

# TELECO Telair

Comfort on the move





## A perfect harmony of shapes, functions and construction materials

- 1 A design to match perfectly any type of recreational vehicle in terms of both its outer shape and its interior furnishing details
- 2 Continuous technical innovation, the fruit of years of experience, refreshed and updated for future challenges thanks to the enthusiasm, imagination and skills of Teleco's team of young designers.
- 3 Materials chosen after conducting strict quality checks and tests, to guarantee that every product will retain its appearance over the course of a long working life.

These three simple 'ingredients', which form the basis of our success in all the European markets, can be found combined in every Teleco product.





## Meeting customers' expectations and solving their problems immediately is a must for Teleco.

### Teleco stands out for its sales and technical support

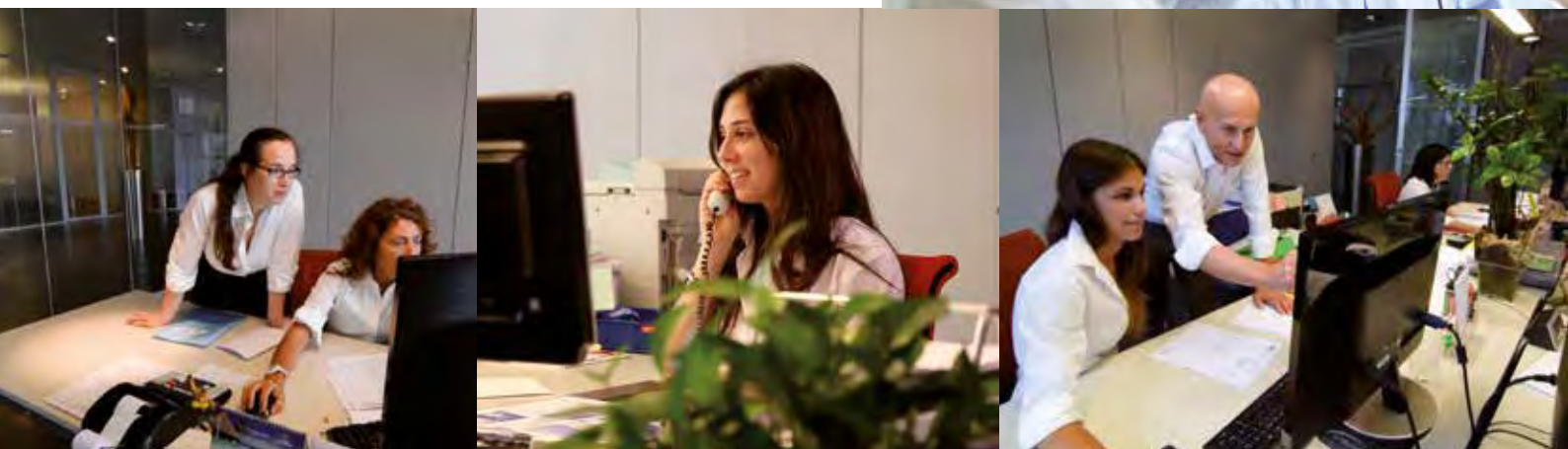
Ever-closer relations with customers so as to provide them with good advice at the time of purchase and effective assistance throughout the product life cycle.

It's not always possible to eliminate a problem at its root because it can be caused by local situations or even chance occurrences; but what is certain is that the response must be fast, almost instantaneous.

**1) Multi-lingual support centre that you can call directly for any minor technical problems.**

**2) E-mail support centre that you can contact with more complex issues requiring a more detailed response.**

**3) Teleco is continually investing in the expansion of its outstanding support network. This allows us to offer you a fast, skilled support service which ever country you're in, even when you're on holiday. Independent Servicing and Repair Centres are available throughout Europe, providing a fast, expert response to all customer requests; this is made possible because Teleco organises periodic training and updating courses that are attended by professional technicians from all over Europe.**



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# Teleco HUB central control unit via smart phone for motorhomes and caravans

The ideal interface for using your smartphone to control your motorhome or caravan by means of a simple app.

It operates via Bluetooth when nearby and via SMS from a distance. Operation via Bluetooth is completely free of charge, whereas controlling via SMS requires the installation in the Teleco HUB box of a Micro SIM CARD (either contract or PAYG).



## TELECO HUB CONTROL CENTRE

- Power supply: 12 Volts (10-15 V DC)
- Max consumption: 300 mA
- SIM Card connector: Micro SIM card
- Number of phones able to be connected via Bluetooth: 4
- Auxiliary outputs: 2 clean contacts 10A 250Vac / 30V DC
- Inputs: 2 digital channels (internal voltage 6 Volts)
- Dimensions: 147x97x35 mm
- Weight: 200g



# What can you do with your smartphone?

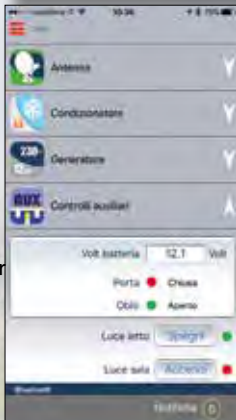
Switch the Telair air conditioner on/off and set the temperature.



Remote-control closure of the Flatsat BT or Telesat BT antenna to prevent gusts of wind damaging it.



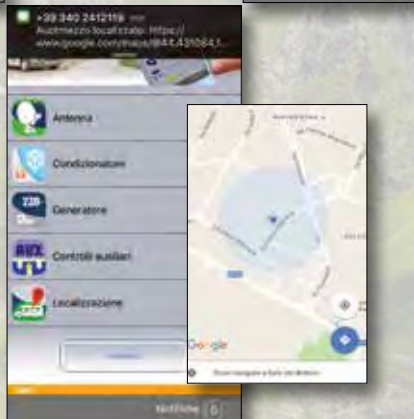
Turn lights on or off. Check the temperature inside the vehicle, the battery level and the drinking and waste water levels, or whether the door or the skylight is open or closed.



Turn the TIG generator on/off



Alarm system with receipt of an SMS message in the event that someone starts up your vehicle. Activation on your smartphone of a system to track your vehicle on Google Maps.



**NOTE:** In order to track your vehicle the SIM card installed in the Teleco HUB control centre must allow internet navigation.



## IFS ANTENNA interface

Used to connect the satellite antenna to the Teleco HUB control unit. Thanks to this solution all DVB-S2 Teleco satellite antennas are compatible with Teleco HUB, including those already installed on vehicles! **Only for 2014-2018 models. 2019-2020 models no longer require the interface.**



**Dimensions:**  
75x47x24 mm  
**Weight:** 40g

## ICL CONDITIONER Interface

Used to connect the Telair air conditioner to the Teleco HUB control centre. Thanks to this solution, all Telair Silent and DualClima air conditioners are compatible with the Teleco HUB.

