mounted air conditioner, or because it already has a roof superstructure? This stationary air conditioner consists of two split components which are fitted to the inside and outside rear wall. Details on pages 44 – 47.
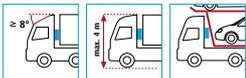
Scania fastening frame SCAN1 SP 900

WAECO CoolAir CA 800

Roof air conditioner replaces window

The engine is off, the windows are closed, you are having a break. The CA 800 takes over from the vehicle air conditioning, keeps the temperature at a pleasant level, dehumidifies the air. Easy and elegant installation in your Scania with the vehicle-specific installation kit.
Details on pages 40 – 43.

Scania installation kit CA-EK-SCAN1

WAECO PerfectView CAM 40

Far better than any mirror!

Compact ball camera + flat LCD monitor = perfect front view. Approved to 2003/97/EC (mirror directive). Details on pages 108 – 111.

Volvo convenience
WAECO improves comfort on board

WAECO PerfectView CAM 40

Camera replaces mirror

The best answer to the 2003/97/EC mirror directive: PerfectView front camera + LCD monitor. The camera's ball shape enlarges your field of vision, and a high-grade sensor delivers brilliant pictures even when light conditions are bad. Details on pages 108 – 111.

WAECO CoolMatic RHD-50

Heavy-duty champion

This 50-litre fridge really can take a lot. High-quality materials and workmanship make the RHD-50 fit for the rigours of mobile use. Its place is in the exterior storage compartment of your Volvo FH (from year 2002). Safe and easy to fit with a custom-built mounting plate. Details on page 53.

WAECO CoolAir CA 800

Feeling well in all weathers

This stationary roof air conditioner creates a pleasant climate in the cabin. The ideal complement to your vehicle's A/C! Easy to install and a neat finish with the specific installation kit for the FH L2H3 (Globetrotter XL).
Details on pages 40 – 43.

Volvo installation kit
CA-EK-VOLV2

WAECO CoolAir CA 850S

Custom fit for FH L2H2 (Globetrotter)

Cools and dehumidifies the air – and creates a pleasant climate in the cabin. Operation with all windows closed – good for keeping burglars away. Fast installation and a neat finish thanks to the vehicle-specific concept.
Details on pages 36 – 39.

NEW

Volvo
installation kit

WAECO CoolAir SP 900

Perfect climate in two components

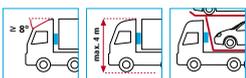The two components of the WAECO split air conditioner are simply fitted to the inside and outside rear wall of the cabin. Optimal temperature conditions while stationary – also in vehicles fitted with e.g. a roof superstructure.
Details on pages 44 – 47.

Volvo fastening frame
VOLV1 SP 900

Contents, specifications and availability are subject to change serving the technical improvement.

26 – 27

WAECO
by Dometic GROUP

Adding the finishing touch to your van
Comfort and safety accessories for delivery vehicles

WAECO PerfectView RVS 550

Camera replaces mirror

More comfort and safety while reversing! The RVS 550 reversing video system offers great value for little money: a heated colour camera with a SONY picture sensor and a 120° range of vision, a microphone plus infrared LED for enhanced night-time vision. The 5" colour monitor delights with a cool design and a brilliant LCD flat screen. Details on pages 96 – 97.

NEW

WAECO MagicSpeed MS 900

Choose your own speed

Retrofitted in under one hour: cruise control for vans with comfort CAN bus system and electronic accelerator. Vehicle-specific cable sets make for easy installation. No soldering, no crimping, just plug and play!
Details on pages 132 – 133.

WAECO MagicWatch MW 2500

Wireless parking aid with mounting profiles

Safe parking with just two hours installation time required: the sensors of this parking aid are integrated in mounting profiles which can also be attached to the twin rear doors of a van. No need to lay cables across the length of the vehicle – the signals are transmitted by a radio link! Details on page 129.

The receiver is firmly installed in the vehicle's cockpit.

Easy installation of the two mounting profiles on the rear bumper or on the rear door(s).
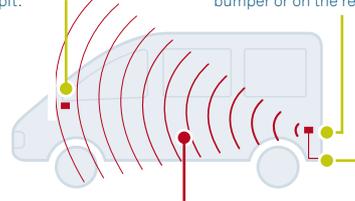
Wireless signal transmission from the base unit to the receiver.

WAECO MagicWatch MWE 900

Parking aid for tricky installation conditions

The smallest sensors available make this system so great. With their help it will easily fit in tight spaces. More advantages: variable stop line, PPS Parameter Programming System, certification according to ISO 17386.
Details on pages 126 – 127.

Competitor	WAECO
⌀ 35 mm	⌀ 18 mm

* Scaled-down view, 50% of the original size

WAECO TropiCool TC-21FL

Thermoelectrics for professionals

Cooling performance up to 30°C below ambient temperature, additional heating function, 12 / 24 and 230 volts as standard. The super-compact 21-litre cooler fits even in tight cabins and can be permanently installed by means of a fixing kit. Details on page 76.

Universal fixing kit for TropiCool series

Mobile
climate solutions

Have a restful break!

Perfect climate "on the spot"

Rest in comfort – arrive in safety

Sitting in a cool cabin while driving is standard nowadays. During the resting periods, though, many drivers still have to choose between two evils: swelter in an overheated cab, or illegally run the engine. Fortunately, there's a better alternative: **WAECO CoolAir stationary air conditioners** create perfect conditions for drivers to **have a restful break** and **continue the journey safely and with full concentration.**

The roof air conditioners CoolAir CA 800 and CA 850S as well as the CoolAir SP 900 split system have been specifically designed for stationary operation in trucks – not as a substitute but as a complement to the factory-fitted air conditioner. Taking over where the vehicle A/C has left off, they maintain a pleasant temperature inside the cabin and, what's more, dehumidify the air. They prevent excessive heat-up during the day, and create an optimal sleeping temperature at night time.

The benefits at a glance

› **Restful breaks:**
comfortable temperatures, dehumidified air

› **Less accidents:**
Relaxed drivers are concentrated drivers; effective resting periods prevent nodding off at the wheel.

› **Reduced fuel consumption:**
engine is not running during the resting periods

› **Vehicle-specific installation accessories:**
fast and easy installation,
100% clean removal

Which CoolAir air conditioner fits which type of vehicle? It's not merely a matter of taste but depends on the design of the truck you have. The model comparison below makes the decision easy.

WAECO CoolAir CA 800

Truck **roof air conditioner**
for stationary operation

WAECO CoolAir CA 850S

Truck **roof air conditioner**
for stationary operation

NEW

WAECO CoolAir SP 900

Truck **split air conditioner**
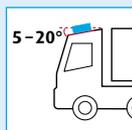for stationary operation

Cools and dehumidifies the air when the engine is turned off | Powered by the vehicle battery
Hermetically sealed system, maintenance-free | High-performance compressor technology
Vehicle-specific installation kits and fastening frames for many types of trucks

≤ 8°

5 – 20°

≥ 8°   max. 4 m
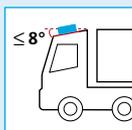
Suitable for trucks with or without roof window

ADR-approved (certificate upon request). No refitting needed!

Please note maximum height including CA 800

Maximum roof pitch: 8°

Hassle-free removal when vehicle-specific installation kits are used

For cabins with a front roof pitch of 5 – 20° (Iveco Stralis AS, AS³, AT (high-roof cab))

For cabins with small roof window (Volvo L2H2 (Globetrotter))

ADR-approved (certificate upon request). No refitting needed!

Hassle-free removal when vehicle-specific installation kits are used

Ideal for trucks where a roof-mounted unit would mean exceeding the maximum permissible height

For trucks with a roof pitch of over 8°

For trucks with roof-mounted structures (e.g. car transporters)

Cooling capacity 800 watts
(rated to ISO 5151)

Cooling capacity 850 watts
(rated to ISO 5151)

Cooling capacity 900 watts
(rated to ISO 5151)

Fitted on the roof
(in place of a roof window)

Fitted on the roof
(in place of a roof window)

Fitted to the rear wall
of the driver's cabin

Contents, specifications and availability are subject to change serving the technical improvement.

32 – 33

WAECO CoolAir

Customised climate control for every truck
Roof and split air conditioners for all mounting conditions

A compact air conditioner on the roof or a split system on the rear of the cabin – WAECO offers custom-fit stationary climate control solutions for just about every mounting situation, all complete with vehicle-specific installation accessories. **Now, there is even a solution to "special cases"** such as cabins with larger roof pitches or small roof windows: **the new, super-flat roof air conditioner WAECO CoolAir CA 850S.**

All WAECO CoolAir stationary air conditioners feature high-performance, low-maintenance **compressor technology**. They run on power from the 24-volt vehicle battery without straining it. The automatic low-voltage protection ensures hassle-free starting of the engine at all times. CoolAir air conditioners are recirculating air systems and **work with the windows closed**. That keeps the fresh air in – and burglars out.

Superior compressor technology

CoolAir CA 800, CA 850S and SP 900 truck air conditioners owe their performance to the perfect interaction between their compressor and state-of-the-art control electronics. A key advantage over evaporation systems is that compressor powered air conditioners give full performance even at higher air humidity. Yet another difference: they require minimal maintenance. With WAECO compressor air conditioners, there's no need to clean water tanks, and no need to fill up with water either.

Contents, specifications and availability are subject to change serving the technical improvement.

Take your pick
Which CoolAir fits which truck?

WAECO CoolAir stationary air conditioners are available in many vehicle-specific versions, for all common types of trucks. The table below tells you which system and which installation accessories will fit your driver's cab.

Vehicle model			CA 800	CA 850S	SP 900
DAF	XF95	Super Space Cab	●		●
		Space Cab	●		●
	XF105	Super Space Cab	●		●
		Space Cab	●		●
	CF	Space Cab			●
		Sleeper Cab			●
		Day Cab			●
	LF55	Sleeper Cab			●
		Day Cab			●
	LF45	Sleeper Cab			●
		Day Cab			●
IVECO	Stralis	Active Space		●	●
		Active Space³		●	●
		Active Time		●	●
		Active Day			●
	Trakker	Active Time			●
		Active Day			●
	Eurocargo	Active Time			●
		Active Day			●
MAN	TGX	XXL	●		●
		XLX			●
		LX	●		●
	TGS	LX	●		●
		L			●
		M			●
	TGA	XXL	●		●
		XLX	●		●
		LX	●		●
		XL	●		●
		L			●
		M			●
	TGL	LX			●

Vehicle model			CA 800	CA 850S	SP 900
MAN		L			●
		C			●
		Twin Cab / Doka			●
	TGM	LX			●
		L			●
		C			●
		Twin Cab / Doka			●
MERCEDES	Actros	Mega Space	●		●
		L-cabin	●		●
		M-cabin			●
		S-cabin			●
		Transporter cab			●
	Axor	L-cabin	●		●
		S-cabin			●
	Atego	L-cabin	●		●
		S-cabin			●
RENAULT	Magnum	Long cabin	●		●
	Premium	Long cabin	●		●
		Short cabin			●
SCANIA	R	Topline	●		●
		Highline	●		●
		L	●		●
		N	●		●
	G	N	●		●
		L			●
VOLVO	FH	L2H3 (Globetrotter XL)	●		●
		L2H2 (Globetrotter)		●	●
		L2H1 (Long cabin)	●		●

High performance, minimal maintenance:
Compressor power for a comfortable climate

Works with all windows closed:
no cooling loss, minimal risk of theft

Ease of use –
low strain on the vehicle battery

Contents, specifications and availability are subject to change serving the technical improvement.

34 – 35

WAECO CoolAir CA

Tailor-made for Iveco Stralis and Volvo

CoolAir CA 850S for roof mounting

NEW
Roof air conditioner for special cases

Here's one that works where others won't: the new WAECO CoolAir CA 850S takes many a hurdle that had formerly made installation of a roof air conditioner impossible. On Iveco Stralis AS, AS³, AT high-roof cabins it "bridges" the roof pitch with its inclined fitted compressor. The tight roof window in the Volvo L2H2 (Globetrotter) is no problem either for the newcomer to the WAECO CoolAir team. Installation is quick and easy with the vehicle-specific cover frame supplied with each unit.

New Design – well proven technology

> Tailor-made roof air conditioners for Iveco Stralis and Volvo

> Elegant design – flat and aerodynamic

> Well proven technology – based on the CoolAir CA 800 concept

> Fast installation, perfect finish with vehicle-specific cover frames

Upper shell can be spray-painted at a later time

Thought out in every detail

The product advantages of the CoolAir CA 850S
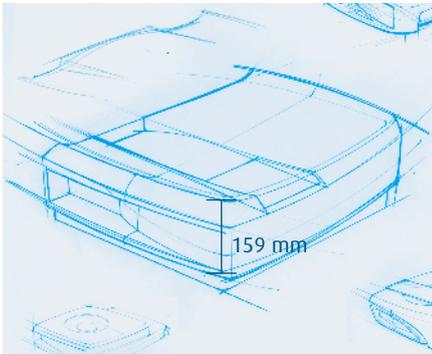
Elegant design

Perfectly done – as if cast from one mould: the flat, streamlined contours of the CoolAir CA 850S blend harmoniously with the aerodynamic design of modern-day truck cabins. Complex components, such as the base support of the compact unit, are injection moulded for stability and an elegant finish. The UV-resistant upper shell can be spray-painted in the vehicle colour. High-grade materials and noble surface textures lend the cabin a contemporary look of unique quality and value.
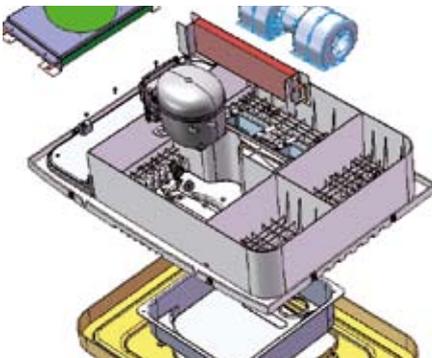
Well proven WAECO technology

The compressor powered refrigeration system of the CoolAir CA 850S creates a pleasant temperature and simultaneously dehumidifies the air in the cabin. Compared to evaporation systems it offers two key advantages. First, the compressor gives full performance even at higher air humidity. Second, the hermetic system is virtually maintenance-free. The automatic low-voltage protection keeps the battery ready to start the engine.

Fast installation – air conditioner replaces roof window

Insert and connect the unit, fit the cover frame, that's all! Tight roof windows or front roof pitches of 5 – 20° are no problem whatsoever. Many design based arguments against fitting a roof air conditioner are now resolved. The CoolAir CA 850S offers a tailor-made solution – including a vehicle-specific cover frame. During installation the vehicle's existing fastening points are used, there's no need to drill new holes – a typical CoolAir advantage that cuts installation times and allows spotless removal.

Perfect looks – ease of use

Bespoke work: the custom-fit cover frame of the CoolAir CA 850S flows seamlessly into the roof lining, very much like a factory-fitted original. The four air nozzles are easy to adjust – by touching a button on the self-explanatory operating panel, or conveniently from the driver's bed using the remote control supplied as standard with each WAECO CoolAir stationary air conditioner.

New: roof A/C specials

› For cabins with a front roof pitch of 5 – 20°
  or a smaller roof window

› Outstanding cooling performance

› **ADR-approved (certificate upon request).
  No refitting needed!**

› Operation with the windows closed –
  no cooling loss, minimised risk of theft

› Hygienic, hermetically sealed system –
  no need to fill up with water or refrigerant

› Vehicle-specific cover frame as standard

Custom-fit roof air conditioners
CoolAir CA 850S for Iveco Stralis and Volvo

Sloped cabin roof? Tight roof window? – No hurdles whatsoever with the CoolAir CA 850S! WAECO's new roof air conditioner is available in various versions to fit specific vehicles: Iveco Stralis AS, AS³, AT (high-roof cab) as well as Volvo L2H2 (Globetrotter).

Iveco	Stralis*

CA 850S installation kit for:
Iveco Stralis AS, AS³, AT (high-roof cab)*

*current model

Volvo	L2H2 (Globetrotter)*

CA 850S installation kit for:
Volvo L2H2 (Globetrotter)*

*current model

WAECO CoolAir CA 850S

2.09

Roof air conditioners for special cabin designs, 24-volt stationary air conditioning (mobile use possible)

CA 850S, white

Voltage	24 volts DC
Average current consumption	12 – 22 A
Cooling capacity	1000 watts (compressor capacity) 850 watts (rated to ISO 5151 standards)
Refrigerant	R134a
System	Rotary compressor for mobile use, soft-start electronics, adjustable low-voltage protection for vehicle battery, three blower levels and automatic mode, hermetically sealed refrigeration circuit
Dimensions (W x H x D)	CA 850S without seal: 830 x 159 x 635 mm Height from roof top: 165 mm (Iveco Stralis AS, AT); 187 mm (Iveco Stralis AS³); 179 mm (Volvo L2H2 (Globetrotter))
Weight	approx. 21 kg
Colour	Upper shell: white Base support: slate-grey
Quality features	UV-resistant, upper shell can be spray-painted, control panel with digital status readout, remote control, four individually adjustable nozzles, made in Germany
Test mark	e-approved to 2006/28/EC (Automotive EMC Directive)

Scope of delivery: stationary air conditioner, cover frame, remote control, connection cable, seals, installation fittings, installation and operating instructions

Product	Ref. No.
CoolAir CA 850S for Iveco Stralis AS, AT (high-roof cab)*	9100100024
CoolAir CA 850S for Volvo L2H2*	9100100025
CoolAir CA 850S for Iveco Stralis AS³ (high-roof cab)*	9100100026

Optional extras

Protective cover CA 850S	9100300025
Battery connection cable, 8 mm², 9.5 m long, for vehicles with power management system**	9100300027

* current model
** included in scope of delivery for Iveco Stralis

159 mm
635 mm
830 mm

NEW

Elegant, high-quality design

Just 159 mm high

Outstanding cooling performance plus air dehumidification

Can also be used while driving in addition to the factory-fitted air conditioner

Minimised theft risk: works with all windows closed

Upper shell can be spray-painted at a later time

Supplied with vehicle-specific cover frame

Specifically designed for cabins with a front roof pitch of 5 – 20° or narrow roof window

Suitable for dangerous goods vehicles of all ADR classes

Made in Germany

Remote control

ON / OFF
Temperature set buttons
Operation mode buttons

Operating panel: functional and easy to use

1. ON / OFF switch
2. LED red: warning indicator
3. LED green: unit in operation
4. LED yellow: compressor in operation
5. Operation mode setting
6. Digital status readout
7. Temperature set buttons

Final finishing touches: fitting the new roof air conditioner

Custom-made for Iveco Stralis: the CA 850S replaces the roof window

An inviting interior: high-grade materials, noble surfaces

Contents, specifications and availability are subject to change serving the technical improvement.

38 – 39

WAECO CoolAir CA

Bestseller

› Outstanding cooling performance

› Pleasant temperature and dehumidified air

› Operation with the windows closed – no cooling loss, minimised risk of theft

› Hygienic, hermetically sealed system – no need to fill up with water or refrigerant

ADR-approved

Top in technology and design
CoolAir CA 800 for roof mounting

A great success right from the start. More and more truckers opt for this smart compressor roof air conditioner to enjoy perfect climate conditions in the cabin while stationary. The ADR-compliant unit is available in white and silver finish. Installation is quick and easy with the vehicle-specific installation kits.

Plus factor: fast and hassle-free installation

Preparation:
removal of the existing roof window

Fits like a custom-made unit:
the CA 800 replaces the roof window

Use existing mounting holes
when fitting the new roof air conditioner

Ease of use: touch-button climate control

A touch of a button on the self-explanatory operating panel is enough to set the temperature and fan stage.

A comfortable climate by remote control – at perfect ease from the driver's bed!

Gentle or powerful – the air flow from four individually adjustable nozzles

WAECO CoolAir CA 800

2.09

Roof air conditioner for trucks, 24-volt stationary air conditioning (mobile use possible)

CA 800, pale silver

CA 800, white

Vehicle-specific cover frame

Optional protective cover

Voltage	24 volts DC
Average current consumption	12 – 18 A
Cooling capacity	1000 watts (compressor capacity) 800 watts (rated to ISO 5151 standards)
Refrigerant	R134a
System	Rotary compressor for mobile use, soft-start electronics, adjustable low-voltage protection for vehicle battery, three blower levels and automatic mode. Circular fin evaporator with radial fan, circular fin condenser with axial fan. Hermetically sealed refrigeration circuit.
Dimensions (W x H x D)	Roof unit: 565 x (195 – 222)* x 690 mm * Height from roof top: depending on the vehicle model
Weight	approx. 20 kg (without mounting plate)
Colour	CA-0800-DC: pale silver CA-0800-DC-W: white (similar to RAL 9010)
Quality features	Control panel with digital status readout, four individually adjustable nozzles, made in Germany
Test mark	e-approved to 2006/28/EC (Automotive EMC Directive)

Scope of delivery: roof air conditioner, remote control, battery cable, operating instructions

Product	Ref. No.
CoolAir CA 800, pale silver	CA-0800-DC
CoolAir CA 800, white	CA-0800-DC-W
Optional extra Universal protective cover	CA-SH1

Required accessories
Mounting plate (except UNI2), seals, cover frame, fitting material and installation instruction

CA 800 universal installation kit (existing roof window)[1]	CA-EK-UNI1
CA 800 universal installation kit (newly cut opening)[1]	CA-EK-UNI2
CA 800 universal installation kit (screw-mount roof window)[1]	CA-EK-UNI3
CA 800 installation kit for DAF Super Space Cab XF95*	CA-EK-DAF1
CA 800 installation kit for DAF Super Space Cab XF105*	CA-EK-DAF2
CA 800 installation kit for DAF Space Cab XF105*	CA-EK-DAF3
CA 800 installation kit for MAN TGA (XL, XXL), TGX (XL, XXL) and TGM*	CA-EK-MAN1
CA 800 installation kit for Mercedes-Benz Actros (Megaspace and L-Cab)*	CA-EK-MB1
CA 800 installation kit for Mercedes-Benz Atego (L-cab, high roof)*	CA-EK-MB2
CA 800 installation kit for Renault Magnum*	CA-EK-REN1
CA 800 installation kit for Renault Premium Route*	CA-EK-REN2
CA 800 installation kit for Scania Highline, Topline and CR19N*	CA-EK-SCAN1
CA 800 installation kit for Volvo L2H3 (Globetrotter XL)**	CA-EK-VOLV2

[1] Don't forget to order the WAECO specification sheet to check the mounting conditions!
* applicable for current models
** also replaces CA-EK-VOLV1

Outstanding cooling performance plus air dehumidification

Minimised theft risk: works with all windows closed

Can also be used while driving in addition to the factory-fitted air conditioner

Suitable for dangerous goods vehicles of all ADR classes

Two colours to choose from: white (similar to RAL 9010) or silver

Upper shell can be spray-painted at a later time

Easy to fit with vehicle-specific accessories

Universal installation kits for many common types of trucks. Request WAECO specs sheet to check mounting conditions!

Made in Germany

195 up to 222 mm

290 mm | 400 mm
690 mm

565 mm

Remote control

ON / OFF

Temperature set buttons

Operation mode buttons

Operating panel: functional and easy to use

A 20 °C

1. ON / OFF switch
2. LED red: warning indicator
3. LED green: unit in operation
4. LED yellow: compressor in operation
5. Operation mode setting
6. Digital status readout
7. Temperature set buttons
8. Infrared receiver

Contents, specifications and availability are subject to change serving the technical improvement.

40 – 41

WAECO CoolAir CA

Installation kits for either truck

Perfect installation results

Vehicle-specific and universal installation kits

A neat finish, inside and out. Fitting this compact, self-contained roof air conditioner requires little time and effort thanks to the vehicle-specific installation kits we offer for many common types of trucks. Everything has been designed to fit the vehicle, existing mounting holes are used, the cover plate blends harmoniously with the roof lining.

Just so that nobody has to go without the CA 800, the range also includes three **universal installation kits** – for vehicles with and without roof opening, for bracket or screw mounting.

DAF	XF-Series

CA-EK-DAF1 for:
DAF XF95,
Super Space Cab

CA-EK-DAF2 for:
DAF XF105,
Super Space Cab

CA-EK-DAF3 for:
DAF XF105,
Space Cab

MAN	TGA / TGX / TGM / TGL

CA-EK-MAN1 for:
MAN TGA XL, MAN TGA XXL,
MAN TGX XL, MAN TGX XXL,
MAN TGM LX,
MAN TGL LX

www.dometic-waeco.com

Contents, specifications and availability are subject to change serving the technical improvement.

Mercedes-Benz — Actros / Atego

CA-EK-MB1 for:
MB Actros Megaspace,
power sliding roof
MB Actros L-cab,
high roof / normal roof

CA-EK-MB2 for:
MB Atego L-cab,
high roof

CA-EK-UNI3 for:
MB Actros Megaspace,
manual sliding roof

Renault — Magnum / Premium

CA-EK-REN1 for:
Renault Magnum

CA-EK-REN2 for:
Renault Premium Route, Long Cab

Scania — R-Series / P-Series

CA-EK-SCAN1 for Scania types:
CR19 Highline, CR19 Topline, CR19N, CR19L,
CP14, CP16, CP19N and CP19L

Volvo — FH-Series

CA-EK-VOLV2 for:
Volvo cab L2H3 (Globetrotter XL)
FH 16, FH 13 and FH 12 from year 2009

Universal installation kits
for trucks with or without roof window

Naturally, other utility vehicles (e.g. older trucks) can be equipped with the CA 800 as well. Three universal installation kits are available to this end.

For trucks with a roof window, use the CA-EK-UNI1 (bracket mounting) or the CA-EK-UNI3 (screw mounting). Handy detail: the compensation plate of the CA-EK-UNI3 installation kit has the same hole pattern as that used for fastening of most commonly used roof windows.

If an opening must be cut to accommodate the air conditioner, the CA-EK-UNI2 installation kit is the right choice. All installation kits come with ample material to allow for perfect adaptation to the roof lining.

Do you have any questions as to the technology of the CoolAir CA 800 or the installation options available? Our team of technical experts are always there for you, ready to find answers to your problems and provide extensive product information.

Please contact the Dometic WAECO representation in your country.

CA-EK-UNI1 for
vehicles with roof window

CA-EK-UNI2 for
vehicles without
factory-fitted
roof window

CA-EK-UNI3 for
trucks of the following makes:
MB, MAN, Renault,
Volvo (not L2H2)

Contents, specifications and availability are subject to change serving the technical improvement.

42 – 43

WAECO CoolAir SP

Condenser unit

Evaporator unit

Split air conditioner for rear wall mounting

› Outstanding cooling performance

› Pleasant temperature and dehumidified air

› Operation with the windows closed – no cooling loss, minimised risk of theft

› Hygienic, hermetically sealed system – no need to fill up with water or refrigerant

Also for tricky mounting conditions

A pleasant climate to suit all needs

Split components – fitted in a trice

The CoolAir SP 900 consists of two separate components to be fitted to the rear wall of the cab – the condenser outside, the evaporator inside. To speed up installation the system comes with a factory-precharged refrigerant circuit as well as with optional fastening frames for the condenser unit.

≥ 8°

max. 4 m
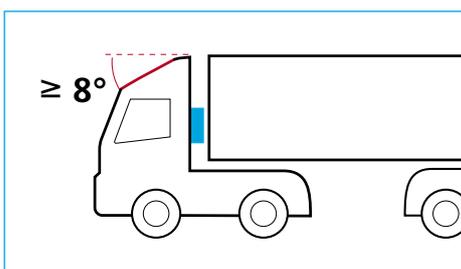
The SP 900 split system is ideal for trucks with a roof pitch of over 8° ...
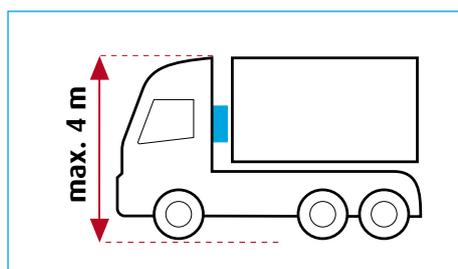
... for trucks where a roof-mounted unit would mean exceeding the maximum permissible height ...
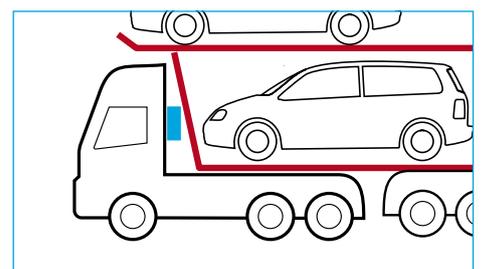
... for trucks with roof-mounted structures (e.g. car transporters)

Contents, specifications and availability are subject to change serving the technical improvement.

WAECO CoolAir SP 900

2.09

Split air conditioner for rear wall mounting on trucks, 24-volt stationary air conditioning (mobile use possible)

Condenser unit

Evaporator unit

Voltage	24 volts DC
Current consumption	8 – 18 A
Cooling capacity	950 watts (compressor capacity) 900 watts (rated to ISO 5151)
Refrigerant	R134a
System	Reciprocating compressor for mobile use, soft-start electronics, adjustable low-voltage protection for vehicle battery, three blower levels and automatic mode, timer mode. Quiet running cross-flow fan with two rotors. Hermetically sealed, factory-precharged refrigerant circuit.
Dimensions (W x H x D)	Condenser unit: 448 x 480 x 195 mm Evaporator unit: 677 x 306 x 134 mm
Weight	Condenser unit: approx. 16 kg Evaporator unit: approx. 5.9 kg
Colour	Signal grey
Quality features	Control panel with digital status readout, remote control, four individually adjustable nozzles, made in Germany
Test mark	e-approved to 2006/28/EC (Automotive EMC Directive)

Outstanding cooling performance plus air dehumidification

Minimised theft risk: works with all windows closed

Can also be used while driving in addition to the factory-fitted air conditioner

Factory-precharged refrigerant circuit

480 mm

448 mm · 195

306 mm

677 mm · 134

Scope of delivery: separate condenser and evaporator units, remote control, battery cable, operating and installation instructions, universal installation fittings

Product	Ref. No.
CoolAir SP 900	9100100002

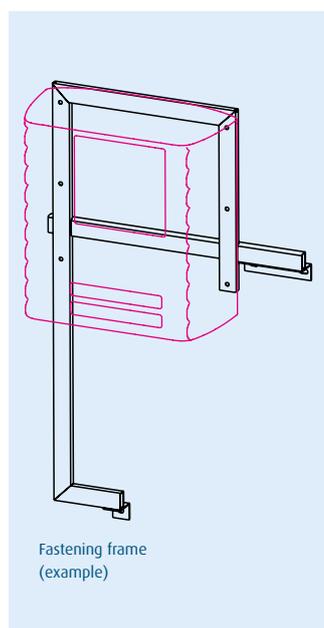**Made in Germany**

Operating panel: functional and easy to use

1. LED green: unit in operation
2. LED yellow: compressor ON
3. LED red: warning indicator
4. Temperature set buttons
5. ON / OFF switch
6. Digital status readout
7. Infrared receiver
8. Operation mode setting

WAECO CoolAir Accessories

2.09

Vehicle-specific SP 900 fastening frames (optional)

Product		Ref. No.
DAF1 SP 900	for DAF XF105	9100300022
IVEC1 SP 900	for Iveco Stralis Active Space (42 series)	9100300005
IVEC2 SP 900	for Iveco Stralis Active Space (43 series)	9100300014
MAN1 SP 900	for MAN TGA / TGX L, LX, XL	9100300006
MAN2 SP 900	for MAN TGA / TGX XLX, XXL	9100300007
MB1 SP 900	for Mercedes-Benz Actros Megaspace	9100300008
REN1 SP 900	for Renault Magnum	9100300010
REN2 SP 900	for Renault Premium	9100300011
SCAN1 SP 900	for Scania Highline / Topline	9100300012
VOLV1 SP 900	for Volvo FH L2H2, L2H3	9100300013

Fast and easy installation of the condenser unit with vehicle-specific fastening frame

WAECO offers vehicle-specific fastening frames for most common types of trucks. For the complete range please visit www.dometic-waeco.com

Fastening frame (example)

Contents, specifications and availability are subject to change serving the technical improvement.

44 – 45

Installation in record time

Vehicle-specific fastening frames for WAECO CoolAir SP 900
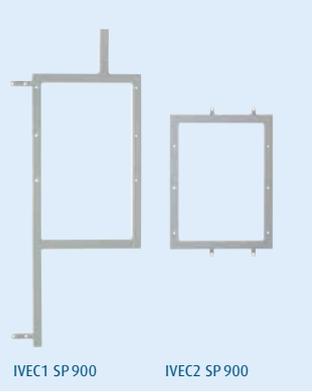
A typical WAECO CoolAir benefit: when fitting the SP 900 split system existing fastening points are used. In our case the mounting holes and bolts on the outside rear of the cabin. The fastening frame for the condenser unit perfectly matches the fastening pattern of the respective vehicle. The obvious advantages are: speedy installation, perfect finish, hassle-free dismantling and less drill holes. Naturally, the condenser can also be fitted without a fastening frame.
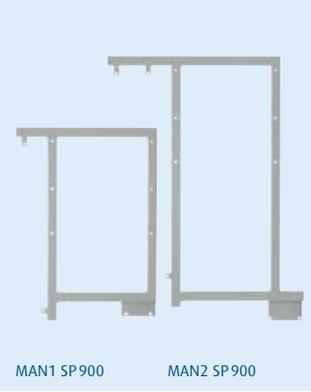
Extra bonus: unlike common practice with split air conditioners, the CoolAir SP 900 is supplied with a factory-precharged refrigerant circuit. That means one step less to do, installation is accomplished in record time.
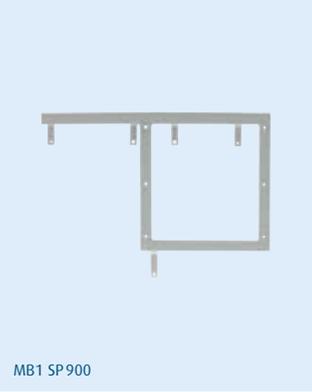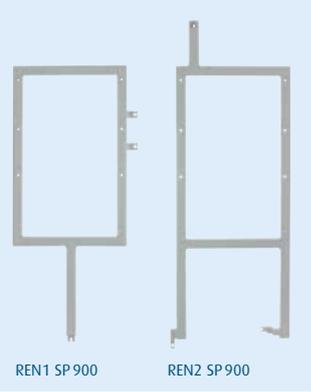

Quickly done: installation and connection of the condenser unit. The condenser fastening frame uses the vehicle's existing fastening points.
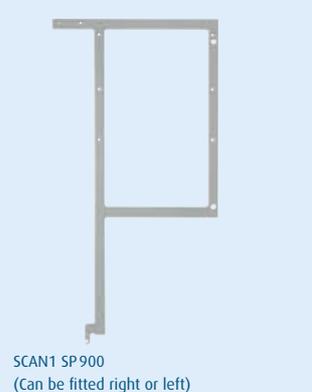

DAF   **XF105**

DAF1 SP 900

DAF1 SP 900
(Can be fitted right or left)

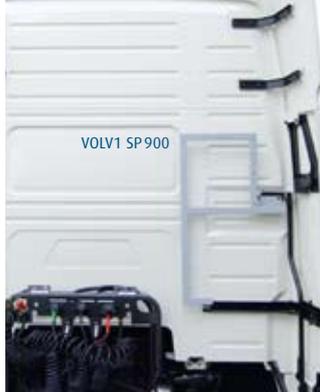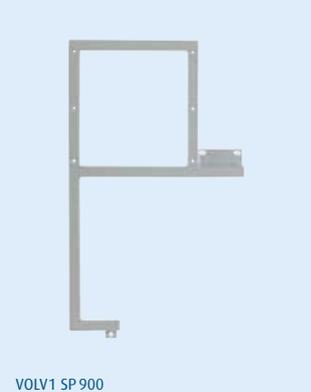| Fastening frame		Ref. No.
DAF1 SP 900	for DAF XF105	9100300022

Iveco — Stralis Active Space

IVEC1 SP 900

IVEC1 SP 900   IVEC2 SP 900

Fastening frame		Ref. No.
IVEC1 SP 900	for Iveco Stralis Active Space 42 series	9100300005
IVEC2 SP 900	for Iveco Stralis Active Space 43 series	9100300014

MAN — TGA / TGX

MAN2 SP 900

MAN1 SP 900   MAN2 SP 900

Fastening frame		Ref. No.
MAN1 SP 900	for MAN TGA / TGX L, LX, XL	9100300006
MAN2 SP 900	for MAN TGA / TGX XLX, XXL	9100300007

Mercedes-Benz — Actros

MB1 SP 900

MB1 SP 900

Fastening frame		Ref. No.
MB1 SP 900	for Mercedes-Benz Actros Megaspace	9100300008

Renault — Magnum / Premium

REN2 SP 900

REN1 SP 900   REN2 SP 900

Fastening frame		Ref. No.
REN1 SP 900	for Renault Magnum	9100300010
REN2 SP 900	for Renault Premium	9100300011

Scania — Highline / Topline

SCAN1 SP 900

SCAN1 SP 900
(Can be fitted right or left)

Fastening frame		Ref. No.
SCAN1 SP 900	für Scania Highline / Topline	9100300012

Volvo — FH-Series

VOLV1 SP 900

VOLV1 SP 900

Fastening frame		Ref. No.
VOLV1 SP 900	for Volvo FH L2H2, L2H3	9100300013

Mobile refrigeration

**CoolFreeze CF:
12 / 24 V DC +
100 – 240 V AC**

Compressor cooling
Powerful and durable

Even at extreme outside temperatures

Excellent cooling performance regardless of the ambient temperature, versatile use – these are the distinguishing features of a compressor cooler. Choose from a large and well-proven range that leaves nothing to be desired.

It extends from a drawer fridge for your storage compartment to vehicle-specific heavy-duty refrigerators, from a slim entry-level model to our high-tech coolers – all designed for mobile use and just as powerful as your fridge at home.

| **Most powerful and most durable cooling** in mobile and stationary use

| **Excellent cooling performance** even at extreme ambient temperatures

| **Suitable for deep-freezing**

| **Energy saving and superbly quiet operation**

| **Impeccable operation in inclined position**

| **Suitable for operation with a solar panel**

Compressor technology

Compressor cooling appliances work with a CFC-free refrigerant that changes from liquid to gas as it flows through the evaporator. In the process the evaporator extracts heat from the refrigeration compartment – it's getting cold. The compressor draws in the gaseous refrigerant, compresses it and passes it on to the condenser. Here, the absorbed heat is released to the atmosphere. The refrigerant changes to the original liquid state and flows back to the evaporator, where the cycle starts again.

| **Excellent cooling performance even at extreme outside temperatures**
| **Minimal power consumption**
| **Refrigeration and deep-freezing** (CoolFreeze and CoolMatic CS-SC series)
| **Problem-free operation with 12 / 24 volts; CoolFreeze CF series also with 100 – 240 volts**
| **Integrated battery protection (CoolFreeze series)**
| **Ideal for solar operation (CoolFreeze series)**

Condenser

Dryer

Capillary tube

liquid

gaseous

Evaporator
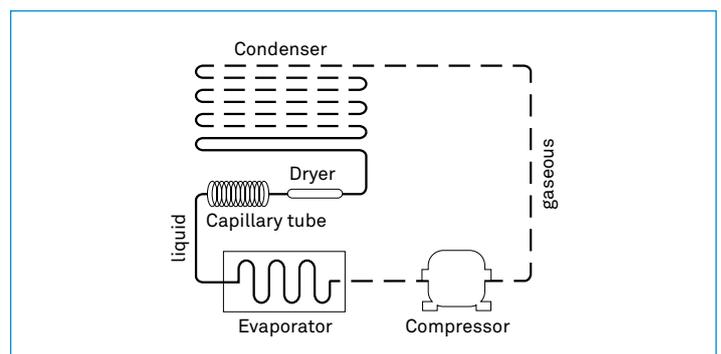
Compressor

Vehicle-specific compressor coolers

Individual cooling solutions for many common types of trucks. Custom-made for specific vehicles, fast and easy to retrofit with perfectly matching installation accessories. For use in storage compartments or between the seats. Sizes from 25 to 50 litres, connection to 12 / 24 volts DC.

WAECO CoolMatic

CoolMatic CD-30   **CoolMatic RHD-50**   **CoolMatic CS-MP2**   **CoolMatic CS-SC**

WAECO ColdMachine

WAECO CoolFreeze FT / FC

ColdMachine CS-IV   **CoolFreeze FT-30**   **CoolFreeze FC-30**   **CoolFreeze FC-40**

Compressor cooling at an entry-level price

Good quality at a good price, suitable for deep-freezing, and five powerful models to choose from now that another super-slim cooler has been added to the popular series. Sizes from 10.5 to 39 litres, connection to 12 / 24 volts DC.

WAECO CoolFreeze CDF

NEW

CoolFreeze CDF-11
New product!

CoolFreeze CDF-18
Value for money!

CoolFreeze CDF-25
Value for money!

CoolFreeze CDF-35
Top seller!

CoolFreeze CDF-45

Premium compressor coolers

The best choice for all mobile applications. Plenty of high-tech details, ready for use on all on-board and mains networks in the world. Refrigeration and deep-freezing, economical and quiet in operation. Sizes from 31 to 49 litres. Connection to 12 / 24 volts DC and 100 – 240 volts AC.

WAECO CoolFreeze CF

CoolFreeze CF-35   **CoolFreeze CF-40**   **CoolFreeze CF-50**

WAECO CoolMatic

Fridges to fit many trucks …

Fancy a quick refreshment? It's at your fingertips with WAECO CoolMatic CD-30, the ball bearing slide drawer fridge. A single movement and the drawer unlocks for convenient access to well chilled food and drinks. It turns **unutilised storage space** into a powerful fridge with 30 litres capacity. A **perfect and truly crash-proof refrigeration solution** for DAF XF, Renault Premium / Magnum, Volvo FH 2006 – and also for Scania R when using the vehicle-specific fixing kit. In each case the stainless steel installation frame ensures aesthetically pleasing finish.
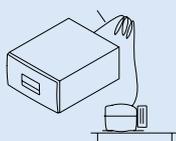
New front design

WAECO CoolMatic CD-30
4.10

Compressor drawer fridge for universal use

L = 1.5 m

Ideal in confined spaces: the cooling unit can be fitted separately

730
560
490

440
370
200
245
250

Gross capacity	approx. 30 litres
Voltage	12 / 24 volts DC
Average power input	approx. 40 watts
Average running time	20% at +20°C ambient temperature, 40% at +32°C ambient temperature, both at +5°C interior temperature
Temperature range	+12°C to −2°C
System	Fully hermetic Danfoss BD35F compressor with integrated control electronics, low-voltage protection for starter battery, electronic fuse / automatic reverse pole protection, dynamically ventilated wire tube condenser, aluminium rollbond evaporator, heat dissipation to the outside with brushless, wear-free fan
Material	Sturdy metal housing, drawer of injection-moulded parts
Colour	Black
Weight	approx. 18.0 kg
Quality features	Convenient access with easy-pull drawers running on ball bearing slides, temperature regulation with continuously variable thermostat, unlocking and opening with a single movement, safe locking mechanism. In confined spaces, the cooling unit can be fitted to the side of the cooler (left / right), or up to 1.5 metres away
Scope of delivery	Mounting bracket
Test marks	e-approved to 2006/28/EC (Automotive EMC Directive)

Product	Ref. No.
CoolMatic CD-30	CD-030DC

Temperature range +12°C to −2°C

For DAF XF, Renault Premium / Magnum, Scania, Volvo FH 2006

Flexible temperature regulation: continuously variable thermostat

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Accessories for CoolMatic CD-30
4.10

Installation frame / fixing kit

EST-0030

Product	Ref. No.
Stainless steel installation frame for CD-30, 4 parts	EST-0030
Fixing kit for CD-30 in Scania R (from year 2006)	FK-SCAR-N

Contents, specifications and availability are subject to change serving the technical improvement.

... easy to retrofit!

Heavy-duty champion: this **50-litre refrigerator** really can take a lot! High-quality materials and perfect workmanship make the **CoolMatic RHD-50** fit for extreme demands.
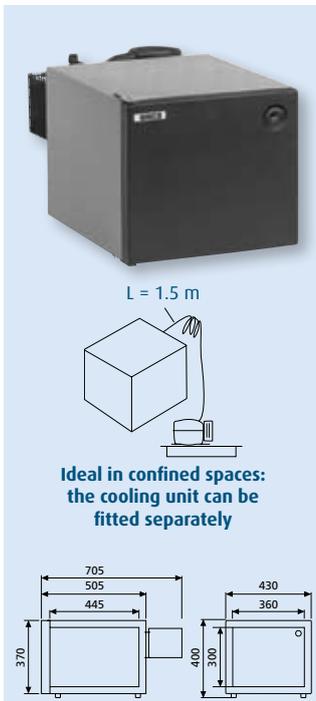
This fridge was designed for **permanent fitting**. A textbook example is the **Volvo FH**, where the RHD-50 slots seamlessly into the **exterior storage compartment**. Installation is safe and simple with the **custom-made mounting plate**.

WAECO CoolMatic RHD-50   4.05

Vehicle-specific compressor refrigerator for permanent fitting

L = 1.5 m

Ideal in confined spaces: the cooling unit can be fitted separately

705
505
445
370
430
360
400
300

Gross capacity	approx. 50 litres
Voltage	12 / 24 volts DC
Average power input	approx. 45 watts
Average running time	20% at +20°C ambient temperature, 40% at +32°C ambient temperature, both at +5°C interior temperature
Power consumption	Power input x average running time
Temperature range	Normal refrigeration +10°C to 0°C
Insulation	35 mm solid polyurethane
System	Fully hermetic Danfoss BD35F compressor with integrated control electronics, low-voltage protection, electronic fuse / automatic reverse pole protection, statically ventilated wire tube condenser, foamed aluminium rollbond evaporator (invisible), continuously variable thermostat
Material	Outside: coated sheet steel; inside: stainless steel; back panel: impact-resistant plastic
Colour	Cabinet: pale grey; back panel: white
Weight	21.0 kg
Quality features	Door with magnetic sealing and safely recessed opening grip. In confined spaces, the cooling unit can be fitted to the side of the cooler (left / right), or up to 1.5 metres away
Scope of delivery	Wire basket
Test marks	TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Product	Ref. No.
CoolMatic RHD-50	RHD-050

**Temperature range
+10°C to 0°C**

**50-litre capacity
for food and drinks**

**A perfect fit for
the Volvo FH**

**Mounting plate
for Volvo FH
as optional extra**

Accessory for CoolMatic RHD-50   4.05

Mounting plate for installation of CoolMatic RHD-50 in the exterior storage compartment of a Volvo FH

Material	Zinc-coated sheet steel

Product	Ref. No.
Mounting plate	FK-VTS

For easy installation

WAECO CoolMatic

Tailor-made for your Actros!

Cool convenience in Actros 2 and 3
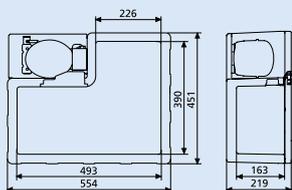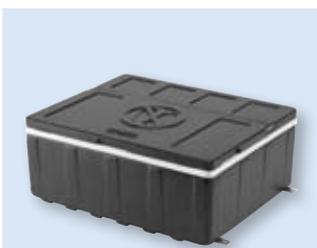
Compressor drawer fridge for Mercedes-Benz

This **custom-made compressor cooler for Actros 2 and 3** works quietly and inconspicuously in the background. More specifically speaking, its place is in the drawer under the driver's bed (L cabin or Megaspace cabin) – within convenient reach for the driver and the passenger. When you open its lid, the **integrated lighting** reveals an inviting, roomy interior with a generous **capacity of 25 litres**.

Its performance leaves nothing to be desired either. **Top cooling performance from +10°C to 0°C** regardless of the ambient temperature and **minimal power consumption** qualify the CoolMatic CS-MP2 as a typical compressor cooler which is quick and easy to install. Exclusively available from Dometic WAECO.

WAECO CoolMatic CS-MP2

4.12

Vehicle-specific compressor drawer fridge for permanent fitting in Mercedes-Benz Actros 2 and 3

Gross capacity	approx. 25 litres normal refrigeration
Voltage	12 / 24 volts DC
Average power input	approx. 45 watts
Average running time	30% at +20°C ambient temperature, 50% at +32°C ambient temperature, both at +5°C interior temperature
Power consumption	Power input x average running time
Temperature range	+10°C to 0°C
Insulation	25 mm solid polyurethane
System	Fully hermetic Danfoss BD35F compressor with integrated control electronics, low-voltage protection, electronic fuse / automatic reverse pole protection, dynamically ventilated wire tube condenser, tube coil evaporator foamed from behind, continuously variable thermostat with ON / OFF function
Material	Cabinet and lid: polystyrene
Colour	Outside: dark grey; inside: pale grey
Weight	12.5 kg
Quality features	Interior light
Test marks	e-approved to 2006/28/EC (Automotive EMC Directive)

Temperature range +10°C to 0°C

For Actros 2 and 3 (L cabin or Megaspace cabin)

Product	Ref. No.
CoolMatic CS-MP2	CS-ACT-MP2

Contents, specifications and availability are subject to change serving the technical improvement.

Home-like cooling comfort

Cooler / freezer combo for Scania R
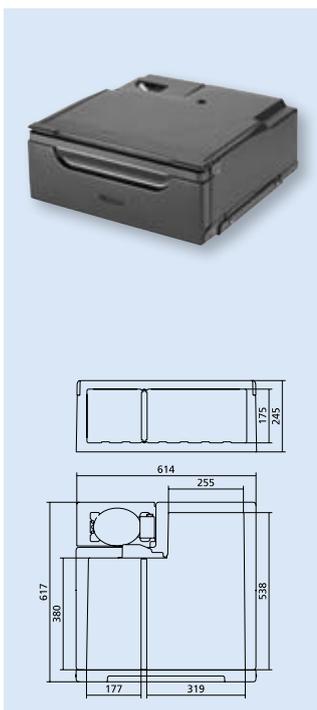
Tailor-made for your Scania!

26 litres for refrigeration, 11 litres for deep-freezing up to −12°C, regardless of the ambient temperature and at minimal power consumption. All this in a drawer with two separate sections, easily accessible from either seat. Particularly welcome at night time: **the LED interior light**.

This custom-made cooler / freezer combo provides **Scania R** drivers with home-like cooling comfort. Most likely, it will make them gladly part with the storage drawer under the bed. The conversion is quick and easy: release four screws, detach the storage compartment and replace it by the CoolMatic CS-SC. Exclusively available from Dometic WAECO.

WAECO CoolMatic CS-SC   4.12

Vehicle-specific compressor drawer fridge for permanent fitting in Scania R

Gross capacity	approx. 26 litres normal refrigeration approx. 11 litres deep-freezing
Voltage	24 volts DC (12 volts DC)
Average power input	approx. 45 watts
Average running time	30% at +20°C ambient temperature, 50% at +32°C ambient temperature, both at +5°C interior temperature
Power consumption	Power input x average running time
Temperature range	+10°C to −12°C
Insulation	25 mm solid polyurethane
System	Fully hermetic Danfoss BD35F compressor with integrated control electronics, low-voltage protection, electronic fuse / automatic reverse pole protection, dynamically ventilated wire tube condenser, tube coil evaporator foamed from behind, continuously variable thermostat
Material	Cabinet and lid: polystyrene
Colour	Outside: dark grey; inside: white
Weight	15.0 kg
Quality features	LED interior light, 2 separate drawers
Test marks	e-approved to 2006/28/EC (Automotive EMC Directive)

Temperature range +10°C to −12°C

For Scania R with long cabin

Product	Ref. No.
CoolMatic CS-SC	CS-SCA-R

Cold storage in the Iveco Stralis
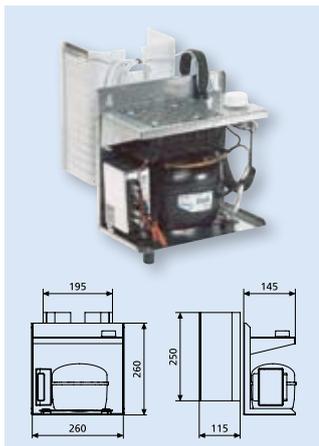## Below the bed and between the seats

Tailor-made for your Iveco!

Fresh ideas for Iveco Stralis: the square **CoolFreeze FT-30** is a perfect fit for the storage compartment below the bed. It offers **30 litres capacity for refrigerated or frozen food**. The **ColdMachine CS-IV compressor cooling unit** offers a cost-efficient way of converting the storage box between the seats into a fridge. Our tip: use the FT-30 as a freezer – and the cooling compartment in the cab for a quick refreshment during the drive.

WAECO ColdMachine CS-IV   4.07
Vehicle-specific compressor cooling unit for Iveco Stralis

Application	Retrofit compressor cooling unit; fits into the storage box of Iveco Stralis trucks
Voltage	12 / 24 volts DC
Average power input	approx. 35 watts
System	Fully hermetic Danfoss BD35F compressor with integrated control electronics, low-voltage protection adjustable for consumer or starter battery, electronic fuse, automatic reverse pole protection, dynamically ventilated wire tube condenser, aluminium rollbond evaporator, continuously variable thermostat
Weight	8.0 kg

A low-cost on-board fridge for Iveco Stralis drivers

Product	Ref. No.
ColdMachine CS-IV	CS-IV-01

WAECO CoolFreeze FT-30   4.12
Vehicle-specific compressor cooler

Gross capacity	approx. 30 litres
Voltage	12 / 24 volts DC
Average power input	45 watts
Average running time	18% at +20°C ambient temperature, 30% at +32°C ambient temperature, both at +5°C interior temperature
Colour	Body: grey, powder-coated; base, lid and upper part of the cabinet: black
Weight	18.0 kg
Quality features	Vertical space for 2-litre bottles
Optional extras	Fixing kit, wire basket
Other specifications	As for CoolFreeze FC-30 (p. 57)

Temperature range +5°C to −15°C

Well-proven square shape

Fits neatly into the storage compartment of the Iveco Stralis

Product	Ref. No.
CoolFreeze FT-30	FT-030/S
Optional extras	
Wire basket	W529.3
Universal fixing kit	W1440.ST

Space-saving trucker boxes

"Side entrance" saves space. Most truck cabins are just large enough to accommodate a cooler. Opening the unit, though, is often a problem. This is where our **CoolFreeze FC-30 and FC-40** trucker boxes come in. Their lid folds up sideways, it can also be detached. Compact outside, they offer a **generous 30- or 37-litre capacity for chilled and frozen food**. There's even room for tall 2-litre bottles stored upright.

Both models can be supplied with a **comprehensive range of accessories**: high-quality insulating protective covers, a wire basket to organise the contents (supplied as standard for the FC-40), fixing kits for a firm hold on the move.
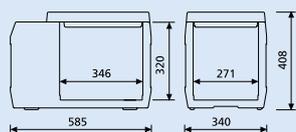
WAECO CoolFreeze FC-30 / FC-40
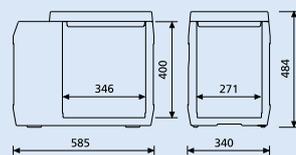Compressor coolers

4.12

FC-30

FC-40

	FC-30	FC-40
Gross capacity	approx. 30 litres	approx. 37.5 litres
Voltage	12 / 24 volts DC	
Average power input	approx. 45 watts	
Average running time	20% at +20°C ambient temperature, 30% at +32°C ambient temperature, both at +5°C interior temperature	23% at +20°C ambient temperature, 33% at +32°C ambient temperature,
Power consumption	Power input x average running time	
Temperature range	+5°C to −15°C	
Insulation	30 mm solid polyurethane	
System	Fully hermetic Danfoss BD35F compressor with integrated control electronics, low-voltage protection adjustable for consumer or starter battery by means of a slide switch, electronic fuse / automatic reverse-pole protection, statically ventilated wire tube condenser, aluminium rollbond evaporator, continuously variable thermostat	
Material	Body: sheet steel; base, lid and upper part of the cabinet: embossed plastic (polystyrene)	
Colour	Body: pale grey, powder-coated; lid and upper part of the cabinet: grey	
Weight	16.0 kg	18.0 kg
Quality features	Vertical space for 2-litre bottles	Vertical space for 2-litre bottles, wire basket
Scope of delivery	DC connection cable	
Test marks	e-approved to 2006/28/EC (Automotive EMC Directive)	

346 320 271 408
585 340

346 400 271 484
585 340

Product	Ref. No.
CoolFreeze FC-30	FC-030/G
CoolFreeze FC-40	FC-040/G
Optional extras	
Wire basket for FC-30	W529.3
Protective cover for FC-30	IC-FF30
Protective cover for FC-40	IC-FF40
Universal fixing kit	W1440.ST
Fixing kit Scania S4 for FC-30	W2950.ST
Mains adapter 230 V › 24 V	EPS-100W

Temperature range +5°C to −15°C

Lid folds up sideways!

230-volt connection with low-priced mains adapter (p. 80 – 81)

FC 30: Wire basket, protective cover and fixing kit as optional extras

Tailor-made fixing kit for Scania 4-Series

FC 40: Protective cover and fixing kit as optional extras

Contents, specifications and availability are subject to change serving the technical improvement.

56 – 57

Compressor technology at a refreshing price

High-performance trucker fridges

Quality and performance don't have to be expensive – WAECO CoolFreeze CDF series coolers are the best proof. Their robust housing, powerful cooling performance and ingenious functionality make them perfect companions for truck and van drivers.

In response to the tremendous demand we have increased the number of models to five. **Capacities range from 10.5 to 39 litres – so now there's a matching cooler for every demand.**

The new CoolFreeze CDF-11 weighs a mere 8.8 kilograms and is a super-quiet performer. Compact in size it fits into the smallest space with ease – even in cramped truck cabins where it can be placed between the two front seats. It is the smallest cooler in the CDF range, but it already offers some handy details, including two practical drinks holders in front of the fold-up lid.

The CDF-18, too, is a genuine lightweight – and convenient to carry with the fold-out handle. The well proven CDF-25, in turn, excels for its extremely low energy consumption. When capacity counts, the CDF-35 or CDF-45 are the best choice, which provide 31 or 39 litres volume for food and drinks.

All CoolFreeze coolers are suitable for deep-freezing and can be firmly fitted in the vehicle by various means.

NEW

Value for money!

Value for money!

CoolFreeze CDF-11
approx. 10.5 litres

CoolFreeze CDF-18
approx. 18 litres

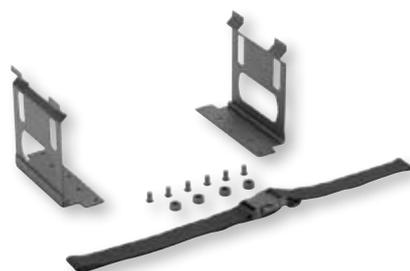**CoolFreeze CDF-25**
approx. 23 litres

CoolFreeze CDF-45
approx. 39 litres

CoolFreeze CDF-35
approx. 31 litres

One family – many benefits

› Top performance with low energy consumption

› Refrigeration and deep-freezing up to –18°C (CDF-11/-18/-25) or up to –15°C (CDF-35/-45)

› 230-volt operation with low-priced mains adapter (p. 80 – 81)

› High-performance compressor technology

› 12/24-volt connection as standard

› Suitable for solar operation

› Superbly quiet running

› Accessory for CDF-25/-35/-45: Universal fixing kit (p. 69)

Recommendable accessory for CoolFreeze CDF-series coolers

For a secure hold in the vehicle:
Universal fixing kit (p. 69)

Contents, specifications and availability are subject to change serving the technical improvement.

58 – 59

So small, so cool!

Great technology in a compact size

23.5 cm wide, barely larger than a sheet of paper: **the deep-freeze capable WAECO CoolFreeze CDF-11 is a small technical miracle**. Fully fledged compressor technology in a space this small – it sounds incredible. WAECO made it happen. The CDF-11 fits into gaps and compartments, even in tight cabins. **10.5 litres capacity, cooling and deep-freezing up to −18°C**, also at high ambient temperatures. Lightweight at just 8.8 kg and easy to carry with the shoulder strap.

The compact sensation

Display with digital temperature readout

Connection cable for 12 / 24 volts DC, battery monitor (can be switched off)

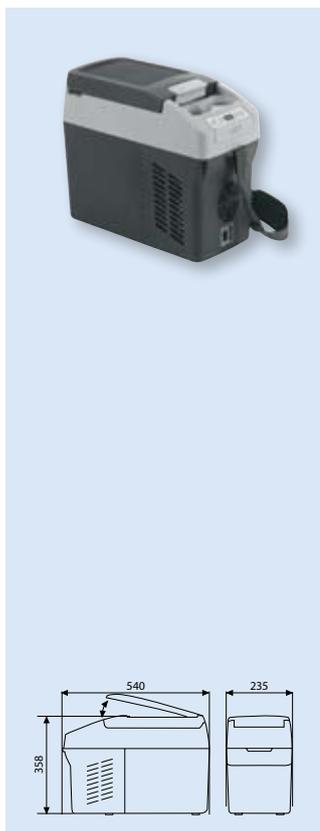Enough space for a day's provisions, an extra compartment for bits and pieces

Two practical drinks holders, convenient one-hand operation

WAECO CoolFreeze CDF-11   4.29

Portable compressor cooler for refrigeration and deep-freezing

Gross capacity	approx. 10.5 litres
Voltage	12 / 24 volts DC
Power input	approx. 30 watts
Temperature range	+10°C to −18°C, continuously variable via electronic thermostat
Power consumption	0.36 kWh/24 h
Insulation	CFC-free PU foam
System	Compressor with integrated control electronics, low-voltage protection (can be switched off), electronic fuse / automatic reverse pole protection
Material	PP
Colour	Pale grey / dark grey
Weight	approx. 8.8 kg
Quality features	Electronic thermostat with digital temperature readout, 3-stage battery monitor, LED interior light, adjustable shoulder strap, two drinks holders, easy and safe fastening with the vehicle seat belt
Scope of delivery	DC connection cable
Test marks	CE, e-approved to 2006/28/EC (Automotive EMC Directive)

NEW

Temperature range +10°C to −18°C

Suitable for solar operation

Extremely compact design

Two integrated drinks holders

Safe fastening in the vehicle with the on-board seat belts

230-volt connection with low-priced mains adapter (pages 80 – 81)

540   235   358

Product	Ref. No.
CoolFreeze CDF-11	9105100007
Optional extra	
Mains adapter 230 V › 24 V	EPS-100W

A cool budget saver
High performance at a low price

Do you want the **best value for your money**? Then you are bound to love this cooler: powerful compressor technology for refrigeration and deep-freezing up to −18°C, continuously variable thermostat, a practical lid closure and many more. **The well organised interior makes efficient use of the 18-litre capacity; 2-litre bottles can be stored upright**. Thanks to the fold-out handle you can carry the CDF-18 to wherever you want.

Easy to operate, secure closing mechanism	Sturdy, elegant, extremely comfortable carrying handle	Vertical insertion of the folding grid: space for standing 2-litre bottles	Salad underneath, maxi bottles above: the horizontal folding grid arranges everything	Left: continuously variable electronic thermostat; right: two-stage battery monitor

WAECO CoolFreeze CDF-18   4.29
Portable compressor cooler for refrigeration and deep-freezing

Gross capacity	approx. 18 litres
Voltage	12 / 24 volts DC
Power input	approx. 35 watts
Average running time	10% at +20°C ambient temperature, 18% at +32°C ambient temperature, both at +5°C interior temperature
Power consumption	Power input x average running time
Temperature range	+10°C to −18°C, continuously variable via electronic thermostat
Insulation	CFC-free PU foam
System	Compressor with integrated control electronics, low-voltage protection adjustable for consumer or starter battery by means of a slide switch, electronic fuse / automatic reverse pole protection, dynamically ventilated wire tube condenser, aluminium rollbond evaporator
Material	Cabinet: PP; lid: PE
Colour	Body: pale grey / dark grey; lid: dark grey
Weight	approx. 11.5 kg
Quality features	Detachable fold-up lid, sturdy carrying handle, vertical space for standing 2-litre bottles
Scope of delivery	DC connection cable
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Truly portable cooler / freezer

465   300
414   363   345   195   210   190

Temperature range +10°C to −18°C

Suitable for solar operation

Energy saver: short running times with reinforced insulation: consumes only 0.29 Ah/h to reach +5°C interior temperature at +20°C ambient temperature

230-volt connection with low-priced mains adapter (pages 80 – 81)

Product	Ref. No.
CoolFreeze CDF-18	9105100002
Optional sextra Mains adapter 230 V › 24 V	EPS-100W

WAECO CoolFreeze CDF-25

4.29

Compressor cooler for refrigeration and deep-freezing

Gross capacity	approx. 23 litres (19 l for refrigeration / deep-freezing, 4 l for fresh food)
Voltage	12 / 24 volts DC
Power input	approx. 35 watts
Average running time	15% at +20°C ambient temperature, 19% at +32°C ambient temperature, both at +5°C interior temperature
Power consumption	Power input x average running time
Temperature range	+10°C to −18°C, continuously variable via electronic thermostat
Insulation	CFC-free PU foam
System	Compressor with integrated control electronics, low voltage protection adjustable for consumer and starter battery by means of a slide switch, electronic fuse / automatic reverse pole protection, dynamically ventilated wire tube condenser, aluminium rollbond evaporator
Material	Cabinet: PP; lid: PE
Colour	Body: pale grey / dark grey; lid: dark grey
Weight	approx. 12.5 kg
Quality features	Detachable lid (lid mount at the front), vertical space for standing 2-litre bottles
Scope of delivery	DC connection cable
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Extremely economical!

Temperature range +10°C to −18°C

Suitable for solar operation

Slim body – minimal space consumption

Fixing kit as accessory (p. 69)

230-volt connection with low-priced mains adapter (pages 80 – 81)

Dimensions: 550, 260, 425, 182, 123, 350, 285, 190

Product	Ref. No.
CoolFreeze CDF-25	9105100003
Optional extras	
Mains adapter 230 V › 24 V	EPS-100W
Universal fixing kit	UFK-C

Closing mechanism: easy to use and super-safe

Left: continuously variable electronic thermostat; right: two-stage battery monitor

Robust lid hinge, sturdy injection moulded cabinet

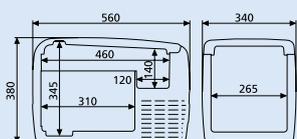Space for upright storage of 2-litre bottles across the entire base (CDF-25, CDF-45)

Simple "push-in" option: cooler placed on the floor in front of the passenger seat

Universal fixing kit for a secure hold in the vehicle available as accessory

Contents, specifications and availability are subject to change serving the technical improvement.

WAECO CoolFreeze CDF-35

4.10

Compressor cooler for refrigeration and deep-freezing

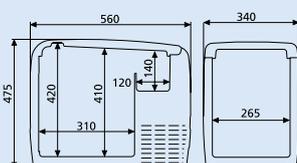|	
Gross capacity	approx. 31 litres
Voltage	12 / 24 volts DC
Average power input	45 watts
Average running time	20% at +20°C ambient temperature, 30% at +32°C ambient temperature, both at +5°C interior temperature
Power consumption	Power input x average running time
Temperature range	+10°C to −15°C, continuously variable via electronic thermostat
Insulation	CFC-free PU foam
System	Compressor with integrated control electronics, low-voltage protection adjustable for consumer or starter battery by means of slide switch, electronic fuse / automatic reverse pole protection, dynamically ventilated wire tube condenser, aluminium rollbond evaporator, heat dissipation to the outside by brushless, wear-free fan
Material	Cabinet: PP; lid: PE
Colour	Cabinet: pale grey; lid: dark grey
Weight	17.0 kg
Quality features	Detachable lid (lid mount at the front), vertical space for standing 1.5-litre bottles
Scope of delivery	DC connection cable
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Temperature range +10°C to −15°C

Suitable for solar operation

Fixing kit as accessory (p. 69)

230-volt connection with low-priced mains adapter (pages 80 – 81)

Top seller

Product	Ref. No.
CoolFreeze CDF-35	CDF-035DC
Optional extras	
Mains adapter 230 V › 24 V	EPS-100W
Universal fixing kit	UFK-C

WAECO CoolFreeze CDF-45

Compressor cooler for refrigeration and deep-freezing

Gross capacity	approx. 39 litres
Voltage	12 / 24 volts DC
Average power input	45 watts
Average running time	25% at +20°C ambient temperature, 35% at +32°C ambient temperature, both at +5°C interior temperature
Weight	20.0 kg
Quality features	Detachable lid (lid mount at the front), vertical space for standing 2-litre bottles
Other specifications	As for CoolFreeze CDF-35

Product	Ref. No.
CoolFreeze CDF-45	CDF-045DC
Optional extras	
Mains adapter 230 V › 24 V	EPS-100W
Universal fixing kit	UFK-C

Contents, specifications and availability are subject to change serving the technical improvement.

62 – 63

WAECO CoolFreeze CF

12 / 24 V DC
+
100–240 V AC
as standard

CoolFreeze CF-35
approx. 31 litres

CoolFreeze CF-40
approx. 37 litres

CoolFreeze CF-50
approx. 49 litres

# Premium boxes for all applications
High-tech unlimited

CoolFreeze CF series coolers can be operated on almost any mains network in the world. Whether 12, 24, 100 or 240 volts – the integrated power supply unit recognises each voltage and adjusts itself accordingly.

CF appliances feature optimised dimensions and are easy to transport. Their **generous capacity** makes them ideal for use in trucks and motorhomes as well as on boats or yachts.

Danfoss BDF compressors ensure **extraordinary performance** for both **normal refrigeration and deep-freezing**, minimal energy consumption, compatibility with solar units, and superbly silent running. The **CF special electronics system with soft-start feature, turbo cooler and digital temperature readout** adds a new dimension in performance and operating comfort. Turbo power with economy – available in all CoolFreeze appliances of series CF-35 to CF-50!

Perfect down to the last detail – product benefits of the CoolFreeze CF series

› **High quality materials**
Injection-moulded cabinets and housings; all materials CFC-free

› **Perfect workmanship**
Optimal functionality, long service life

› **Cooling technology at its best**
Danfoss BDF compressors; integrated voltage monitor

› **Universal power supply**
12 / 24 volts DC and 100 – 240 volts AC; suitable for solar operation

› **Comfort and convenience**
Ergonomically shaped recessed grips; sturdy carrying handles,
well-organised interior

› **Extras available as standard**
Interior light

› **Wide choice of accessories**
Universal fixing kit (p. 69)
Fridge slides (p. 69)

With
digital
temperature
readout
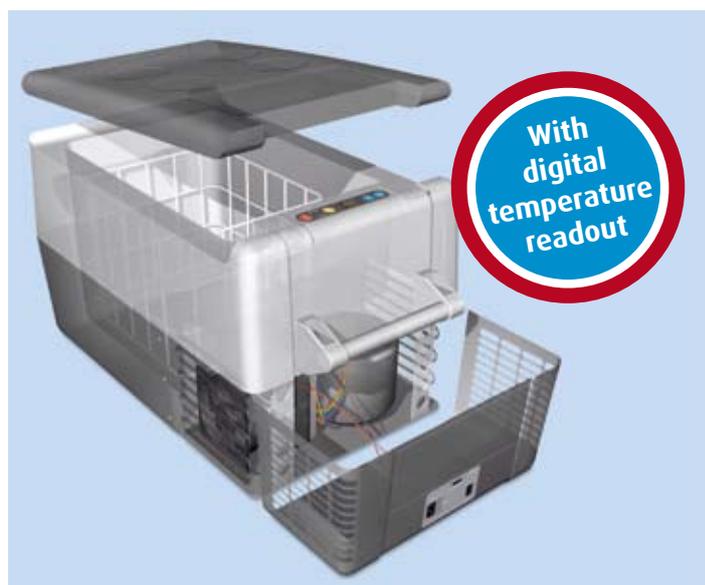
CF special electronics
with digital temperature readout,
soft start and turbo cooler

Turbo power with economy. The CF special electronics system gives the compressor a soft and power-saving start at 2500 rpm. If the preset temperature is not reached within a short period of time or a temperature below –12°C has been set, the turbo cooler switches on automatically to boost the compressor speed. As soon as a preset temperature up to –12°C is reached, the system switches back to economy mode (unless a temperature below –12°C has been set). **The result: fast yet economical cooling from +10°C to –18°C.**

› Intelligent, automatic turbo cooler
› 3-stage battery protection to be set on the digital display
› 4-digit display
› Display readout in Celsius or Fahrenheit
› Free temperature setting on the display
› Display of current interior temperature
› Status and error indication by 2 separate LEDs
› Memory function saves the last settings

CoolFreeze on board – all safe and secure

Big or small truck, van or estate car – CoolFreeze coolers will find a home in any vehicle. WAECO accessories make sure they are safe and secure, and within easy reach when you need them. In larger trucks the cooler can be housed in the outside storage compartment. It's more handy to have it right in the cab for convenient access while driving – e.g. on the floor between the two seats, safely fastened with the UFK-C universal fixing kit (p. 69).
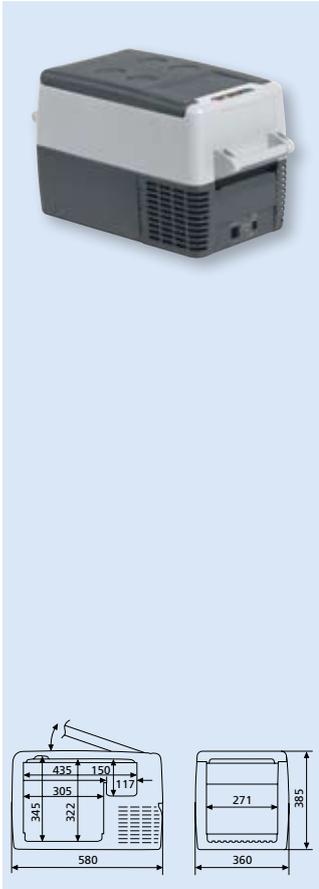
Smaller truck cabins have room for a slim CoolFreeze model behind the seats. Simply push the cooler between the seat and the rear wall, or use the fixing kit for extra safety. WAECO fridge slides (p. 69) give you the double benefit of a firm hold and convenient (front or side) slide-out access. **Ideal for vans with racks** mounted in the cargo compartment: use a fridge slide to fasten your cooler and simply pull out to open.

Ease of access, double secure: front slide-out with
sturdy frame construction and fastening strap

Super-safe and steady as a rock: cooler fastened
between the seats with fixing kit

Contents, specifications and availability are subject to change serving the technical improvement.

64 – 65

WAECO CoolFreeze CF-35

4.10

Compressor cooler for refrigeration and deep-freezing with CF special electronics

Gross capacity	approx. 31 litres (26.5 l for refrigeration / deep-freezing, 4.5 l for fresh food)
Voltage	12 / 24 volts DC and 100–240 volts AC
Power input	approx. 45 watts
Average running time	15% at +20°C ambient temperature, 19% at +32°C ambient temperature, both at +5°C interior temperature
Power consumption	Power input x average running time
Temperature range	+10°C to –18°C, free temperature setting via electronic thermostat with digital temperature readout
Insulation	CFC-free PU foam
System	Fully hermetic Danfoss BD35F compressor with integrated control electronics, low voltage protection adjustable for consumer and starter battery via electronic system, electronic fuse / automatic reverse pole protection, dynamically ventilated wire tube condenser, aluminium rollbond evaporator
Material	Cabinet: PP; lid: PE
Colour	Body: pale grey / dark grey; lid: dark grey
Weight	approx. 15 kg
Quality features	Detachable lid (lid mount at the front), interior light, vertical space for standing 1.5-litre bottles. CF special electronics with soft start and turbo cooler (p. 65)
Scope of delivery	DC and AC connection cables, evaporator grille, detachable carrying handles
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Product	Ref. No.
CoolFreeze CF-35	CF-035AC
Optional extras	
Fridge slide, long	SLD-060
Fridge slide, wide	SLD-060W
Universal fixing kit	UFK-C

Temperature range +10°C bis –18°C

Suitable for solar operation

12 / 24 volts DC and 100–240 volts AC

Fridge slides and fixing kit as accessories (p. 69)

CF special electronics with soft start and turbo cooler

Standard interior light
for a clear overview in the dark

Ready for connection to 12 / 24 volts DC
and 110–240 volts AC with mains priority circuit

CF-50: detachable lid, folds up sideways,
variable lid mounts

Fridge slides with side or front slide-out access:
for fastening of WAECO CoolFreeze coolers ...

... and for convenient loading
and unloading

Universal fixing kit for a secure hold in the vehicle
available as accessory

WAECO CoolFreeze CF-40

4.10

Compressor cooler for refrigeration and deep-freezing with CF special electronics

Gross capacity	approx. 37 litres (31 l for refrigeration / deep-freezing, 6 l for fresh food)
Voltage	12 / 24 volts DC and 100–240 volts AC
Power input	approx. 45 watts
Average running time	18% at +20°C ambient temperature, 22% at +32°C ambient temperature, both at +5°C interior temperature
Power consumption	Power input x average running time
Temperature range	+10°C to −18°C, free temperature setting via electronic thermostat with digital temperature readout
Insulation	CFC-free PU foam
System	As for CF-35
Material	Cabinet: PP; lid: PE
Colour	Body: pale grey / dark grey; lid: dark grey
Weight	approx. 16 kg
Quality features	Detachable lid (lid mount at the front), interior light, vertical space for standing 2-litre bottles. CF special electronics with soft start and turbo cooler (p. 65)
Scope of delivery	DC and AC connection cables, removable wire basket, detachable carrying handles
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Product	Ref. No.
CoolFreeze CF-40	CF-040AC
Optional extras	
Fridge slide, long	SLD-060
Fridge slide, wide	SLD-060W
Universal fixing kit	UFK-C

Temperature range +10°C to −18°C

Suitable for solar operation

12 / 24 volts DC and 100–240 volts AC

Fridge slides and fixing kit as accessories (p. 69)

WAECO CoolFreeze CF-50

Compressor cooler for refrigeration and deep-freezing with CF special electronics

Gross capacity	approx. 49 litres (41 l for refrigeration / deep-freezing, 8 l for fresh food)
Voltage	12 / 24 volts DC and 100–240 volts AC
Power input	approx. 45 watts
Average running time	15% at +20°C ambient temperature, 19% at +32°C ambient temperature, both at +5°C interior temperature
Power consumption	Power input x average running time
Temperature range	+10°C to −18°C, free temperature setting via electronic thermostat with digital temperature readout
Insulation	CFC-free PU foam
System	As for CF-35
Material	Cabinet: PP; lid: PE
Colour	Body: pale grey / dark grey; lid: dark grey
Weight	approx. 18 kg
Quality features	Detachable lid (plug-in lid mount, variable left / right), interior light, vertical space for standing 2-litre bottles. CF special electronics with soft start and turbo cooler (p. 65)
Scope of delivery	DC and AC connection cables, removable wire basket, detachable carrying handles
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Product	Ref. No.
CoolFreeze CF-50	CF-050AC
Optional extras	
Fridge slide, long	SLD-060
Fridge slide, wide	SLD-060W
Universal fixing kit	UFK-C

CF special electronics with soft start and turbo cooler

Contents, specifications and availability are subject to change serving the technical improvement.
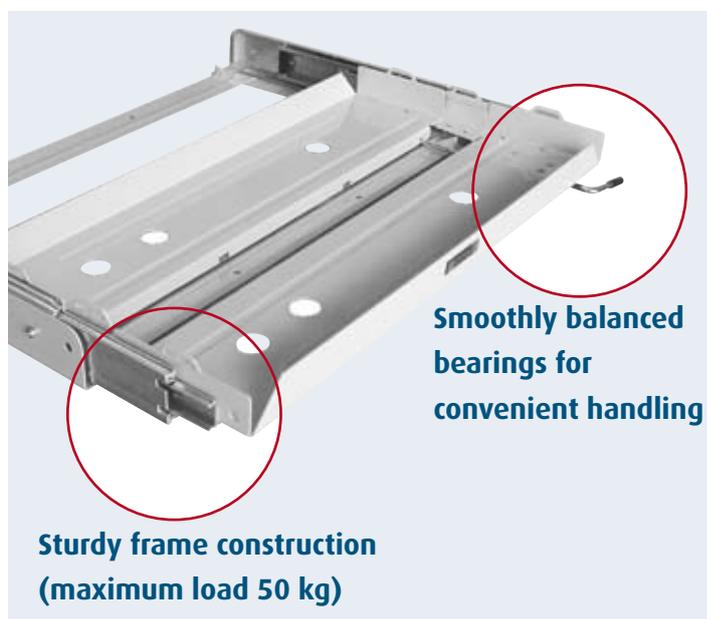
66 – 67

WAECO CoolFreeze

Convenient slide-out access to your cooler

CoolFreeze fridge slides

There's enough space below the shelf to accommodate a cooler, but no space to open it? **Using a WAECO fridge slide you can convert this vacant niche into a handy cooling compartment.** A gentle tug is enough to make your CoolFreeze cooler slide out on smoothly balanced roller bearings. Moving it back into a tilt- and slip-proof position for safe travelling is just as simple and elegant.