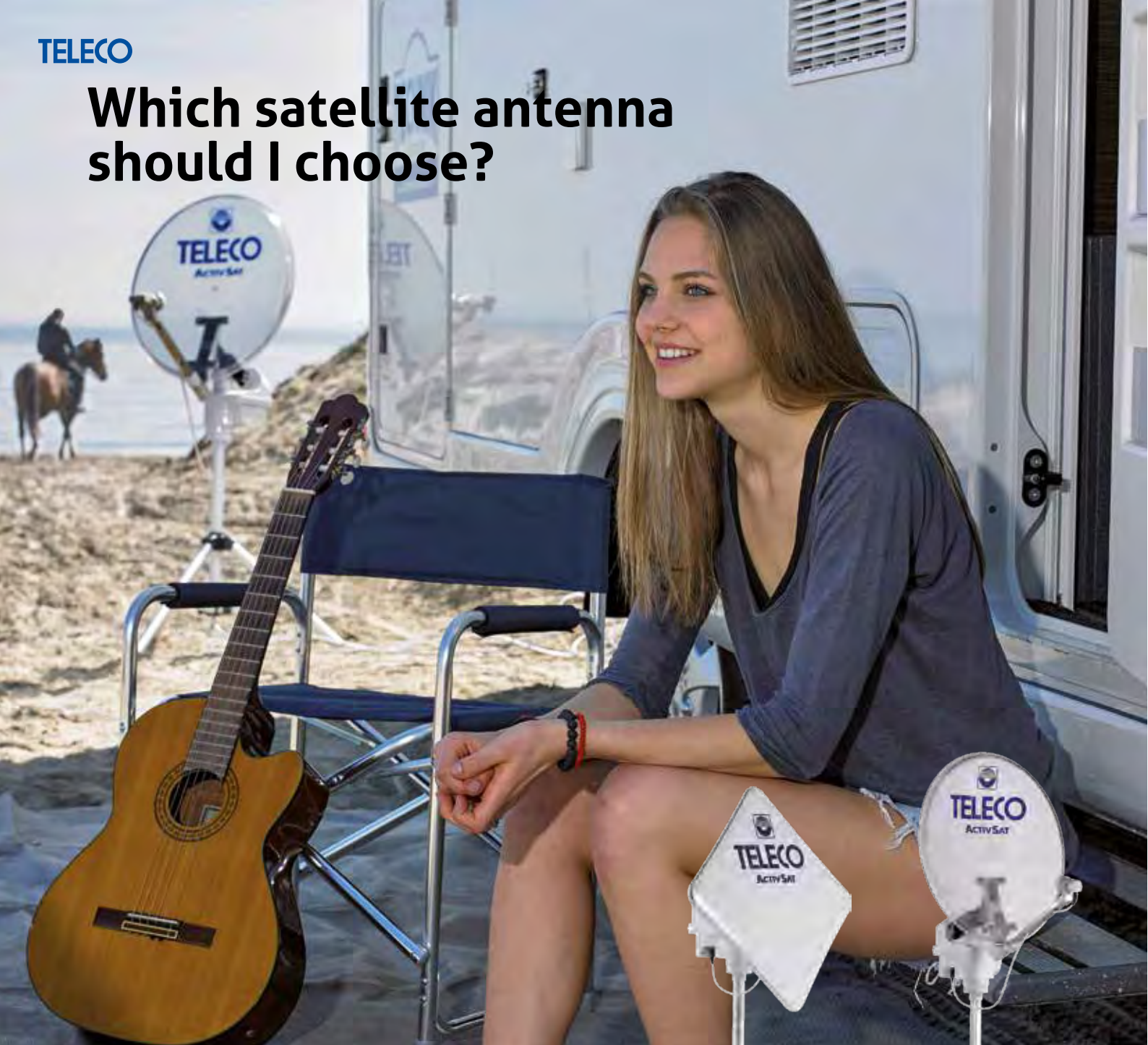


**Dimensions:**  
69x42x22 mm  
**Weight:** 40g



**Note:** the IFS and ICL interfaces are also compatible with CI-BUS systems.

# Which satellite antenna should I choose?



## ACTIVSAT SMART

Portable Automatic System installed on a mobile tripod, suitable for all those who love to spend their holiday with their caravan parked beneath the shade of the trees. This is also the ideal solution for owners of compact camper vans that do not have enough roof space to attach an automatic or manual satellite antenna.

## FLATSAT EASY BT - FLATSAT CLASSIC BT – TELESAT BT

Three automatic satellite antenna models that can be installed on your motorhome roof. All are equipped with a latest-generation control unit with OLED display and 16 Satellites saved on Memory, extremely user-friendly. The on-board Bluetooth function and the TELECO App also allow the satellite antenna to be controlled via your Smartphone. All the antennas are equipped with a Mini Control Panel that lets users perform all automatic antenna





operations. The three models differ only in terms of the mechanical construction technology of the outer unit and the different Satellite Dish sizes (larger on Flatsat Easy units). All these models can be equipped (as pay-for options) with the SMART function, which lets the user move the antenna with the TV remote control, after activating the initial satellite tracking with the control unit or with the panel or with the phone.

**FLATSAT ELEGANCE BT SMART  
FLATSAT KOMFORT BT SMART**

Two Satellite Systems consisting of Automatic Antenna with TV. All operations can be performed using just the TV remote control. All you have to do is switch on your TELECO television with its remote control which is equipped with 2 ON and PARK keys to activate or lower the antenna. Just change channel and the system automatically and quickly points the dish at the relative satellite. All very user-friendly. Again, the two systems differ in terms of the mechanical construction technology used for the outer roof-mounted unit and the different satellite dish sizes (larger on Flat Sat Elegance units).