› **Convenient loading and unloading of WAECO CoolFreeze coolers CF-35 / CF-40 / CF-50**
› **A secure hold in the vehicle: sturdy frame construction and tie-down straps**
› **Available in side or front slide-out versions**

Smoothly balanced bearings for convenient handling

Sturdy frame construction (maximum load 50 kg)

Contents, specifications and availability are subject to change serving the technical improvement.

Side or front slide-out access

WAECO slides are available in two different versions. Choose the side or front slide-out, depending on the type of storage compartment you wish to use. Both versions are equally safe and sturdy, of course. Even 50-kg coolers are no problem for WAECO slides!

Click before you drive!

Even sharp bends and sudden stops leave your cooler unaffected – and firmly in place. The sturdy frame construction provides a secure hold. For extra safety, the cooler is tied down with two straps that are delivered as standard.

Pick what fits your storage space
Fridge slides with front or side slide-out + universal fixing kit

---

Fridge slides, long and wide version   4.10
For CoolFreeze CF-35 / CF-40 / CF-50
For fastening of WAECO CoolFreeze coolers in vehicles and for convenient loading and unloading

SLD-060

SLD-060W

Material / colour	Powder coated metal / grey	
Weight	11.5 kg	
Dimensions (W x H x D)	**SLD-060**	
	Retracted:	421 x 85,4 x 760 mm
	Extended:	421 x 85,4 x 1418 mm
	SLD-060W	
	Retracted:	789 x 85,3 x 475 mm
	Extended:	789 x 85,3 x 938 mm
Quality features	50 kg max. load capability, tie-down straps included in the set	

Product	Ref. No.
Fridge slide, long for CF-35 / 40 / 50	SLD-060
Fridge slide, wide for CF-35 / 40 / 50	SLD-060W

Convenient slide-out access

Up to 50 kg load capability
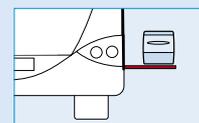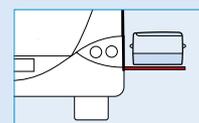
Universal fixing kit   4.10
For fastening CoolFreeze CDF-25, CDF-35, CDF-45, CF-35, CF-40, CF-50 in vehicles

Material	Powder coated metal
Colour	Black

Scope of delivery: Two frame sections, adjustable strap with snap lock, set of screws

Product	Ref. No.
Universal fixing kit	UFK-C

For and secure hold in the vehicle

Thermoelectrics

Lightweight, versatile, resistant to wear and tear

Low-cost coolers for private and professional use

Thanks to their low weight, thermoelectric coolers are particularly easy to carry and transport. WAECO coolers offer the extra benefit of a 12/24-volt connection, so they can be used both in your car and in your truck. Their astonishing cooling capacity up to 30°C below the ambient temperature is more than sufficient for most purposes.

Thermoelectrics offer an added bonus: most coolers equipped with this technology can be used for both **cooling and heating**. This goes for CoolFun and TropiCool appliances as well as for the MyFridge bottle cooler.

Price breakers!

Great value for little money: CoolFun coolers are compact outside and spacious inside with room to store tall beverage bottles upright. Cooling and heating function, 12 / 24-volt connection.

A drink within reach

Thermoelectric bottle cooler for permanent installation next to the driver's seat. Fits bottles up to 1.5 litres.

WAECO CoolFun

WAECO MyFridge MF-1F

CoolFun CR-18

CoolFun CR-28

MyFridge MF-1F

Convenient high-tech coolers

WAECO TropiCool coolers provide powerful cooling – up to 30°C below ambient temperature – and many features for enhanced comfort and convenience. TC special electronics with soft-touch operating panel and power-save mode. 12 / 24 / 230-volt connection as standard.

WAECO TropiCool

TropiCool TC-14FL

TropiCool TC-21FL

TropiCool TC-35FL

Thermoelectrics

The thermoelectric principle was discovered in 1834 by J. C. A. Peltier. Hence, the temperature generating parts of thermoelectric systems are 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 perfectly sufficient for small and medium-sized coolers.

| Ready for operation with 12 / 24 volts DC; TropiCool coolers also with 230 volts AC
| Cooling performance up to 30°C below the 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 CoolFun
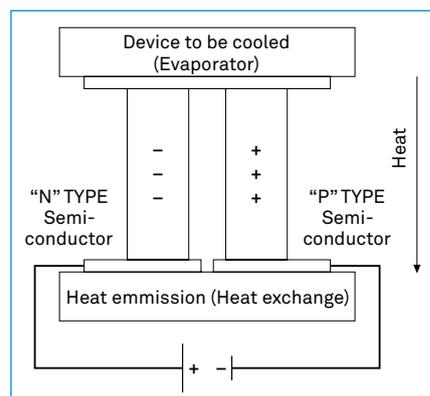
CoolFun CR-18
approx. 18 litres

CoolFun CR-28
approx. 28 litres

Price breakers!

Thermoelectrics at an entry-level price

Universal coolers for private and professional use

Cools, heats and saves money! The entry-level price boxes CoolFun CR-18 and CR-28 provide everything you'd expect from a thermoelectric cooler:
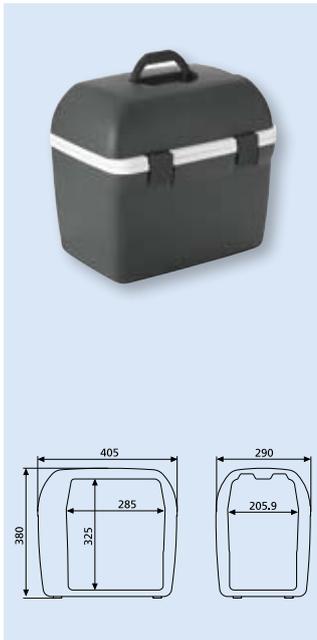
› Reliable refrigeration up to 20°C
  below ambient temperature
› Additional heating function (up to +65°C)
› A sturdy housing
› Wear-free technology
› Ample space for your provisions (e. g. for 1.5-litre
  or even 2-litre bottles standing upright)
› Flexible energy supply: 12 / 24 volts DC
› For a secure hold in the vehicle: fixing kit
  available as optional extra (for CR-28)

Buy our "entry-level price boxes" and save twice. The first bonus: you can use these coolers both in your truck and in your car. And the second bonus: when you buy the CR-28, you will get two units for the price of one – a chest cooler and an upright fridge.

WAECO CoolFun CR-18
Thermoelectric cooler

4.02

Gross capacity	approx. 18 litres
Voltage	12 / 24 volts DC
Average power consumption	42 watts
Temperature range	Cooling: approx. 20°C below the ambient temperature; heating: up to approx. +65°C
Insulation	Polyurethane foam, CFC-free
System	Wear-free thermoelectrics (Peltier system), cold / heat transmission to the interior with aluminium heat exchanger, heat dissipation to the outside with fan
Material	PP
Colour	Anthracite / white
Weight	4.3 kg
Quality features	Vertical space for standing 1.5-litre bottles, fold-up lid with two quick-lock closures, cold / warm switch, cable compartment integrated in the lid
Scope of delivery	DC connection cable
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Product	Ref. No.
CoolFun CR-18	CR-18-12/24

Up to 20°C below ambient temperature

Up to +65°C in the heating mode

Practical detail: cable compartment integrated in the lid

405
285
380
325
290
205.9

WAECO CoolFun CR-28
Thermoelectric cooler

4.02

Gross capacity	approx. 28 litres
Voltage	12 / 24 volts DC
Average power consumption	55 watts
Temperature range	Cooling: approx. 20°C below the ambient temperature; heating: up to approx. +65°C
Insulation	Polyurethane foam, CFC-free
System	Wear-free thermoelectrics (Peltier system), cold / heat transmission to the interior with aluminium heat exchanger, heat dissipation to the outside with fan
Material	PP
Colour	Anthracite / white
Weight	6.5 kg
Quality features	Vertical space for standing 2-litre bottles, fold-up lid with quick-lock closure, sturdy carrying handles, cold / warm switch, can also be used as an upright fridge
Scope of delivery	DC connection cable, grid divider
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

Product	Ref. No.
CoolFun CR-28	CR-28-12/24
Optional extra Universal fixing kit	UFK-T

Up to 20°C below ambient temperature

Up to +65°C in the heating mode

Chest cooler and upright fridge all in one

490
345
400
327
330
267

Smart detail:
The cable compartment in the lid keeps essential accessories at hand (CR-18).

Tall enough for 1.5-litre bottles standing upright (CR-18)

Detachable grid divider, vertical space for 2-litre bottles! (CR-28)

For a secure hold in the vehicle: fixing kit as optional extra (CR-28)

Contents, specifications and availability are subject to change serving the technical improvement.

72 – 73

WAECO TropiCool

TropiCool TC-14FL
approx. 14 litres

Cooling
up to
30°C
below ambient
temperature

TropiCool TC-21FL
approx. 21 litres

TropiCool TC-35FL
approx. 35 litres

Top performance: thermoelectrics for professionals
12 / 24 volts DC and 230 volts AC as standard

WAECO has made history in the field of thermoelectric refrigeration – that's what the experts say about the popular TropiCool series. With an impressive cooling performance **up to 30°C below the ambient temperature**, TropiCool coolers already come up to compressor cooling standards! The compact appliances are convenient to transport and provide many high-tech features for enhanced user comfort. Just one example is the intelligent TC special electronics system with **seven-stage temperature regulation in the cooling and in the heating mode**. Operation is safe and simple with the soft-touch membrane keypad, which also protects the electronics from dust and moisture. Good for truckers: **TropiCool coolers are ready for connection to 12 / 24 volts DC and 230 volts AC.** So they can be used simply everywhere – in the truck, in the car and at home on the mains socket.

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

› **Highly effective insulation**
Outstanding energy efficiency

› **Dynamic interior ventilation**
Significantly improved cooling performance

› **Wear-free fans**
Long service life

› **Intelligent energy-saving circuit**
Electronics switch automatically to power-save mode
once the desired interior temperature has been reached

› **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. 77)

Cooling and heating

TC special electronics
with soft-touch operating panel

Intelligent energy management. TropiCool coolers are great energy savers. Once the desired temperature has been reached, they switch automatically to the "power-save" mode. In this mode the Peltier element uses very little power. This gives rise to an insulation bridge that prevents heat from flowing into the cooling compartment.

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

Universal fastening kit – keep on the safe side with your TropiCool cooler

In case of an emergency stop, a cooler filled to the brim may turn into a dangerous weapon in the driver's cabin. To be on the safe side, use the UFK-T universal fixing kit (p. 77).
This safety accessory gives tilt- and slip-proof fastening to your TropiCool cooler on the middle console between the driver and passenger seats. Two sturdy metal plates screw-connected to the base and two belts adjustable in length

provide a tight hold in any traffic situation. Of course you can also store your TropiCool cooler behind the driver's seat or stow it in front of the passenger's seat. If you do, make sure that tilting and slipping are prevented. We advise you to opt for safety, though. The UFK-T universal fixing kit matches the TropiCool models TC-14FL, TC-21FL and TC-35FL. Just order the safety kit along with your cooler!
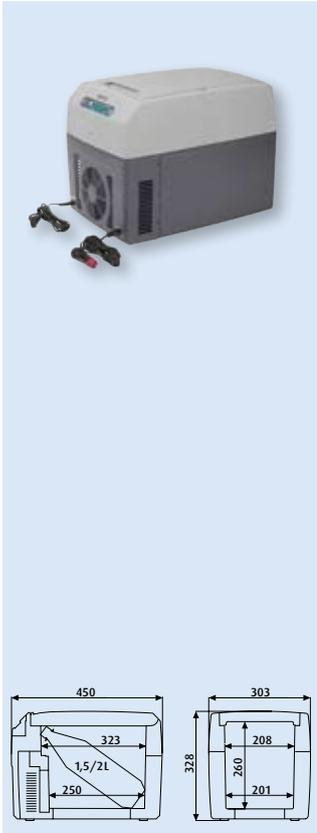

Safe and convenient handling: just get in, push the cooler into the fixing kit, and tighten it up!
Two metal plates and two safety belts keep a tight "grip" on the TropiCool cooler during the journey.

Contents, specifications and availability are subject to change serving the technical improvement.

74 – 75

WAECO TropiCool

WAECO TropiCool TC-14FL
Thermoelectric cooler with TC special electronics

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

Up to 30°C below ambient temperature

Up to +65°C in the heating mode

12 / 24 / 230 volts

TC special electronics

WAECO TropiCool TC-21FL
Thermoelectric cooler with TC special electronics

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	As for 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

Up to 30°C below ambient temperature

Up to +65°C in the heating mode

12 / 24 / 230 volts

TC special electronics

Contents, specifications and availability are subject to change serving the technical improvement.

Formidable thermoelectrics
Ample capacity for long journeys

Where its many fans among truck and van drivers are concerned, it is simply "the greatest". And in the WAECO thermoelectrics range as well. At 35 litres capacity the TropiCool easily copes with the sustenance for extensive day trips or several days away. And keeps it all cool and fresh – up to 30°C below the ambient temperature, truly exceptional for a thermoelectric cooler of this calibre. But that's not the end of it: if required, the TC-35FL can even serve as a heater …

35-litre capacity for cooling and heating

WAECO TropiCool TC-35FL   4.01
Thermoelectric cooler with TC special electronics

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	As for 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)

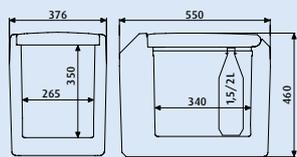| Product	Ref. No.
TropiCool TC-35FL	TC-35FL-AC
Optional extra	
Universal fixing kit	UFK-T

Up to 30ºC below ambient temperature

Up to +65°C in the heating mode

12 / 24 / 230 volts

Jumbo cooler for campers, travellers and truckers

TC special electronics

Dimensions: 376 · 550 · 350 · 265 · 340 · 1,5/2L · 460

Universal fixing kit   4.01
For fastening of TC-14FL, TC-21FL, TC-35FL and CR-28 coolers in vehicles

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

Contents, specifications and availability are subject to change serving the technical improvement.

76 – 77

It's WAECO's thirst-quenching concept: thanks to the MyFridge bottle cooler there's always a cool drink at hand. Whatever you fancy – water, coke, lemonade or fruit juice – the compact cooler keeps 1 to 1.5 litres of your favourite drink up to 22°C below the ambient temperature. And it will even heat if required (up to +60°C)!

Cools and heats

Thirst-quenching convenience
WAECO MyFridge bottle cooler

Drinks holder with active cooling

On long trips it is particularly important that you stay hydrated. Entrust your drink to the **MyFridge bottle cooler** and **position it close to hand** next to the driver's seat. And **firmly fasten it** there, for safety's sake. It's up to you whether you use the screw connection delivered with each unit, or whether you treat yourself to the product-specific fixing kit. The thermoelectric bottle cooler is connected to the on-board socket and works on either **12 or 24 volts**. The aluminium container inside conducts heat or cold very quickly. It perfectly accommodates 1.5-litre as well as smaller 1-litre bottles.

For a secure hold

Using the WAECO fixing kit you can fasten your MyFridge MF-1F bottle cooler
quickly and safely. Just order it along with your cooler!

Fastening option No. 1
Fixing kit for wall mounting (optional extra)

Fastening option No. 2
Floor mounting with screw connection (included in the set)

WAECO MyFridge MF-1F
4.15

Thermoelectric bottle cooler for 12 / 24 volts

Voltage	12 / 24 volts DC
Power consumption	12 volts: 30 watts 24 volts: 44 watts
Temperature range	Cooling mode up to 22°C below the ambient temperature; heating mode up to +60°C beverage temperature
System	Wear-free thermoelectrics with exterior fan
Material	Outside: plastic; inside: aluminium
Colour	Grey / silver
Dimensions (W x H x D)	150 x 215 x 190 mm
Weight	1.2 kg
Quality features	Fits most commonly available 1 to 1.5-litre bottles, cooling and heating function, elegant design, sturdy construction, aluminium interior for fast cooling / heating, easy screw-mount installation
Test marks	CE, TÜV/GS, e-approved to 2006/28/EC (Automotive EMC Directive)

**Up to 22°C below
ambient temperature**

**Up to +60ºC
in the heating mode**

**Ready for connection
to 12 / 24 volts**

**Safe fastening:
two options
to choose from**

Product	Ref. No.
MyFridge MF-1F	MF-1F-12/24
Optional extra Fixing kit for MF-1F	UFK-M

Simple push-button operation,
status indicated by LEDs

Slots for ventilation on the rear side of the unit

Fits 1.5-litre bottles or smaller

WAECO CoolPower

Electronic accessories for cooling appliances
Small products – great effect

The products in the **WAECO CoolPower range** may be not very spectacular to look at, but they will help you enjoy the possibilities of mobile cooling to the full. And that is exactly our intention. **Regardless of whether you've got a thermoelectric or compressor powered cooler, you will be able to use it anytime and anywhere, on different on-board systems and with mains systems around the globe.** With CoolPower accessories you can, for example, operate your 12 / 24-volt compressor cooler at home or in the hotel. You will also find a low-priced battery monitor for your thermoelectric cooler.

Mains adapter
for thermoelectric coolers

How do you run a 12-volt thermoelectric cooler from the 230-volt mains? The answer is simple: with a **WAECO CoolPower EPS 817** mains adapter.

Mains adapter
for compressor coolers

Your compressor has no mains connection, but you'd like to run the appliance in the hotel, in your weekend cottage or at the campsite? No problem whatsoever. All you have to do is add the **WAECO CoolPower EPS 100** mains adapter, it will work a treat!

Voltage monitor
for thermoelectric coolers

What happens if you forget to disconnect the cooler when you park? Don't worry, the **WAECO CoolPower M 50U** voltage monitor protects the vehicle battery from excessive discharging. When the battery voltage drops, it switches the cooler off – and back on again when the voltage returns to normal.

WAECO CoolPower EPS 817

3.17

Mains adapter for connection of thermoelectric 12-volt coolers to the 230-volt mains.
Ideal for use at home, in hotels, at campsites, in holiday homes, etc.
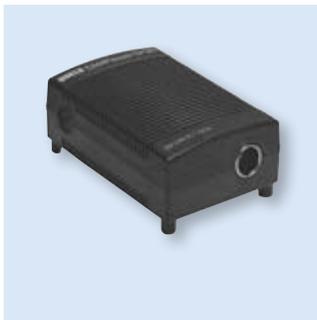
Input voltage	**230 volts AC / 50 Hz**
Output voltage	13 volts DC
Continuous load	6 A
Dimensions (W x H x D)	115 x 65 x 170 mm
Weight	0.6 kg
Test marks	GS, CE

Product	Ref. No.
Mains adapter 230 V › 12 V	EPS-817U

Hassle-free mains operation for 12-volt thermoelectric coolers

WAECO CoolPower EPS 100

3.17

Mains adapter for hassle-free connection of 12- / 24-volt cooling appliances to the 230-volt mains.
Suitable for all WAECO compressor coolers.

Input voltage	**230 volts AC**
Output voltage	25 volts DC
Output power	100 watts
Output current	4 A
Dimensions (W x H x D)	115 x 65 x 170 mm
Weight	approx. 0.7 kg
Quality features	Switch mode, automatic priority for mains operation
Test marks	CE

Product	Ref. No.
Mains adapter 230 V › 24 V	EPS-100W

Mains power for all WAECO compressor coolers

Automatic priority circuit for mains operation

WAECO CoolPower M 50U

3.17

Voltage monitor for 12-volt applications
Always the perfect battery voltage: voltage monitor integrated in the supply cable,
for universal 12-volt applications with cigarette lighter socket as output.
Enables automatic cut-off at low battery voltage and cut-in at normal voltage. Status indicated by LEDs.

Cut-off voltage	**11.6 volts DC**
Cut-in voltage	12.8 volts DC
Current	5 amps max.
Quality features	Status read-out by LEDs, ready for connection with cigarette lighter plug
Test marks	e-approved to 2006/28/EC (Automotive EMC Directive)

Product	Ref. No.
Voltage monitor 12 V, 5 A	M-50U-12

Protects the vehicle battery from excessive discharging

Designed for universal use

Contents, specifications and availability are subject to change serving the technical improvement.

80 – 81

Mobile
safety solutions

360° vision for pros

Mobile safety solutions
for trucks and vans

As a professional driver you generally have no problems manœuvring your vehicle in tight spaces. Nevertheless there are certain situations when an extra pair of eyes would be invaluable. For example when reversing towards an unfamiliar loading ramp or when pedestrians and cyclists "disappear" into the blind spot when you are turning right.

A WAECO PerfectView reversing video system takes the stress out of manœuvring. As soon as you put the vehicle into reverse the camera starts relaying live pictures of what is happening behind you to the dashboard monitor. If you want it can even transmit sound from outside into the cab.

What is more, the PerfectView range does not just offer solutions that let you see what is happening behind you. It also gives you the option of 360° vision. Cameras to the front and back and on both sides or even inside, CRT or LCD monitors with varying features and functions, complete systems and individual components, standard and heavy duty ... WAECO PerfectView offers a professional solution to every situation. It's an investment you won't regret: it pays for itself with the first collision it helps you avoid.

CRT reversing video systems

Robust, reliable, tried and tested a hundred thousand of times – for over ten years now: PerfectView CRT reversing video systems give you big performance at a small price!

WAECO PerfectView CRT   **Pages 86 – 95**

PerfectView CRT 580

LCD reversing video systems

Advanced technology, safety in line with current standards. Take your pick from a wide range of products extending from inexpensive entry-level systems to high-end models for ultimate demands.

WAECO PerfectView RVS   **Pages 96 – 107**

PerfectView RVS 550

Cameras for navigation systems

The easiest way to turn your navigation device into a fully-fledged reversing video system: complete camera sets, installation fittings included. For all common permanently fitted navigation systems.

WAECO PerfectView   **Pages 104 – 106**

PerfectView CAM 80NAV

LCD front camera system

Better than a front mirror, approved according to the 2003/97/EC mirror directive of the European Union. Easy to upgrade into a reversing video system – simply add a second camera.

WAECO PerfectView FVS   **Pages 108 – 111**

PerfectView FVS 740X

Heavy-duty reversing video system components

Vibration, impact, moisture, dust – these and other tough conditions call for our PerfectView heavy-duty components. Put together your own customised system!

WAECO PerfectView   **Pages 112 – 117**

PerfectView M 59L

Professional "perfect view" solutions

Ready-to-install systems for every demand

You'd like to equip a vehicle without trailer with a reversing video system? Then you should opt for one of our complete systems. Camera, monitor, cabling – all components are perfectly coordinated, all you need is included.

WAECO PerfectView reversing video systems can be activated either manually or automatically by reverse gear. They work reliably even at temperatures well below zero. All monitors feature the practical mirror function. This means the camera picture can be mirrored upon pressing a button to give you the familiar rear view mirror view.

CRT tube monitor or LCD flat screen? Entry-level or professional system? **The table on the right gives you an overview of six complete PerfectView systems. Each system is explained in detail on the following pages.** Pick the one to suit your needs – and add what you like, e.g. a camera with motor-operated shutter, LED or other useful features.

Our highlights this year: four new LCD complete systems, which offer three goodies for your convenience:
› 5" or 7" colour monitor
› Robust, compact LED colour camera, also with shutter
› An extra output with separate control for connection of a second camera (e.g. a front camera)

For trailers and tractor-trailers we offer matching cable kits that speed up installation (p. 94 / 95).

Bound to impress you: the features of the new PerfectView monitor generation

Easylink monitor mount:
Docking station for theft prevention
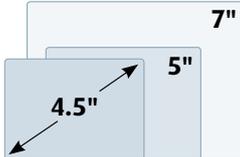
Illuminated keys

USB port for charging MP3 players and the like

Lockable plug-in connectors

	CRT reversing video systems		LCD reversing video systems			
	4.5" / 115 mm	5" / 128 mm	5" / 128 mm	5" / 128 mm	7" / 178 mm	7" / 178 mm
System	CRT 245	CRT 580	RVS 550	RVS 580	RVS 750X	RVS 780X
Ref. No.	RV-245	9101900007	9101900009	9101900020	9101900010	9101900008
		NEW	NEW	NEW	NEW	NEW
Monitor	M 45R	M 50R1	M 5L	M 5L	M 7LX	M 7LX
Operating voltage	11 to 32 volts DC	11 to 32 volts DC	12 to 30 volts DC	12 to 30 volts DC	12 to 30 volts DC	12 to 30 volts DC
Power consumption	10 watts	12 watts	10 watts	10 watts	12 watts	12 watts
Resolution	350 lines	520 lines	235,000 pixels	235,000 pixels	337,000 pixels	337,000 pixels
LED background illumination	—	—	●	●	●	●
Video standard	CCIR	EIA	NTSC / PAL auto	NTSC / PAL auto	NTSC / PAL auto	NTSC / PAL auto
Number of camera inputs	1	2	2	2	3	3
Day / night dimmer	●	●	automatic LDR	automatic LDR	automatic LDR	automatic LDR
Sun blind	●	●	—	—	—	—
Distance scale	adhesive film	—	—	—	OSD	OSD
Mirror function	can be set	can be set	can be set	can be set	can be set	can be set
Loudspeaker	—	—	●	●	●	●
Vibration resistance	5 g	4 g	5 g	5 g	5 g	5 g
Camera	CAM 10	CAM 80	CAM 50C	CAM 80C	CAM 50C	CAM 80C
Picture sensor CCD chip	1/4"	1/3"	1/4"	1/3"	1/4"	1/3"
Resolution	380 lines	270,000 pixels	270,000 pixels	270,000 pixels	270,000 pixels	270,000 pixels
Picture angle hor. / vert. / diagonal	98° / 82° / 120°	100° / 72° / 145°	90° / 70° / 120°	100° / 72° / 145°	90° / 70° / 120°	100° / 72° / 145°
Light sensitivity	< 0.5 lux or 0 lux with LED	< 0.5 lux or 0 lux with LED	< 1 lux or 0 lux with LED	< 1 lux or 0 lux with LED	< 1 lux or 0 lux with LED	< 1 lux or 0 lux with LED
Video standard	CCIR	EIA	PAL	PAL	PAL	PAL
Electronic brightness adjustment	●	●	●	●	●	●
IR LED technology for optimum night-time vision	●	●	●	●	●	●
Integrated microphone	●	—	●	●	●	●
Heating	—	●	●	●	●	●
Motor-operated camera shutter	—	●	—	●	—	●
Vibration resistance	8 g	6 g	6 g	6 g	6 g	6 g
Type of protection	IP 68	IP 68	IP 68	IP 68	IP 68	IP 68
Temperature range	−10 to +60°C	−20 to +65°C	−20 to +65°C	−20 to +65°C	−20 to +65°C	−20 to +65°C

For trailers
Reversing video system
+ add-on camera
+ Trailer cable kit

Trailer cable kit
9102200040

For tractor-trailers
Reversing video system
+ Tractor cable kit

Tractor cable kit
9102200039

Top cost / benefit ratio

Safe manœuvring at an entry-level price

Proven basic system – with compact ball camera

The WAECO **PerfectView CRT 245** reversing video system offers all the essential basic functions as well as an outstanding **cost / benefit ratio**. Safe and convenient manœuvring at a price that won't hurt your budget – an ideal combination.

The tried and tested basic system combines the **sturdy b/w CRT monitor M 45R** with the **super-compact ball camera PerfectView CAM 10**. Featuring LED technology this camera delivers crystal-clear pictures, even in complete darkness. Its cabinet complies with IP 68 standards – which means it is dust- and water-tight and thus fit for use in tough work environments.

Ready for connection to **12 / 24 volts**.

CRT 245 is suitable for:

WAECO PerfectView CRT 245

3.19

Reversing video system with 4.5" CRT monitor and b/w ball camera
Basic system with all standard functions

4.5" b/w CRT monitor M 45R

› Switches on automatically
› Automatic day / night adjustment
› Real-view or mirrored picture function
› 1 camera input
› Anti-dazzle sunshield
› Distance marks on adhesive film

Technical data	M 45R
Dimensions (W x H x D)	160 x 140 x 156 mm (incl. mount)
Diagonal screen dimension	4.5" / 115 mm (visible picture)
Operating voltage	11 to 32 volts DC
Power input	10 watts
Resolution	350 lines
Video standard	CCIR
Operating temperature	−20°C to +60°C
Vibration resistance	5 g
Weight	1000 g
Mirrored picture function	can be set
Test marks	E-approved

b/w ball camera CAM 10

› Anodised, die-cast, water-proof aluminium cabinet
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (120° diagonal)

Technical data	CAM 10
Dimensions (W x H x D)	69.5 x 66 x 55 mm (incl. mount)
Power input	approx. 1.0 watts
Picture sensor	1/4" CCD sensor
Resolution	380 lines
Picture angle	120° diagonal h: approx. 98° v: approx. 82°
Light sensitivity	< 0.5 lux or 0 lux with LED
Video standard	CCIR
Operating temperature	−10°C to +60°C
Vibration resistance	8 g
Weight	300 g
Type of protection	IP 68
Test marks	E-approved

Compact ball camera with LED

Monitor 4.5" | Camera b/w
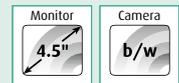
Camera IP 68 compliant

Compact ball camera with LED for enhanced night-time vision

Sturdy CRT monitor

Outstanding price / performance ratio

Ready for connection to 12 and 24 volts

E-approved

Scope of delivery: 4.5" b/w CRT monitor, b/w ball camera, 20 m monitor-to-camera connection cable, set of cables for monitor, anti-dazzle sunshield, installation fittings for all components

Product	Ref. No.
PerfectView CRT 245	RV-245

Contents, specifications and availability are subject to change serving the technical improvement.

88 – 89

WAECO PerfectView CRT

NEW
Camera with 145° picture angle

Safety for truckers' everyday routine

Tried and tested system with motor-operated camera shutter

Unbeatable in the category of CRT reversing video systems, the CRT 580 offers a variety of safety features that soon pay off in heavy-duty service: the **motor-operated camera shutter** protects the lens from dirt and damage during the drive – and gives you a clear view of the rear at any time.

The new, compact b/w camera convinces with an extra-large picture angle of 145° and a 1/3" SONY CCD picture sensor. The infrared LEDs for enhanced night-time vision are fitted in a separate window, which avoids reflection.

The temperature controlled heater prevents condensation build-up inside the camera and ensures fast image display on the screen when temperatures are low.

PerfectView CRT 580 is ready for connection to **12 / 24 volts**.

PerfectView Accessories – cable kits

The right solution for each type of truck: WAECO offers ready-to-install cable kits for the two most common towing systems, truck / trailer or tractor / trailer. **A fast way to improve safety!**
See pages 94 and 95 for details.

CRT 580 is suitable for:

WAECO PerfectView CRT 580

3.19

Reversing video system with 5" CRT monitor and b/w shutter camera
Successor of the tried and tested CRT 100 system. Camera with motor-operated shutter and heated electronics

■ 5" b/w CRT monitor M 50 R1

› For 12-volt and 24-volt operating voltage
› Real-view or mirrored picture function
› Two camera sockets (EIA)
› Day / night adjustment of picture brightness, automatically or manually
› Switches on automatically or by manual operation
› Contrast / brightness adjustment

Technical data	M 50 R1
Dimensions (W x H x D)	187 x 163 x 201 mm (incl. mount)
Diagonal screen dimension	5" / 128 mm (visible picture)
Operating voltage	11 to 32 volts DC
Power input	12 watts
Resolution	520 lines
Video standard	EIA
Operating temperature	−20°C to +60°C
Vibration resistance	4 g
Weight	1300 g
Picture brightness	300 cd/m²
Mirrored picture function	can be set
Test marks	E-approved

■ b/w shutter camera CAM 80

› Automatic, motor-operated shutter to prevent soiling of the camera lens
› Anodised and powder-coated aluminium housing with protective cap and mount in stainless steel
› Temperature controlled heater
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (145° diagonal)

Technical data	CAM 80
Dimensions (W x H x D)	106 x 68 x 54 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	1.8 watts with heater
Picture sensor	1/3" SONY CCD
Resolution	270,000 pixels
Picture angle	145° diagonal h: approx. 100° v: approx. 72°
Light sensitivity	< 0.5 lux or 0 lux with LED
Video standard	EIA
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	350 g
Brightness adjustment	electronic
Type of protection	IP 68
Test marks	E-approved

NEW
Super-small camera

NEW

Monitor Camera
5" b/w

Camera IP 68 compliant

2 camera inputs

b/w camera with heated electronics and motor-operated shutter

145° picture angle

Ready for connection to 12 and 24 volts

E-approved

Scope of delivery: 5" b/w CRT monitor, b/w shutter camera, 20 m monitor-to-camera connection cable, set of cables for monitor, installation fittings for all components, anti-dazzle sunshield

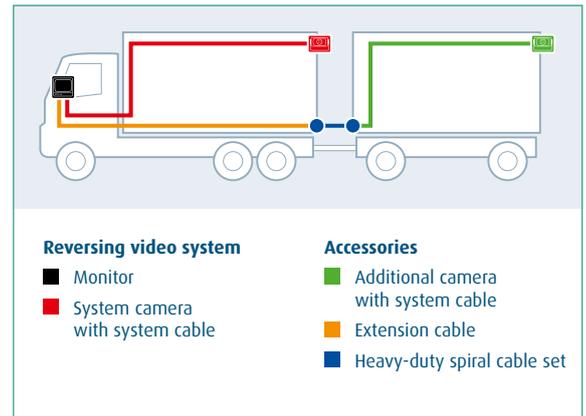| Product	Ref. No.
PerfectView CRT 580	9101900007

Camera with motor-operated shutter

Matching accessories for CRT reversing video systems – e.g. for connection of an additional camera – can be found on pages 92 – 95.

Contents, specifications and availability are subject to change serving the technical improvement.

90 – 91

WAECO PerfectView

Accessories for CRT reversing video systems

Do you need spare parts for your CRT reversing video system? Or do you want to upgrade it into an all-around vision solution including a side camera, a reversing camera for the trailer, or an additional camera to monitor the working area? Find what you need quickly and at reasonable prices in the PerfectView accessory range. In most cases it will be sufficient to order the additional camera along with the corresponding cables.

Reversing video system
- ■ Monitor
- ■ System camera with system cable

Accessories
- ■ Additional camera with system cable
- ■ Extension cable
- ■ Heavy-duty spiral cable set

WAECO PerfectView CAM 80   3.19

NEW

■ **b/w shutter camera**

› Automatic, motor-operated shutter to prevent soiling of the camera lens
› Anodised and powder-coated aluminium housing with protective cap and mount in stainless steel
› Temperature controlled heater
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (145° diagonal)

NEW Super-small camera

Technical data	CAM 80
Dimensions (W x H x D)	106 x 68 x 54 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	1.8 watts with heater
Picture sensor	1/3" SONY CCD
Resolution	270,000 pixels
Picture angle	145° diagonal h: approx. 100° v: approx. 72°
Light sensitivity	< 0.5 lux or 0 lux with LED
Video standard	EIA
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	350 g
Brightness adjustment	electronic
Type of protection	IP 68
Test marks	E-approved

Camera b/w

Camera IP 68 compliant

Robust camera with motor-operated shutter

Advanced technology in the smallest of space

Reliable in all weathers

E-approved

Scope of delivery: b/w shutter camera, 20 m monitor-to-camera connection cable, installation fittings for all components

Product	Ref. No.
PerfectView CAM 80	9102000021

WAECO PerfectView Accessories   3.19
System and extension cables

■ **Features & functions**

› 6-pole threaded connector

Product	Ref. No.
System and extension cable 5 m	9102200028
System and extension cable 10 m	9102200029
System and extension cable 20 m	9102200030

NEW

Water-proof

Threaded connection

WAECO PerfectView Accessories   3.19
Heavy-duty spiral cable set for trailers incl. sockets

■ **Features & functions**

› Trailer cable, 4 metres, heavy-duty design, ready-to-use with sockets (plug / jack)
› For towing vehicles with trailer / semi-trailer
› Especially suitable for commercial applications

NEW

Trailer cable for towing vehicles with trailer / semi-trailer in commercial applications
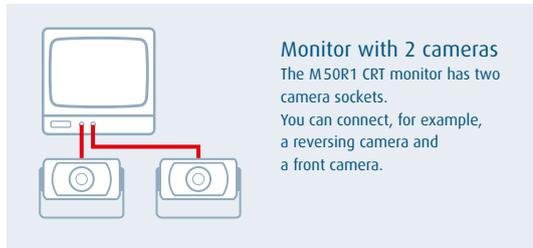
Product	Ref. No.
Heavy-duty spiral cable set for trailers incl. sockets	9102200031
Prepared system connections (available as single parts):	
Socket with male system plug	9102200065
Socket with female system jack	9102200064

Contents, specifications and availability are subject to change serving the technical improvement.

PerfectView SWITCH connects what you want connected

Using the switchbox you can connect up to three cameras to one monitor and control them individually! PerfectView SWITCH is compatible with almost any WAECO camera. The cameras can be activated either automatically or manually (e.g. the reversing camera via reverse gear, the side-mounted cameras via the indicator).

Monitor with 2 cameras
The M50R1 CRT monitor has two camera sockets.
You can connect, for example, a reversing camera and a front camera.

SWITCH

Turning 2 into 4 with PerfectView SWITCH
The same monitor, thanks to the switchbox, now with up to four cameras:
for example, a reversing camera, two side cameras (one each left and right), and an additional camera to monitor the working area

WAECO PerfectView SWITCH   3.19

Switchbox for additional reversing video applications
For running up to three independently controlled cameras from one monitor camera input

Features & functions
› Cameras can be activated either automatically or manually
   (e.g. reversing cameras via reverse gear, side-mounted cameras via indicators)
› Power consumption: 0.84 watts max. (without cameras)
› Suitable for 12- and 24-volt vehicle electrics

NEW

E-approved

Scope of delivery: switchbox, cable for connection to vehicle electrics, switch for manual activation of the cameras, switch box connection cable, fitting materials, installation and operating instruction

Product	Ref. No.
PerfectView SWITCH	9102200034

WAECO PerfectView Accessories   3.19

Cable adapters

ADAPT1
Camera adapter

ADAPT6
Monitor adapter

Features & functions
The two cable systems used by WAECO up to 2009 (black or grey) are replaced as of 2010 by a new, uniform cable system.
› Adapters for adapting installed cables when existing components are replaced by new ones; eliminate the need to re-lay cables
› Easy allocation to cable systems with colour-coded plug connectors
› Clear identification of suitable connections on the adapters

More adapters available on request

NEW

Product	Ref. No.
Cable adapters	
ADAPT1 Camera adapter, new socket / old plug (6-pin DIN, black cable)	9102200042
ADAPT6 Monitor adapter, new plug / old socket (6-pin DIN, black cable)	9102200057

Note: Adapters are only required for connecting the new monitors and cameras to older WAECO cables.
Any questions? Please contact the Dometic WAECO representation in your country.

WAECO PerfectView

Complete installation kit for towing vehicles with trailer

Do you want to combine your CRT or LCD reversing video system (p. 87) with a reversing camera on the trailer? No problem. Simply pick the camera you want from our range (p. 104 – 106). Everything you need for installation can be found in this extension kit: cables and connectors – all perfectly compatible and configured.

How to use the trailer cable kit

WAECO PerfectView reversing video system (see p. 87)

■ Monitor
■ System camera with system cable

Trailer cable kit

■ Extension cable
■ Heavy-duty spiral cable set

■ **Additional camera with system cable (see p. 104 – 106)**

WAECO PerfectView Accessory – trailer cable set   3.19

Complementary cable system for easy installation of a reversing video system with additional camera on vehicles with trailer

Components

■ **System and extension cable 9102200030**
with 6-pole threaded connectors, 20 m cable length

■ **Heavy-duty spiral cable set 9102200031**
spiral cable (4 m working length), heavy-duty design, incl. ready-to-use sockets (plug / jack), for towing vehicles with trailer / semi-trailer, especially suitable for commercial applications

Scope of delivery: 20 m system and extension cable, 4 m heavy-duty spiral cable set, installation fittings for all components

Product	Ref. No.
Trailer cable set	9102200040

NEW

Trailer cable set

System for vehicles with trailer =
Reversing video system (p. 87) **+ additional camera** (p. 104 – 106) **+ trailer cable set**

Contents, specifications and availability are subject to change serving the technical improvement.

Cable kit for tractor-trailers

Complete installation kit for tractor-trailer combinations

Easy to order, faultless installation: fit your tractor-trailer with a CRT or LCD reversing video system (p. 87) quickly and easily with this installation kit. All cables and connectors required for installation are included. Plug-in components make for simple and flexible installation.

How to use the tractor cable kit

WAECO PerfectView reversing video system (see p. 87)

- ■ Monitor
- ■ System camera with system cable

Tractor cable kit

- ■ Extension cable
- ■ Heavy-duty spiral cable set

WAECO PerfectView Accessory – tractor cable set   3.19

Complementary cable system for easy installation of a reversing video system on tractor-trailer vehicles

NEW

Cable kit for tractor-trailers

Components

- ■ **System and extension cable 9102200029**
  with 6-pole threaded connectors, 10 m cable length
- ■ **Heavy-duty spiral cable set 9102200031**
  spiral cable (4 m working length), heavy-duty design, incl. ready-to-use sockets (plug / jack), for towing vehicles with trailer / semi-trailer, especially suitable for commercial applications

Scope of delivery: 10 m system and extension cable, 4 m heavy-duty spiral cable set, installation fittings for all components

Product	Ref. No.
Tractor cable set	9102200039

System for tractor-trailers =
Reversing video system (p. 87) **+ tractor cable set**

Top cost / benefit ratio

The LCD class – at affordable entry-level prices

5" colour system with LED night-vision support

Calling this product an LCD entry-level system is pure understatement from a technical point of view. As one would expect from a WAECO system, it combines **outstanding features and functions with excellent quality and state-of-the-art technology**. All of this at an incredibly favourable price.

The new and compact PerfectView CAM 50C **colour camera** comes **with a high-quality SONY picture sensor** and features **120° wide angle vision, infrared LEDs, a temperature controlled heater, a microphone and concealed cable routing**. The integrated microphone can be used to give instructions to the driver from the outside – audible to the driver via the monitor's loudspeaker.

The **5" LCD colour monitor**, PerfectView M 5L, impresses with its **cool design and smart technology: brilliant, high-resolution LCD picture quality, control elements on the upper face of the cabinet, USB charger port as well as two video inputs** (e.g. for a DVD player or an additional camera). Featuring the new Easylink monitor mount, the monitor can be detached with a single movement of your hand (read more on this on p. 98).

RVS 550 is suitable for:

WAECO PerfectView RVS 550

3.19

Reversing video system with 5" LCD monitor and colour camera
Colour system with LED support

■ 5" LCD colour monitor M 5L

› For 12 volt and 24 volt operating voltage
› Switches on automatically
› Automatic day / night adjustment
› Real-view or mirrored picture function
› 235,000 pixels
› 2 camera inputs with separate controls
› Image settings can be saved for either camera
› Loudspeaker
› USB port for recharging of MP3 players, etc.
› LED background illumination

Technical data	M 5L
Dimensions (W x H x D)	144 x 128 x 120 mm (incl. mount)
Diagonal screen dimension	5" / 128 mm (visible picture)
Operating voltage	12 to 30 volts DC
Power input	10 watts
Resolution	235,000 pixels
Video standard	PAL / NTSC auto
Operating temperature	−15°C to +60°C
Vibration resistance	5 g
Weight	300 g
Picture brightness	300 cd/m²
Dimmer	automatic via LDR
Camera inputs	2 with signal recognition
Mirrored picture function	can be set
Test marks	E-approved

■ Colour camera CAM 50C

› Colour CCD camera (PAL) with LED
› Real-view or mirrored picture function
› Anodised and powder coated aluminium housing
› Adjustable anti-dazzle sunshield
› Microphone
› Temperature controlled heater
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (120° diagonal)

Technical data	CAM 50C
Dimensions (W x H x D)	94 x 62 x 48 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	1.8 watts with heater
Picture sensor	1/4" SONY CCD
Resolution	270,000 pixels
Picture angle	120° diagonal h: approx. 90° v: approx. 70°
Light sensitivity	< 1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	200 g
Brightness adjustment	electronic
Mirrored picture function	can be set
Type of protection	IP 68
Test marks	E-approved

With infrared LED!

NEW

Monitor 5" | Camera Colour

AUDIO | **Camera IP 68 compliant**

Compact, heated colour camera with LED for enhanced night-time vision

Signal recognition for a second camera fitted on a trailer

LCD monitor with LED background illumination

Easy-to-detach monitor (s. p. 98)

E-approved

Scope of delivery: 5" LCD colour monitor incl. Easylink monitor mount, colour camera, 20 m monitor-to-camera connection cable, set of cables for monitor, installation fittings for all components, anti-dazzle sunshield

Product	Ref. No.
PerfectView RVS 550	9101900009
Spare part	
Easylink monitor mount for 5" monitors	9102200049

PerfectView Accessories – cable kits

The right solution for each type of truck: WAECO offers ready-to-install cable kits for the two most common towing systems, truck / trailer or tractor / trailer. **A fast way to improve safety!** See pages 94 and 95 for details.

Contents, specifications and availability are subject to change serving the technical improvement.

96 – 97

WAECO PerfectView RVS

Great technology, compact size

High-grade 5" colour system with shutter camera

This WAECO reversing video system takes you up to professional level. The robust, sophisticated shutter camera CAM 80C withstands all weathers, the high-performance wide-angle lens (145° field of vision!) is protected from dirt and damage by a motor-operated shutter.

The **colour camera** features a high-performance 1/3" **SONY CCD picture sensor, infrared LEDs** for enhanced vision in dark surroundings, a **temperature controlled heater** as well as a **microphone**. Just like with the RVS 550 reversing video system, the **5" LCD colour**

monitor PerfectView M 5L provides **brilliant picture quality, ergonomic operation and technical options (second camera, DVD player)**. The monitor **can be detached with a click** to keep burglars out of mischief.
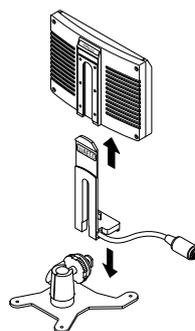
Easylink monitor mount

Easylink – the fast and secure mounting system for your monitor.
The base is firmly anchored in the cockpit, the monitor can be attached and detached with a click. Ideal when a monitor is used in various vehicles of a fleet, or for anti-theft protection.

RVS 580 is suitable for:

WAECO PerfectView RVS 580

3.19

Reversing video system with 5" LCD monitor and colour shutter camera
Colour system with LED support

■ 5" LCD colour monitor M 5L

› For 12 volt and 24 volt operating voltage
› Switches on automatically
› Automatic day / night adjustment
› Real-view or mirrored picture function
› 235,000 pixels
› 2 camera inputs with separate controls
› Image settings can be saved for either camera
› Loudspeaker
› USB port for recharging of MP3 players, etc.
› LED background illumination

Technical data	M 5L
Dimensions (W x H x D)	144 x 128 x 120 mm (incl. mount)
Diagonal screen dimension	5" / 128 mm (visible picture)
Operating voltage	12 to 30 volts DC
Power input	10 watts
Resolution	235,000 pixels
Video standard	PAL / NTSC auto
Operating temperature	−15°C to +60°C
Vibration resistance	5 g
Weight	300 g
Picture brightness	300 cd/m²
Dimmer	automatic via LDR
Camera inputs	2 with signal recognition
Mirrored picture function	can be set
Test marks	E-approved

■ Colour shutter camera CAM 80C

› Colour CCD camera (PAL) with LED
› Factory-preset mirrored picture function
› Automatic, motor-operated shutter to prevent soiling of the camera lens
› Anodised and powder coated aluminium housing with protective cap and mount in stainless steel
› Microphone
› Temperature controlled heater
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (145° diagonal)

Technical data	CAM 80C
Dimensions (W x H x D)	106 x 68 x 54 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	1.8 watts with heater
Picture sensor	1/3" SONY CCD
Resolution	270,000 pixels
Picture angle	145° diagonal h: approx. 100° v: approx. 72°
Light sensitivity	< 1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	350 g
Brightness adjustment	electronic
Mirrored picture function	factory preset
Type of protection	IP 68
Test marks	E-approved

With infrared LED!

NEW

Monitor 5"　Camera Colour

AUDIO　Camera IP 68 compliant

Compact camera with motor-operated shutter

Signal recognition for a second camera fitted on a trailer

LCD monitor with LED background illumination

Easy-to-detach monitor

E-approved

Scope of delivery: 5" LCD colour monitor incl. Easylink monitor mount, colour shutter camera, 20 m monitor-to-camera connection cable, set of cables for monitor, installation fittings for all components

Product	Ref. No.
PerfectView RVS 580	9101900020
Spare part	
Easylink monitor mount for 5" monitors	9102200049

PerfectView Accessories – cable kits

The right solution for each type of truck: WAECO offers ready-to-install cable kits for the two most common towing systems, truck / trailer or tractor / trailer. **A fast way to improve safety!** See pages 94 and 95 for details.

Automatic, motor-operated shutter to prevent soiling of the camera lens

Matching accessories for LCD reversing video systems – e.g. for connection of an additional camera – can be found on pages 104 – 107.

WAECO PerfectView RVS

7" monitor in a class of its own

Enhanced picture quality – the 7" class
LCD colour system with large, brilliant display

A class of its own: the PerfectView RVS 750X reversing video system gives you even more peace of mind while manœuvring. Its **high-resolution 7" LCD colour monitor** delivers **crystal-clear pictures** – just sit back and have the situation behind your vehicle in comfortable view.

The PerfectView M 7LX monitor is bound to delight you: **cool design, ergonomic control elements** placed on the upper face of the cabinet, **brilliant picture quality** in all light conditions. Featuring a **USB charger port and three video inputs** the monitor offers various add-on options (DVD player, front camera, etc.) A single move-ment of your hand is enough to release the display from the mount.

The **PerfectView CAM 50C colour camera** features a high-quality 1/4" **SONY picture sensor, a 120° wide angle vision, infrared LEDs** for enhanced vision in dark surroundings, a **temperature controlled heater**, a **microphone** as well as **concealed cable routing**.

PerfectView Accessories – cable kits

The right solution for each type of truck: WAECO offers ready-to-install cable kits for the two most common towing systems, truck/trailer or tractor/trailer. **A fast way to improve safety!**
See pages 94 and 95 for details.

RVS 750X is suitable for:

WAECO PerfectView RVS 750X

3.19

Reversing video system with 7" LCD monitor and colour camera
High-end system for ultimate comfort and convenience – optimal day and night-time vision
with large 7" colour monitor and light-sensitive infrared LED camera

■ 7" LCD colour monitor M 7LX

› For 12-volt and 24-volt operating voltage
› Switches on automatically or by manual operation
› Automatic day / night adjustment
› Real-view or mirrored picture function
› Adjustable distance marks
› 3 camera inputs with separate controls
› Image settings can be saved for either camera
› Loudspeaker
› USB port for recharging of MP3 players, etc.
› LED background illumination

Technical data	M 7LX
Dimensions (W x H x D)	186 x 145 x 120 mm (incl. mount)
Diagonal screen dimension	7" / 178 mm (visible picture)
Operating voltage	12 to 30 volts DC
Power input	12 watts
Resolution	337,000 pixels
Video standard	PAL / NTSC auto
Operating temperature	−15°C to +60°C
Vibration resistance	5 g
Weight	450 g
Picture brightness	300 cd/m²
Dimmer	automatic via LDR
Camera inputs	3 with signal recognition
Mirrored picture function	can be set
Test marks	E-approved

■ Colour camera CAM 50C

› Colour CCD camera (PAL) with LED
› Real-view or mirrored picture function
› Anodised and powder coated aluminium housing
› Adjustable anti-dazzle sunshield
› Microphone
› Temperature controlled heater
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (120° diagonal)

Technical data	CAM 50C
Dimensions (W x H x D)	94 x 62 x 48 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	1.8 watts with heater
Picture sensor	1/4" SONY CCD
Resolution	270,000 pixels
Picture angle	120° diagonal h: approx. 90° v: approx. 70°
Light sensitivity	< 1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	200 g
Brightness adjustment	electronic
Mirrored picture function	can be set
Type of protection	IP 68
Test marks	E-approved

With infrared LED!

NEW

Monitor 7"   Camera Colour

AUDIO   Camera IP 68 compliant

Compact, heated colour camera with LED for enhanced night-time vision

**Signal recognition for a second camera fitted on a trailer**

LCD monitor with LED background illumination

Easy-to-detach monitor (s. p. 98)

Monitor with sequence switching for up to 3 cameras

Adjustable distance marks (see picture below)

E-approved

Scope of delivery: 7" LCD colour monitor incl. Easylink monitor mount, colour camera, 20 m monitor-to-camera connection cable, set of cables for monitor, installation fittings for all components, anti-dazzle sunshield

Product	Ref. No.
PerfectView RVS 750X	9101900010
Spare part	
Easylink monitor mount for 7" monitors	9102200050
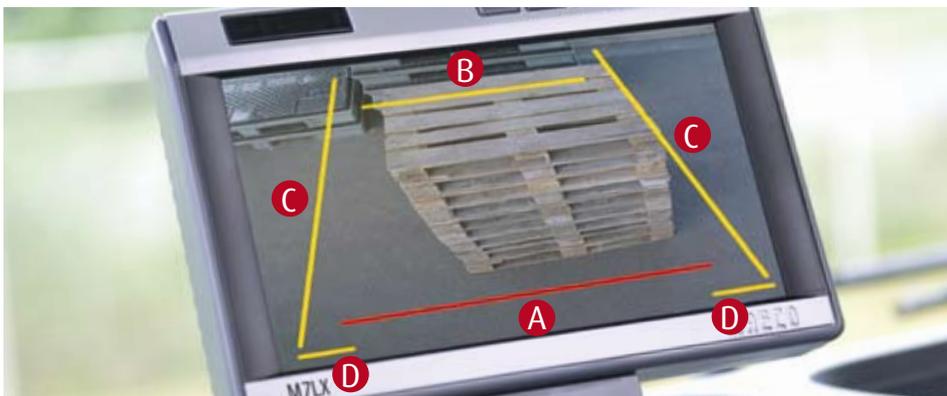
Distance marks on the monitor

This feature is unique to the new 7" monitor M 7LX: adjustable, coloured distance marks showing the vehicle width, the warning line and the stop line. The driver can always see which obstacles are in the danger zone and which are definitely not. Manœuvring is safe and convenient, even with a 40-tonne truck.

A: Stop line at 0.5 m distance
B: Warning line at 3 m distance
C: Reference line for vehicle width
D: Vehicle rear

WAECO PerfectView RVS

Colour shutter camera with infrared **LED**

Premium technology for professional truckers

7" LCD colour monitor plus LED shutter camera

The best camera available, the best monitor around: welcome to the premium class! The PerfectView RVS 780X reversing video system combines the benefits of a 7" LCD colour monitor with those of an LED shutter camera.

Using a high-performance 1/3" **SONY CCD picture sensor**, the PerfectView CAM 80C colour camera takes **very detailed pictures**, its lens yields a picture angle of 145°. **Infrared LEDs** improve vision in dark surroundings, the **temperature controlled heater** ensures reliable operation on cold days. The built-in **microphone** can be used to give manœuvring instructions from the outside.

The **motor-operated shutter** protects the camera from dirt and damage.

The high-resolution image signals captured by the camera are adequately reproduced on the screen of the 7" LCD colour monitor: excellent resolution, **brilliant colours** – the picture you receive is **high in contrast** and clearly visible **in all light conditions**. **Innovative design** and **ergonomic operation** are other hallmarks of this high-end system, which also features a **USB charger port** and **three video inputs**. **Thanks to the Easylink mount the monitor can be detached** (see p. 98 for more details).

PerfectView Accessories – cable kits

The right solution for each type of truck: WAECO offers ready-to-install cable kits for the two most common towing systems, truck / trailer or tractor / trailer. **A fast way to improve safety!** See pages 94 and 95 for details.

RVS 780X is suitable for:

WAECO PerfectView RVS 780X

3.19

Reversing video system with 7" LCD monitor and colour shutter camera
High-end system for ultimate comfort and convenience – optimal day and night-time vision
with large 7" colour monitor and light-sensitive infrared LED camera

■ 7" LCD colour monitor M 7LX

› For 12-volt and 24-volt operating voltage
› Switches on automatically or by manual operation
› Automatic day / night adjustment
› Real-view or mirrored picture function
› Adjustable distance marks
› 3 camera inputs with separate controls
› Image settings can be saved for either camera
› Loudspeaker
› USB port for recharging of MP3 players, etc.
› LED background illumination

Technical data	M 7LX
Dimensions (W x H x D)	186 x 145 x 120 mm (incl. mount)
Diagonal screen dimension	7" / 178 mm (visible picture)
Operating voltage	12 to 30 volts DC
Power input	12 watts
Resolution	337,000 pixels
Video standard	PAL / NTSC auto
Operating temperature	−15°C to +60°C
Vibration resistance	5 g
Weight	450 g
Picture brightness	300 cd/m²
Dimmer	automatic via LDR
Camera inputs	3 with signal recognition
Mirrored picture function	can be set
Test marks	E-approved

■ Colour shutter camera CAM 80C

› Colour CCD camera (PAL) with LED
› Factory-preset mirrored picture function
› Automatic, motor-operated shutter to prevent soiling of the camera lens
› Anodised and powder coated aluminium housing with protective cap and mount in stainless steel
› Microphone
› Temperature controlled heater
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (145° diagonal)

Technical data	CAM 80C
Dimensions (W x H x D)	106 x 68 x 54 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	1.8 watts with heater
Picture sensor	1/3" SONY CCD
Resolution	270,000 pixels
Picture angle	145° diagonal; h: approx. 100° v: approx. 72°
Light sensitivity	< 1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	350 g
Brightness adjustment	electronic
Mirrored picture function	factory preset
Type of protection	IP 68
Test marks	E-approved

With infrared LED!

NEW

Monitor 7"

Camera Colour

AUDIO

Camera IP 68 compliant

Compact camera with motor-operated shutter

Signal recognition for a second camera fitted on a trailer

LCD monitor with LED background illumination

Easy-to-detach monitor (s. p. 98)

Monitor with sequence switching for up to 3 cameras

Adjustable distance marks (see picture below)

E-approved

Scope of delivery: 7" LCD colour monitor incl. Easylink monitor mount, colour shutter camera, 20 m monitor-to-camera connection cable, set of cables for monitor, installation fittings for all components

Product	Ref. No.
PerfectView RVS 780X	9101900008
Spare part	
Easylink monitor mount for 7" monitors	9102200050
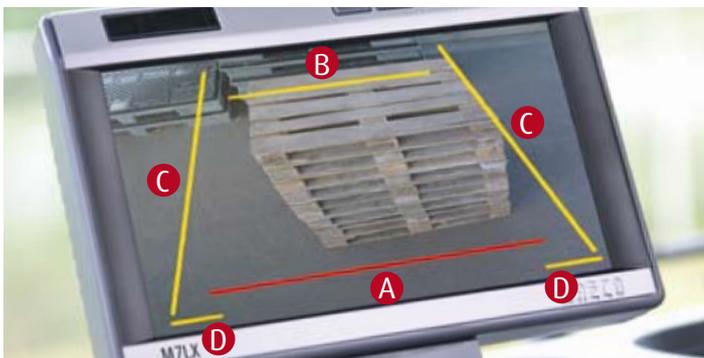
Distance marks on the monitor

A: Stop line at 0.5 m distance   B: Warning line at 3 m distance
C: Reference line for vehicle width   D: Vehicle rear

The adjustable distance marks clearly show which obstacles are in the danger zone. This makes reverse parking safe and simple, even with a 40-tonne truck.
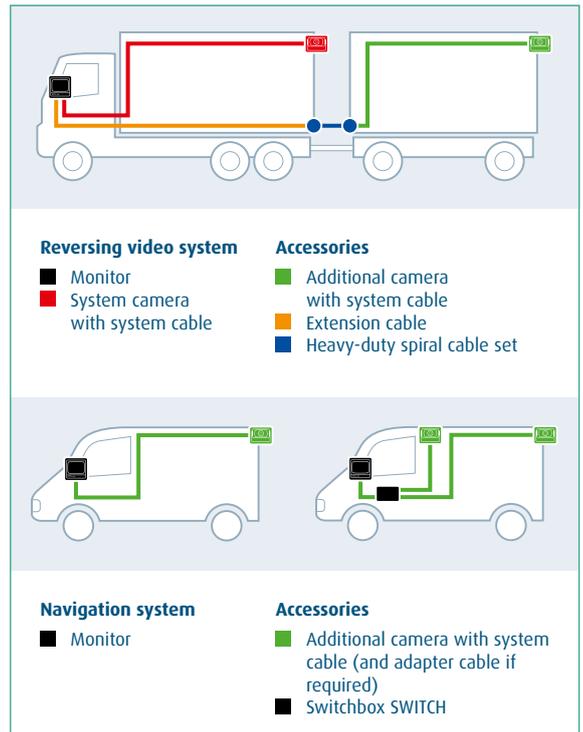
Matching accessories for LCD reversing video systems – e.g. for connection of an additional camera – can be found on pages 104 – 107.

WAECO PerfectView

Cameras for LCD reversing video systems and navigation systems

Do you want to add one or more camera(s) to your LCD reversing video system? Front, side or trailer camera – Dometic WAECO has the right camera for every demand and budget. Installation is hassle-free, all fittings are included in the delivery kit.

Do you have a navigation system with monitor fitted in your vehicle? Then it's easy and cost-efficient for you to get a fully-fledged reversing video system. All you have to do is connect a WAECO PerfectView rear-view camera to the monitor of your navigation system.

Matching adapter cables are available as optional accessories. All camera kits are supplied complete with adapter cables.

Reversing video system
- ■ Monitor
- ■ System camera with system cable

Accessories
- ■ Additional camera with system cable
- ■ Extension cable
- ■ Heavy-duty spiral cable set

Navigation system
- ■ Monitor

Accessories
- ■ Additional camera with system cable (and adapter cable if required)
- ■ Switchbox SWITCH

Preconditions for connecting a rear-view camera

Navigation systems PREPARED for video applications ...
... generally have a cinch / RCA socket as video input (A/V or AUX). WAECO PerfectView cameras – fitted with a connection box or adapter – can be directly connected to these systems.

Navigation systems NOT PREPARED for video applications ...
... can only be upgraded with a rear-view camera if the manufacturer of the navigation system offers a matching video converter.

Things to consider before buying a camera:
- › Is the monitor of your navigation system able to produce a mirrored view of the picture?
  Important note: Only a mirrored monitor picture will be useful for reversing, because it gives you the familiar rear-view-mirror view.

  WAECO PerfectView cameras come with factory-preset mirrored picture function.
- › Does the monitor recognise NTSC and PAL video formats?
- › WAECO PerfectView cameras are suitable e.g. for navigation systems from Kenwood, Panasonic and Pioneer.

Note: Any questions? We are here to help. Detailed information on all products can be found at **www.dometic-waeco.com**. Also feel free to contact the Dometic WAECO representation in your country.

Contents, specifications and availability are subject to change serving the technical improvement.

WAECO PerfectView CAM 50C / CAM 50NAV

3.19

- **Colour camera CAM 50C**
- **Colour camera for navigation systems CAM 50NAV**

› Colour CCD camera (PAL) with LED
› Real-view or mirrored picture function
› Anodised and powder coated aluminium housing
› Adjustable anti-dazzle sunshield
› Microphone
› Temperature controlled heater
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (120° diagonal)

Technical data	CAM 50C / CAM 50NAV
Dimensions (W x H x D)	94 x 62 x 48 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	1.8 watts with heater
Picture sensor	1/4" SONY CCD
Resolution	270,000 pixels
Picture angle	120° diagonal h: approx. 90° v: approx. 70°
Light sensitivity	< 1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	200 g
Brightness adjustment	electronic
Mirrored picture function	can be set
Type of protection	IP 68
Test marks	E-approved

Camera Colour · Camera IP 68 compliant · AUDIO

LED for enhanced night-time vision

CAM 50NAV is fitted with an RCA plug for connection to navigation systems

E-approved

Scope of delivery: colour camera, 20 m monitor-to-camera connection cable, installation fittings for all components, anti-dazzle sunshield, adapter cable for navigation systems (CAM 50NAV only)

Product	Ref. No.
PerfectView CAM 50C	9102000019
PerfectView CAM 50NAV	9102000022

WAECO PerfectView CAM 80C / CAM 80NAV

3.19

PerfectView CAM 80C

PerfectView CAM 80NAV

Universal use with second AV video output

- **Colour shutter camera CAM 80C**
- **Colour shutter camera for navigation systems CAM 80NAV**

› Colour CCD camera (PAL) with LED
› Factory-preset mirrored picture function
› Automatic, motor-operated shutter to prevent soiling of the camera lens
› Anodised and powder coated aluminium housing with protective cap and mount in stainless steel
› Microphone
› Temperature controlled heater
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (145° diagonal)

Technical data	CAM 80C / CAM 80NAV
Dimensions (W x H x D)	106 x 68 x 54 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	1.8 watts with heater
Picture sensor	1/3" SONY CCD
Resolution	270,000 pixels
Picture angle	145° diagonal h: approx. 100° v: approx. 72°
Light sensitivity	< 1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	350 g
Brightness adjustment	electronic
Mirrored picture function	factory preset
Type of protection	IP 68
Test marks	E-approved

Camera Colour · Camera IP 68 compliant · AUDIO

Colour camera with motor-operated shutter

Active infrared LED for optimal night-time vision

CAM 80NAV is fitted with the connection box PerfectView AMP 100 for connection to navigation systems

E-approved

PerfectView AMP 100

› The connection box allows you to connect the camera to almost any monitor with PAL video format.
› Second AV video output (RCA), e.g. for computers, navigation, TV

Technical data	AMP 100
Dimensions (W x H x D)	57 x 130 x 30 mm
Operating voltage	12 to 24 volts DC
1 camera / monitor input 1 AV output	

Scope of delivery: colour shutter camera, 20 m monitor-to-camera connection cable, installation fittings for all components, connection box PerfectView AMP 100 (CAM 80NAV only)

Product	Ref. No.
PerfectView CAM 80C	9102000018
PerfectView CAM 80NAV	9102000023

WAECO PerfectView SWITCH

3.19

Switchbox for connection of more than one camera to navigation systems

- **Features & functions**

› Cameras can be activated either automatically or manually (e.g. reversing cameras via reverse gear, side-mounted cameras via indicators)
› Power consumption: 0.84 watts max. (without cameras)
› Suitable for 12- and 24-volt vehicle electrics

E-approved

Product	Ref. No.
PerfectView SWITCH	9102200034

Contents, specifications and availability are subject to change serving the technical improvement.

104 – 105

WAECO PerfectView

WAECO PerfectView CAM 16

▪ Colour cylinder camera

Camera for discreet mounting in bumpers, bus mirrors, etc.
› Colour cylinder camera (PAL)
› Real-view or mirrored picture function
› High light sensitivity
› Can be fitted with or without mounting bracket
› Mounting bracket included in the delivery kit
› Compact size
› Wide-angle lens with large picture angle (150° diagonal)

Technical data	CAM 16
Dimensions (Ø x L)	30 x 46 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	approx. 1.0 watts
Picture sensor	1/4" CCD sensor
Resolution	270,000 pixels
Picture angle	150° diagonal h: approx. 102° v: approx. 73°
Light sensitivity	< 1 lux
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	200 g
Brightness adjustment	electronic
Mirrored picture function	can be set
Type of protection	equivalent to IP 68
Test marks	E-approved

Scope of delivery: colour cylinder camera, mounting bracket, 20 m monitor-to-camera connection cable, installation fittings for all components

Product	Ref. No.
PerfectView CAM 16	RV-16
Optional extras: ADAPT5 Adapter cable for navigation systems	9102200047

Camera **Colour**

Extra small

The ideal side camera

Ready for connection to navigation systems with adapter cable (see page 104)

E-approved

WAECO PerfectView CAM 30C

▪ Colour ball camera

Colour ball camera with very flexible mount for accurate alignment
› Colour CCD camera (PAL)
› Real-view or mirrored picture function
› Sturdy, water-proof aluminium housing
› Microphone
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (120° diagonal)

Technical data	CAM 30C
Dimensions (W x H x D)	72 x 60 x 63 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	approx. 1.8 watts
Picture sensor	1/4" CCD sensor
Resolution	270,000 pixels
Picture angle	120° diagonal h: approx. 90° v: approx. 70°
Light sensitivity	< 1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	8 g
Weight	200 g
Brightness adjustment	electronic
Mirrored picture function	can be set
Type of protection	IP 68
Test marks	E-approved

Scope of delivery: colour ball camera, 20 m monitor-to-camera connection cable, installation fittings for all components

Product	Ref. No.
PerfectView CAM 30C	2222000005
Optional extras: ADAPT5 Adapter cable for navigation systems	9102200047

Camera **Colour** **Camera IP 68 compliant**

AUDIO

The ideal side camera

Ready for connection to navigation systems with adapter cable (see page 104)

E-approved

WAECO PerfectView CAM 40

▪ Colour front camera

Colour ball camera with very flexible mount for accurate alignment
› Colour CCD camera (PAL)
› Real-view or mirrored picture function
› Sturdy, water-proof aluminium housing
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (130° diagonal)

Technical data	CAM 40
Dimensions (W x H x D)	72 x 60 x 63 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	approx. 1.8 watts
Picture sensor	1/3" CCD sensor
Resolution	290,000 pixels
Picture angle	130° diagonal h: approx. 90° v: approx. 70°
Light sensitivity	< 0.1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	10 g
Weight	200 g
Brightness adjustment	electronic
Mirrored picture function	can be set
Type of protection	IP 68
Test marks	E-approved

Scope of delivery: colour front camera, 20 m monitor-to-camera connection cable, installation fittings for all components

Product	Ref. No.
PerfectView CAM 40	9102000011

Camera **Colour** **Camera IP 68 compliant**

In combination with the M 7LX monitor certified for use as a front camera system according to 2003/97/EG mirror directive

E-approved

Contents, specifications and availability are subject to change serving the technical improvement.

Accessories for LCD reversing video systems

WAECO PerfectView VS 200

3.19

Video splitter for WAECO cameras with PAL video standard

› Displays the video images from two connected cameras on a single monitor
› Camera activation via control signals, such as indicators or reverse gear
› Split mode or display of single camera image can be set manually

Technical data	VS 200
Dimensions (W x H x D)	130 x 115 x 35 mm
Operating voltage	10 to 32 volts DC
Camera inputs	2
Control inputs	External / switch
Display	Cam1 / Cam2 / Split
Weight	600 g

NEW

Two camera pictures at a glance

E-approved

Scope of delivery: video splitter with supply cable (1.0 m), operating instructions

Product	Ref. No.
PerfectView VS 200	9102200036

WAECO PerfectView Accessories

3.19

System and extension cables

Features & functions

› 6-pole threaded connector

Product	Ref. No.
System and extension cable 5 m	9102200028
System and extension cable 10 m	9102200029
System and extension cable 20 m	9102200030

NEW

Water-proof

Threaded connection

Heavy-duty spiral cable set for trailers incl. sockets

Features & functions

› Trailer cable, 4 metres, heavy-duty design, ready-to-use with sockets (plug / jack)
› For towing vehicles with trailer / semi-trailer
› Especially suitable for commercial applications

Product	Ref. No.
Heavy-duty spiral cable set for trailers incl. sockets	9102200031
Prepared system connections (available as single parts):	
Socket with male system plug	9102200065
Socket with female system jack	9102200064

NEW

Trailer cable for towing vehicles with trailer / semi-trailer in commercial applications

WAECO PerfectView SWITCH

3.19

Switchbox for additional reversing video applications
For running up to three independently controlled cameras from one monitor camera input

Features & functions

See description on page 93

Product	Ref. No.
PerfectView SWITCH	9102200034

NEW

E-approved

Cable adapters

ADAPT2
Camera adapter

ADAPT3
Monitor adapter

Features & functions

The two cable systems used by WAECO up to 2009 (black or grey) are replaced as of 2010 by a new, uniform cable system.

› Adapters for adapting installed cables when existing components are replaced by new ones; eliminate the need to re-lay cables
› Easy allocation to cable systems with colour-coded plug connectors
› Clear identification of suitable connections on the adapters

More adapters available on request

NEW

Product	Ref. No.
Cable adapters	
ADAPT2 Camera adapter, new socket / old plug (6-pin DIN, grey cable)	9102200043
ADAPT3 Monitor adapter, new plug / old socket (6-pin DIN, grey cable)	9102200046

More vision – more safety

The PerfectView FVS 740X front camera system

David against Goliath: to this day bad accidents happen at crossroads, T-junctions and roundabouts, because truck drivers overlook pedestrians or cyclists next to their vehicle. Every year 400 people in Europe die from the consequences of such accidents.

The **PerfectView FVS 740X front camera system** gives you a perfect overview of what's happening in front and beside your vehicle.

Alternatively, you can fit your vehicle with a combined front camera / reversing video system. The modular PerfectView range gives you various options. For example, you can simply upgrade the PerfectView FVS 740X front camera system **by adding a rear-view camera** (p. 110 – 111). Or you buy the **CAM 40 front camera** and combine it with one of our **7" LCD reversing video systems (RVS 750X or RVS 780X)**. Both work with the M 7LX LCD colour monitor, which – in combination with the CAM 40 – is certified as a front camera system according to the 2003/97/EC mirror directive.

FVS 740X is suitable for:

The mirror produces a reversed and distorted image. The driver's line of vision is outside the wiper area.

The extremely wide angle entails the risk of dazzle.

The front mirror protrudes over the sun visor: risk of damage in the wash bay, by tree branches, or when manœuvring.

The camera delivers a true-sided image. The picture on the monitor is crystal-clear, bright and high in contrast.

Safety bonus at night-time: the ball camera provides high-contrast pictures even in unlighted parking areas.

The compact ball camera does not protrude beyond the bodywork: optimal protection from damage in the wash bay, by tree branches or when manœuvring.

WAECO PerfectView FVS 740X

3.19

Front camera system with 7" LCD monitor and colour camera
Favourably priced system for vehicles of 7.5 tonnes and above (24 V)
Large monitor with detailed picture reproduction and many programmable functions, e.g. camera activation

■ 7" LCD colour monitor M 7LX

› For 12-volt and 24-volt operating voltage
› Switches on automatically or by manual operation
› Automatic day / night adjustment
› Real-view or mirrored picture function
› 3 camera inputs with separate controls
› Image settings can be saved for either camera
› Loudspeaker
› USB port for recharging of MP3 players, etc.
› LED background illumination

Technical data	M 7LX
Dimensions (W x H x D)	186 x 145 x 120 mm (incl. mount)
Diagonal screen dimension	7" / 178 mm (visible picture)
Operating voltage	12 to 30 volts DC
Power input	12 watts
Resolution	337,000 pixels
Video standard	PAL / NTSC auto
Operating temperature	−15°C to +60°C
Vibration resistance	5 g
Weight	450 g
Picture brightness	300 cd/m²
Dimmer	automatic via LDR
Camera inputs	3 with signal recognition
Mirrored picture function	can be set
Test marks	E-approved

■ Colour front camera CAM 40

Colour ball camera with very flexible mount for accurate alignment
› Colour CCD camera (PAL)
› Real-view or mirrored picture function
› Sturdy, water-proof aluminium housing
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (130° diagonal)

Technical data	CAM 40
Dimensions (W x H x D)	72 x 60 x 63 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	approx. 1.8 watts
Picture sensor	1/3" CCD sensor
Resolution	290,000 pixels
Picture angle	130° diagonal h: approx. 90° v: approx. 70°
Light sensitivity	< 0.1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	10 g
Weight	200 g
Brightness adjustment	electronic
Mirrored picture function	can be set
Type of protection	IP 68
Test marks	E-approved

Scope of delivery: 7" LCD colour monitor incl. Easylink monitor mount, colour front camera, 5 m monitor-to-camera connection cable, set of cables for monitor, installation fittings for all components

Product	Ref. No.
PerfectView FVS 740X	9101900023
Spare part	
Easylink monitor mount for 7" monitors	9102200050

NEW

Monitor 7"
Camera Colour

EU certified
Camera IP 68 compliant

Front camera system according to 2003/97/EC mirror directive

7" colour monitor with LED background illumination for maximum picture quality

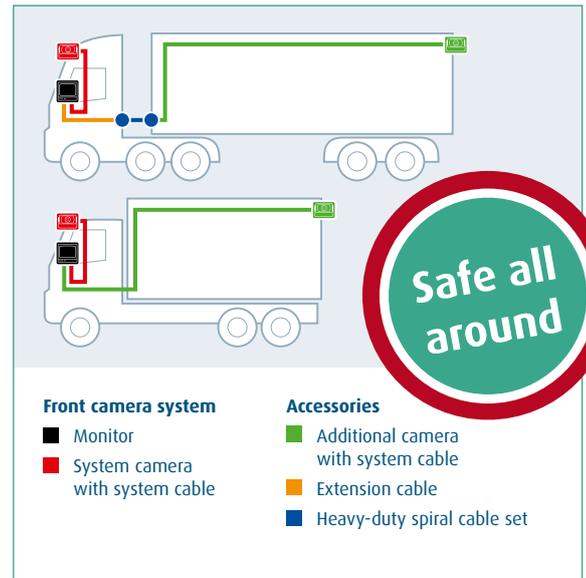Easy-to-detach monitor (s. p. 98)

Monitor with 3 camera inputs

E-approved

Automatic enabling / disabling with PerfectView GPS 30 (see page 111)

Contents, specifications and availability are subject to change serving the technical improvement.

108 – 109

WAECO PerfectView

Cameras and accessories to complement front camera systems

You have fitted a front camera system? Here is an interesting upgrade option: simply connect a reversing camera to the second monitor input – and you'll be able to monitor the "blind spot" as well as the area behind your vehicle.

Good to know: the two systems don't interfere with one another. The front camera is activated by the indicator, the rear-view camera by reverse gear. If you add the new GPS 30 signal transmitter (page 111), the front camera will turn on only at relevant speeds of under 30 km/h. Using the SWITCH switchbox (page 117) gives you the option to connect two additional cameras, e.g. for the trailer or for monitoring a working area.

Safe all around

Front camera system
- ■ Monitor
- ■ System camera with system cable

Accessories
- ■ Additional camera with system cable
- ■ Extension cable
- ■ Heavy-duty spiral cable set

WAECO PerfectView CAM 80C   3.19

NEW

■ Colour shutter camera

- › Colour CCD camera (PAL) with LED
- › Factory-preset mirrored picture function
- › Automatic, motor-operated shutter to prevent soiling of the camera lens
- › Anodised and powder coated aluminium housing with protective cap and mount in stainless steel
- › Microphone
- › Temperature controlled heater
- › Electronic brightness adjustment
- › LDR controlled IR LEDs
- › Wide-angle lens with large picture angle (145° diagonal)

Technical data	CAM 80C
Dimensions (W x H x D)	106 x 68 x 54 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	1.8 watts with heater
Picture sensor	1/3" SONY CCD
Resolution	270,000 pixels
Picture angle	145° diagonal h: approx. 100° v: approx. 72°
Light sensitivity	< 1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	350 g
Brightness adjustment	electronic
Mirrored picture function	factory preset
Type of protection	IP 68
Test marks	E-approved

NEW Super-small camera

Camera Colour · Camera IP 68 compliant · AUDIO

Colour camera with motor-operated shutter

145° picture angle

Active infrared LED for optimal night-time vision

E-approved

Scope of delivery: colour shutter camera, 20 m monitor-to-camera connection cable, extension cable adapter (see p. 111), installation fittings for all components

Product	Ref. No.
PerfectView CAM 80C	9102000018

WAECO PerfectView CAM 50C   3.19

NEW

■ Colour camera

- › Colour CCD camera (PAL) with LED
- › Real-view or mirrored picture function
- › Anodised and powder coated aluminium housing
- › Adjustable anti-dazzle sunshield
- › Microphone
- › Temperature controlled heater
- › Electronic brightness adjustment
- › LDR controlled IR LEDs
- › Wide-angle lens with large picture angle (120° diagonal)

Technical data	CAM 50C
Dimensions (W x H x D)	94 x 62 x 48 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	1.8 watts with heater
Picture sensor	1/4" SONY CCD
Resolution	270,000 pixels
Picture angle	120° diagonal h: approx. 90° v: approx. 70°
Light sensitivity	< 1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	200 g
Brightness adjustment	electronic
Mirrored picture function	can be set
Type of protection	IP 68
Test marks	E-approved

With infrared LED!

Camera Colour · Camera IP 68 compliant · AUDIO

Active infrared LED for optimal night-time vision

E-approved

Scope of delivery: colour camera, 20 m monitor-to-camera connection cable, installation fittings for all components

Product	Ref. No.
PerfectView CAM 50C	9102000019

Contents, specifications and availability are subject to change serving the technical improvement.

Extra-convenient: speed-dependent enabling / disabling by GPS

PerfectView front camera systems turn on automatically as you start the ignition and stay on during the drive. According to the EU mirror directive, it is recommendable to disable the systems at speeds over 30 km/h when the danger of damaging people in blind spot accidents is no longer present and the monitor image may disturb or distract the driver.

Naturally, you don't need to bother with switching the front camera system on and off in good time. The PerfectView GPS 30 signal transmitter will do that for you – safely and reliably. It uses a GPS speed signal to turn the front camera system off when the speed exceeds 40 km/h – and on again at a speed below 30 km/h.