**FLATSAT EASY SKEW BT SMART**

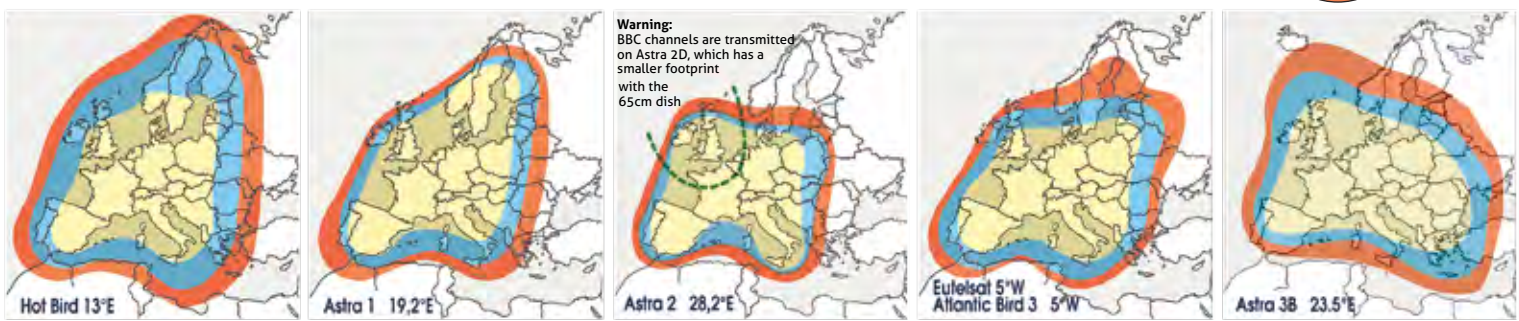
Antenna model designed for real globetrotters. Equipped with a GPS-piloted automatic LNB rotation system (SKEW) that provides maximum signal strength even in critical zones.



**Footprint: advice on choosing a satellite dish**  
Reception of television and radio signals is guaranteed within the coloured areas (footprints). Cloud cover and rain could adversely affect reception of the satellite signal. So it is important, when choosing your satellite system, to check carefully that the dimensions of the dish are sufficient to receive a good satellite signal in the places that you will be visiting.

**Footprint key**

50cm      65cm      85cm







## ACTIVSAT SMART

### Portable Fully Automatic Satellite System

You can park your caravan or camper van in the shade of a tree and install your ACTIVSAT automatic system alongside it on the lawn.

**Three Different satellite antennas :**

- 1) Transparent Acrylic Dish 85 cm, low visual impact
- 2) Transparent Acrylic Dish 65 cm, low visual impact
- 3) Square Flat Antenna 53x53 cm

Just open the Tripod, fit the Motor Unit on top of it, slide in the dish and connect the cable (15 m) to the external Activsat socket on the vehicle. Very Quick and Easy installation , no tools are needed .

Align with the satellite in just a second, with your smartphone via Bluetooth or simply by pushing a button in the control box inside your caravan or van.

You can easily select between 2 Modes of Search :

**Quick Search** (the dish limits the search to just 120° and, in addition to being much faster, it saves 70% of battery power). To use Quick Search you first have to point the dish in South Direction, using the Compass supplied. If you cannot find SOUTH, you can **deactivate Quick Search** and the system will automatically perform a Total Search (360°).

Every time ACTIVSAT aligns with a satellite, the position is saved on the system memory to save time when the next search is made.



**COMPASS**

establishes the exact position of the antenna in real time, thus making it easier to position the latter in the direction of the desired satellite.

**SKEW**

indicates, on the basis of the position of the antenna and the selected satellite, whether the LNB needs rotating.



**Indoor unit with very attractive design, small size and equipped with:**

- 1) 16 satellites in Memory ,
- 2) Graphic high definition blue OLED display
- 3) SAT Button / Quick Search Button / Parking Button
- 4) Bluetooth incorporated to control ACTIVSAT directly from Smartphone
- 5) Anti-theft alarm with very loud beeper (91 dB) with ON-OFF switch.
- 6) CI BUS port for connection to CI BUS system
- 7) Supplementary output to connect to a very powerful external siren or external light
- 8) ON-OFF power switch
- 9) Immediate software update via Bluetooth with your smartphone



**Double Anti-theft Alarm:**

- 1) If somebody cuts the cable, a very loud beeper is activated and an external light can be automatically switched on and an external siren (optional) activated
- 2) The external antenna unit is matched with its internal controller through the Serial Number. All SNs are in a Teleco Data Base. If somebody steals the outdoor unit, he/she cannot use any other internal control unit without providing the SN of the external unit and his/her name.

**Five Models available:**

- |                      |         |
|----------------------|---------|
| 1) ACTIVSAT 85       | 10.4 kg |
| 2) ACTIVSAT 85T Twin | 10.4 kg |
| 3) ACTIVSAT 65       | 8.5 kg  |
| 4) ACTIVSAT 65T Twin | 8.5 kg  |
| 5) ACTIVSAT 53SQ     | 10.5 kg |

**ActivSat bags(optional)**

Items are easily stowed and transported thanks to 2 hard-wearing bags: one for the dish and one for the outdoor unit with tripod and cable.

**MODELS:**

- BAS/TR - Tripod bag
- BAS/65 - Ø65 dish bag
- BAS/85 - Ø85 dish bag
- BAS/65 - Square antenna bag





**EXTERNAL SOCKET FOR ACTIVSAT (optional)**

**SPECIFICATIONS**

Material: ABS  
 Colour: white outside, black inside

**INPUTS:**

- connector for 10-pole ActivSat motor cable
- F connector for ActivSat coaxial cable
- F connector for second coaxial cable (ActivSat Twin)
- F connector for coaxial cable for external TV
- 12 V DC universal socket (Max 10 A) with rubber cover and Faston terminals for external TV power supply



Mod. PAS/W  
 WESTACC

**AVAILABLE MODELS:**

- PAS/W - ActivSat Westacc socket
- PAS/F - ActivSat Fawo socket



Mod. PAS/F  
 FAWO

**SE110C - EXTERNAL SIREN**

(optional, not supplied)

12 V DC - 110 dB



The new super-compact control box with **16 saved satellites** is used to pilot all the New Flat Sat and Telesat Automatic Satellite Antennas autonomously. It features an **easy-view OLED display** and can also be piloted from a smartphone via **Bluetooth**. All **software updates** - when made available on the **TELECO App** - can, in fact, be made automatically directly by the final user on a smartphone via **Bluetooth**.

The antenna can be controlled in 5 different ways:

- 1) By pressing a key on the control unit
- 2) By Smartphone through the **TELECO App** (Free) via **Bluetooth**
- 3) With the New Mini Panel with **Display**
- 4) Via the **CI Bus** control panel (not included)
- 5) If the antenna is connected to a Teleco TV mod. TEK, it can be piloted directly with the TV remote control (mod. Komfort and Elegance)



## Automatic satellite antennas



		Flatsat Classic BT	Flatsat Easy BT	Telesat BT
HD		✓	✓	✓
DVBS-2		✓	✓	✓
Mini Panel		 Display unit	 Display unit	 Display unit
Number of satellites		16	16	16
SMART control		option	option	option
Protective cover LNB GPS		–	✓	–
SKEW		–	–	–
Overall dimensions	50cm			
Closed	65cm			
	85cm			
Weight (approx.)	50cm	8.8kg		
	65cm	9.0kg	10.5kg	9.0kg
	85cm	10.8kg	11.6kg	10.6kg
Dish dimensions	50cm	49x45.5 cm	–	–
	65cm	63.5x59cm	72x67cm	63.5x59cm
	85cm	85x78 cm	91x85 cm	85x78 cm
Optional		TWIN, QUAD	TWIN	TWIN

## Satellite Antennas with automatic alignment

Teleco differs from other brands in its use of highly durable lightweight materials. This enables us to guarantee that the equipment will not deteriorate, even over many years.