WAECO PerfectView GPS 30   3.06

Signal transmitter for speed-dependent enabling / disabling

› Enabling when speed falls below 30 km/h, disabling when speed exceeds 40 km/h
› Speed information received via GPS
› Universal use, little installation effort

Technical data	GPS 30
Dimensions (W x H x D)	62 x 25 x 85 mm
Operating voltage	10 to 32 volts DC
Speed signal	via GPS
Switching signal	2 A change-over contact
Switching points	< 30 km/h, > 40 km/h
Reception indicator	red LED
Weight	45 g

Speed-dependent enabling and disabling of the front camera

E-approved

Scope of delivery: signal transmitter with supply cable (1.5 m), operating instructions

Product	Ref. No.
PerfectView GPS 30	9102200010

WAECO PerfectView Accessories   3.19
System and extension cables
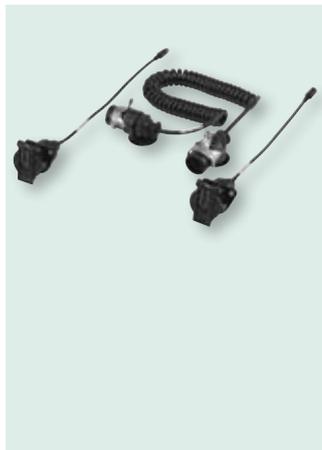
Features & functions

› 6-pole threaded connector

NEW

Water-proof

Threaded connection

Product	Ref. No.
System and extension cable 5 m	9102200028
System and extension cable 10 m	9102200029
System and extension cable 20 m	9102200030

Heavy-duty spiral cable set for trailers incl. sockets

Features & functions

› Trailer cable, 4 metres, heavy-duty design, ready-to-use with sockets (plug / jack)
› For towing vehicles with trailer / semi-trailer
› Especially suitable for commercial applications

NEW

Trailer cable for towing vehicles with trailer / semi-trailer in commercial applications

Product	Ref. No.
HD spiral cable set for trailers incl. sockets	9102200031
Prepared system connections (available as single parts):	
Socket with male system plug	9102200065
Socket with female system jack	9102200064

All you need:
heavy-duty components for professional use
Simply set up the system to suit your needs!

Trailers, semi-trailers, construction machinery, night-time operation: WAECO offers a comprehensive modular system of single components that can be flexibly combined to create custom-made solutions for specific vehicles and applications.

Vibration, impact, moisture, dust: in addition to robust standard products, the range includes a wide choice of heavy-duty components designed for tough daily use on building sites and under extreme weather conditions.

Equipped for extremes
Heavy-duty design, high quality components and perfect workmanship guarantee impeccable operation under extreme conditions. The PerfectView CAM 60 camera, for instance, will even withstand a high-pressure cleaner jet. It is now also available in an ADR-compliant version, CAM 60ADR (e.g. for dangerous goods transport).

HD components are suitable for:

WAECO monitors, cameras and accessories for customised equipment — 3.19

	Item description		Ref. No.	Page
Monitors				
■	M 50R	5" CRT monitor with PAL video standard	9102100009	114
■	M 5L	5" LCD monitor	9102100006	114
■	M 59L	7" heavy-duty LCD monitor	9102100010	114
Cameras				
■■	CAM 60	b/w heavy-duty camera, 120° wide-angle lens, IP69K-approved, temperature controlled heater, microphone, without system cable	9102000024	115
■■	CAM 60C	Colour heavy-duty camera, 120° wide-angle lens, IP69K-approved, temperature controlled heater, microphone, without system cable	9102000020	115
■■	CAM 60ADR	Colour heavy-duty camera, 120° wide-angle lens, IP69K-approved, temperature controlled heater, microphone, without system cable, ADR-compliant	9102000025	115
■■	CAM 16	Colour cylinder camera for LCD systems, 120° wide-angle lens, high light sensitivity, 20 m system cable, very compact dimensions with separate mounting bracket, specially designed to be fitted in a drill hole	RV-16	116
■■	CAM 30C	Colour ball camera for LCD systems, 120° wide-angle lens, LEDs for enhanced night-time vision, microphone, compact size, flexible mount, the ideal side camera	2222000005	116
System and extension cables				
■■■		System and extension cable 5 m	9102200028	116
■■■		System and extension cable 10 m	9102200029	116
■■■		System and extension cable 20 m	9102200030	116
■■■		Heavy-duty system cable, camera to monitor, ADR-compliant	9102200037	115
Heavy-duty spiral cable set				
■		HD spiral cable set for trailers, incl. sockets, 4 m working length, heavy-duty design for towing vehicles with trailer or semi-trailer, especially suitable for commercial applications, ready-to-use with sockets (plug / jack)	9102200031	116
Heavy-duty system cable, bulk cable without plug				
		Bulk cable (cut to length), priced per metre	RV-CABLE-HD	–
Cable kits for towing vehicles with trailer and for tractor / trailer combinations				
■■		Trailer cable kit for installation of an additional camera on vehicles with trailer, consisting of a 20-metre system and extension cable with 6-pole threaded connectors (9102200030) and a heavy-duty spiral cable set (9102200031)	9102200040	94
■■		Tractor cable kit for installation of a reversing video system on tractor / trailers, consisting of a 10-metre system and extension cable with 6-pole threaded connectors (9102200029) and a heavy-duty spiral cable set (9102200031)	9102200039	95
Other accessories				
	VS 200	Video splitter for WAECO cameras with PAL video standard	9102200036	117
		Round magnet clamp for camera mounting, ø 63 x 12 mm	RV-MAGNET-RUND	–
		Heat shrink sleeve for effective, moisture-resistant insulation	RV-ISO-15	–
Switchbox for 3 cameras				
	SWITCH	Up to three independently controllable cameras on a single monitor	9102200034	117
Cable adapters				
	ADAPT1	Camera adapter, new socket / old plug (6-pin DIN, black cable)	9102200042	93
	ADAPT2	Camera adapter, new socket / old plug (6-pin DIN, grey cable)	9102200043	107
	ADAPT4	Camera adapter, new socket / ITT plug	9102200051	–

Standard bodywork with fixed cable system
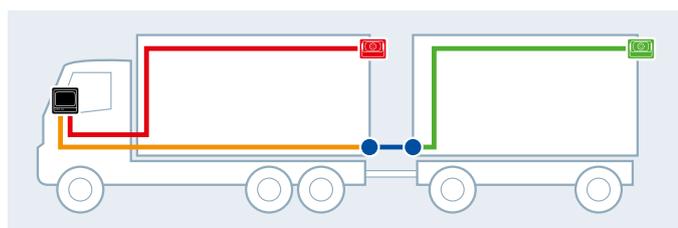
Components required for TRAILER system installation

- ■ Monitor
- ■ System camera
- ■ Additional camera
- ■ System cable
- ■ Extension cable
- ■ Heavy-duty spiral cable set
- ■ System cable
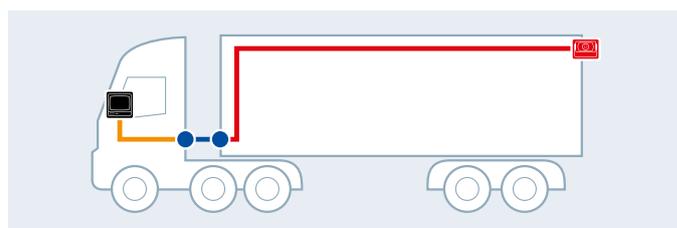
Components required for TRACTOR system installation

- ■ Monitor
- ■ System camera
- ■ System cable
- ■ Extension cable
- ■ Heavy-duty spiral cable set

WAECO PerfectView M50R

5" CRT monitor – compact and space-saving for heavy-duty applications
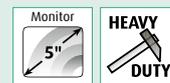
■ 5" b/w CRT monitor

- › For 12-volt and 24-volt operating voltage
- › Real-view or mirrored picture function
- › Two camera inputs (EIA)
- › Day / night adjustment of picture brightness, automatic or manual
- › Switches on automatically or by manual operation
- › Contrast / brightness adjustment

Technical data	M50R
Dimensions (W x H x D)	187 x 163 x 201 mm (incl. mount)
Diagonal screen dimension	5" / 128 mm (visible picture)
Operating voltage	11 to 32 volts DC
Power input	12 watts
Resolution	520 lines
Video standard	EIA
Operating temperature	−20°C to +60°C
Vibration resistance	4 g
Weight	1300 g
Picture brightness	300 cd/m²
Mirrored picture function	can be set
Test marks	E-approved

Scope of delivery: 5" CRT monitor, sun blind, set of cables, monitor mount and installation fittings

Product	Ref. No.
PerfectView M50R	9102100009

Monitor 5"

HEAVY DUTY

Space-saving, heavy-duty CRT monitor

E-approved

WAECO PerfectView M5L

5" LCD colour monitor – good value for little money, top LCD technology

■ 5" LCD colour monitor

- › For 12 volt and 24 volt operating voltage
- › Switches on automatically
- › Automatic day / night adjustment
- › Real-view or mirrored picture function
- › 235,000 pixels
- › 2 camera inputs with separate controls
- › Image settings can be saved for either camera
- › Loudspeaker
- › USB port for recharging of MP3 players, etc.
- › LED background illumination

Technical data	M5L
Dimensions (W x H x D)	144 x 128 x 120 mm (incl. mount)
Diagonal screen dimension	5" / 128 mm (visible picture)
Operating voltage	12 to 30 volts DC
Power input	10 watts
Resolution	235,000 pixels
Video standard	PAL / NTSC auto
Operating temperature	−15°C to +60°C
Vibration resistance	5 g
Weight	300 g
Picture brightness	300 cd/m²
Dimmer	automatic via LDR
Camera inputs	2 with signal recognition
Mirrored picture function	can be set
Test marks	E-approved

Scope of delivery: 5" LCD colour monitor incl. Easylink monitor mount, set of cables for monitor, installation fittings for all components

Product	Ref. No.
PerfectView M5L	9102100006

NEW

Monitor 5"

HEAVY DUTY

AUDIO

Top LCD technology

LED background illumination for maximum image brightness

E-approved

WAECO PerfectView M59L

7" heavy-duty LCD monitor with connection box – space-saving and perfect design for professional use

■ 7" heavy-duty LCD monitor

- › For 12-volt and 24-volt operating voltage
- › Mirrored or real-view picture function to be set for each camera input
- › Two camera inputs (PAL / NTSC)
- › Day / night adjustment of picture brightness
- › Date and time display (can be switched off)
- › Loudspeaker
- › Adjustable distance marks (can be switched off)
- › Infrared remote control
- › LED background illumination

| Technical data	M59L
Dimensions (W x H x D)	180 x 120 x 40 mm (incl. mount)
Diagonal screen dimension	7" / 178 mm (visible picture)
Operating voltage	11 to 30 volts DC
Power input	12 watts
Resolution	337,000 pixels
Video standard	PAL / NTSC auto
Operating temperature	−15°C to +60°C
Vibration resistance	5 g
Weight	500 g
Picture brightness	400 cd/m²
Dimmer	automatic
Camera inputs	2
Mirrored picture function	can be set
Test marks	E-approved

■ Connection box RV-SWITCH-59

- › Connection box with additional device to filter out voltage peaks in vehicle supply circuit

Technical data	RV-SWITCH-59
Dimensions (W x H x D)	15 x 65 x 30 mm
Operating voltage	11 to 32 volts DC
Weight	420 g
	2 camera inputs, 1 AV output

Scope of delivery: 7" heavy-duty LCD colour monitor with mounting bracket, set of cables for monitor, connection box for monitor, installation fittings for all components, IR remote control

Product	Ref. No.
PerfectView M59L	9102100010

Monitor 7"

HEAVY DUTY

AUDIO
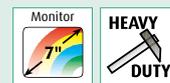
7" heavy-duty LCD monitor with connection box – space-saving and perfectly equipped for professional use

LED background illumination for maximum image brightness

Suitable for use with a side-mounted camera

E-approved

WAECO PerfectView CAM 60 / CAM 60C

3.19

■ ■ **b/w heavy-duty camera, 120° wide-angle lens**
■ ■ **Colour heavy-duty camera, 120° wide-angle lens**

With replaceable rockfall protection screen and non-corroding plug connector for use under extreme conditions.
› Anodised and powder coated aluminium housing with protective cap in stainless steel
› Microphone
› Twin lens cap
› Temperature controlled permanent heater, 3 or 4 watts
› Water-proof, all-rubber plug connectors
› Electronic brightness adjustment
› Wide-angle lens with large picture angle (120° diagonal)

Technical data	CAM 60 / CAM 60C
Dimensions (W x H x D)	80 x 75 x 62 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	approx. 4.8 watts (with heater)
Picture sensor	1/3" SONY CCD
Resolution	290,000 pixels
Picture angle	120° diagonal h: approx. 108° v: approx. 92°
Light sensitivity	**CAM 60:** < 0.5 lux **CAM 60C:** < 1.0 lux
Video standard	PAL
Operating temperature	−30°C to +65°C
Vibration resistance	10 g
Weight	300 g
Brightness adjustment	electronic
Mirrored picture function	via monitor
Type of protection	IP 69K
Test marks	E-approved

NEW

CAM 60 — b/w
CAM 60C — Colour
HEAVY DUTY
AUDIO
Camera IP 69K compliant

Heavy-duty camera

E-approved

Scope of delivery: heavy-duty camera, stainless steel protective cap, camera mount, installation fittings for all components

Product	Ref. No.
PerfectView CAM 60	9102000024
PerfectView CAM 60C	9102000020

WAECO PerfectView CAM 60ADR

3.19

■ ■ **Colour heavy-duty camera, 120° wide-angle lens, ADR-compliant**

With replaceable rockfall protection screen and non-corroding plug connector for use under extreme conditions.
› Features and functions as for CAM 60C

› **ADR-approved according to ISO 6722 and ISO FDIS 16750-3**

Technical data	CAM 60ADR
Dimensions (W x H x D)	80 x 75 x 62 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	approx. 4.8 watts (with heater)
Picture sensor	1/3" SONY CCD
Resolution	290,000 pixels
Picture angle	120° diagonal h: approx. 108° v: approx. 92°
Light sensitivity	< 1.0 lux
Video standard	PAL
Operating temperature	−30°C to +65°C
Vibration resistance	10 g
Weight	300 g
Brightness adjustment	electronic
Mirrored picture function	via monitor
Type of protection	IP 69K
Test marks	E-approved

NEW

Camera Colour
HEAVY DUTY
AUDIO
Camera IP 69K compliant
ADR compliant

Heavy-duty camera

Certified for use in dangerous goods transport

E-approved

ADR-compliant

Scope of delivery: colour heavy-duty camera, stainless steel protective cap, camera mount, installation fittings for all components

Product	Ref. No.
PerfectView CAM 60ADR	9102000025

WAECO PerfectView Accessory

3.19

Heavy-duty camera-to-monitor system cable, ADR-compliant

■ ■ ■ **Features & functions**
› 6-pole threaded connector

NEW

HEAVY DUTY
ADR compliant

Product	Ref. No.
Heavy-duty system cable 20 m, ADR-compliant, for CAM 60ADR	9102200037

WAECO PerfectView

WAECO PerfectView CAM 16

◼ Colour cylinder camera

Camera for discreet mounting in bumpers, bus mirrors, etc.
› Colour cylinder camera (PAL)
› Real-view or mirrored picture function
› High light sensitivity
› Can be fitted with or without mounting bracket
› Mounting bracket included in the delivery kit
› Compact size
› Waterproof equivalent to IP 68
› Wide-angle lens with large picture angle (150° diagonal)

Technical data	CAM 16
Dimensions (Ø x L)	30 x 46 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	approx. 1.0 watts
Picture sensor	1/4" CCD sensor
Resolution	270,000 pixels
Picture angle	150° diagonal h: approx. 102° v: approx. 73°
Light sensitivity	< 1 lux
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	6 g
Weight	200 g
Brightness adjustment	electronic
Mirrored picture function	can be set
Type of protection	equivalent to IP 68
Test marks	E-approved

Camera Colour

Extra small

The ideal side camera

E-approved

Scope of delivery: colour cylinder camera, mounting bracket, 20 m monitor-to-camera connection cable, installation fittings for all components

Product	Ref. No.
PerfectView CAM 16	RV-16

WAECO PerfectView CAM 30C

◼ Colour ball camera

Colour ball camera with very flexible mount for accurate alignment
› Colour CCD camera (PAL)
› Real-view or mirrored picture function
› Sturdy, water-proof aluminium housing
› Microphone
› Electronic brightness adjustment
› LDR controlled IR LEDs
› Wide-angle lens with large picture angle (120° diagonal)

Technical data	CAM 30C
Dimensions (W x H x D)	72 x 60 x 63 mm (incl. mount)
Operating voltage	11 to 16 volts DC
Power input	approx. 1.8 watts
Picture sensor	1/4" CCD sensor
Resolution	270,000 pixels
Picture angle	120° diagonal h: approx. 90° v: approx. 70°
Light sensitivity	< 1 lux or 0 lux with LED
Video standard	PAL
Operating temperature	−20°C to +65°C
Vibration resistance	8 g
Weight	200 g
Brightness adjustment	electronic
Mirrored picture function	can be set
Type of protection	IP 68
Test marks	E-approved

Camera Colour | **Camera IP 68 compliant**

AUDIO

The ideal side camera

E-approved

Scope of delivery: colour ball camera, 20 m monitor-to-camera connection cable, installation fittings for all components

Product	Ref. No.
PerfectView CAM 30C	2222000005

WAECO PerfectView Accessories

System and extension cables

◼◼◼ Features & functions

› 6-pole threaded connector

Product	Ref. No.
System and extension cable 5 m	9102200028
System and extension cable 10 m	9102200029
System and extension cable 20 m	9102200030

NEW

Water-proof

Threaded connection

Heavy-duty spiral cable set for trailers incl. sockets

◼ Features & functions

› Trailer cable, 4 metres, heavy-duty design, ready-to-use with sockets (plug / jack)
› For towing vehicles with trailer / semi-trailer
› Especially suitable for commercial applications

Product	Ref. No.
Heavy-duty spiral cable set for trailers incl. sockets	9102200031
Prepared system connections (available as single parts): Socket with male system plug	9102200065
Socket with female system jack	9102200064

NEW

Trailer cable for towing vehicles with trailer / semi-trailer in commercial applications

WAECO PerfectView VS 200

3.19

Video splitter for WAECO cameras with PAL video standard

› Displays the video images from two connected cameras on a single monitor
› Camera activation via control signals, such as indicators or reverse gear
› Split mode or display of single camera image can be set manually

Technical data	VS 200
Dimensions (W x H x D)	130 x 115 x 35 mm
Operating voltage	10 to 32 volts DC
Camera inputs	2
Control inputs	External / switch
Display	Cam1 / Cam2 / Split
Weight	600 g

NEW

Two camera pictures at a glance

E-approved

Scope of delivery: video splitter with supply cable (1.0 m), operating instructions

Product	Ref. No.
PerfectView VS 200	9102200036

PerfectView SWITCH connects what you want connected

Using the switchbox you can connect up to three cameras to one monitor and control them individually! PerfectView SWITCH is compatible with almost any WAECO camera. The cameras can be activated either automatically or manually (e.g. the reversing camera via reverse gear, the side-mounted cameras via the indicator).
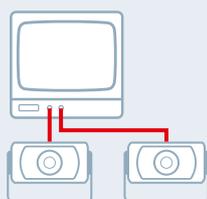
Monitor with 2 cameras
The heavy-duty monitor has two camera sockets.
You can connect, for example, a reversing camera and a side camera.

SWITCH

Turning 2 into 4 with PerfectView SWITCH
The same monitor, thanks to the switchbox, now with up to four cameras:
for example, a reversing camera, two side cameras (one each left and right), and an additional camera to monitor the working area

WAECO PerfectView SWITCH

3.19

Switchbox for additional reversing video applications
For running up to three independently controlled cameras from one monitor camera input
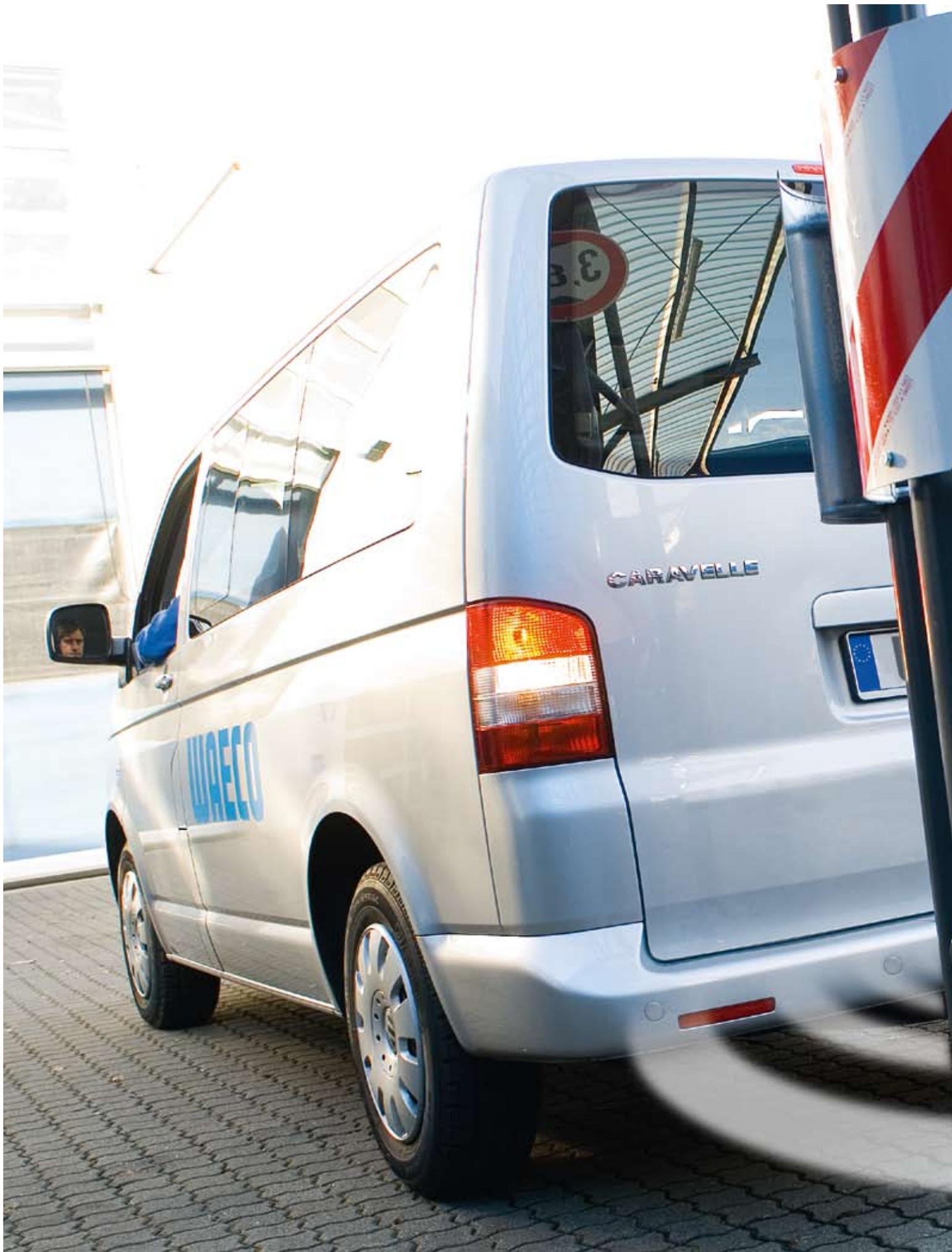
Features & functions

› Cameras can be activated either automatically or manually
  (e.g. reversing cameras via reverse gear, side-mounted cameras via indicators)
› Power consumption: 0.84 watts max. (without cameras)
› Suitable for 12- and 24-volt vehicle electrics
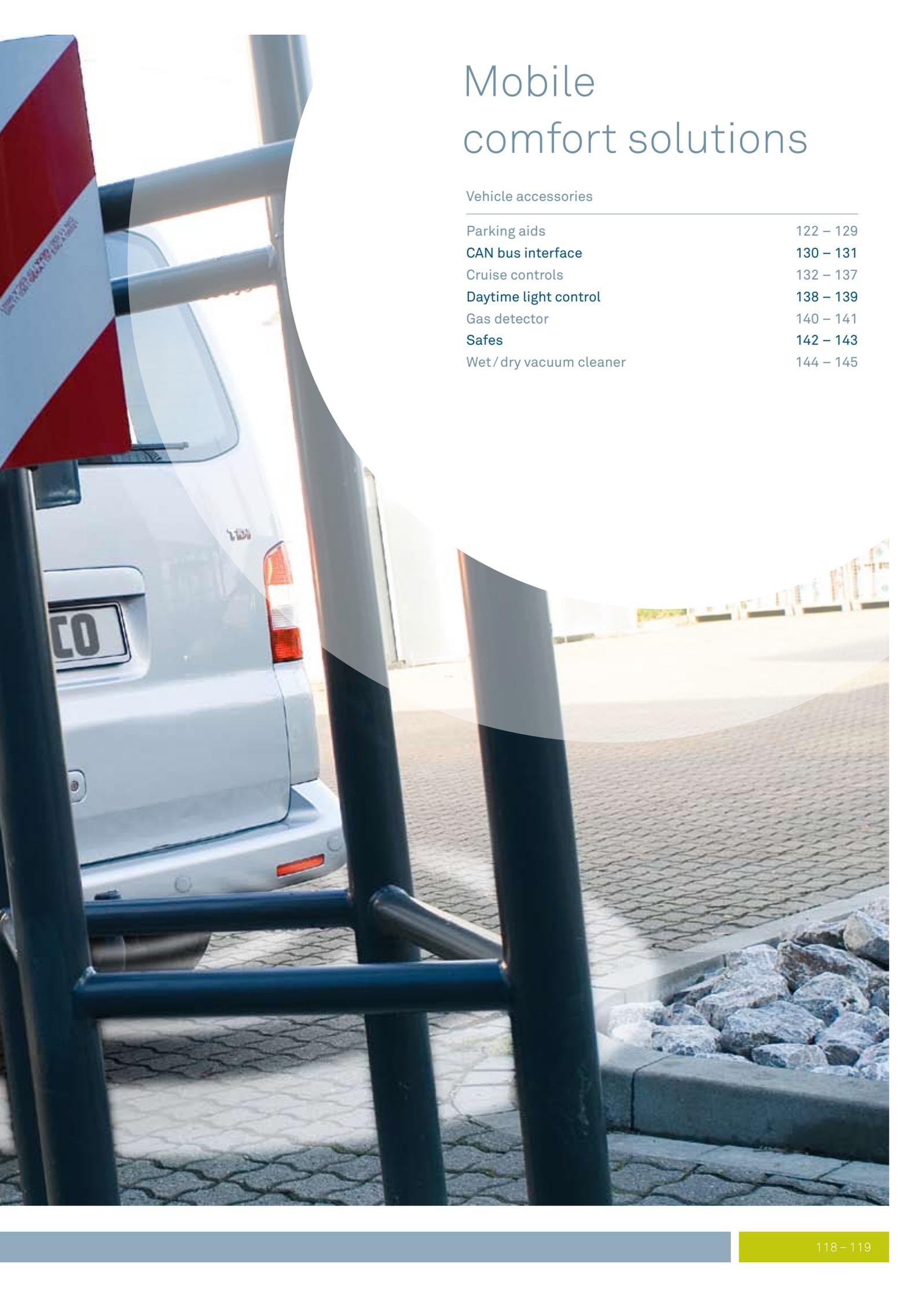
NEW

E-approved

Scope of delivery: switchbox, cable for connection to vehicle electrics, switch for manual activation of the cameras, switch box connection cable, fitting materials, installation and operating instruction

Product	Ref. No.
PerfectView SWITCH	9102200034

Contents, specifications and availability are subject to change serving the technical improvement.

116 – 117

Mobile
comfort solutions

Install and go!

Put an end to stress
Make your vehicle perfect!

A lapse in concentration is all it takes ... You hit the ramp while reversing, you're caught speeding by a radar trap or without the mandatory lighting while abroad. And let's not even think about break-ins and thefts. It's probably best if you simply avoid the problem and invest instead in **mobile solutions from Dometic WAECO**. All of the products can be easily and quickly installed in your vehicle while the battery vac can be stowed in the storage compartment.

Treat yourself to a **little luxury in your hardworking life** – comfort accessories by Dometic WAECO will help you arrive at your destination in a more relaxed state.

Parking aids

Six complete, ready-to-fit systems to suit all cases. Hard-wired or with wireless signal transmission, for the rear as well as for the front bumper. Neat solutions even for tricky installation conditions.

WAECO MagicWatch

MagicWatch MW 650

Cruise controls

A constant speed – automatically, conveniently, safely! The comfort cruise control and speed limiter for all vehicles with electronic accelerator, with or without CAN bus. Designed for specific vehicles, fast and easy installation.

WAECO MagicSpeed

NEW

MagicSpeed MS 880

Daytime light control

Activates the complete vehicle lighting when you start the ignition. With coming home function: dimmed headlights stay on for some time after the ignition has been turned off.

WAECO MagicTouch

MagicTouch TFL 100

Gas detector

Beware of burglars! The compact unit detects all common knock-out gases. Visual and acoustic alarm function.

WAECO MagicSafe

MagicSafe MSG 150

Safes

Keep cash, cameras, important documents and laptops out of reach of burglars. Available in various sizes and design options, with mechanical or automatic locking system.

Dometic SAFE

Dometic SAFE 281C

Wet / dry vacuum cleaner

Gets rugs and upholstery clean in no time at all. Powerful unit, cordless battery operation for extra convenience. Full range of accessories, battery recharging from 12 or 230 volts.

WAECO PowerVac

PowerVac PV 100

Contents, specifications and availability are subject to change serving the technical improvement.

120 – 121

WAECO MagicWatch

For 12 / 24 volts!

Sharpen your perception!

Complete, ready-to-fit systems for truck and vans

Six systems to choose from

Is there enough space, or not? When reversing in awkward places, this is always the question. MagicWatch parking aids will tell you precisely how close you are. They take the stress out of driving and reduce the risk of bumps and scrapes. Six parking aid models are available, including two systems with wireless signal transmission. Pick the one that best suits your vehicle and needs. The overview on page 123 gives you all you need to know at a glance.

How does MagicWatch work?

The parking aid is activated as soon as reverse gear is engaged. It measures the distance to an obstacle with the help of four ultrasonic sensors mounted on the rear of your vehicle. Signal transmission to the signal generator is wireless or hard-wired. MagicWatch warns you if your vehicle comes too close to an obstacle. Depending on the system, this is done by an acoustic signal (MWE 900, MWE 910, MWE 2000, MW 2500) or by an acoustic and visual signal (MW 650, MWE 650).

A thinking system

MagicWatch models MW 650 and MWE 650 feature Digital Signal Memory (DSM). These parking aids are able to "memorise" smaller objects fitted to the vehicle (e.g. tow-bars or bodywork extensions) and take them into account when checking the area behind the vehicle.
Your advantage: no "false alarms" while reversing.
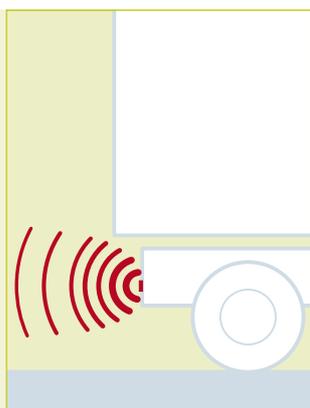
The parking aid models MWE 900, MWE 910, MWE 2000 and MW 2500 give you the option to shift the stop line up to 40 cm towards the rear.
Your advantage: rear-mounted objects protruding over the sensors (steps, tow-bars, spare tyres, etc.) are considered in the distance calculation.
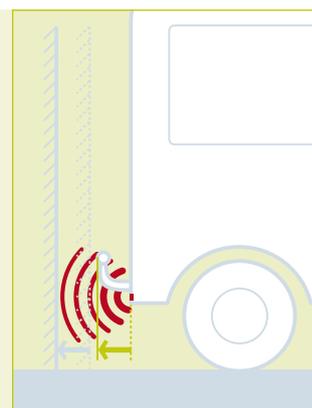
Decision aid: features and functions of MagicWatch parking aids

System	Transmission of the sensor signals	Display of distance data	Number / Fastening of the sensors	Range rear	/ front	Ideal for	Page
MW 650	Hard-wired	Acoustic and visual	4 sub-mounted sensors	30 – 250 cm		Trucks, buses, agricultural machinery	124
MWE 650	Hard-wired	Acoustic and visual	4 built-in sensors	30 – 250 cm		Trucks, buses, agricultural machinery	124
MWE 900	Hard-wired	Acoustic	4 built-in sensors	30 – 180 cm		Vans, mini buses	126
MWE 910	Hard-wired	Acoustic	8 built-in sensors	30 – 180 cm	/ 25 – 95 cm	Vans, mini buses	126
MWE 2000	Wireless	Acoustic	4 built-in sensors	30 – 180 cm		Trailers used with changing towing vehicles	128
MW 2500	Wireless	Acoustic	2 mounting profiles with 4 sensors	30 – 180 cm		Vans and light trucks	129

Transmission of the sensor signals

Hard-wired transmission
Sensors are mounted on the vehicle's rear and wired with the control unit. The latter transmits the signal via a hard cable connection to the signal generator in the cockpit.

Wireless transmission
Sensors are mounted on the vehicle's rear and wired with the control unit. The latter transmits the signal via a wireless link to the signal generator in the cockpit.
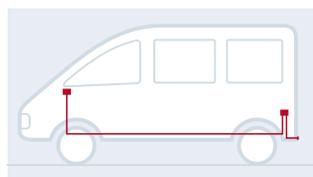
› Easy to fit with plug-in components
› Splash-proof control unit
› Extendable sensor cables (up to 10 m)
› Average installation time: approx. 3 to 4 h

› Especially easy to fit: no need to lay cables from the transmitter to the receiver!
› Average installation time: approx. 2 to 3 h (depending on the system)

Display of distance data

Acoustic and visual signal
Display with integrated piezo speaker. Distance displayed in 1-cm intervals by 4-colour LED. The closer you get to an object, the faster the beep from the loudspeaker.

Acoustic signal
Loudspeaker (plug-in version for cigarette lighter socket or permanently installed in the cockpit or rear). Acoustic signal with changing pitch and intervals. The closer you get to an object, the faster the beeps.
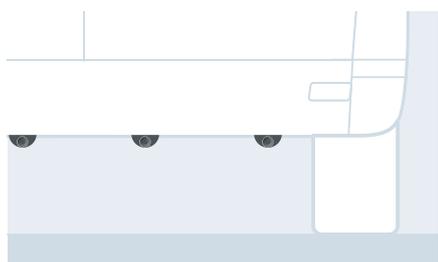

Fastening of the sensors

Sub-mounted sensors
Easy-to-fit sensors for flexible installation. The rugged housing can easily be fitted beneath the rear bumper or other body parts. Ideal for larger vehicles, such as trucks, buses or agricultural machinery.
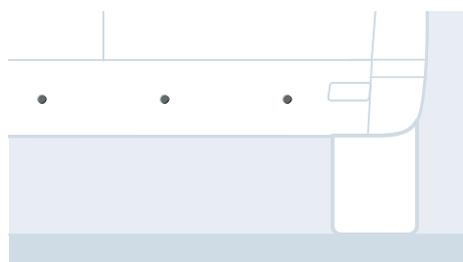Dimensions (W x H x D): 70 x 40 x 25 mm

Built-in sensors
Perfect finish: the sensors are integrated in the rear bumper! They are pushed into the drilled holes where they fit tightly. Barely visible. Ideal for buses and larger vehicles with metal bumpers.

Dimensions: Ø 18 – 24 mm; depth 18 – 25 mm

Mounting profiles
Quick and easy installation: the sensors are factory-fitted on two mounting profiles. The profiles can be fastened to the bumper or, optionally, to the twin rear doors (van).
Dimensions of one profile (L x W): 547 mm x 56 mm

WAECO MagicWatch

All systems for 12 and 24 volts

Totally accurate at the ramp

Parking aids for trucks, buses, agricultural machinery

Trucks up to 7.5 t are mainly used for local distribution of goods. The stress of constant manœuvring in narrow courtyards leaves its mark not only on the driver's nerves. To protect your fleet and save on repair costs you should make a timely investment in a WAECO MagicWatch parking aid.

For all larger vehicles we recommend using the MagicWatch MW 650 or MWE 650 model. MagicWatch MW 650 comes with sub-mounted sensors for quick and easy installation to the underside of the rear bumper. MagicWatch MWE 650 has built-in sensors to be integrated into the rear bumper for an aesthetically perfect result.

The parking aids are automatically activated as soon as you change into reverse. When you approach the next obstacle you receive an acoustic and visual warning.

A convenient extra: the digital distance indicator (4-colour-LED) shows the distance in a range between 30 and 250 cm down to the last centimetre. That means when you are approaching a loading ramp, you can keep the very distance that's ideal for lowering the tail lift. Which makes for quicker and easier loading – and time is money, after all.

MagicWatch MW 650 and MWE 650: safe manœuvring for trucks, buses and agricultural machinery
› Extra-large range up to three metres
› Acoustic and visual warning function
› Digital Signal Memory (DSM)
› Splash-proof components
› Extendable sensor cables up to 10 metres
› System self-diagnosis
› Specially designed for metal bumpers (MWE 650)

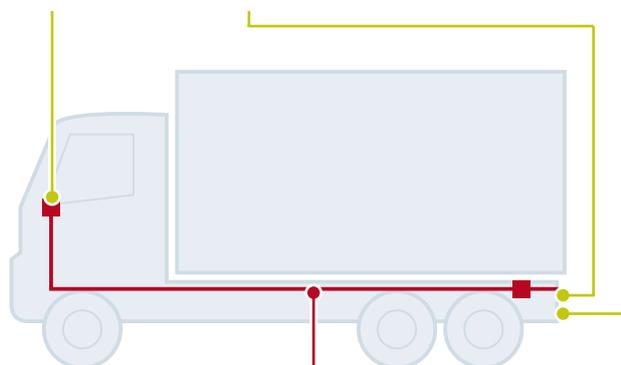## Ideal for light trucks up to 7.5 t

The display unit is firmly installed in the truck cabin

MWE 650
Easy installation with four sensors integrated in the rear bumper
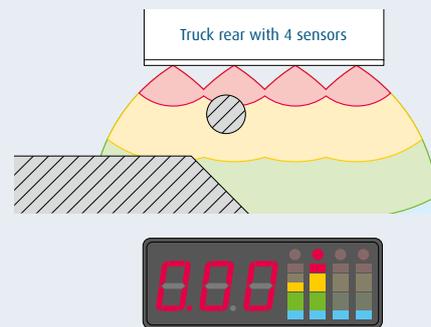
MW 650
Easy installation with four sensors mounted to underside of the rear bumper

Hard-wired signal transmission from the base unit to the receiver

Visual warning function on the MW 650 and MWE 650

Truck rear with 4 sensors

Left: digital display shows distance at centimetre accuracy

Right: 4-colour LED displays distance for each sensor

A single glance is enough to know which of the four sensors is closest to an obstacle.

WAECO MagicWatch MW 650   3.07
Rear parking aid for trucks, DSM, 4 sub-mounted sensors

Features & functions
› Distance measurement with 4 ultrasonic sensors
› Activation of the system via reverse gear
› Free voltage supply from 10 volts to 32 volts
› System self-diagnosis with error indication
› Acoustic and visual warning function with 4-colour LED
› DSM (Digital Signal Memory)
› Distance to the obstacle indicated by LEDs in 1 cm intervals
› Position of the obstacle indicated on the display
› Range: approx. 30 cm to 250 cm
› Flexible installation with sub-mounted sensors

Test mark	E-approved to automotive directive

Scope of delivery: 4 ultrasonic sensors (2.5 m cable), 1 splash-proof control unit, 1 visual / acoustic display unit with 15 m supply cable, fixing materials, installation and operating instructions

Product	Ref. No.
MagicWatch MW 650	MW-650-4DSM

(E 13)

For 12 and 24 volts

Designed for larger vehicles

Easy fitting with sub-mounted sensors

Splash-proof control unit

Installation time: approx. 2 to 3 hours

WAECO MagicWatch MWE 650   3.07
Rear parking aid for trucks, DSM, 4 built-in sensors

Features & functions
› Distance measurement with 4 ultrasonic sensors
› Activation of the system via reverse gear
› Free voltage supply from 10 volts to 32 volts
› System self-diagnosis with error indication
› Acoustic and visual warning function with 4-colour LED
› DSM (Digital Signal Memory)
› Distance to the obstacle indicated by LEDs in 1 cm intervals
› Position of the obstacle indicated on the display
› Range: approx. 30 cm to 250 cm
› Perfect finish with built-in sensors
› Specially designed for metal bumpers

Test mark	E-approved to automotive directive

Scope of delivery: 4 ultrasonic sensors (2.5 m cable), 1 splash-proof control unit, 1 visual / acoustic display unit with 15 m supply cable, fixing materials, installation and operating instructions

Product	Ref. No.
MagicWatch MWE 650	MWE-650-4DSM

(E 13)

For 12 and 24 volts

Designed for larger vehicles

Perfect finish with built-in sensors

Splash-proof control unit

Installation time: approx. 3 to 4 hours

Contents, specifications and availability are subject to change serving the technical improvement.

124 – 125

WAECO MagicWatch

Parking aids:
smart, reliable,
easy to fit
12 / 24 volts

Built to fit

## Parking aids for every (mounting) situation

Manœuvring a van is often difficult just because obstacles of medium height are barely visible or cannot be seen by the driver at all. It doesn't take much to get a bad dent. No need to suffer that kind of stress: your MagicWatch parking aid warns you when you are getting too close to an obstacle while reversing.

With **MagicWatch MWE 900 and MWE 910** WAECO offers two highly reliable systems that have proven their worth for use in vans. They come with **ultra-small sensors (only 18 mm in diameter)** and a comprehensive range of fitting accessories for **hassle-free installation even in difficult or confined spaces**. The variable stop line (see diagram on the right) is yet another bonus that sets these MagicWatch models apart from other parking aid systems.

Variable stop line

The parking aid sensors are located at the rear bumper, but there's a tow-bar or step protruding beyond the bumper. No problem, MagicWatch will take account of such "extras". Simply shift back the stop line (by up to 40 cm) and use your parking aid as you normally would.

Distance of stop line from step shifted by 20 cm using the DSM function

30 cm
50 cm
70 cm

70 cm
50 cm
30 cm
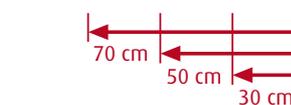
Distance of stop line from sensors

For perfectionists
Parking aids with the smallest sensors available

Seeing is believing, although it's not all that easy ... The sensors of the MagicWatch MWE 900 and MWE 910 parking aids are only 18 mm in diameter and feature a mere 18 mm installation depth. A genuine record in the market, as competitors' sensors are far larger and therefore less elegant than WAECO products. The sensors are painted in the vehicle colour and then integrated into the rear bumper (MWE 900) or into the front and rear (MWE 910). Whichever model you opt for, you are bound to get a perfect installation result in terms of technology and appearance.

WAECO sensors: small and unobtrusive

Competitor

Visible area and dimensions of the sensor*

Ø 35 mm
63 mm
37 mm

WAECO

Visible area and dimensions of the sensor*

Ø 18 mm
40 mm
18 mm

* Scaled-down view, 50% of the original size

WAECO MagicWatch MWE 900
Rear parking aid with 4 built-in sensors

3.07

www.tuv.com
TÜVRheinland®
ID:0000021840

Test result: good

Features & functions

› Latest-generation sensors
› Suitable for difficult installation situations
› Distance measurement with 4 ultrasonic sensors
› Activation of the system via reverse gear
› System self-diagnosis with error indication
› Acoustic warning function
› Range: 30 cm to 180 cm
› Option to shift the stop line

› For all vehicles with 12 volts to 30 volts power supply
› Very compact sensors (Ø18 mm x 18 mm),
› Sensors can be spray-painted
› PPS Parameter Programming System (to set system parameters such as sensitivity, visual rejection of mounted parts, etc.)

Test mark   e-approved to automotive directive

Scope of delivery: 4 ultrasonic sensors, 1 control unit, 1 membrane speaker, cardboard painting aid, comprehensive fixing materials, installation and operating instructions

Product	Ref. No.
MagicWatch MWE 900	MWE-900-4PPS
Optional extras	
1.5 extension cable for sensors	2221500002
Distance indicator display (for 12 volts)	9101500002

e12

For 12 and 24 volts

High-performance, latest-generation sensors

Range: 30 cm to 180 cm

Parameter Programming System (PPS)

Certified to ISO 17386

MagicWatch Accessory

MWE parking aids feature a digital colour display that shows the distance as a graphic and in digits. Ready for use in vehicles with 12-volt electrics.

WAECO MagicWatch MWE 910
Parking aid with 8 built-in sensors for front and rear

3.07

Features & functions

› Distance measurement with 8 ultrasonic sensors
› Activation of the rear system via reverse gear
› Activation of the front system with switched on ignition, deactivation via speed signal
› System self-diagnosis with error indication
› Acoustic warning function

› Range rear: 30 cm to 180 cm
› Range front: 25 cm to 95 cm
› Stop line can be shifted for front and rear
› For all vehicles with 12 volts to 30 volts power supply
› Very compact sensors (Ø18 mm x 18 mm),
› Sensors can be spray-painted
› PPS Parameter Programming System (to set system parameters such as sensitivity, visual rejection of mounted parts, etc.)

Test mark   e-approved to automotive directive

Scope of delivery: 8 ultrasonic sensors (4 rear, 4 front sensors), 2 control units, 1 membrane speaker, comprehensive fixing materials, installation and operating instructions, cardboard painting aid

Product	Ref. No.
MagicWatch MWE 910	MWE-910-8PPS
Optional extra	
1.5 extension cable for sensor	2221500002

e12

For 12 and 24 volts

Range rear: 30 cm to 180 cm Range front: 25 cm to 95 cm

High-end system

Parameter Programming System (PPS)

Certified to ISO 17386

WAECO MagicWatch

One for all:
Plug-in system for flexible use

Our tip for fleet operators: if you have trailers used with alternating towing vehicles, the radio-based parking aid MagicWatch MWE 2000 can give you many benefits. Based on wireless signal transmission, it saves you the bother of having to lay cables from the rear of the trailer to the cockpit. The compact loudspeaker will easily move from one vehicle to another. It simply plugs into the cigarette lighter and is instantly ready to receive signals.

Plug-in version for alternating towing vehicles 12 / 24 volts

Boundless freedom and ease

MWE 2000 – wireless parking aid for trailers

Ideal for trailers towed by changing vehicles

The loudspeaker of MagicWatch MWE 2000 simply plugs into the cigarette lighter socket, regardless of which towing vehicle you are going to use.

Easy installation of the four sensors in the trailer's rear bumper

Wireless signal transmission from the base unit to the receiver

Trailer (rear)

Zone	Distance
4	~ 30 cm
3	~ 60 cm
2	~ 120 cm
1	~ 180 cm

Hearing in the front what's going on behind
The parking aid's monitoring range splits up into four zones. The closer the vehicle gets to an obstacle the faster the beep from the loudspeaker. As you enter zone 4, the parking aid emits a continuous tone – the signal for you to stop. At this point the distance to the obstacle would normally be 30 cm. MWE 2000 gives you the option to shift the stop line to account for mounted parts on the back of the vehicle.

WAECO MagicWatch MWE 2000   3.07

Rear parking aid with wireless transmission, plug-in version for flexible use, 4 built-in sensors

Features & functions
› Distance measurement with 4 ultrasonic sensors
› Acoustic display with changing pitch and intervals
› Activation of the system via reverse gear
› Voltage supply: 12 volts and 24 volts
› System self-diagnosis with error indication
› Radio link between the control unit and receiver
› Radio frequency: 433 MHz
› Range: approx. 30 cm to 180 cm
› Option to shift the stop line
› Built-in sensors, just 18 mm in diameter, for a perfect finish

Test mark
E-approved to automotive directive

Scope of delivery: 4 ultrasonic sensors, 1 control unit, receiver with loudspeaker, fixing materials, installation and operating instructions

Product	Ref. No.
MagicWatch MWE 2000	MWE-2000-4FM

E 24

For 12 and 24 volts

Loudspeaker plugs into the cigarette lighter socket

Wireless, radio-based operation

Installation time: approx. 2 to 3 hours

Well thought-out from front to rear

The wireless parking aid MagicWatch MW 2500 was designed for hassle-free reversing. Installation, too, is simplicity itself.

In the rear: super-compact sensors, integrated in easy-to-fit mounting profiles which can also be attached to the twin rear doors of a van.

In the front: an adhesive acoustic display unit that is simply fixed where you want it and firmly wired with 12 volts DC.
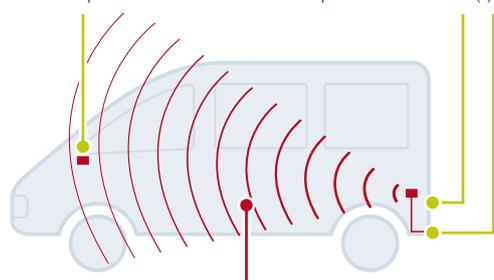
Ease of use guaranteed: No need to lay cables across the length of the vehicle!

Wireless radio-based operation

Quick and easy to install

MW 2500 – wireless parking aid with mounting profiles

Ideal for vans and light trucks

The receiver is firmly installed in the vehicle's cockpit.

Easy installation of the two mounting profiles on the rear bumper or on the rear door(s)

Wireless signal transmission from the base unit to the receiver
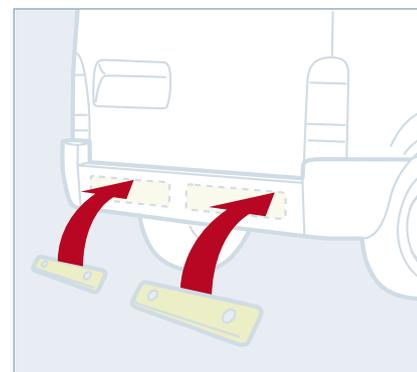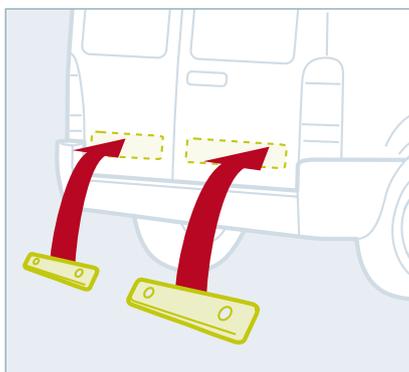
Steps in the bumper? No hurdle for MagicWatch MW 2500! Its mounting profiles, incorporating the sensors, can just as well be attached to the rear doors.

WAECO MagicWatch MW 2500   **3.07**

Rear parking aid with wireless transmission, with 4 sensors integrated in two mounting profiles, for light trucks

Features & functions

› Distance measurement with 4 ultrasonic sensors
› Acoustic display with changing pitch and intervals
› Activation of the system via reverse gear
› Voltage supply: 12 volts and 24 volts
› System self-diagnosis with error indication
› Radio range: up to 20 m, depending on installation
› Radio frequency: 433.92 MHz

› Range: approx. 30 cm to 180 cm
› Option to shift the stop line
› Especially suitable for vans, light trucks and motorhomes
› Sensors integrated in two mounting profiles for easy installation
› Compact control unit (60 x 40 mm), concealed mounting
› Operating temperature: –25°C to +70°C

E 24

For 12 and 24 volts

Quick and easy to install with mounting profiles

Wireless, radio-based operation

Installation time: approx. 2 hours

Test mark	E-approved to automotive directive

Dimensions (L x W)
of one mounting profile · · · · · 547 x 56 mm

Scope of delivery: 4 ultrasonic sensors, 1 control unit, receiver with loudspeaker, 2 mounting profiles, fixing materials, installation and operating instructions

Product	Ref. No.
MagicWatch MW 2500	MW-2500-4FM

The digital-analogue translator

For running analogue retrofit products in CAN bus vehicles

You want to retrofit an analogue accessory, but your vehicle has a digital CAN bus system? Go ahead, it's no problem at all with the CAN bus interface from WAECO! The module ensures a smooth data flow between the analogue and digital technologies.

More and more vehicles are equipped with the CAN bus technology. This also means that all of their comfort functions are controlled by digital signals from the CAN bus system. The problem is many retrofit products require analogue signals. This is easily solved by fitting the WAECO CAN bus interface. The module "translates" the digital CAN bus signals into analogue impulses and transmits them to the retrofitted accessory.

The CAN bus interface is suitable for use with **many WAECO comfort and safety accessories** (see the picture series on the top right-hand page). **It can also be used for similar products of other makes**, as most of them will require an analogue speed or rev signal.

The WAECO interface also paves the way for built-in navigations systems.

The WAECO CAN bus interface also makes vans fit for analogue aftermarket products. It is compatible with most commonly used models built by Citroën, Fiat, Ford, Iveco, Mercedes-Benz, Nissan, Peugeot, Renault and Volkswagen.

A complete list of vehicle models is available at **www.waeco.com/en/cbi100**

The perfect "translator" for e.g.:

WAECO MagicSpeed MS 880
cruise control
Pages 134 / 135
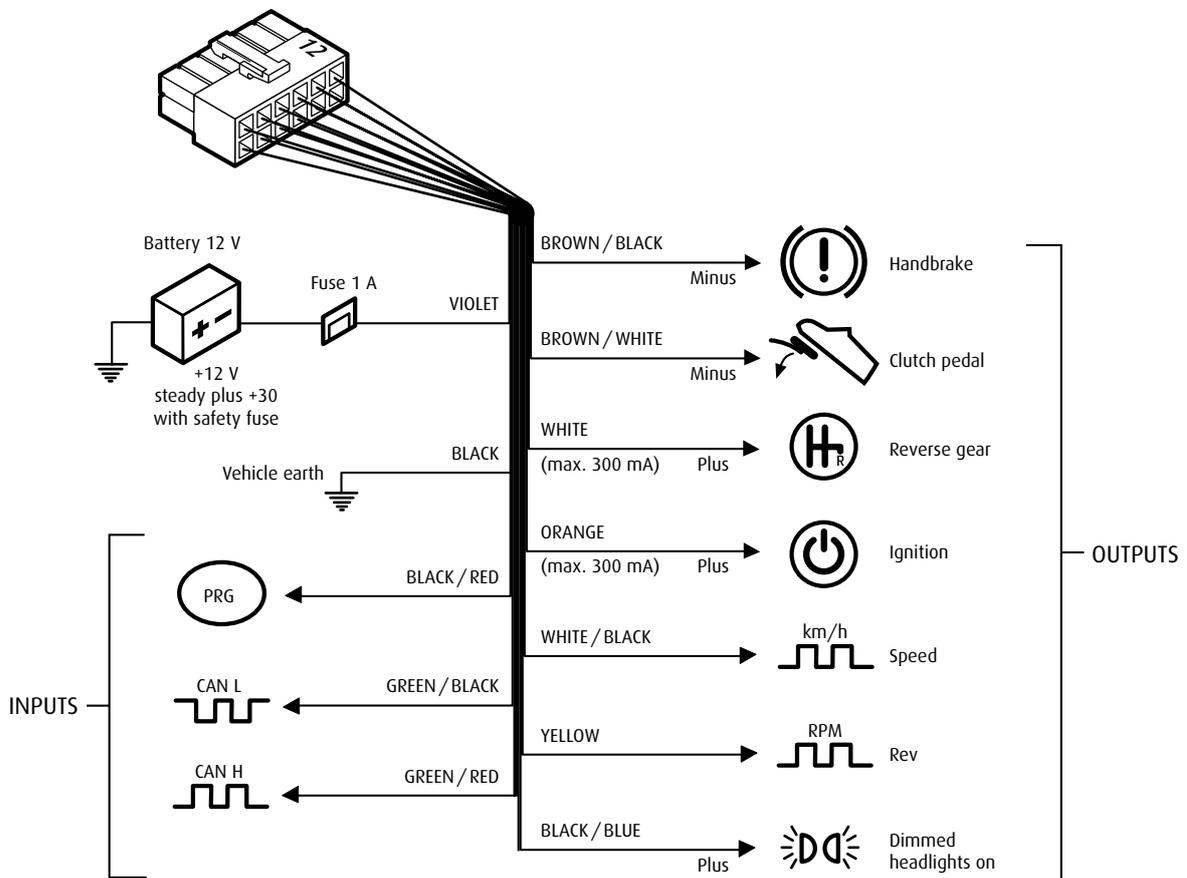
WAECO MagicSpeed HUD
head-up display
Pages 136 / 137

all WAECO MagicWatch
parking aids
Pages 124 – 129

all WAECO PerfectView
reversing video systems
Pages 86 – 109

Circuit diagram for MagicSpeed CBI 100

Battery 12 V

Fuse 1 A

VIOLET

+12 V
steady plus +30
with safety fuse

BLACK

Vehicle earth

BLACK / RED — PRG

CAN L — GREEN / BLACK

CAN H — GREEN / RED

INPUTS

BROWN / BLACK — Minus — Handbrake

BROWN / WHITE — Minus — Clutch pedal

WHITE — (max. 300 mA) — Plus — Reverse gear

ORANGE — (max. 300 mA) — Plus — Ignition

WHITE / BLACK — km/h — Speed

YELLOW — RPM — Rev

BLACK / BLUE — Plus — Dimmed headlights on

OUTPUTS

WAECO MagicSpeed CBI 100   3.06

Interface for converting digital CAN bus signals into analogue signals

NEW

e1

Features & functions

› 7 analogue output signals

› Automatically identifies the type of vehicle

› Universal product for all commonly used types of vehicles

Test mark   e-approved to automotive directive

Scope of delivery: control unit, set of cables, fuse and installation fittings

Product	Ref. No.
MagicSpeed CBI 100	9101400020

WAECO MagicSpeed MS

Choose your own speed!
Cruise control for vans with CAN bus and electronic accelerator

Easy to fit 1h max.

It makes absolute sense to use a cruise control in a delivery van. Even more so when it is so quick and easy to install as the MagicSpeed MS 900. Just under an hour is sufficient, there is hardly any standstill time for the vehicle.

The MS 900 owes this major installation advantage to its CAN bus compatibility, which ensures smooth operation within the vehicle's electronic system. MagicSpeed MS 900 works with a control unit that is directly linked to the electronic accelerator control by means of a vehicle-specific adapter cable. No soldering, no crimping, just plug and play!

Brake	Speed signal	Clutch

CAN bus

CAN high | CAN low

12-volt vehicle electrics

Control unit	Accelerator
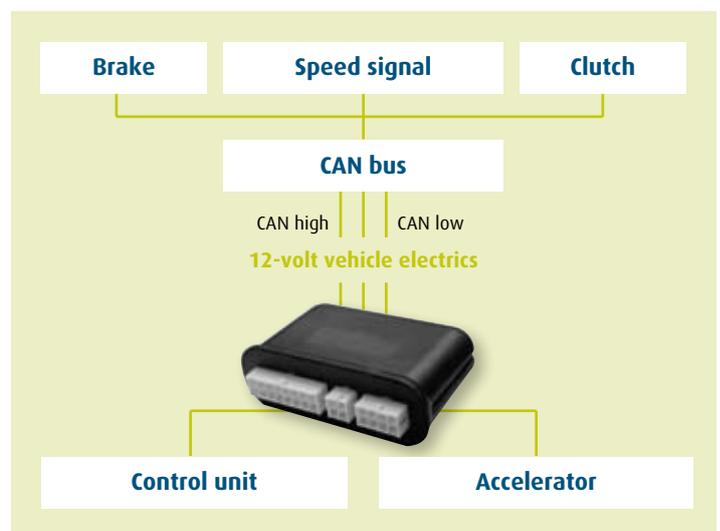
Ease of installation shown on the example of Fiat Ducato

The interface where the MS 900 taps the signal is the on-board computer

Signal tapped with just three vehicle-specific plug-in connectors

Connection to the accelerator via T-plug

Connection of the control element to the dashboard or steering column

WAECO MagicSpeed MS 900

3.06

Cruise control for vehicles with comfort CAN bus and electronic accelerator

Features & functions

› Set speed and reset previous speed
› Fine speed adjustment (tap up, tap down)
› After code entry system adjusts itself automatically to the vehicle parameters (speed signal and sensitivity)
› ON / OFF
› All signals required are controlled via CAN bus system
› Easy to fit with cable sets for specific vehicles, no soldering or crimping – just plug and play
› Choice of two control elements
› **Preconditions for installation:**
  12 V vehicle electrics, electronic accelerator, comfort CAN bus

Test mark	e-approved to automotive directive, German and European operating permit

Scope of delivery: electronic module, set of cables, fixing materials, installation and operating instructions

Product	Ref. No.
MagicSpeed MS 900 **for Fiat Ducato, Peugeot Boxer and Citroën Jumper** from 2006	MS-901
MagicSpeed MS 900 **for Opel Movano / Vivaro, Renault Master / Trafic and Nissan Interstar / Primastar** from 2006	MS-902

e11

For vehicles with electronic accelerator and CAN bus

Designed for specific vehicles

Extremely fast installation (0.5 – 1 hour)

Control elements for MagicSpeed MS 900

WAECO MagicSpeed Accessories

3.06

Control lever to be fitted on the steering column

Features & functions

› Easy installation on the steering column (left), inclination variable with angle disks
› ON / OFF switch with status indication fitted on the steering lever
› Fine speed adjustment (tap up, tap down)

Test mark	e-approved to automotive directive

Scope of delivery: control lever, plug housing, fixing materials, installation instructions

Product	Ref. No.
Control lever	MS-BE6

e13

Attractive design in original equipment quality

Control element to be fitted on the dashboard
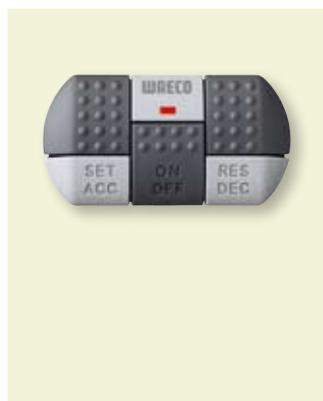
Features & functions

› Easy installation on the dashboard
› ON / OFF switch
› Fine speed adjustment (tap up, tap down)

Test mark	e-approved to automotive directive

Scope of delivery: control element, plug housing, fixing materials, installation instructions

Product	Ref. No.
Control element	MS-BE5

e13

Easy installation on the dashboard

Contents, specifications and availability are subject to change serving the technical improvement.

132 – 133

Automatic cruise control and speed limiter

For vehicles with electronic accelerator

NEW

The MagicSpeed cruise control relieves the driver on long journeys by **automatically keeping a set speed** – a comfortable and safe way to avoid exceeding speed limits. It is still possible to accelerate the vehicle for overtaking. Alternatively, you can change to the **speed limiter** function. In this mode **a set speed limit will not be exceeded**, even at full throttle. MagicSpeed MS 880 is suitable for all vehicles with electronic accelerator, for analogue as well as for CAN bus systems. Three control elements are available to suit different vehicle models.

Please note that the vehicle-specific cable set for installation of the MS 880 is an optional extra, so it has to be ordered separately.

WAECO MagicSpeed MS 880
Comfort cruise control with speed limiter function

3.06

Features & functions
› Set speed set and reset previous speed
› Fine speed adjustment (tap up, tap down)
› Adjusts itself automatically to the vehicle parameters (speed signal and sensitivity)
› Acoustic and visual self diagnosis
› ON / OFF
› Speed limiter function
› Easy to fit with cable sets for specific vehicles
› Choice of three control elements
› **Preconditions for installation: 12 V vehicle electrics, electronic accelerator or CAN bus system, vehicle-specific cable set required**

Test mark   e-approved to automotive directive

Scope of delivery: interface unit, electronic module, clutch switch, set of cables, fixing materials, installation and operating instructions

Product	Ref. No.
MagicSpeed MS 880	9101400024
Optional extra	
Signal amplifier MS-SV	MS-SV

NEW

e1

For vans with electronic accelerator

Designed to suit specific vehicles

Easy to fit

Can also be used as speed limiter

Control elements and accessories for MagicSpeed MS 880

WAECO MagicSpeed Accessories
3.06

Control lever to be fitted on the steering column

Features & functions
› Easy installation on the steering column (left), inclination variable with angle disks
› ON / OFF switch with status indication fitted on the steering lever
› Fine speed adjustment (tap up, tap down)

Test mark — e-approved to automotive directive

Scope of delivery: control lever, plug housing, fixing materials, installation instructions

Product	Ref. No.
Control lever	MS-BE4

e13

Attractive design in original equipment quality

Infra-red remote control to be fitted on the steering wheel

Features & functions
› Easy installation on the steering wheel with a belt band
› Remote control powered by a battery (CR2032 button cell)
› Remote control unit with low-battery LED
› ON / OFF switch (with status indication) to be fitted on the dashboard

Test mark — e-approved to automotive directive

Scope of delivery: control element, control electronics, IR receiver, ON / OFF switch, power kit, fixing materials, installation instructions

Product	Ref. No.
IR remote control	MS-IR2

e13

Safe and secure: operation from the steering wheel

Control element to be fitted on the dashboard

Features & functions
› Easy installation on the dashboard
› ON / OFF switch
› Fine speed adjustment (tap up, tap down)

Test mark — e-approved to automotive directive

Scope of delivery: control element, plug housing, fixing materials, installation instructions

Product	Ref. No.
Control element	MS-BE3

e13

Easy installation on the dashboard

WAECO MagicSpeed CBI 100
3.06

Interface for converting digital CAN bus signals into analogue signals

Features & functions
› 7 analogue output signals
› Automatically identifies the type of vehicle
› Universal product for all commonly used types of vehicles

Test mark — e-approved to automotive directive

Scope of delivery: control unit, set of cables, fuse and installation fittings

NEW

e1

Product	Ref. No.
MagicSpeed CBI 100	9101400020

Vehicle-specific cable sets for MS 880 (selection from the complete range)
3.06

NEW

More vehicle-specific cable sets at www.dometic-waeco.com

Make	Model / year (notes)	Ref. No.
Citroën	Berlingo/2006/07 (5-pole plug only); Berlingo/from 2008	9101400040
	Jumper/from 2006 (please order MS-SV signal amplifier)	9101400029
Fiat	Doblò; Ducato 250/from 2006 (please order MS-SV signal amplifier)	9101400029
	Ducato 244/up to mid 2006	9101400030
Ford	Transit/from 2006; Transit Connect/from 2007; Tourneo Connect/from 2007	9101400048
Nissan	Kubistar; Kubistar 1.5 CDI; Interstar	9101400034
Opel	Vivaro, Movano	9101400034
	Combo/from 2006 (only for engine codes starting with Z and ending with X)	9101400032
Peugeot	Partner/up to 2008 (4-pole plug only)	9101400031
	Partner/from 2008	9101400040
	Boxer/up to 2006	9101400030
	Boxer/from 2006 (please order MS-SV signal amplifier)	9101400029
Renault	Kangoo/up to 2008; Kangoo 1.5 CDI/up to 2008; Trafic; Master	9101400034
	Kangoo/from 2008; Kangoo 1.5 CDI/from 2008	9101400043
Volkswagen	Caravelle/from 1999 (2.5 – 5 cylinder engine); T5 (petrol engine)	9101400030
	T5 1.9 TDI; T5 2.5 TDI	9101400047

WAECO MagicSpeed HUD

Head-up display
with speed warning function

Keep an eye on your speed

Drive safely and with full concentration thanks to WAECO MagicSpeed HUD

Keeping an eye on the speedometer and the road at the same time: it's possible with the WAECO head-up display. MagicSpeed HUD displays the current speed on a projection film attached to the windscreen at the driver's eye level. The system comes with an acoustic alarm function that can be activated to warn you when preset speed limits are exceeded. No need to check the speedometer all the time, no panic braking at the mere sight of a speed camera! MagicSpeed HUD helps you drive safely and with full concentration.

A convenience and safety feature that used to be reserved to the luxury class. Now available for retrofitting in WAECO quality!

› **Universal use** – for all vehicles with 12-volt electrics and speed signal
› **Easily readable**, even when it's sunny or dark
› **Acoustic warning function** (can be switched off)
› **Ease of use** with four programming buttons
› **Fast installation** (about 0.5 to 1 hour)

MagicSpeed HUD is connected to ignition, earth and speedometer signal. If you are not sure where to find the speedometer signal cable in your vehicle, contact the Dometic WAECO representation in your country.

Luxury-class comfort at the touch of a button – programmed in 5 steps

888 SPEED SET 🔊 Km/Hr

P08 SET

156 SET

60 SPEED SET

100 🔊 Km/Hr

Stand-by mode
The display is ready for service as soon as you turn on the ignition. All indicator lamps flash for about two seconds.

Coarse adjustment
Adjust the speed readout of the display to that of the speedometer.
To be done in four steps (10, 20, 40, 80 km/h).

Fine adjustment
Adjust the speed readout of the display to exactly that of the speedometer.
To be done in a range from 50 to 250 km/h.

Set warning speed
Set at what speed limit the display is to emit an audible warning signal (eight stages, from 30 to 130 km/h).

Warning tone
Naturally, you can also disable the warning function.

WAECO MagicSpeed HUD   3.06
Head-up display with speed warning function

Features & functions
› Displays current speed on the windscreen
› Speed warning function (e.g. at 30, 50, 70 or 100 km/h)
› Ease of use with 4 programming buttons
› Non-reflecting, single-coated projection film
› Light sensor automatically adjusts LED illumination (dims in the dark)
› Speaker on top of the housing (warning function can be disabled)
› 12-volt supply via ignition plus
› 3-pole connection cable (ignition, earth, speed signal)

Test mark   E-approved to automotive directive

Scope of delivery: display, 3-pole connection cable, projection film, installation fittings, installation and operating instructions

Product	Ref. No.
MagicSpeed HUD	MHUD-100
Optional extras	
Signal amplifier	MS-SV
CAN bus interface (p. 130)	9101400020
Spare part	
Projection film	MHUD-100PF

E 9

Safe and convenient: keep the speed and the road in view

With speed warning function

Light sensor automatically adjusts LED illumination

Being **seen** better!

Daytime running lights improve safety

MagicTouch – the automatic daytime light control

Driving with lights on at daytime is mandatory in many European countries and considered a matter of course in the interest of traffic safety. For trucks, buses and other utility vehicles without factory-fitted daytime running lights (DRL), Dometic WAECO offers the MagicTouch daytime light control for retrofitting.

When you start the ignition **MagicTouch TFL 100** automatically activates the complete vehicle lighting (dipped headlights, parking lights, sidelights, number plate lights). Only during the actual engine start the daytime light is shortly switched off. There is no need to operate the original light switch, but its function is completely is retained. When the light is switched on manually, the daytime light control is deactivated.

Extra convenience is provided by the **coming home function**: when the ignition has been turned off, the dipped headlights stay on for a selectable period (0 to 120 sec.)

Is driving with DRL safer? Obviously!

Large vehicles in bright daylight – how can they be overlooked? They obviously can. Studies have revealed that, even on a clear day, vehicles driving with dimmed headlights on during daylight hours are perceived faster than unlighted vehicles, and the risk of being overlooked is lower. Our example illustrates the effect under "normal" daylight conditions.

More and more drivers switch their lights on

The mandatory use of daytime running lights throughout Europe would avoid many accidents, as a study of the ACE (Auto Club Europe) shows backed by alarming figures. Even so, driving with lights on during daylight hours has not yet become common practice in all European countries, but is expressly recommended in some countries. Every driver is free to switch the dipped headlights on during daylight hours to protect themselves and other road users. The ideal way is to use an automatic light control system.

Mandatory in many EU countries

Daylight running light regulations in Europe

Country	Where?	When?	Country	Where?	When?
Bosnia-Herzegovina	in and out of town	year round	Lithuania	in and out of town	year round
Bulgaria	in and out of town	01/11 – 31/03	Macedonia	in and out of town	year round
Croatia	in and out of town	October – March	Montenegro	in and out of town	year round
Czech Republic	in and out of town	year round	Norway	in and out of town	year round
Denmark	in and out of town	year round	Poland	in and out of town	year round
Estonia	in and out of town	year round	Portugal	on certain routes	year round
Finland	in and out of town	year round	Romania	out of town	year round
France	– strongly recommended –	–	Russia	out of town	year round
Germany	– strongly recommended –	–	Slovakia	out of town	year round
Hungary	out of town	year round	Slovenia	in and out of town	year round
Iceland	in and out of town	year round	Sweden	in and out of town	year round
Italy	out of town	year round	Switzerland	– strongly recommended –	–
Latvia	in and out of town	year round			

WAECO MagicTouch TFL 100   3.05
Daytime light control with coming home function

Features & functions
- Automatically activates the dimmed headlights when the ignition has been turned on
- Simultaneously activates the complete vehicle lighting (dipped headlights, parking lights, sidelights, number plate lights)
- No need to operate the light switch
- With coming home function: dipped headlights stay on (for 0 to 120 seconds, as set beforehand)
- Universal unit for all utility vehicles
- Conforms with ECE R48 regulation
- Daytime light control is switched off when the light switch is operated manually and during engine start
- Simple installation, easy-to-follow mounting instructions
- Voltage supply: 12 volts DC

Test mark e-approved to automotive directive

Scope of delivery: control unit, set of cables, installation and operating instructions

Product	Ref. No.
MagicTouch TFL 100	2221300001

e11

Automatic light activation – including during daylight hours

Can be deactivated manually

Coming home function up to 120 seconds

Simple installation

Beware of burglars –
protect yourself from gas attacks

MagicSafe gas detector – for your safety's sake

Robberies involving knock-out gas are dramatically on the increase. The anonymousness of remote parking areas is welcomed by a growing number of unscrupulous burglars, who use narcotic gas to put their victims into a deep sleep to gain easy access to their cash, credit cards, ID-cards, laptops and mobiles. Don't just trust your own senses when you're having that hard-earned sleep. After all, you don't want to wake up to a disaster. Be on the safe side – with the **MagicSafe MSG 150 gas detector**.

The gas detector recognises all common narcotic gases based on ether, chloroform, butane, ethane, or trichloroethane. It triggers the alarm as soon as it detects any hazardous substances in the ambient air. The noise of its integrated buzzer just can't be ignored. A red LED lights up for extra warning. Once it has been activated, the gas detector starts its self-testing mode and automatically adjusts itself to the ambient air. Any system malfunctions are immediately indicated. Moreover, you can check the sensor function manually whenever you want by pressing the test button. The test button can also be used to silence the alarm.

By the way: If you have fitted your vehicle with the MS 650 alarm system, the MagicSafe gas detector works as a complementary module, which means you can use the alarm system's remote control for the gas detector, too. Alternatively, the gas detector can be complemented with an external siren.

WAECO MagicSafe MSG 150

Gas detector 12 and 24 volts

3.08

Features & functions

› Responds to all common narcotic gases
› Audible and visual alarm
› Integrated 10-A switching relay
› Adjusts automatically to the room atmosphere
› Temperature-independent gas sensor
› Automatic self test with visual error indication
› Manual function test
› Self-cleaning gas sensor
› Three usage options:
  – As stand-alone unit
  – In combination with WAECO MagicSafe MS 650 car alarms (12 V operation only)
  – In combination with the WAECO MS-620SI siren (12 V operation only)
› For 12 / 24-volt power supply

Current input	approx. 80 mA
Control output	1
Output switching current	10 A
Test marks	CE, e-approved to automotive directive

e13

For 12 and 24 volts

Detects all common narcotic gases

Alarm via car horn

Audible and visual alarm

External siren available as optional extra

Top offer!
Safety you can afford!

Scope of delivery: MSG 150 gas detector, mounting plate, installation and operating instructions

Product	Ref. No.
MagicSafe MSG 150	MSG-150-N
Optional extra	
External siren (12 V)	MS-620SI

Easy connection to 12 or 24 volts:
just plug into cigarette lighter socket, that's all.

Easy to fit with click-in fastener

Reliably detects all common knock-out gases

Contents, specifications and availability are subject to change serving the technical improvement.

140 – 141

Dometic SAFE

Safe on board!

A safe bet for storing your valuables

Dometic safes leave no point of attack for thieves and burglars. Laser-cut doors and two 18 mm steel pivots provide safe storage for your valuables while on the move. The ideal security concept for your vehicle – designed by a company that sets the quality benchmarks for hotel safe security worldwide.

Compact and sturdy: the key-locking **mechanical models Dometic SAFE 281C and 361C** provide many features for enhanced security.

- Mechanical locking system
- Laser-cut doors and frames
- Tight tolerances between door and frame
- Door locking with two 18 mm steel pivots
- Flexible installation: horizontally or vertically
- Available in two sizes: compact safe or laptop format

Extra security: the two **automatic models Dometic SAFE MD 281C and MD 361C** meet highest demands in terms of operating comfort and design.

- Automatic motor locking
- Electronic locking by code entry with 5-minute memory function
- Illuminated LED display
- Emergency access with masterkey
- Laser-cut doors and frames
- Tight tolerances between door and frame
- Door locking with two 18 mm steel pivots
- Flexible installation: horizontally or vertically
- Available in two sizes: compact safe or laptop format

Dometic SAFE 281C / 361C

3.34

Safes with mechanical locking system
For secure storage of valuables in vehicles

SAFE 281C

SAFE 361C

Optional fixing kit

	281C	361C
Capacity	8.3 litres	24.5 litres
Net weight	6.5 kg	12.7 kg
Dimensions [W x H x D]	280 x 165 x 235 mm	360 x 190 x 410 mm
Steel wall thickness	Door: 5.0 mm, cabinet: 1.5 mm	
Colour	Anthracite	
Quality features	Laser-cut door, very tight tolerances between door and cabinet, door locking with 2 steel pivots, robust inside hinges and locks without any plastic parts, vertical or horizontal installation	
Certification	CE	

Mechanical locking system

High-grade finish for maximum security

Easy key operation

Dometic SAFE 361C in laptop size

Scope of delivery: safe, 2 keys, operating instructions

Product	Ref. No.
SAFE 281C	9106600001
SAFE 361C	9106600002
Optional extra	
Fixing kit	9106600005

Dometic SAFE MD 281C / MD 361C

3.34

Safes with automatic locking system
For secure storage of valuables in vehicles

SAFE MD 281C

SAFE MD 361C

Optional aluminium door knob

Optional fixing kit

	MD 281C	MD 361C
Capacity	8.3 litres	24.5 litres
Net weight	6.5 kg	12.8 kg
Dimensions [W x H x D]	280 x 165 x 235 mm	360 x 190 x 410 mm
Steel wall thickness	Door: 5.0 mm, cabinet: 1.5 mm	
Colour	Anthracite	
Quality features	Automatic motor locking system [battery-powered], electronic locking with 4-digit code [changeable] and 5-minute memory function, battery-low indication, laser-cut door, very tight tolerances between door and cabinet, door locking with 2 steel pivots, vertical or horizontal installation	
Certification	CE	

Automatic locking system

Electronic locking by code entry with 5-minute memory function

Attractive design with illuminated LED display

High-grade finish for maximum security

Dometic SAFE MD 361C in laptop size

Scope of delivery: safe, 2 emergency access keys, plastic door knob, 4 Duracell batteries, operating instructions

Product	Ref. No.
SAFE MD 281C	9106600003
SAFE MD 361C	9106600004
Optional extras	
Aluminium door knob	9106600006
Fixing kit	9106600005

15" laptop size

No point of attack for burglars: laser-cut doors and frames

Flexible installation: vertically or horizontally

Functional aesthetics: illuminated LED display on MD 281C and MD 361C safes

Practical laptop size: Safes 361C und MD 361C

WAECO PowerVac

Battery powered wet / dry vacuum cleaner
Lightweight, efficient, cordless

Forget about those flimsy toy cleaners, here's power for you: WAECO PowerVac – a blessing in your truck!

With its 90 watt / 400 mm water column performance, the battery powered vacuum cleaner copes with all the dirt you want to get rid of in your cabin or storage compartments. **Wet or dry – the PowerVac knows no difference.** Fitted with special attachments, it cleans the tiniest gaps and removes every spec of dust from the seat covers. Even the nastiest spills stand no chance of escaping its power. And all that without cables getting in your way. The PowerVac provides full manœuvrability even in small cabins. Your compact little helper requires very little space. You could even put it in one of the storage compartments – after all, they're clean now.

Convenient
**cordless
operation!**

WAECO PowerVac PV 100

3.31

Wet / dry vacuum cleaner with 12-volt rechargeable battery

Features & functions

› Handy, battery-powered vacuum cleaner for mobile use
› Maximum mobility with rechargeable 12-volt battery
› Can be recharged from 12 volts and 230 volts
› Easy-to-clean dust container and fabric filter
› Cleaning power: 400 mm water column

Motor	12 volts DC, 28,000 rpm
Battery	12 volts DC, 2.6 Ah
Operating time	approx. 18 min ±10%
Charging time	10 to 14 h (automatic cut-off)
Capacity	3.8 litres
Power consumption	approx. 90 watts
Cleaning power	approx. 400 mm water column (±10%)
Operating temperature	0°C to +40°C
Material	Handle: ABS Filter: polyester Dust container: PP
Dimensions (W x H x D)	270 x 320 x 198 mm
Weight	2150 g

Ideal for trucks

Universal cleaner for vehicle and home use

Full manœuvrability thanks to cordless operation

AUTO STRASSENVERKEHR
TEST RESULT EXCELLENT

Scope of delivery: vacuum cleaner, hose, attachments for upholstery, rugs and narrow gaps, carrying strap, mains adapter, 12-volt charging cable, operating instructions

Product	Ref. No.
PowerVac PV 100	PV-100

Perfect cleaning performance

The WAECO PowerVac battery gives you up to 18 minutes of uninterrupted operation. Then it's time to connect it to the mains for recharging. Using the connection that is part of the set, recharging takes between 10 and 14 hours. The process is electronically controlled and completed to prevent overcharging. The vacuum cleaner comes with a 3.8 litre dust container and reusable fabric filter, both of which are simply taken off for emptying and cleaning.