The weight and overall height of Teleco's automated antennas are reduced to the minimum without sacrificing quality.



### TELECO App

The **Teleco App** is available for free in both iOS and Android. Selecting the **Automatic Antenna** icon takes you to the dedicated menu showing all the information that will make using the antenna extremely simple:

**Compass indicating the direction from which the selected satellite signal is coming** (Immediately ensures you do not park in front of an obstacle)

**LNB skew value** to optimise the incoming signal at the user's parking position;

**List of 16 satellites saved in the Memory.**

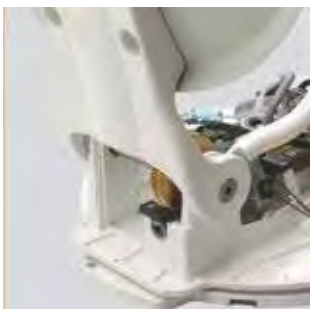
**Firmware update** When an update becomes available the user will receive it directly on the App and can install it on the antenna easily and automatically via Bluetooth from his/her smartphone.



## Automatic satellite antennas with TV and remote control



Flatsat Easy Skew BT SMART	Flatsat Komfort BT SMART	Flatsat Elegance BT SMART
✓	✓	✓
✓	20"/22"/24"/32"	20"/22"/24"/32"
 Display unit	✓	✓
16	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	option
Overall dimensions		
Closed	 <span style="color: #e91e63;">65cm</span> <span style="color: #3f51b5;">85cm</span>	 <span style="color: #e91e63;">65cm</span> <span style="color: #3f51b5;">85cm</span>
Weight (approx.)	<span style="color: #e91e63;">65cm</span> 9.0kg <span style="color: #3f51b5;">85cm</span> 10.8kg	10.5kg 11.6kg
Dish dimensions	<span style="color: #e91e63;">65cm</span> 63.5x59cm <span style="color: #3f51b5;">85cm</span> 85x78 cm	72x67cm 91x85 cm
Optional	TWIN, QUAD	TWIN



- Anti-torsion arm with aerodynamic profile.
- Aluminium casting using special DIE-CASTING injection technology (lighter and stiffer) with epoxy anti-corrosion paint.
- Steel and bronze gears.
- Motorised system with steel and bronze gears for perfect and constantly stable alignment with satellite.
- Integral security system. Automatic lowering of the antenna on starting the vehicle.



Just 15-17 cm high

FULL HD

**Flatsat Classic BT consists of:**

- 1 External satellite antenna
- 1 DVB-S2 Control unit complete with leads
- 1 Control panel

- Wall-mounted control panel with just two keys and display

NEW



**Pay-for options:**

- **SMART** function When the user changes channel with the TV remote control the antenna automatically points itself at the satellite broadcasting the selected channel.



## Flatsat Classic BT

Automatic Satellite Antenna HD with 16 saved Satellites. Equipped with DVB-S2 control unit with OLED display and 2 keys to start a satellite search or lower the dish. **Can also be controlled via Bluetooth from your Smartphone via the TELECO App.** The control unit also features a CI Bus port. All software updates - when made available on the TELECO App - can, in fact, be loaded directly by the user from a smartphone via Bluetooth. The Flatsat Classic BT is compatible with all TVs equipped with a DVB-S2 tuner and all Satellite receivers. Safety system with automatic closing of the antenna when the vehicle is started.



**DVB-S2 HD Control Unit**

Power supply 12/24 V DC (10-31 V DC)

Max. Consumption: 3.2 A

Dimensions: 160X115X25 mm Weight: 250 g

NEW



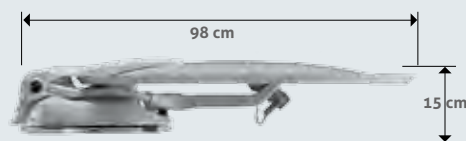
Compatible with CI-BUS systems



**Flatsat Classic BT 50**  
 OPTIONS – TWIN: for 2 receivers  
 QUAD: for 4 receivers  
 Weight: about 8.8 kg  
 Dish dimensions: 49x45.5 cm



**Flatsat Classic BT 65**  
 OPTIONS – TWIN: for 2 receivers  
 QUAD: for 4 receivers  
 Weight: about 9.0 kg  
 Dish dimensions: 63.5x59 cm



**Flatsat Classic BT 85**  
 OPTIONS – TWIN: for 2 receivers  
 QUAD: for 4 receivers  
 Weight: about 10.8 kg  
 Dish dimensions: 85x78 cm





Eye-catching design

**Flatsat Easy BT consists of:**

- 1 External satellite antenna
- 1 DVB-S2 Control unit complete with leads
- 1 Control panel

- Wall-mounted control panel with just two keys and display

NEW



**Pay-for options:**

- **SMART** function When the user changes channel with the TV remote control the antenna automatically points itself at the satellite broadcasting the selected channel.



## Flatsat Easy BT

Automatic Satellite Antenna HD with 16 saved Satellites. Equipped with DVB-S2 control unit with OLED display and 2 keys to start a satellite search or lower the dish. **Can also be controlled via Bluetooth from your Smartphone via the TELECO App.** The control unit also features a CI Bus port. All software updates - when made available on the TELECO App - can, in fact, be loaded directly by the user from a smartphone via Bluetooth. The Flatsat Easy BT is compatible with all TVs equipped with a DVB-S2 tuner and all Satellite receivers. Safety system with automatic closing of the antenna when the vehicle is started.



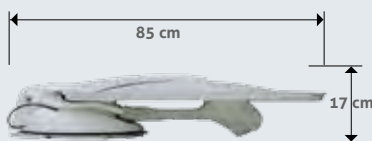
**DVB-S2 HD Control Unit**

Power supply 12/24 V DC (10-31 V DC)  
 Max. Consumption: 3.2 A  
 Dimensions: 160X115X25 mm Weight: 250 g

NEW



Compatible with CI-BUS systems



**Flatsat Easy BT 65**  
 OPTIONS – TWIN for 2 receivers  
 Weight: about 10.5 kg  
 Dish dimensions: 72x67 cm



**Flatsat Easy BT 85**  
 OPTIONS – TWIN for 2 receivers  
 Weight: about 11.6 kg  
 Dish dimensions: 91x85 cm



**SKEW:** Automatic satellite alignment system with ultra-precise adjustment of the optimal LNB reception angle thanks to a built-in GPS module. While at the centre of the Footprint the best reception is achieved with the LNB positioned horizontally, at the South Eastern and South Western extremities of the Mediterranean area (e.g. Turkey and Morocco) you have to climb up onto the motorhome roof and rotate the LNB ANTICLOCKWISE or CLOCKWISE to obtain the strongest signal. SKEW gives you the best reception even in these areas. By means of the GPS module, SKEW 'knows' its position exactly and so rotates the LNB AUTOMATICALLY into the correct position for the BEST reception of the signal. You have to do absolutely nothing.