Plenty of power

The wattage isn't everything, of course. The vacuum measured in "mm water column" is far more important for your cleaner's performance. You could say it is the "maximum torque" of a vacuum cleaner. And this is where your PowerVac excels: While high-tech vacuum cleaners require 1200 watts to obtain 1500 mm water column, the little, battery operated cleaner boasts an impressive 400 mm water column at only 90 watts!

Suitable for both wet and dry vacuum cleaning

Brush attachment for doormats, rugs and upholstery

Easy cleaning thanks to detachable dust container and fabric filter

Extendible crevice nozzle for narrow gaps

Mobile
kitchen solutions

WAECO PerfectCoffee for **6** cups
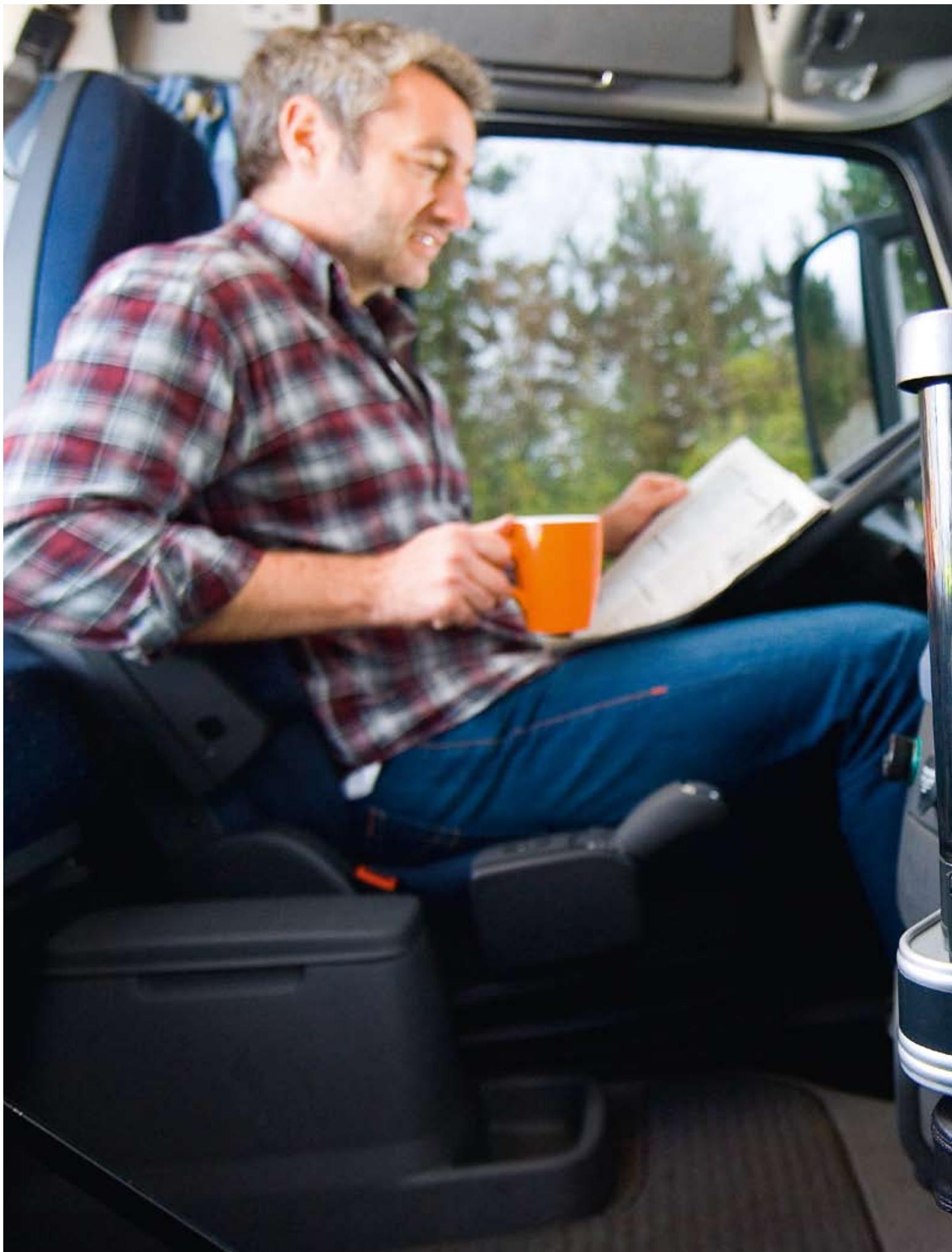
Exclusively for truckers
24-volt Coffee-Maker by WAECO

At last there's a coffee-maker made especially for you! One that comes with the right connection, with the matching capacity and even with a mounting bracket for wall or desk mounting. Living up to its name, the WAECO PerfectCoffee MC 06 provides you with six cups of freshly brewed coffee, enough for hours of driving. In terms of design and user comfort, the beautiful appliance beats many household coffee-makers hands down.

› Ready for connection to **24 volts**
› High quality **stainless steel thermal flask** (6 cups)
› **Automatic cut-off** after brewing
› Removable **water tank with safety fixture**
› Removable **filter with drip-stop valve**
› **E-approved** and **food-safe** according to the German Foodstuff and Consumer Goods Act (LMBG)

WAECO PerfectCoffee MC 06
Truck Coffee-Maker, 6 cups, 24 volts

3.13

Capacity	approx. 6 cups (750 ml)
Voltage	24 volts DC
Power consumption	380 watts (brewing mode)
Current input	25 A
Colour	Silver / black
Dimensions (W x H x D)	270 x 232 x 170 mm (without flask)
Weight	2.6 kg
Quality features	High-quality thermal flask in stainless steel with latch strap for a secure hold, automatic cut-off after brewing, removable filter with drip-stop valve, designed for use with standard paper filters, removable water tank with water level indicator and safety fixture, LED indicators
Test marks	E-approved (Automotive EMC Directive), food-safe according to the German Foodstuff and Consumer Goods Act (LMBG)

E 4

24-volt Coffee-Maker designed especially for use in trucks

High quality thermal flask in stainless steel

Scope of delivery: Coffee-Maker with connection cable and plug, thermal flask, mounting bracket for wall or desk mounting

Product	Ref. No.
PerfectCoffee MC 06	MC-06-24

Delicious coffee served in style: beautiful thermal flask in stainless steel with tight closing lid

Handy and safe: removable water tank with fixture

Clean handling: removable filter with drip-stop valve

Perfect on-board service – slim design, handy to use

Freshly brewed coffee – anytime, anywhere

WAECO PerfectCoffee for 12 or 24 volts

The WAECO PerfectCoffee range includes Coffee-Makers for any demand and budget. Regardless of whether you opt for the 8-cup luxury model, the 5-cup compact size or the inexpensive 1-cup brewer, you will enjoy great coffee when you need it most.

› Available as a **12-volt** or **24-volt** model
› Designed **for mobile use**
› With **fixing kit** for a firm hold in the vehicle
› **Automatic cut-off after brewing** or **overheat protection**
› **E-approved** and **food-safe** according to the German Foodstuff and Consumer Goods Act (LMBG)

WAECO PerfectCoffee MC 08

3.13

Coffee-Maker de Luxe, 8 cups, 12 volts or 24 volts

Capacity	approx. 8 cups (750 ml)
Voltage	12 or 24 volts DC
Average power consumption	12 volts: 200 watts, 24 volts: 360 watts
Colour	Black / silver
Dimensions (W x H x D)	285 x 320 x 100 mm
Weight	1.8 kg
Quality features	Slim, space-saving design, removable water tank, water level indicator, robust relay technology, LED indicator, cut-off after brewing
Test marks	E-approved (Automotive EMC Directive), food-safe according to the German Foodstuff and Consumer Goods Act (LMBG)

Scope of delivery: Coffee-Maker with connection cable and plug, thermal flask, fixing kit for wall or desk mounting

Product	Ref. No.
PerfectCoffee MC 08, 12 volts	MC-8-12LX/N
PerfectCoffee MC 08, 24 volts	MC-8-24LX/N

E 4

Slim, space-saving design

Automatic cut-off after brewing

Convenient operation

With robust relay technology

WAECO PerfectCoffee MC 05

3.13

Coffee-Maker 5 cups, 12 volts or 24 volts

Capacity	approx. 5 cups (680 ml)
Voltage	12 or 24 volts DC
Average power consumption	12 volts: 200 watts, 24 volts: 380 watts
Colour	Black / silver
Dimensions (W x H x D)	210 x 260 x 140 mm (incl. fixing kit)
Supply cable	1.0 m
Weight	1.34 kg
Quality features	Designed for use with standard paper filters (size 2), transparent water tank with cup scale, integrated transport securing device for glass pot, hotplate with thermostat, robust relay technology, overheat protection, LED indicator
Test marks	E-approved (Automotive EMC Directive), food-safe according to the German Foodstuff and Consumer Goods Act (LMBG)

Scope of delivery: Coffee-Maker with connection cable and plug, glass pot, fixing kit for wall or desk mounting

Product	Ref. No.
PerfectCoffee MC 05, 12 volts	MC-05-12/N
PerfectCoffee MC 05, 24 volts	MC-05-24/N

E 4

With fixing kit for wall or desk mounting

With robust relay technology

WAECO PerfectCoffee MC 01

3.13

Coffee-Maker, 1-cup, 12 volts or 24 volts

Capacity	150 ml
Voltage	12 or 24 volts DC
Average power consumption	12 volts: 180 watts, 24 volts: 250 watts
Current input	approx. 15 A
Colour	Silver / black
Dimensions (W x H x D)	135 x 190 x 110 mm (incl. fixing kit)
Weight	750 g
Quality features	Short brewing time, automatic cut-off, switches off automatically when there's no water in the tank, permanent filter, LED indicator
Test marks	Food-safe according to the German Foodstuff and Consumer Goods Act (LMBG), CE

Scope of delivery: Coffee-Maker with connection cable and plug, ceramic mug, fixing kit

Product	Ref. No.
PerfectCoffee MC 01, 12 volts	MC-01-12
PerfectCoffee MC 01, 24 volts	MC-01-24

With fixing kit for desk mounting

Fresh coffee after 5 minutes brewing time

For cars, trucks, motorhomes, boats

Price hit!

Contents, specifications and availability are subject to change serving the technical improvement.

150 – 151

WAECO PerfectKitchen

Available as
**12- or
24-volt**
version

Something hot is what you need
Water kettle for mobile use

Why waste time and money in motorway service areas when you've got hot water on board? A pot of tea, a cup of cappuccino or instant cocoa, a dish of broth or soup – any of these is prepared in a few minutes with the WAECO PerfectKitchen MCK 750 Car-Kettle.
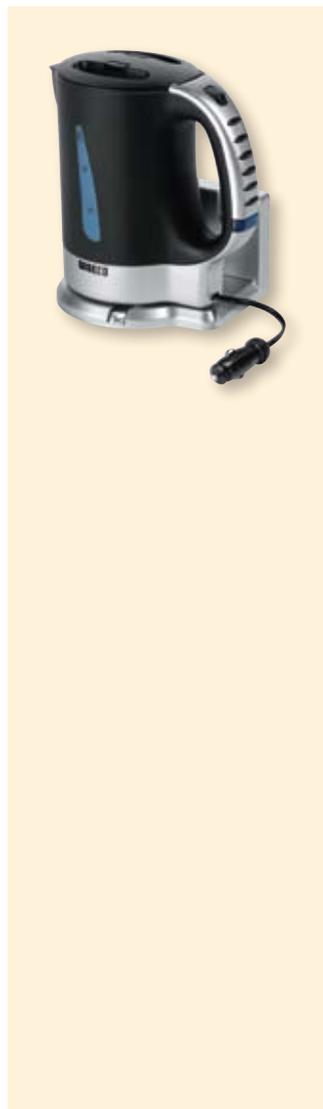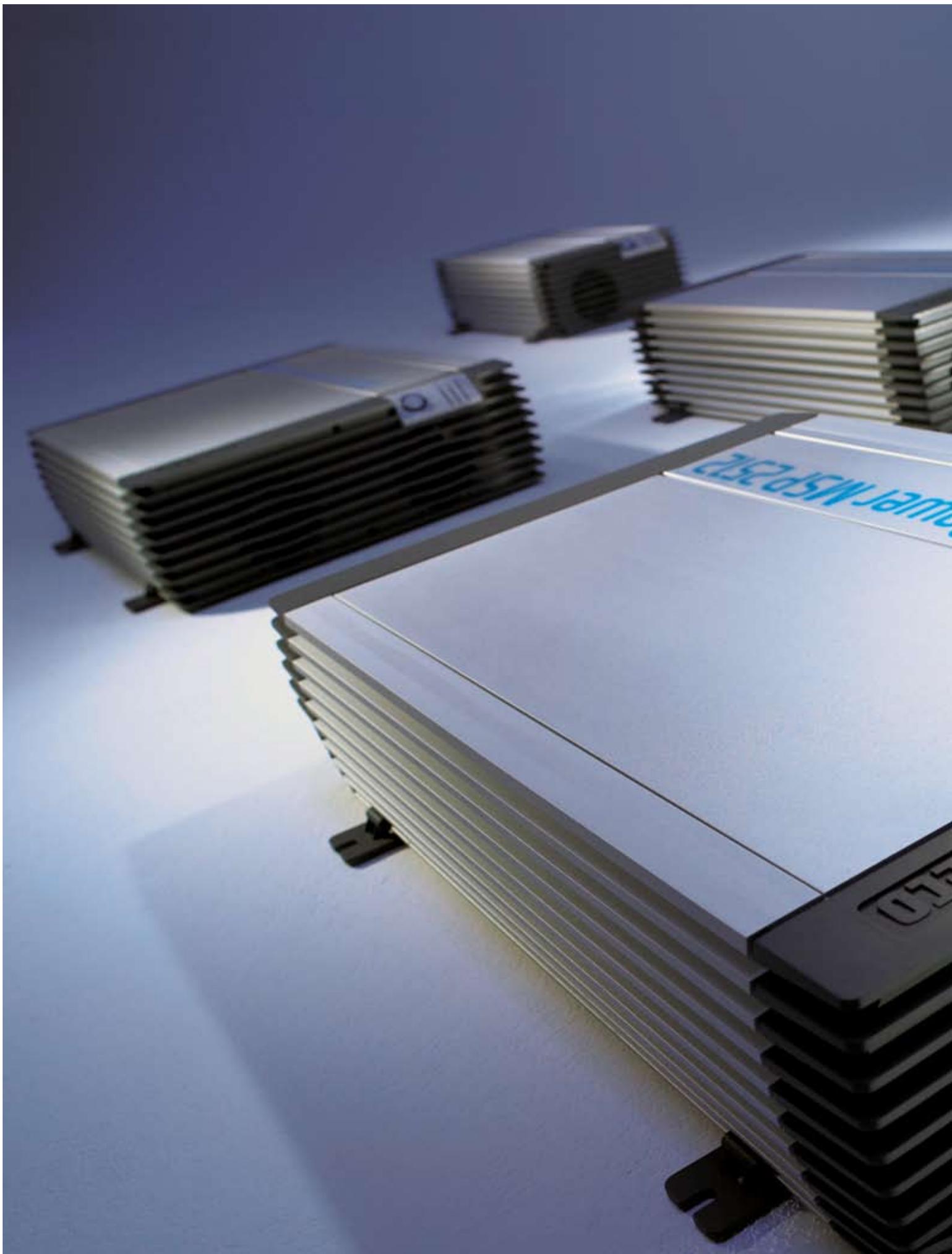
The elegant 0.75-litre water kettle is handy and safe in operation. It is available as a 24-volt model for trucks and a 12-volt version for vans and cars.

› Designed **for mobile use**
› Available as **12-volt or 24-volt version**
› For a firm hold in the vehicle:
  fixing kit for wall or desktop mounting

WAECO PerfectKitchen MCK 750

3.14

Car-Kettle for 12 or 24 volts

Capacity	approx. 0.75 litres
Voltage	12 or 24 volts DC
Average power consumption	12 volts: 200 watts, 24 volts: 380 watts
Colour	Black / silver
Dimensions (W x H x D)	190 x 205 x 125 mm (incl. fixing kit)
Weight	750 g
Quality features	Robust relay technology, switches off automatically when the boiling temperature has been reached, or when there's no water in the kettle, status indication
Test marks	E-approved (Automotive EMC Directive), food-safe according to German Foodstuff and Consumer Goods Act (LMBG)

E 4

**Tailor-made
for mobile use**

**Wall or
desk mounting**

Scope of delivery: Car-Kettle, fixing kit for wall or desk mounting

Product	Ref. No.
PerfectKitchen MCK 750, 12 volts	MCK-750-12/N
PerfectKitchen MCK 750, 24 volts	MCK-750-24/N

Contents, specifications and availability are subject to change serving the technical improvement.

152 – 153

Mobile
electronics

Perfect power supply

Home-like comfort away from home
With professional electronic accessories

From voltage converters to mobile power supply

When on the road, enjoy the same convenience you have at home – with mobile electronics by Dometic WAECO.

The range includes all you need for a perfect on-board system: voltage converters to turn 12 volts into 24 volts and vice versa, charging converters to stabilise the on-board voltage supply, and, a special highlight this year, the so far most comprehensive range of sine wave inverters. The complete generation of premium quality inverters delivers 230 volts for many different applications. A multi-functional battery jump starter and a battery charger belong in every vehicle and in every garage. In remote locations, far away from any mains supply, power is provided by high-performance generators, which add the finishing touch to the electronics range.

Voltage converters 12 V › 24 V / 24 V › 12 V

They combine what was never intended to be combined: 12-volt appliances and 24-volt board batteries – and vice versa. The converters can also be used for battery charging.

WAECO PerfectPower Pages 158 – 161

NEW

PerfectPower DCDC 06

Charging converters

WAECO PerfectCharge IU charging converters give supply batteries a full charge during the drive.

WAECO PerfectCharge Pages 162 – 163

PerfectCharge DC 08

Inverters

230 volts on board – for laptops, espresso machines and more. Depending on the type of appliance to be supplied you can choose a WAECO inverter with modified sine voltage, or opt for a pure sine wave inverter.

WAECO PocketPower
WAECO PerfectPower
WAECO SinePower Pages 164 – 177

SinePower MSP 352

Mobile energy supply

High-performance battery jump starter with many extra functions. High-quality, all-round tool for workshop, garage and mobile use.

WAECO PowerPack Pages 178 – 179

PowerPack MPS 500

Generators

Mobile power generators by Dometic provide energy where mains power is unavailable. Ideal for service vehicles, tool and gear trucks, market stalls.

Dometic Generator Pages 180 – 181

Dometic TEC 29

WAECO PerfectPower / PerfectCharge

Inexpensive converters, such as those in the PerfectPower series (DCDC 06 to DCDC 24), are absolutely fine for running a 12-volt appliance on a 24-volt battery.

Things are different when you have a computer, monitor or measuring instrument. Such sensitive appliances require a constant and stable voltage that compensates drops and peaks – the kind that is generated by **voltage converters and charging converters with electrically isolated input and output voltage (PerfectPower DCDC 10 to DCDC 40 or PerfectCharge DC 08 to DC 40).**

These high-quality DC/DC converters can also be used for quick and gentle charging of supply batteries during the drive. PerfectCharge charging converters, given their enhanced output voltage of 14.2 volts, are the best choice for this purpose.

Always the perfect voltage
DC/DC converters for all applications

WAECO PerfectPower
DCDC 06 / 12 / 24
Voltage converters

Inexpensive, super-compact voltage converters in switch-mode design for operation of 12-volt appliances in 24-volt circuits.

› High energy efficiency (up to 90%)
› Low heat output
› Compact design, low weight
› Easy to fit with clip-on system
› **Now in new design**
› e-certified (Automotive EMC Directive)

Page 159

WAECO PerfectPower
DCDC 10 / 20 / 40
Voltage converters

High-end voltage converters with electrically isolated input and output voltage. Designed for highest demands. Ideal as voltage stabilisers for sensitive **12-volt or 24-volt appliances**. These converters compensate for over- and undervoltage, generating a stable output voltage. They can also be used for charging supply batteries.

› DC/DC voltage conversion
  12 › 24 V / 24 › 12 V / 24 › 24 V
› Generate a stable output voltage
  (±0.1 V)
› Fast and gentle charging of supply
  batteries during the drive
› Several converters can be used in parallel
› Enable input to switch the converter
  on or off
› e-certified (Automotive EMC Directive)

Page 160 – 161

WAECO PerfectCharge
DC 08 / 20 / 40
Charging converters

High-end charging converters with electrically isolated input and output voltage.
Ideal for use as **battery chargers** in **12-volt** circuits. Feature the charging characteristics recommended by battery manufacturers (IU charging curve, electronically controlled charging voltage of 14.2 volts). Can also be used as **voltage stabilisers** for sensitive 12-volt appliances.

› Fast and gentle charging of 12-volt
  batteries during the drive
› Suitable for gel, AGM and wet batteries
› DC/DC voltage conversion 12 › 12 V
› Generate a stable output voltage
  (±0.1 V)
› Several converters can be used in parallel
› Enable input to switch the converter
  on or off
› e-certified (Automotive EMC Directive)

Page 162 – 163

Contents, specifications and availability are subject to change serving the technical improvement.

WAECO PerfectPower DCDC 06

Voltage converter 6 A, 24 volts › 12 volts

3.18

Input voltage	20 to 30 volts DC
No-load input current	8 mA
Nominal input current	5 A
Output voltage	13.8 volts DC –10%
Nominal output current	6 A
Peak output current	10 A
Energy efficiency	up to 90%
Dimensions (W x H x D)	105 x 47 x 118 mm
Weight	0.45 kg
Test mark	e-certified (Automotive EMC Directive)

Product	Ref. No.
PerfectPower DCDC 06	8006-DC24

WAECO PerfectPower DCDC 12

Voltage converter 12 A, 24 volts › 12 volts

Input voltage	20 to 30 volts DC
No-load input current	8 mA
Nominal input current	10 A
Output voltage	13.8 volts DC –10%
Nominal output current	12 A
Peak output current	18 A
Energy efficiency	up to 90%
Dimensions (W x H x D)	105 x 47 x 128 mm
Weight	0.5 kg
Test mark	e-certified (Automotive EMC Directive)

Product	Ref. No.
PerfectPower DCDC 12	8012-DC24

WAECO PerfectPower DCDC 24

Voltage converter 24 A, 24 volts › 12 volts

Input voltage	20 to 30 volts DC
No-load input current	8 mA
Nominal input current	18 A
Output voltage	13.8 volts DC –10%
Nominal output current	24 A
Peak output current	30 A
Energy efficiency	up to 90%
Dimensions (W x H x D)	105 x 47 x 158 mm
Weight	0.7 kg
Test mark	e-certified (Automotive EMC Directive)

Product	Ref. No.
PerfectPower DCDC 24	8024-DC24

NEW

High energy efficiency

Low heat output

Switch-mode design

Easy to fit with clip-on system

Choice of three units to suit different amperages

New design

Contents, specifications and availability are subject to change serving the technical improvement.

158 – 159

A stable voltage for computers & the like

Converters with electronically controlled output voltage

Sensitive electronic appliances, such as computers or measuring instruments, require a voltage converter with electrically isolated input and output voltage. It's the only way to ensure they will get a stable voltage, even if the on-board power supply drops or peaks. The PerfectPower series gives you a choice of five units to cover various uses. You can run 12-volt appliances on a 24-volt battery, or 24-volt appliances on a 12-volt battery. Simultaneously, you can have your supply batteries recharged. Should your converter come up against its limits, simply switch a second one in parallel.

12 volts › 24 volts 10 A / 20 A

PerfectPower DC1224-20 in a small truck with 12-volt electrics:

charges the 24-volt battery for the tail lift

› Fast and gentle charging of the 24-volt supply battery while driving
› Low-cost, simple and safe way to create a dual-voltage circuit
› Enable input can be connected to D+ to switch the converter on or off automatically via the generator

WAECO PerfectPower DC1224-20
12 V starter battery
12 V generator
24 V supply battery
24 V tail lift
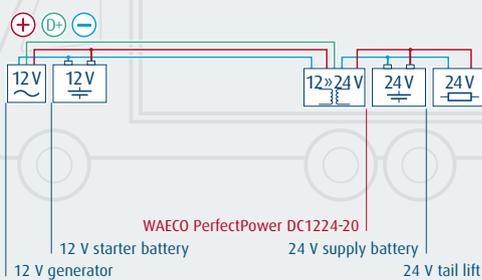
24 volts › 24 volts 10 A

PerfectPower DC2424-10 in a truck with 24-volt electrics:

stabilises the voltage supply for sensitive 24-volt appliances

› Generates a stable, electronically controlled output voltage (±0.1 V) for sensitive 24-volt appliances
› Compensates for voltage drops and peaks
› Enable input for connection of a manual ON / OFF switch to battery +

24 V appliances
WAECO PerfectPower DC2424-10
24 V starter battery
24 V generator
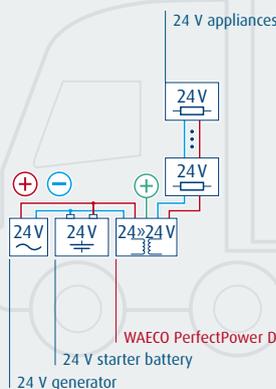
24 volts › 12 volts 40 A

Two PerfectPower DC2412-40 units in a truck with 24-volt electrics:

charge two 12-volt supply batteries for the stationary air conditioner

› Fast and gentle charging of the two 12-volt supply batteries during the drive
› Enable input for connection to D+ to switch the converter on or off automatically via the generator

24 V air conditioner for stationary use
2 x 12 V supply batteries
2 x WAECO PerfectPower DC2412-40
24 V starter battery
24 V generator
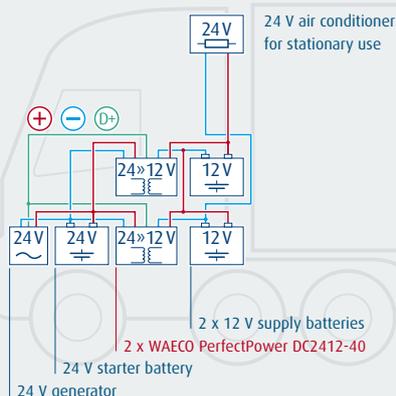
WAECO PerfectPower DCDC 10 / DCDC 20 / DCDC 40

Voltage converters with electrically isolated input and output voltage

Optimised for sensitive electronic appliances

Features & functions

› Stable, electronically controlled output voltage (±0.1 V)
› High energy efficiency (87%)
› Several converters can be used in parallel
› Additional enable input: connection of a switch to battery + for manual activation / deactivation of the converter; or, when used for charging, connection to D+ to switch the unit on or off automatically via the generator
› EMC optimised for the automotive industry
› Available in five models:
  12 volts › 24 volts (10 amps)
  12 volts › 24 volts (20 amps)
  24 volts › 24 volts (10 amps)
  24 volts › 12 volts (20 amps)
  24 volts › 12 volts (40 amps)

Electrically isolated input and output voltage

Compensate for voltage drops and peaks

Ideal for sensitive electrical appliances

Can also be used as battery charger

Several converters can be used in parallel

EMC optimised for the shipbuilding and automotive industries

DCDC 10

DCDC 20

12 volts › 24 volts, 10 A / 20 A

	DCDC 10	DCDC 20
Nominal input voltage	12 volts DC	12 volts DC
Input voltage range	8 to 16 volts DC	8 to 16 volts DC
Output current	10 A	20 A
Output voltage	27.6 ±0.1 volts	27.6 ±0.1 volts
Energy efficiency	87%	87%
Ripple & noise	40 mA	40 mA
Weight	1.2 kg	1.9 kg
Dimensions (W x H x D)	115 x 70 x 155 mm	115 x 70 x 240 mm
Test mark	e-certified (Automotive EMC Directive)	

Product	Ref. No.
PerfectPower DCDC 10, 10 A, 12 V › 24 V	DC1224-10
PerfectPower DCDC 20, 20 A, 12 V › 24 V	DC1224-20

DCDC 10 Ideal for use as tail lift battery charger

DCDC 10

24 volts › 24 volts, 10 A

	DCDC 10
Nominal input voltage	24 volts DC
Input voltage range	20 to 32 volts DC
Output current	10 A
Output voltage	27.6 ±0.1 volts
Energy efficiency	87%
Ripple & noise	40 mA
Weight	1.0 kg
Dimensions (W x H x D)	115 x 70 x 140 mm
Test mark	e-certified (Automotive EMC Directive)

Product	Ref. No.
PerfectPower DCDC 10, 10 A, 24 V › 24 V	DC2424-10

2 x DCDC 40 Ideal for charging two 12-volt supply batteries for stationary air conditioners

DCDC 20

DCDC 40

24 volts › 12 volts, 20 A / 40 A

	DCDC 20	DCDC 40
Nominal input voltage	24 volts DC	24 volts DC
Input voltage range	20 to 32 volts DC	20 to 32 volts DC
Output current	20 A	40 A
Output voltage	13.8 ±0.1 volts	13.8 ±0.1 volts
Energy efficiency	87%	87%
Ripple & noise	20 mA	20 mA
Weight	1.2 kg	1.9 kg
Dimensions (W x H x D)	115 x 70 x 155 mm	115 x 70 x 240 mm
Test mark	e-certified (Automotive EMC Directive)	

Product	Ref. No.
PerfectPower DCDC 20, 20 A, 24 V › 12 V	DC2412-20
PerfectPower DCDC 40, 40 A, 24 V › 12 V	DC2412-40

WAECO PerfectCharge

A perfect charge for 12-volt vehicle batteries
Charging converters with electronically controlled output voltage

Their electronically controlled output voltage of 14.2 volts qualifies PerfectCharge charging converters for their main job as charge amplifiers for 12-volt batteries.

In addition, they stabilise the voltage supply for sensitive high-tech appliances – something they can do just as well as PerfectPower voltage converters. Like the latter, they have an electrically isolated input and output voltage, and thus the ability to compensate for voltage drops and peaks. For circuits requiring more than 40 amps, several converters can be switched in parallel.

12 volts › 12 volts 20 A

PerfectCharge DC1212-20 in an OB van with 12-volt vehicle electrics:
stabilises the voltage supply to protect the video and sound equipment
› Generates a stable, electronically controlled output voltage (±0.1 V) for sensitive 12-volt appliances
› Compensates for voltage drops and peaks
› Enable input for connection of a manual ON / OFF switch to battery +

12 V appliance

12 V

WAECO PerfectCharge DC1212-20

12 V starter battery
12 V generator
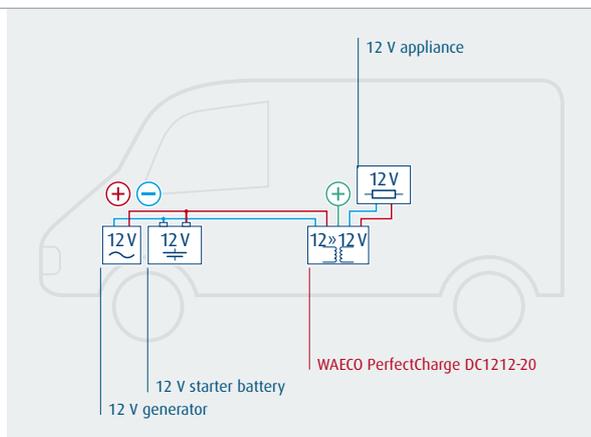
12 volts › 12 volts 40 A

PerfectCharge DC1212-40 in a small truck with 12-volt electrics:
charges the 12-volt supply battery for the tail lift or hydraulic platform
› Optimal charging of the supply battery at 14.2 volts while driving
› IU charging curve – recommended for all types of batteries
› Enable input can be connected to D+ to switch the converter on or off automatically via the generator

WAECO PerfectCharge DC1212-40

12 V starter battery   12 V supply battery
12 V generator   12 V tail lift

Contents, specifications and availability are subject to change serving the technical improvement.
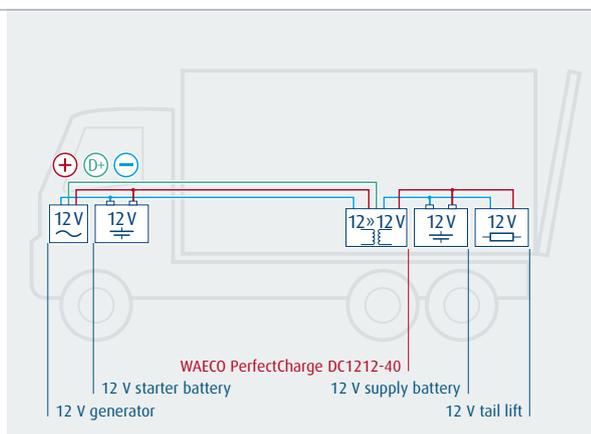
WAECO PerfectCharge DC 08 / DC 20 / DC 40

Charging converters with electrically isolated input and output voltage

3.16

Features & functions

› Stable, electronically controlled output voltage (±0.1 V)

› High energy efficiency (87%)

› Fast and gentle charging (IU charging curve)

› Additional enable input: connection of a switch to battery + for manual activation / deactivation of the converter; or, when used for charging, connection to D+ to switch the unit on or off automatically via the generator

› EMC optimised for the automotive industry

› Available in three models:
12 volts › 12 volts (8 amps)
12 volts › 12 volts (20 amps)
12 volts › 12 volts (40 amps)

*Ideal for **charging** the **supply battery** while driving*

- Electrically isolated input and output voltage
- Compensate for voltage drops and peaks
- Complete battery charging during the drive
- IU charging curve
- Ideal for sensitive electrical appliances
- Several converters can be used in parallel
- EMC optimised for the shipbuilding and automotive industries

12 volts › 12 volts, 8 A — DC 08

DC 08

Nominal input voltage	12 volts DC
Input voltage range	8 to 16 volts DC
Output current	8 A
Output voltage	14.2 ±0.1 volts
Energy efficiency	87%
Ripple & noise	20 mA
Weight	0.75 kg
Dimensions (W x H x D)	115 x 70 x 100 mm
Test mark	e-certified (Automotive EMC Directive)

Product	Ref. No.
PerfectCharge DC 08, 8 A, 12 V › 12 V	DC1212-08

12 volts › 12 volts, 20 A — DC 20

DC 20

Nominal input voltage	12 volts DC
Input voltage range	8 to 16 volts DC
Output current	20 A
Output voltage	14.2 ±0.1 volts
Energy efficiency	87%
Ripple & noise	20 mA
Weight	1.2 kg
Dimensions (W x H x D)	115 x 70 x 160 mm
Test mark	e-certified (Automotive EMC Directive)

Product	Ref. No.
PerfectCharge DC 20, 20 A, 12 V › 12 V	DC1212-20

12 volts › 12 volts, 40 A — DC 40

DC 40

Nominal input voltage	12 volts DC
Input voltage range	8 to 16 volts DC
Output current	40 A
Output voltage	14.2 ±0.1 volts
Energy efficiency	87%
Ripple & noise	20 mA
Weight	2.1 kg
Dimensions (W x H x D)	115 x 70 x 270 mm
Test mark	e-certified (Automotive EMC Directive)

Product	Ref. No.
PerfectCharge DC 40, 40 A, 12 V › 12 V	DC1212-40

Contents, specifications and availability are subject to change serving the technical improvement.

162 – 163

Inverters from XS to XXL
Mobile power sockets

It makes absolute sense to have a 230-volt socket on board your truck or van. After all, enjoying your journey means being able to use the electrical gadgets you are used to. Also, many tools just won't work without a 230-volt socket.

Your on-board batteries generate 12 or 24 volts direct current, and their capacity is limited. The matching **WAECO inverter turns it into the required 230 volts alternating current.**

The comprehensive range has been designed with user comfort in mind and consistently geared to specific applications. It accounts for all your needs – regardless of whether you "just" want a low-priced, compact unit to run your laptop, a power source for your razor, or a high-performance inverter for your microwave oven or espresso machine. All units feature outstanding quality and a contemporary, user-friendly design.

Inverter or sine wave inverter?

Which inverter is the right one depends on the type and power rating of the appliance to be connected. The low-priced **WAECO PerfectPower** inverters generate a modified output voltage – sufficient for all electrical appliances with a wide input voltage range, such as hairdryers and power drills.

Sensitive high-tech appliances with special start-up characteristics, e.g. audio / video devices, require a perfectly stable voltage supply. Fluctuations may cause failure or even damage them. **WAECO SinePower** sine wave inverters make sure that won't happen. They deliver a pure 230-volt input voltage, just like from a domestic mains supply.

Modified or pure sine wave voltage supply is also provided by the small **PocketPower** smart inverters, designed for mobile operation of notebooks and the like.

Basically, the most demanding electrical appliance determines the choice of the inverter. A single device on board requiring a pure sine wave voltage is reason enough for you to opt for a sine wave inverter. You should also consider the starting current of the devices. Compressor refrigerators, for instance, can consume up to ten times more than their nominal power consumption.

Minimal power requirements for some electrical appliances

Device	Power rating	Quality of the output voltage
Coffee maker (filter)	800 – 1500 watts	modified sine wave voltage *
Coffee maker (pads)	1200 – 1600 watts	pure sine wave voltage
Espresso machine	1200 – 1600 watts	pure sine wave voltage
Microwave oven	1000 – 1600 watts	modified sine wave voltage *
Toaster	1000 – 1500 watts	modified sine wave voltage *
Water kettle	1000 – 1500 watts	modified sine wave voltage *
Reading lamp	50 – 100 watts	modified sine wave voltage *
Energy-saving bulb	10 – 20 watts	pure sine wave voltage
Fluorescent tube	50 – 100 watts	pure sine wave voltage
Audio / video device	100 – 200 watts	pure sine wave voltage
Notebook computer	100 – 200 watts	modified sine wave voltage **
Power drill / circular saw	500 – 1500 watts	modified sine wave voltage *
Vacuum cleaner	1000 – 1600 watts	modified sine wave voltage *
Electrical toothbrush	50 watts	pure sine wave voltage

Most frequent applications include:
charging of mobile phone batteries, cameras, torch lights, power tools, satellite aerials, DVD players, TV sets ...

* May not be suitable for all sensitive appliances   ** Pure sine wave voltage may be recommendable for some units

Pure or modified sine wave voltage?

Modified sine wave voltage

The voltage produces a stepped curve simulating a sine wave.
The result: an output voltage of stable amplitude and frequency
› **WAECO PerfectPower inverters (p. 168 – 171)**
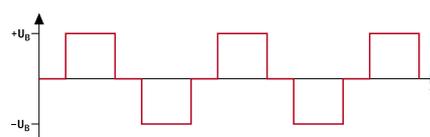
Pure sine wave voltage

The voltage is accurately controlled by a microprocessor.
The result: a clean sine wave voltage, like that from a home power socket
› **WAECO SinePower sine wave inverters (p. 172 – 177)**

WAECO PocketPower

Pure sine wave voltage for your laptop

Inverters in pocket-size format

Mobile power for notebooks and more

Sales representatives, craftsmen, technical service crews – more and more business travellers depend on their laptops. Mobile computers work on limited battery power. So they are likely to let you down when you need them most. PocketPower smart inverters put you on the safe side. Connected in the line between the laptop and the cigarette lighter, the compact units take power from the 12-volt vehicle battery to ensure hassle-free operation of your mobile computer by keeping its battery fully charged all the time. The inexpensive **PocketPower SI 102** generates a sine-wave-like 230-volt alternating voltage, which is perfectly adequate for many applications. **PocketPower TSI 102** is the best choice to ensure the safe and smooth operation of highly sensitive electrical appliances: its pure sine wave voltage, earthed safety socket and other comfort features place this product in a class of its own.

WAECO PocketPower TSI 102

Handy, convenient, one-of-a-kind!

Unique to the market, WAECO PocketPower TSI 102 is the first smart inverter that delivers a pure sine wave voltage and features an earthed safety socket. Treating yourself to this kind of "everyday luxury" means providing connected appliances with the best possible choice – and yourself, too ...