FULL HD

SMART

## Flatsat Easy Skew BT SMART

Automatic Satellite Antenna HD with 16 saved Satellites. Equipped with DVB-S2 control unit with OLED display and 2 keys to start a satellite search or lower the dish. **Can also be controlled via Bluetooth from your Smartphone via the TELECO App.** Alternatively, the wall-mounted control panel with just two keys and display can be used. The control unit also features a CI Bus port. **The antenna that's SMART!** When the user changes channel with the TV remote control the antenna automatically points itself at the satellite broadcasting the selected channel.

### DVB-S2 HD Control Unit

Power supply 12/24 V DC (10-31 V DC)  
Max. Consumption: 3.2 A  
Dimensions: 160X115X25 mm Weight: 250 g



Bluetooth



Compatible with CI-BUS systems



NEW

All software updates - when made available on the TELECO App - can, in fact, be loaded directly by the user from a smartphone via Bluetooth. FlatSat Easy Skew is compatible with all TVs equipped with a DVB-S2 tuner and with all Satellite receivers. Safety system with automatic closing of the antenna when the vehicle is started.



ANDROID iOS



**Flatsat Easy Skew BT SMART 65**  
OPTIONS – TWIN for 2 receivers  
Weight: approx. 10.8 kg  
Dish dimensions: 72x67 cm



**Flatsat Easy Skew BT SMART 85**  
OPTIONS – TWIN for 2 receivers  
Weight: approx. 12.0 kg  
Dish dimensions: 91x85 cm



**FULL HD**

**Advantageous choice**

**Telesat BT consists of:**

- 1 External satellite antenna
- 1 DVB-S2 Control unit complete with leads
- 1 Control panel

- Wall-mounted control panel with just two keys and display

**NEW**



**Pay-for options:**

- **SMART** function When the user changes channel with the TV remote control the antenna automatically points itself at the satellite broadcasting the selected channel.



## Telesat BT

Automatic Satellite Antenna HD with 16 saved Satellites. Equipped with DVB-S2 control unit with OLED display and 2 keys to start a satellite search or lower the dish. **Can also be controlled via Bluetooth from your Smartphone via the TELECO App.** The control unit also features a CI Bus port. All software updates - when made available on the TELECO App - can, in fact, be loaded directly by the user from a smartphone via Bluetooth. The Telesat BT is compatible with all TVs equipped with a DVB-S2 tuner and all Satellite receivers. Safety system with automatic closing of the antenna when the vehicle is started.



**DVB-S2 HD Control Unit**

Power supply 12/24 V DC (10-31 V DC)  
 Max. Consumption: 3.2 A  
 Dimensions: 160X115X25 mm Weight: 250 g

**NEW**



Compatible with CI-BUS systems



**Telesat BT 65**  
 OPTIONS – TWIN: for 2 receivers  
 Weight: approx. 9.0 kg  
 Dish dimensions: 63.5x59 cm



**Telesat BT 85**  
 OPTIONS – TWIN: for 2 receivers  
 Weight: about 10.6 kg  
 Dish dimensions: 85x78 cm



SMART

FULL HD



NEW



- Flatsat Komfort BT SMART consists of:**
- 1 External satellite antenna
  - 1 DVB-S2 Control unit complete with leads
  - 1 TEK model TV with integrated satellite receiver with remote control

## Flatsat Komfort BT SMART with TV

### Automatic satellite antenna and TV combination

The Flatsat Komfort BT SMART is basically the same as the Flatsat Classic BT, but is supplied with a Teleco TEK Smart TV, thanks to which the antenna can be controlled with the TV remote control.

All you have to do is switch on your TELECO television with its remote control which is equipped with 2 ON and PARK keys to activate or lower the antenna. The Flatsat Komfort BT SMART does all the rest: it switches on the antenna, finds the right satellite, aligns the antenna and delivers the images from the right satellite to the screen. All in just a few seconds. Just use the remote control.

If you change channel the antenna will align itself automatically with the right satellite.

Equipped with 16-channel DVB-S2 control unit and OLED display and 2 keys to start a satellite search or lower the dish. **Can also be controlled via Bluetooth from your Smartphone via the TELECO app.**

All software updates - when made available on the TELECO App - can, in fact, be loaded directly by the user from a smartphone via Bluetooth. Safety system with automatic closing of the antenna when the vehicle is started.



### DVB-S2 HD Control Unit

Power supply 12/24 V DC (10-31 V DC)

Max. Consumption: 3.2 A

Dimensions: 160X115X25 mm Weight: 250 g



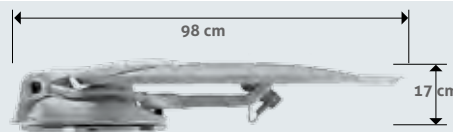
NEW



Compatible with CI-BUS systems



**Flatsat Komfort BT SMART 65**  
 OPTIONS – TWIN: for 2 receivers  
 QUAD: for 4 receivers  
 Weight: approx. 9.0 kg  
 Dish dimensions: 63.5x59 cm



**Flatsat Komfort BT SMART 85**  
 OPTIONS – TWIN: for 2 receivers  
 QUAD: for 4 receivers  
 Weight: about 10.8 kg  
 Dish dimensions: 85x78 cm



FULL HD

SMART

## Flatsat Elegance BT SMART with TV

### Automatic satellite antenna and TV combination

The Flatsat Elegance BT SMART is basically the same as the Flatsat Easy BT, but is supplied with a Teleco TEK Smart TV, thanks to which the antenna can be controlled with the TV remote control.

All you have to do is switch on your TELECO television with its remote control which is equipped with 2 ON and PARK keys to activate or lower the antenna.

The Flatsat Elegance BT SMART does all the rest: it switches on the antenna, finds the right satellite, aligns the antenna and delivers the images from the right satellite to the screen. All in just a few seconds. Just use the remote control.

If you change channel the antenna will align itself automatically with the right satellite.

Equipped with 16-channel DVB-S2 control unit and OLED display and 2 keys to start a satellite search or lower the dish. **Can also be controlled via Bluetooth from your Smartphone via the TELECO app.**

All software updates - when made available on the TELECO App - can, in fact, be loaded directly by the user from a smartphone via Bluetooth. Safety system with automatic closing of the antenna when the vehicle is started.