Pure sine wave voltage

WAECO PocketPower SI 102

3.29

Smart inverter 100 watts for mobile use
Turns 12 volts battery voltage into 230 volts AC
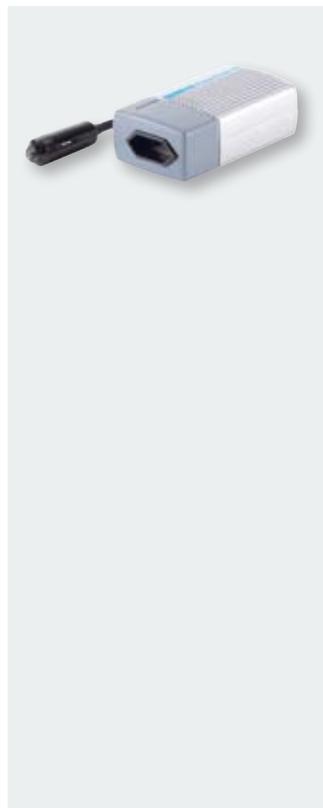
Features & functions

› Lightweight, small, handy
› For operation of laptops and other low-power appliances
› Low-voltage and over-voltage cut-off
› Overload and short-circuit protection
› With USB charging port
› Mounting bracket
› Euro socket

Nominal input voltage	12 volts DC (11 to 15 volts)
Output voltage / curve	230 volts AC / modified sine wave
Output voltage USB	5 volts / 0.5 A
Output frequency	50 Hz
No-load current input	< 0.4 A
Continuous power	**100 watts**
Peak power	200 watts
Low-voltage cut-off	10.8 volts
Cooling	Built-in fan
Energy efficiency	Up to 90%
Dimensions (W x H x D)	67 x 43 x 125 mm
Weight	282 g
Test marks	Certified to ECE-R10, CE

Modified sine wave voltage

Ideal for mobile operation of notebooks

Lightweight and compact

Smart features – small price

Cigarette lighter connection

USB charging port

LED status indication

Attention! Only available with a two-pin Euro socket

Product	Ref. No.
PocketPower SI 102, 100 watts, 12 volts	2222600001

WAECO PocketPower TSI 102

3.29

Smart inverter 120 watts for mobile use
Turns 12 volts battery voltage into 230 volts AC
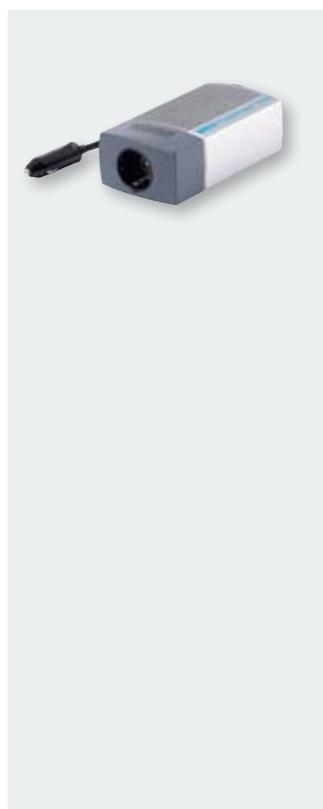
Features & functions

› Pure sine wave output voltage
› For operation of laptops and other low-power appliances
› Low-voltage and over-voltage cut-off
› Overload and short-circuit protection
› With USB charging port
› Mounting bracket
› Earthed safety socket

Nominal input voltage	12 volts DC (11 to 15 volts)
Output voltage / curve	230 volts AC / pure sine wave
Output voltage USB	5 volts / 0.5 A
Output frequency	50 Hz
No-load current input	< 0.8 A
Continuous power	**120 watts**
Peak power	200 watts
Low-voltage cut-off	10.8 volts
Cooling	Built-in fan
Energy efficiency	Up to 90%
Dimensions (W x H x D)	92 x 64 x 180 mm
Weight	650 g
Test marks	Certified to ECE-R10, CE

Pure sine wave voltage

Ideal for mobile operation of notebooks

Earthed safety socket

Cigarette lighter connection

USB charging port

LED status indication

Attention! Only available with a three-pin German earthed safety socket

Product	Ref. No.
PocketPower TSI 102, 120 watts, 12 volts	2222600002

WAECO PerfectPower
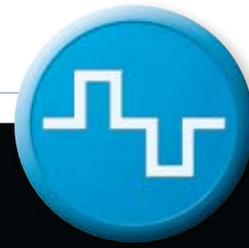
Inverters with modified sine wave voltage

230 volts for many commonly used appliances

High product quality, distinctive design, top technology, numerous comfort features – WAECO PerfectPower series inverters have all the hallmarks of a premium product. The units up to 550 watts are particularly light and compact. They turn 12- or 24-volt battery voltage into a sine-wave-like 230-volt alternating voltage, which is fully adequate for a multitude of applications.

This inverter generation demonstrates great potential. Take installation for instance: adjustable clip-on mounts allow for **perfect adaptation to individual needs**. For those who are looking for extra comfort and prefer activating their inverter from the dashboard there is an additional outlet for an external switch.

Back:
ON / OFF switch and outlet for an external ON / OFF switch

Front:
Earthed safety socket and LEDs for function check

Mounting aid:
Individually adjustable clip-on mounts

Contents, specifications and availability are subject to change serving the technical improvement.

WAECO PerfectPower PP 152 / PP 154 / PP 402 / PP 404 / PP 602 / PP 604   **3.18**

Inverters 150 / 350 / 550 watts
Turn 12 or 24 volts battery voltage into 230 volts AC

PP 152

PP 154

PP 402

PP 404

PP 602

PP 604

	PP 152 / PP 154	PP 402 / PP 404
Input voltage	12 volts DC (11 to 15 volts) or 24 volts DC (22 to 30 volts)	
Output voltage / curve	230 volts AC / modified sine wave	
Output frequency	50 Hz	
No-load current input	0.25 A	0.25 A
Continuous power	**150 watts**	**350 watts**
Peak power	350 watts	700 watts
Cooling	Built-in fan	Built-in fan
Energy efficiency	Up to 90%	Up to 90%
Dimensions (W x H x D)	129 x 71 x 177 mm	129 x 71 x 192 mm
Weight	approx. 0.84 kg	approx. 0.99 kg
Quality features	Overload and short circuit protection, over-voltage and low-voltage cut-off, reverse pole protection by fuse, overheat cut-off, units can be switched on or off by external switch, individually adjustable clip-on mounts, PP 152 / PP 154 with cigarette lighter plug	
Test mark	Certified to ECE-R10, CE	
Type of protection	Equivalent to IP 21	

	PP 602 / PP 604
Input voltage	12 volts DC (11 to 15 volts) or 24 volts DC (22 to 30 volts)
Output voltage / curve	230 volts AC / modified sine wave
Output frequency	50 Hz
No-load current input	0.25 A
Continuous power	**550 watts**
Peak power	1100 watts
Cooling	Built-in fan
Energy efficiency	Up to 90%
Dimensions (W x H x D)	129 x 71 x 237 mm
Weight	approx. 1.4 kg
Quality features	Overload and short circuit protection, over-voltage and low-voltage cut-off, reverse pole protection by fuse, overheat cut-off, units can be switched on or off by external switch, individually adjustable clip-on mounts
Test marks	Certified to ECE-R10, CE
Type of protection	Equivalent to IP 21

Modified sine wave voltage

Also suitable for appliances with PFC control

High peak output

Reverse pole protection by exchangeable fuse

Individually adjustable clip-on mounts

Can be switched on or off by external switch

PP 152 / PP 154 with cigarette lighter plug

Product	Ref. No.	Ref. No. UK
PerfectPower PP 152, 150 watts, 12 volts	PP152	PP152/UK
PerfectPower PP 154, 150 watts, 24 volts	PP154	PP154/UK
PerfectPower PP 402, 350 watts, 12 volts	PP402	PP402/UK
PerfectPower PP 404, 350 watts, 24 volts	PP404	PP404/UK
PerfectPower PP 602, 550 watts, 12 volts	PP602	PP602/UK
PerfectPower PP 604, 550 watts, 24 volts	PP604	PP604/UK

High-performance inverters

Modified sine wave voltage for powerful 230-volt appliances

Microwave ovens and coffee makers are real "power burners". Even so, using them on board is no problem with a high-performance inverter from the WAECO PerfectPower series described above. The 1000- or 2000-watt models generate a sine-wave-like 230-volt alternating voltage for particularly powerful appliances. User benefits add up to an all-round treat including perfect design, premium quality, and a variety of technical extras for enhanced comfort.

Just take the **mains priority circuit** designed to switch over to mains power as soon as it is available. Or the soft-start function, which ensures gentle starting even where powerful appliances are concerned. Cable organisers, exhaust air adapter, outputs for remote control and external ON / OFF switch, adjustable mounts, mounting plate – PerfectPower high-performance inverters leave nothing to be desired!

Front with input and mains input fuse

Nice and neat: all cables on the back

WAECO PerfectPower PP 1002 / PP 1004 / PP 2002 / PP 2004

3.18

High-performance inverters with integrated mains priority circuit, 1000 / 2000 watts
Turn 12 or 24 volts battery voltage into 230 volts AC

PP 1002

PP 1004

PP 2002

PP 2004

	PP 1002 / PP 1004	PP 2002 / PP 2004
Input voltage	12 volts DC (11 to 15 volts) or 24 volts DC (22 to 30 volts)	
Output voltage / curve	230 volts AC / modified sine wave	
Output frequency	50 Hz	
No-load current input	< 0.8 A	< 1.5 A
Continuous power	**1000 watts**	**2000 watts**
Peak power	2000 watts	4000 watts
Cooling	Built-in fan	Built-in fan
Energy efficiency	Up to 85%	Up to 85%
Mains priority	Integrated	Integrated
Mains input voltage	230 volts AC / 10 A	230 volts AC / 10 A
Dimensions (W x H x D)	176 x 95 x 338 mm	176 x 95 x 443 mm
Weight	approx. 3.5 kg	approx. 5 kg
Quality features	Mains priority circuit, overload and short circuit protection, outputs for remote control and external ON / OFF switch, individually adjustable clip-on mounts, cable organiser and mounting plate, AC connection cable with earthed safety plug	
Test marks	Certified to ECE-R10, CE	
Type of protection	Equivalent to IP 21	

Modified sine wave voltage

Integrated mains priority circuit

High peak output for especially powerful appliances

Overload and short circuit protection

Can be switched on or off by external switch

Output for remote control

Individually adjustable clip-on mounts

Optional: MCR-9

Product	Ref. No.	Ref. No. UK
PerfectPower PP 1002, 1000 watts, 12 volts	PP1002	9102600003
PerfectPower PP 1004, 1000 watts, 24 volts	PP1004	9102600004
PerfectPower PP 2002, 2000 watts, 12 volts	PP2002	9102600005
PerfectPower PP 2004, 2000 watts, 24 volts	PP2004	9102600006
Optional extras		
DC connection cable for PP 1002 / 1004, 35 mm², length 1.5 m	9102700005	
DC connection cable for PP 2002 / 2004, 50 mm², length 1 m	9102700006	
Standard remote control	MCR-9	

WAECO PerfectPower PP 1002 – PP 2004

Integrated mains priority circuit

All larger inverters of the SinePower series come with an integrated mains priority circuit, which automatically gives priority to mains power as soon as it is available. Consequently, the inverter is switched off and the battery saved as soon as you have access to an external mains supply.

Contents, specifications and availability are subject to change serving the technical improvement.

170 – 171

WAECO SinePower

Sine wave inverters
Pure sine wave voltage for sensitive appliances

The high quality SinePower sine wave inverters feature the distinctive WAECO design and have recently won the 'Caravaning Design Award' 2009. They turn 12- or 24-volt battery power into pure 230-volt AC, just like the power from your domestic source. This makes them **ideal for electrical appliances that are sensitive** to fluctuations in the on-board power supply. Even the "smaller" models up to 350 watts provide plenty of comfort details: adjustable mounts, outputs for remote control and an external ON / OFF switch, soft-start function.

A "garage" for 12- or 24-volt plugs
(MSP 162 and MSP 164 models)

Back with output for remote control

Display with main switch and LEDs

Individually adjustable clip-on mounts

WAECO SinePower MSP 162 / MSP 164 / MSP 352 / MSP 354

3.30

Sine wave inverters 150 / 350 watts
Turn 12 or 24 volts battery voltage into pure 230 volts AC

MSP 162

MSP 164

MSP 352

MSP 354

MSP 162 / MSP 164

Input voltage	12 volts DC (11 to 15 volts) or 24 volts DC (22 to 30 volts)
Output voltage / curve	230 volts AC / pure sine wave 〜
Output frequency	50 Hz
No-load current input	12 volts: 1.2 A, 24 volts: 0.6 A
Continuous power	**150 watts**
Peak power	300 watts
Energy efficiency	Up to 90%
Dimensions (W x H x D)	157 x 64 x 243 mm
Weight	approx. 2 kg
Quality features	Overload and short circuit protection, over-voltage and low-voltage cut-off, reverse pole protection by fuse, can be switched on or off by external switch, output for remote control, with 12- or 24-volt cigarette lighter plug
Test mark	Certified to ECE-R10, CE
Type of protection	Equivalent to IP 21

MSP 352 / MSP 354

Input voltage	12 volts DC (11 to 15 volts) or 24 volts DC (22 to 30 volts)
Output voltage / curve	230 volts AC / pure sine wave 〜
Output frequency	50 Hz
No-load current input	12 volts: 1.2 A, 24 volts: 0.6 A
Continuous power	**350 watts**
Peak power	700 watts
Energy efficiency	Up to 90%
Dimensions (W x H x D)	157 x 64 x 243 mm
Weight	approx. 2.2 kg
Quality features	Overload and short circuit protection, over-voltage and low-voltage cut-off, reverse pole protection by fuse, can be switched on or off by external switch, output for remote control
Test marks	Certified to ECE-R10, CE
Type of protection	Equivalent to IP 21

Product	Ref. No.	Ref. No. UK
SinePower MSP 162, 150 watts, 12 volts	MSP160-012	9102600012
SinePower MSP 164, 150 watts, 24 volts	MSP160-024	9102600013
SinePower MSP 352, 350 watts, 12 volts	MSP350-012	9102600018
SinePower MSP 354, 350 watts, 24 volts	MSP350-024	9102600019
Optional extra		
Standard remote control	MCR-9	

Optional: MCR-9

**Pure
sine wave voltage**

**Microprocessor-
controlled electronics for
pure sine wave voltage**

**Overload and short
circuit protection**

**Can be switched on or off
by external switch**

**Individually adjustable
clip-on mounts**

**Output for
remote control**

**Ideal for low-power
electronic appliances,
such as computers,
TV / satellite units,
DVD, VCR**

CARAVANING
DESIGN AWARD 2008/2009
INNOVATIONS FOR NEW MOBILITY

WAECO SinePower

CARAVANING
DESIGN AWARD 2008/2009
INNOVATIONS FOR NEW MOBILITY

Sine wave inverters up to 2500 watts

Perfect in quality, design and features

Prize-winning prior to market launch: hardly surprising, the SinePower inverter series has been able to convince the most demanding jurors. With continuous power ratings of 700 watts and more, the larger models clearly come up to **professional standards**. Delivering pure sine wave voltage they are the best possible choice for highly sensitive and powerful electrical appliances. They meet industry standards and combine ultimate user comfort with even more technical features than their smaller "mates".

These features include the **mains priority circuit with voltage synchronisation**, which gives priority to external mains power whenever it is available, and ensures uninterrupted voltage supply to the connected devices with a "smooth" switch-over. Or the automatic activation of the sleep mode when no 230-volt appliances are being operated – an energy-saving feature that reduces the strain on the vehicle battery.

1. Battery – connection
2. Battery + connection
3. DIP switches for configuration
4. Mains input fuse
5. Output for remote control 1
6. Output for remote control 2 (RS232)
7. Mains input socket
8. Inverter output socket
9. Earth connection
10. Exhaust air adapter

Contents, specifications and availability are subject to change serving the technical improvement.
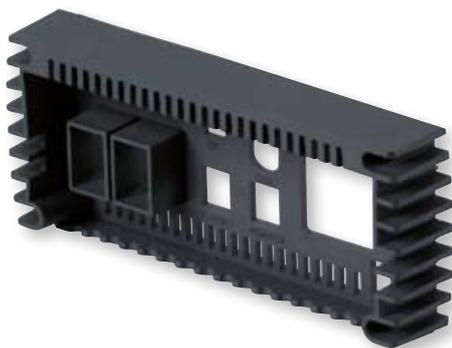
WAECO SinePower MSP 702 – MSP 2524

Mains priority circuit with voltage synchronisation

Here's why it makes sense. Many 230-volt appliances depend on an uninterrupted power supply. Moreover, it is vital to ensure a "smooth" voltage switch-over, which is exactly what the MSP 702 to 2524 sine wave inverters provide. In these units the inverter voltage is synchronised to match the mains voltage. The switch-over takes place in a fraction of a second at the zero-voltage point, when the phases are synchronised. Only this integrated solution – the combination of inverter and mains priority circuit – permits a smooth switch-over and provides optimum protection for electrical appliances.

Display

A particularly well-designed detail including the main switch (ON / OFF / remote) and three LEDs to indicate the operating status, power output and input voltage range. The display is integrated in the unit at a 45° angle so that it can easily be checked from various positions.

Sleep mode

When not in use the sine wave inverter automatically turns to sleep mode to reduce the strain on the vehicle battery.

Cable organiser

With cable guides ready at hand and all connections on one side, everything can be kept nice and neat.

DIP switches

Using the DIP switches you can activate the power-save mode and set the desired output rating. When a connected appliance requires an output higher than the set value, the inverter will run in normal mode. When the output is lower than the one set it will run in the power-save mode.

Clip-on mounts

Individually adjustable clip-on mounts permit adaptation to special installation requirements with perfect results. Additionally, each unit is supplied with a mounting plate, especially helpful for (vertical) mounting of the heavier units.

Accessories

Two remote control models make the assets of the SinePower sine wave inverters complete. You can choose the inexpensive standard model or opt for the high-end version, either is suitable for switchboard mounting.

WAECO SinePower

WAECO SinePower MSP 702 / MSP 704 / MSP 1012 / MSP 1024 / MSP 1512 / MSP 1524

Sine wave inverters 700 / 1000 / 1500 watts
Turn 12 or 24 volts battery voltage into pure 230 volts AC

MSP 702

MSP 704

MSP 1012

MSP 1024

MSP 1512

MSP 1524

	MSP 702 / MSP 704	MSP 1012 / MSP 1024
Input voltage	12 volts DC (10.5 to 15 volts) or 24 volts DC (21 to 30 volts)	
Output voltage / curve	230 volts AC / pure sine wave ∿	
Output frequency	50 Hz	
Sleep mode current input	12 volts: 0.25 A, 24 volts: 0.15 A	
No-load current input	12 volts: 1.2 A, 24 volts: 0.6 A	
Continuous power	**700 watts**	**1000 watts**
Peak power	1400 watts	2000 watts
Energy efficiency up to	12 volts: 90% 24 volts: 92%	12 volts: 90% 24 volts: 93%
Dimensions (W x H x D)	190 x 90 x 380 mm	225 x 117 x 435 mm
Weight	approx. 5.5 kg	approx. 7.6 kg
Quality features	Integrated mains priority circuit with voltage synchronisation, over-voltage and low-voltage cut-off, overload and short circuit protection, outputs for remote control and external ON / OFF switch, adapter for heat dissipation hose, IEC socket / plug, individually adjustable clip-on mounts, cable organiser and mounting plate, three-colour LED for status indication, microprocessor-controlled output voltage, sleep-mode function, AC connection cable with earthed safety plug, AC connection cable with earthed safety socket	
Test marks	Certified to ECE-R10, CE	
Type of protection	Equivalent to IP 21	

	MSP 1512 / MSP 1524
Input voltage	12 volts DC (10.5 to 15 volts) or 24 volts DC (21 to 30 volts)
Output voltage / curve	230 volts AC / pure sine wave ∿
Output frequency	50 Hz
Sleep mode current input	12 volts: 0.28 A, 24 volts: 0.15 A
No-load current input	12 volts: 1.4 A, 24 volts: 0.7 A
Continuous power	**1500 watts**
Peak power	3000 watts
Energy efficiency up to	12 volts: 90%, 24 volts: 93%
Dimensions (W x H x D)	225 x 117 x 465 mm
Weight	approx. 8.4 kg
Quality features	As for MSP 702 to MSP 1024
Test marks	Certified to ECE-R10, CE
Type of protection	Equivalent to IP 21

**Pure
sine wave voltage**

**Microprocessor-
controlled
electronics for
pure sine wave voltage**

**Integrated mains priority
circuit with voltage
synchronisation**

**Overload and short
circuit protection**

**RS232 output for remote
control or computer and
output for connection of
an external switch**

**Individually adjustable
clip-on mounts**

Product	Ref. No.	Ref. No. UK
SinePower MSP 702, 700 watts, 12 volts	MSP700-012	9102600020
SinePower MSP 704, 700 watts, 24 volts	MSP700-024	9102600021
SinePower MSP 1012, 1000 watts, 12 volts	MSP1000-012	9102600008
SinePower MSP 1024, 1000 watts, 24 volts	MSP1000-024	9102600009
SinePower MSP 1512, 1500 watts, 12 volts	MSP1500-012	9102600010
SinePower MSP 1524, 1500 watts, 24 volts	MSP1500-024	9102600011

Optional extras
DC connection cable
for MSP 702 / 704, 25 mm², length 1.5 m 9102700001

DC connection cable
for MSP 1012 / 1024 and
MSP 1512 / 1524, 35 mm², length 1.5 m 9102700002

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INNOVATIONS FOR NEW MOBILITY

WAECO SinePower MSP 2012 / MSP 2024 / MSP 2512 / MSP 2524

3.30

Sine wave inverters 2000 watts / 2500 watts
Turn 12 or 24 volts battery voltage into pure 230 volts AC

MSP 2012

MSP 2024

MSP 2512

MSP 2524

	MSP 2012 / MSP 2024	MSP 2512 / MSP 2524
Input voltage	12 volts DC (10,5 to 15 volts) or 24 volts DC (21 to 30 volts)	
Output voltage / curve	230 volts AC / pure sine wave	
Output frequency	50 Hz	
Sleep mode current input	12 volts: 0.6 A 24 volts: 0.3 A	12 volts: 0.6 A 24 volts: 0.35 A
No-load current input	12 volts: 2.3 A 24 volts: 1.1 A	12 volts: 2.4 A 24 volts: 1.5 A
Continuous power	**2000 watts**	**2500 watts**
Peak power	4000 watts	5000 watts
Energy efficiency up to	12 volts: 90% / 24 volts: 93%	
Dimensions (W x H x D)	349 x 116 x 516 mm	349 x 116 x 546 mm
Weight	approx. 15.5 kg	approx. 16.9 kg
Quality features	Integrated mains priority circuit with voltage synchronisation, over-voltage and low-voltage cut-off, overload and short circuit protection, outputs for remote control and external ON / OFF switch, adapter for heat dissipation hose, IEC socket / plug, individually adjustable clip-on mounts, cable organiser and mounting plate, three-colour LED for status indication, microprocessor-controlled output voltage, sleep-mode function, AC connection cable with earthed safety plug, AC connection cable with earthed safety socket	
Test marks	Certified to ECE-R10, CE	
Type of protection	Equivalent to IP 21	

Product	Ref. No.	Ref. No. UK
SinePower MSP 2012, 2000 watts, 12 volts	MSP2000-012	9102600014
SinePower MSP 2024, 2000 watts, 24 volts	MSP2000-024	9102600015
SinePower MSP 2512, 2500 watts, 12 volts	MSP2500-012	9102600016
SinePower MSP 2524, 2500 watts, 24 volts	MSP2500-024	9102600018
Optional extras DC connection cable for MSP 2012 / 2024, 50 mm², length 1 m	9102700003	
DC connection cable for MSP 2512 / 2524, 70 mm², length 1 m	9102700004	

**Pure
sine wave voltage**

**Microprocessor-
controlled electronics for
pure sine wave voltage**

**Integrated mains priority
circuit with voltage
synchronisation**

**Overload and short
circuit protection**

**RS232 output for remote
control or computer and
output for connection of
an external switch**

**Individually adjustable
clip-on mounts**

**Ideal for powerful
appliances, such as
microwave ovens
and professional
coffee makers**

CARAVANING
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WAECO SinePower Accessories

3.30

Remote controls for Sine Power sine wave inverters

MCR-7

MCR-9

	MCR-7 (MSP 702 to MSP 2524)	MCR-9 (MSP 162 to MSP 2524)
Dimensions (W x H x D)	130 x 120 x 25 mm	58 x 72 x 28 mm
Weight	400 g	40 g
Cable length	7.5 m	7.5 m
Quality features	**MCR-7:** low-voltage, over-voltage, overheat and overload indicated by red LEDs, stand-by and power on indicated by green LEDs **MCR-9:** power on indicated by red LED	

Product	Ref. No.
Comfort remote control	MCR-7
Standard remote control	MCR-9

**Two models
to choose from**

**Both remote controls
are suitable for
switchboard mounting**

Contents, specifications and availability are subject to change serving the technical improvement.

176 – 177

WAECO PowerPack

Professional power for any situation
Great design, great performance

12-volt starting aid

The multi-functional PowerPack keeps sufficient on-board energy in store for you – regardless of where you are. A flat battery on an early, frosty morning? No problem, your PowerPack is within easy reach. With its starting current of up to 400 amps the compact battery jump starter gets any passenger car, van or small truck with 12-volt on-board circuit going again.

But the compact energy pack has even more to offer than that: it supplies **fresh energy** on the move **for small gadgets between 4.5 and 12 volts**. It even has a USB connection for charging mobile phones, PDAs and the like. The energy for all that comes from a maintenance-free, long-life 18-Ah battery.

The jump starter cable comes with insulated battery clamps for **safe and easy handling**. It has its own place in the PowerPack handle for storage. Intelligent electronics prevent accidental activation in case of a short circuit or reverse poling. And the integrated work lamp shows everything in the right light.

The "power pack" for all situations

› Mobile starting aid, versatile energy supply and work lamp in one unit
› The compact all-round companion for workshop, garage and on-the-move use
› Integrated USB port – fresh energy for mobile phones, PDAs, etc.

USB charging port for mobile phones, PDAs and the like

Integrated work lamp

Energy supply for 12-volt coolers and more
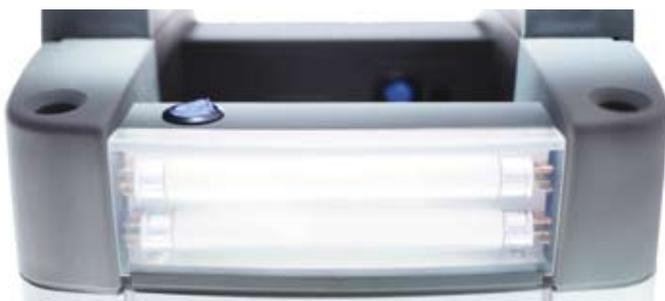
Multi-functional unit

Mobile energy for all situations – WAECO PowerPack MPS 500 is always reliable. At a short-time starting current of 400 amps, it has enough power to jump-start even large-capacity Diesel engines. The integrated 12-volt socket can be used to run and recharge portable coolers or other DC appliances. There's a second output for CD players and radios, plus a USB port for recharging of mobile phones, etc.

WAECO PowerPack MPS 500   3.20
Multi-functional battery jump starter

Features & functions

› Starting aid function (400 A short-time)
› Practical storage compartment for accessories such as mains adapter, jump starter cable, etc.
› Energy supply with 4.5 volts, 6 volts, 9 volts, 12 volts output
› Parking position for battery clamps in the carrying handle
› USB port for charging mobile phones, PDAs, etc.
› High-quality design in aluminium / plastic
› Can also be used on damp ground, e.g. on lawns (base section water-proof up to 7 cm height)

Powerful jump starter with 18 Ah battery

Outputs for 12 volts as well as 4.5 volts, 6 volts, 9 volts

USB port

Integrated work lamp

Storage compartment for accessories

Max. starting current	400 A short-time
Output voltages	4.5 volts, 6 volts, 9 volts, 12 volts 5 volts (USB)
Max. continuous current	10 A at 12 volts 1 A at 4.5 volts, 6 volts, 9 volts 0.5 A (USB)
Lead gel battery	12 volts / 18 Ah, maintenance-free
Dimensions (W x H x D)	252 x 295 x 243 mm
Weight	10.5 kg

Scope of delivery: PowerPack MPS 500, 230 V mains adapter, DC cable, jump starter cable, operating instructions

Product	Ref. No.
PowerPack MPS 500	PS-500-12

Mobile power generators for universal use

TEC 29 – highly compact petrol generator

A "flyweight" of just 44 kilograms and easily accommodated thanks to its optimised dimensions. Ideal also for permanent fitting under the vehicle floor.

Providing 2,600 watts on a continuous basis, this petrol generator is as powerful as conventional predecessor models, yet more quiet and economical in operation. An absolute top seller!

TEC 30EV – fuel-saving diesel generator

Specially designed for use in utility vehicles, this generator provides powerful performance at minimal fuel consumption [0.7 litres Diesel/h].

Excellent sound insulation makes for low-noise operation. State-of-the-art inverter technology prevents over- and undersupply of connected electrical appliances.

- High continuous output ratings of 2.6 kW [TEC 29] or 2.5 kW [TEC 30EV]
- Low fuel consumption, generator rpm adjusts to the load applied
- Innovative inverter technology allows for parallel use of two TEC 29 or two TEC 30EV units
- 12-volt output for battery charging with integrated charging regulator [10 amps max.]
- Robust design in stainless steel cabinet
- Easy operation with remote control, the illuminated display shows all essential operating parameters
- High operating safety with several alarm function

Dometic TEC 29
2.6 kW generator
For 230 volts alternating current, fuelled by unleaded petrol [RON 91]

3.39

Output voltage / curve	230 volts AC ±1% [continuous] / pure sine wave 〰
THDV	1 %
Frequency	50 Hz ±1 %
Max. starting current	33 A
Continuous output	2600 watts
Peak output	2900 watts
Engine output	4.0 kW / 5.5 HP
Fuel	Unleaded petrol RON 91
Consumption	1.2 l/h max.
Sound level at 7 m	54/59 dBA
Guaranteed sound level	86 dBA
Dimensions [W x H x D]	290 x 480 x 385 mm
Width with suspension	580 mm
Net weight	44.0 kg
Quality features	Remote control, 12-volt output for battery charging, automatic low-oil cut-off, electrical starter, protected against overload and short circuit
Test marks	CE, E13

Product	Ref. No.
Dometic TEC 29	9102900007

High continuous power output

Low consumption

Parallel use of two TEC 29 units possible for twice the output

Remote control with indication of all essential operating parameters

Fuelled by unleaded petrol [RON 91]

Dometic TEC 30EV
2.5 kW generator
For 230 volts alternating current, fuelled by diesel

3.39

Output voltage / curve	230 volts AC ±1% [continuous] / pure sine wave 〰
THDV	1 %
Frequency	50 Hz ±1 %
Max. starting current	33 A
Continuous output	2500 watts
Peak output	2900 watts
Engine output	3.3 kW / 4.5 HP
Fuel	Diesel
Consumption	0.7 l/h max.
Sound level at 7 m	60 dBA
Guaranteed sound level	84 dBA
Dimensions [W x H x D]	462 x 484 x 406 mm
Width with suspension	572 mm
Net weight	70.0 kg
Quality features	Remote control, 12-volt output for battery charging, automatic low-oil cut-off, electrical starter, protected against overload and short circuit
Test marks	CE, E13

Product	Ref. No.
Dometic TEC 30EV	9102900033

High continuous power output

Very low consumption

Parallel use of two TEC 30EV units possible [for a continuous output of approx. 4,800 watts]

Remote control with indication of all essential operating parameters

Fuelled by diesel

Accessories for generators

3.39

Product	Ref. No.
15-litre plastic tank, AG 101	9102900009
20-litres stainless steel tank, AG 100	9102900011
Hose set for AG 100/101, AG 150	9102900003
Flexible metal hose 25 mm, AG 125	9102900020

Contents, specifications and availability are subject to change serving the technical improvement.

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Product overview

Product	Description	Ref. No.	PG	Page
WAECO CoolAir				
Mobile air conditioning solutions				
Truck roof air conditioners for stationary use				
CoolAir CA 850S	Truck roof air conditioner for stationary use	9100100024 / -25 / -26	2.09	39
CoolAir Accessories	Protective cover, battery connection cable		2.09	39
CoolAir CA 800	Truck roof air conditioner for stationary use	CA-0800-DC	2.09	41
CoolAir Accessories	Universal protective cover, installation kits		2.09	41
Truck split air conditioner for stationary use				
CoolAir SP 900	Truck split air conditioner for stationary use	9100100002	2.09	45
CoolAir Accessories	Fastening frames		2.09	45
Mobile refrigeration				
Vehicle-specific compressor coolers				
CoolMatic CD-30	Compressor drawer fridge, universal	CD-030DC	4.10	52
CoolMatic RHD-50	Vehicle-specific compressor refrigerator for permanent fitting	RHD-050	4.05	53
CoolMatic CS-MP2	Vehicle-specific compressor drawer fridge for permanent fitting	CS-ACT-MP2	4.12	54
CoolMatic CS-SC	Vehicle-specific compressor drawer fridge for permanent fitting	CS-SCA-R	4.12	55
ColdMachine CS-IV	Vehicle-specific compressor cooling unit	CS-IV-01	4.07	56
CoolFreeze FT-30	Vehicle-specific compressor cooler	FT-030/S	4.12	56
CoolFreeze FC-30	Compressor cooler	FC-030/G	4.12	57
CoolFreeze FC-40	Compressor cooler	FC-040/G	4.12	57
Compressor coolers				
CoolFreeze CDF-11	Portable compressor cooler	9105100007	4.29	60
CoolFreeze CDF-18	Portable compressor cooler	9105100002	4.29	61
CoolFreeze CDF-25	Compressor cooler	9105100003	4.29	62
CoolFreeze CDF-35	Compressor cooler	CDF-035DC	4.10	63
CoolFreeze CDF-45	Compressor cooler	CDF-045DC	4.10	63
CoolFreeze CF-35	Compressor cooler	CF-035AC	4.10	66
CoolFreeze CF-40	Compressor cooler	CF-040AC	4.10	67
CoolFreeze CF-50	Compressor cooler	CF-050AC	4.10	67
Accessories for compressor coolers				
Fridge slide, long	Fridge slide, long for CF-35/40/50	SLD-060	4.10	69
Fridge slide, wide	Fridge slide, wide for CF-35/40/50	SLD-060W	4.10	69
Universal fixing kit	Universal fixing kit for CDF-25/35/45, CF-35/40/50	UFK-C	4.10	69
Thermoelectric coolers				
CoolFun CR-18	Thermoelectric cooler	CR-18-12/24	4.02	73
CoolFun CR-28	Thermoelectric cooler	CR-28-12/24	4.02	73
TropiCool TC-14FL	Thermoelectric cooler	TC-14FL-AC	4.01	76
TropiCool TC-21FL	Thermoelectric cooler	TC-21FL-AC	4.01	76
TropiCool TC-35FL	Thermoelectric cooler	TC-35FL-AC	4.01	77
MyFridge MF-1F	Thermoelectric bottle cooler	MF-1F-12/24	4.15	79
Electronic accessories for cooling appliances				
CoolPower EPS 817	Mains adapter for thermoelectric 12-volts coolers	EPS-817U	3.17	81
CoolPower EPS 100	Mains adapter for 12-/24-volts cooling appliances	EPS-100W	3.17	81
CoolPower M 50U	Voltage monitor for 12-volts applications	M-50U-12	3.17	81

WAECO CoolAir
WAECO CoolMatic
WAECO ColdMachine
WAECO CoolFreeze FT / FC
WAECO CoolFreeze CDF
WAECO CoolFreeze CF
WAECO CoolFreeze Accessories
WAECO CoolFun
WAECO TropiCool
WAECO MyFridge MF-1F
WAECO CoolPower

Contents, specifications and availability are subject to change serving the technical improvement.

WAECO PerfectView CRT

WAECO PerfectView RVS

WAECO PerfectView FVS

WAECO PerfectView

WAECO PerfectView Accessories

Contents, specifications and availability are subject to change serving the technical improvement.

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Product overview

Product		Description	Ref. No.	Ref. No. UK	PG	Page
Mobile electronics						
Voltage converters						
WAECO PerfectPower	**PerfectPower DCDC 06**	Voltage converter, 6 A, 24 volts › 12 volts	8006-DC24		3.18	159
	PerfectPower DCDC 12	Voltage converter, 12 A, 24 volts › 12 volts	8012-DC24		3.18	159
	PerfectPower DCDC 24	Voltage converter, 24 A, 24 volts › 12 volts	8024-DC24		3.18	159
	PerfectPower DCDC 10	Voltage converter, 10 A, 12 volts › 24 volts	DC1224-10		3.18	161
	PerfectPower DCDC 20	Voltage converter, 20 A, 12 volts › 24 volts	DC1224-20		3.18	161
	PerfectPower DCDC 10	Voltage converter, 10 A, 24 volts › 24 volts	DC2424-10		3.18	161
	PerfectPower DCDC 20	Voltage converter, 20 A , 12 volts › 24 volts	DC2412-20		3.18	161
	PerfectPower DCDC 40	Voltage converter, 40 A, 12 volts › 24 volts	DC2412-40		3.18	161
Charging converters						
WAECO PerfectCharge	**PerfectCharge DC08**	Charging converter, 8 A, 12 volts › 12 volts	DC1212-08		3.16	163
	PerfectCharge DC20	Charging converter, 20 A, 12 volts › 12 volts	DC1212-20		3.16	163
	PerfectCharge DC40	Charging converter, 40 A, 12 volts › 12 volts	DC1212-40		3.16	163
Smart inverters						
WAECO PocketPower	**PocketPower SI 102**	Smart inverter	2222600001		3.29	167
	PocketPower TSI 102	Smart sine wave inverter	2222600002		3.29	167
Inverters						
WAECO PerfectPower	**PerfectPower PP 152 / 154**	Inverter, 150 watts	PP152 / 154	PP152/UK / PP154/UK	3.18	169
	PerfectPower PP 402 / 404	Inverter, 350 watts	PP402 / 404	PP402/UK / PP404/UK	3.18	169
	PerfectPower PP 602 / 604	Inverter, 550 watts	PP602 / 604	PP602/UK / PP604/UK	3.18	169
	PerfectPower PP 1002 / 1004	Inverter, 1000 watts	PP1002 / 1004	9102600003 / 04	3.18	171
	PerfectPower PP 2002 / 2004	Inverter, 2000 watts	PP2002 / 2004	9102600005 / 06	3.18	171
	PerfectPower Accessories	DC connection cable for PP 1002 / 1004 or PP 2002 / 2004	9102700005 / -6		3.18	171
	SinePower Accessory	Standard remote control	MCR-9		3.30	171
Sine wave inverters						
WAECO SinePower	**SinePower MSP 162 / 164**	Sine wave inverter, 150 watts	MSP160-012 / -024	9102600012 / 13	3.30	173
	SinePower MSP 352 / 354	Sine wave inverter, 350 watts	MSP350-012 / -024	9102600018 / 19	3.30	173
	SinePower MSP 702 / 704	Sine wave inverter, 700 watts	MSP700-012 / -024	9102600020 / 21	3.30	176
	SinePower MSP 1012 / 1024	Sine wave inverter, 1000 watts	MSP1000-012 / -024	9102600008 / 09	3.30	176
	SinePower MSP 1512 / 1524	Sine wave inverter, 1500 watts	MSP1500-012 / -024	9102600010 / 11	3.30	176
	SinePower MSP 2012 / 2024	Sine wave inverter, 2000 watts	MSP2000-012 / -024	9102600014 / 15	3.30	177
	SinePower MSP 2512 / 2524	Sine wave inverter, 2500 watts	MSP2500-012 / -024	9102600016 / 17	3.30	177
	SinePower Accessories	DC connection cables	9102700001/-2/-3/-4		3.18	176
	SinePower Accessory	Comfort remote control	MCR-7		3.30	177
	SinePower Accessory	Standard remote control	MCR-9		3.30	177
Mobile energy supply						
WAECO PowerPack	**PowerPack MPS 500**	Multi-functional battery jump starter	PS-500-12		3.20	179
Generators						
Dometic Generator	**Dometic TEC 29**	2.6-kW petrol generator	9102900007		3.39	181
	Dometic TEC 30EV	2.5-kW diesel generator	9102900033		3.39	181
Accessories for generators						
	AG 101	15-litre plastic tank	9102900009		3.39	181
	AG 100	20-litre stainless steel tank	9102900011		3.39	181
	AG 150	Hose set for AG 100 / 101	9102900003		3.39	181
	AG 125	Flexible metal hose, 25 mm	9102900020		3.39	181

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