### Flatsat Elegance BT SMART consists of:

- 1 External satellite antenna
- 1 DVB-S2 Control unit complete with leads
- 1 TEK TV model WITH integrated satellite receiver equipped with remote control



### DVB-S2 HD Control Unit

Power supply 12/24 V DC (10-31 V DC)

Max. Consumption: 3.2 A

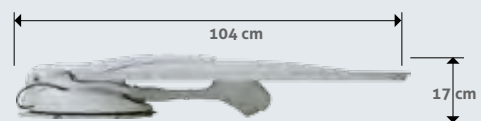
Dimensions: 160X115X25 mm Weight: 250 g



Compatible with CI-BUS systems



**Flatsat Elegance BT SMART 65**  
 OPTIONS – TWIN for 2 receivers  
 Weight: about 10.5 kg  
 Dish dimensions: 72x67 cm



**Flatsat Elegance BT SMART 85**  
 OPTIONS – TWIN for 2 receivers  
 Weight: about 11.6 kg  
 Dish dimensions: 91x85 cm



## Carry Sat

A portable satellite kit that is easy to set up and dismantle. Requires only minimal storage space.

Carry Sat has been designed for rapid dismantling and set-up. The pre-assembled dish has a fold-down LNB arm and a two part clamp for attaching to the mast, reducing the time taken to put the whole kit back in the locker to just a few seconds. It works with all types of satellite receivers. **To simplify alignment, we recommend using DSF90 HD.**

**FULL HD**

**Kit content:**

- Aluminium tripod (TP3 ALU) with umbrella opening and closing action equipped with a rotating upper section for easy alignment of the dish.
- Pre-assembled satellite dish of either 65 or 80 cm with fold-down LNB support arm
- Low noise universal LNB
- 10 m lead with connectors
- 3 pegs for securing Carry Sat to the ground

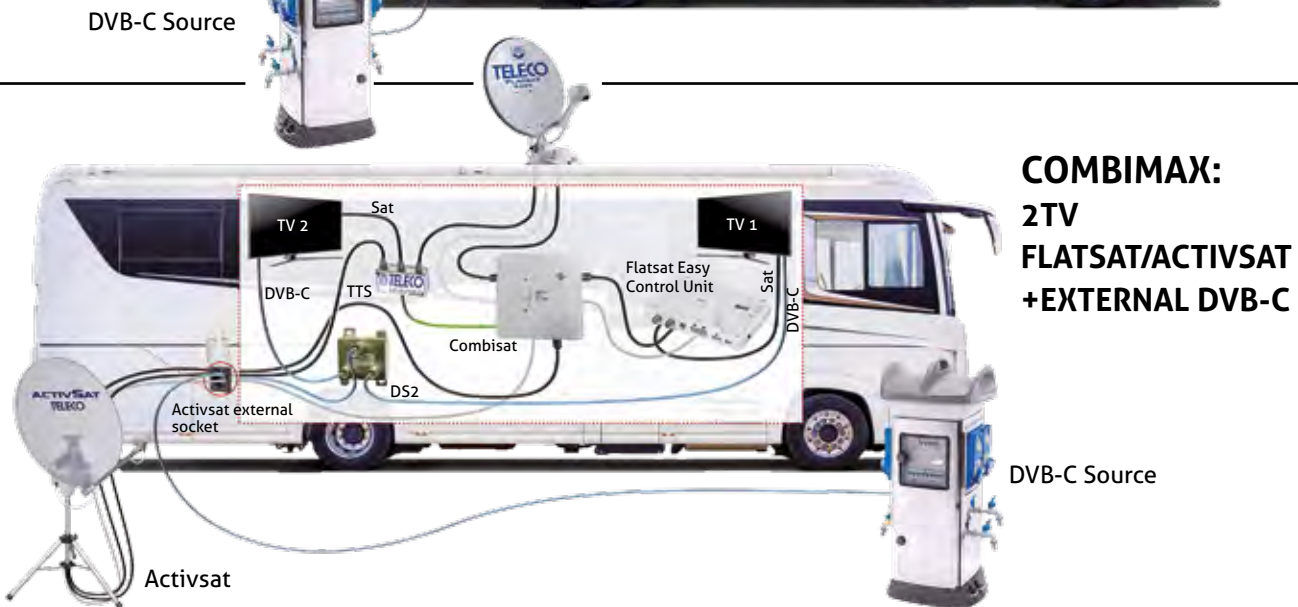
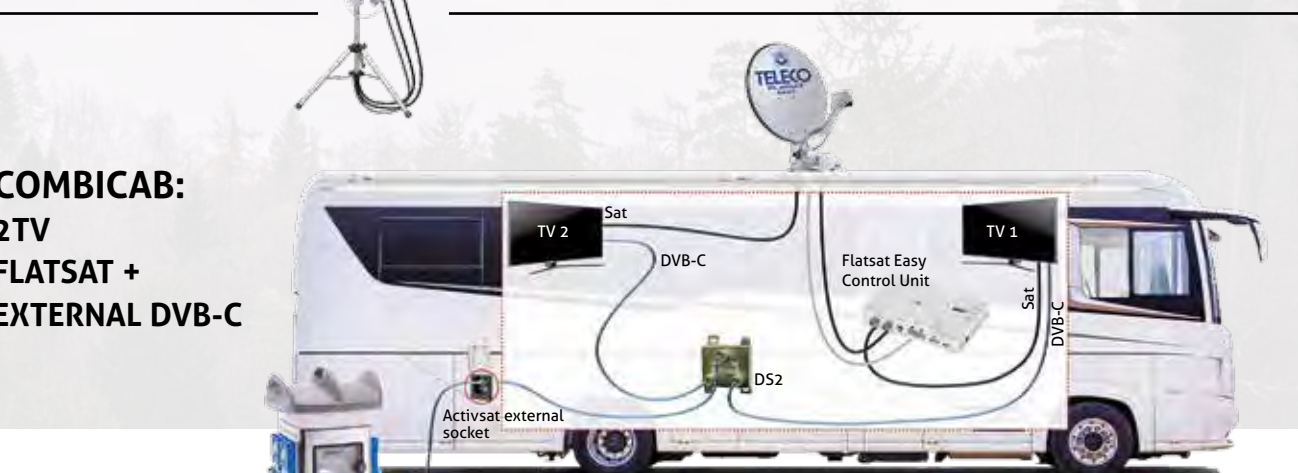
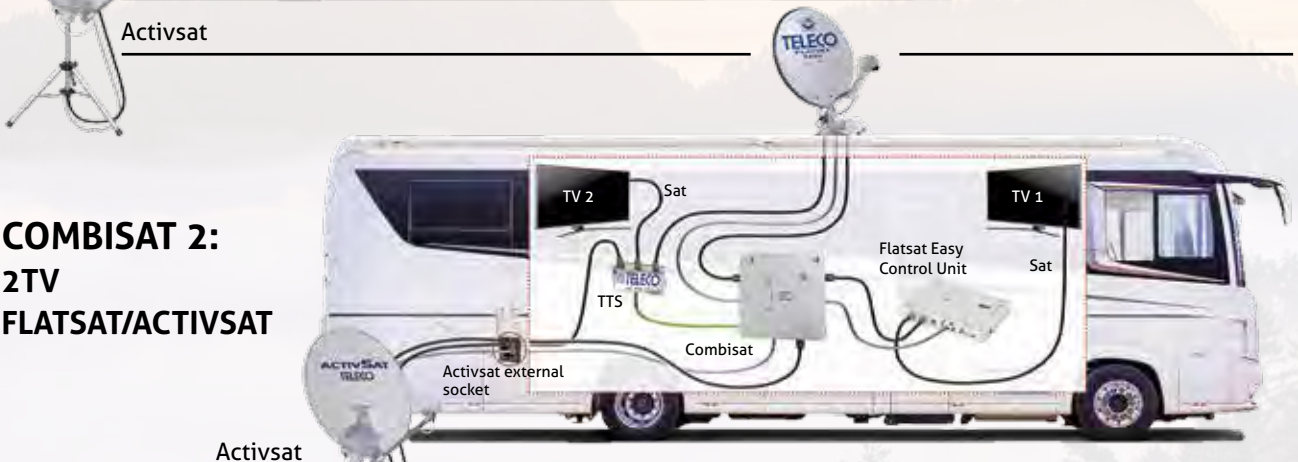
**Available Models:**

- CARRY SAT ALU 80 with 80 cm dish
- CARRY SAT ALU 65 with 65 cm dish
- The tripod is also available on its own, model TP3ALU

Fast  
disassembly  
and  
reassembly



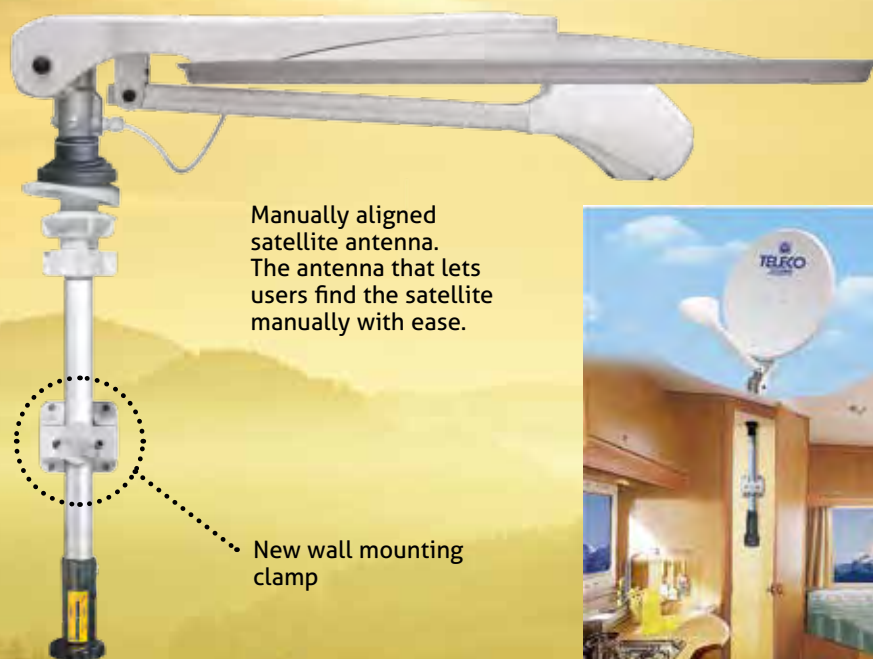
# Flatsat, Activsat, Cable TV wiring diagrams with TV



# Satellite antennas manual

## Footprint: advice on choosing a satellite dish

Reception of television and radio signals is guaranteed within the coloured areas (footprints). Cloud cover and rain could adversely affect reception of the satellite signal. So it is important, when choosing your satellite system, to check carefully that the dimensions of the dish are sufficient to receive a good satellite signal in the places that you will be visiting.



Manually aligned satellite antenna. The antenna that lets users find the satellite manually with ease.

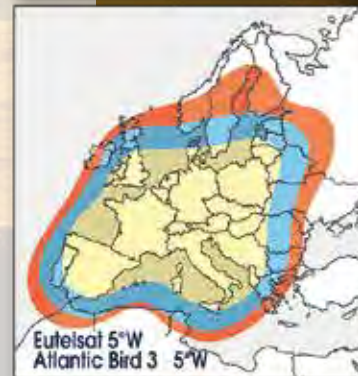
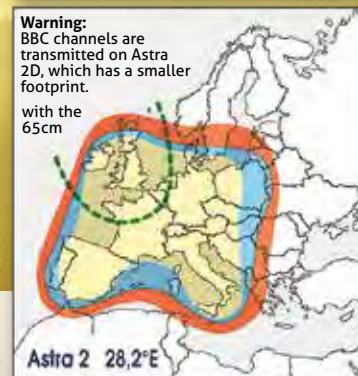
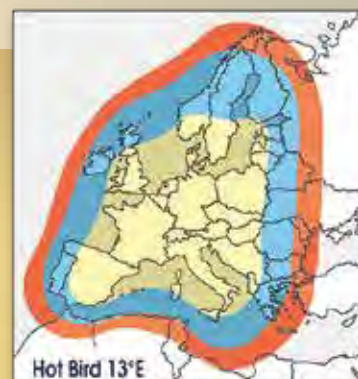
New wall mounting clamp



Are you unable or unwilling to install an automatic satellite antenna on the roof? Then an antenna from the Voyager series is just made for you. This antenna lets you find the right satellite easily from inside your motorhome or caravan. While travelling, the dish is fully folded back on the roof.

- Height when folded is just 17-18 cm.
- The lightweight aluminium arm firmly supports the satellite antenna, offers better wind resistance and provides an excellent signal reception surface.
- Fully equipped and totally watertight passage through the roof.
- Corrosion resistant anodised aluminium mast with internal locking system.
- Satellite alignment accuracy is ensured by a fully watertight, high-precision mechanical reduction gear in oil bath.

### Footprint legend





# and semi-automatic



		VOYAGER G3	VOYAGER DIGIMATIC	MOTOSAT DIGIMATIC
HD/TV		✓	✓	✓
Digital tilt			✓	✓
Electronic inclination				✓
LNB protective cover		For 65 and 85cm dish	For 65 and 85cm dish	
Mast length		33cm of 52cm	33cm of 52cm	33cm of 52cm
Digital satellite search			✓	✓
DSF90E:				
Number of satellites			8	8
Signal quality indicator			✓	✓
Digital tilt indicator			✓	✓
Dimensions	50cm			
closed	65cm			
	85cm			
Weight (approx.)	50cm	6.8kg	6.8kg	
	65cm	9.2kg	9.2kg	8.0kg
	85cm	11.4kg	11.4kg	10.2kg
Dish dimensions	50cm	49x45.5 cm	49x45.5 cm	
	65cm	72x67cm	72x67cm	63.5x59cm
	85cm	91x85 cm	91x85 cm	85x78 cm



FULL HD

## Voyager G3

**Manual satellite antenna with graduated scale on the mast**

Voyager G3 has a graduated scale on the mast for quickly setting the inclination when aligning the dish, a task that can be carried out from inside the vehicle. In order to set the inclination correctly it is important that the vehicle is level, otherwise the angle of the vehicle will have to be added to or taken away from the inclination value of the dish. After having set the inclination, just rotate the dish southward by turning the mast from the inside and adjust the positioning by watching the picture on the screen. Would you like it to be even easier? Then maybe the Voyager Digimatic is the one for you.



**New wall mounting clamp**

### Contents of each Voyager G3 kit

- Satellite antenna complete with fold-down mast and connection cables
- Universal LNB
- Parabolic dish
- A detailed instruction manual

### Long mast 52 cm



**Voyager G3 50:**  
with dish  
49x45.5 cm

**Voyager G3 65:**  
with dish  
72x67 cm

**Voyager G3 85:**  
with dish  
91x85 cm



### Short mast 33 cm

**Voyager G3 SM 50:**  
with dish  
49x45.5 cm

**Voyager G3 SM 65:**  
with dish  
72x67 cm

**Voyager G3 SM 85:**  
with dish  
91x85 cm





FULL HD



Allows for extremely fast set-up

# Voyager Digimatic

DVB S2

Basically the Voyager Digimatic is the same as the Voyager G3 but it is equipped with a digital aligner and an electronic inclinometer.

With Voyager Digimatic the user can align the dish with the satellite desired manually in just a few quick and simple steps. Currently, the biggest difficulty in manually aligning a dish with a satellite broadcasting digital TV signals is the fact that there is a delay before the digital signals are displayed on LCD TV screens, and so the user is forced to carry out the alignment with a very slow movement in order to avoid the risk of going past the required satellite without realising it.

Voyager Digimatic is the solution to this problem. It is equipped with an electronic elevation meter that sends a reading to the display of the actual absolute value of the inclination of the dish, even if the vehicle is not level. The DSF90E/HD that is included indicates (directly) both the elevation and the strength of the signal. This makes it possible to quickly align this manual dish system with the desired satellite without the disadvantage of delayed signals.

### Content of each Voyager Digimatic kit

- Satellite antenna complete with fold-down mast and connection cables
- Universal LNB
- DSF90E/HD digital satellite finder
- Parabolic dish
- A detailed instruction manual



DSF90E/HD

### How to use the DSF90E/HD



- 1) Select the satellite for the alignment (e.g. ASTRA 23).
- 2) Raise the dish until the correct elevation is indicated (see the elevation map).
- 3) Turn the dish SOUTHWARDS until the DSF90E/HD emits a continuous "BEEP".
- 4) Wait for the SAT OK LED to come on.
- 5) If alignment has been made with the wrong satellite, the SAT NOT OK LED will come on and the dish must be rotated again until the "BEEP" is heard again and the SAT OK LED comes on.
- 6) When the maximum number of LEDs are illuminated on the LEVEL indicator, the dish has been aligned properly.

### Long mast 52 cm



**Voyager Digimatic 50:**  
with dish  
49x45.5 cm

**Voyager Digimatic 65:**  
with dish  
72x67 cm

**Voyager Digimatic 85:**  
with dish  
91x85 cm

### Short mast 33 cm

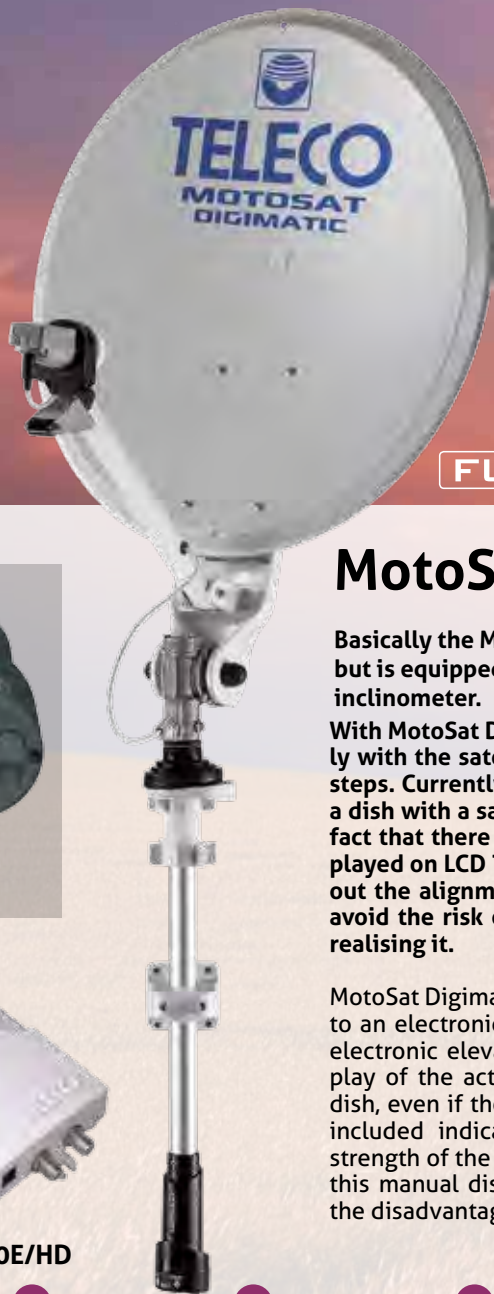


**Voyager SM Digimatic 50:**  
with dish  
49x45.5 cm

**Voyager SM Digimatic 65:**  
with dish  
72x67 cm

**Voyager SM Digimatic 85:**  
with dish  
91x85 cm





Electric motor 12 Volt

FULL HD

## MotoSat DigiMatic DVB S2

Basically the MotoSat DigiMatic is the same as the MotoSat but is equipped with a digital aligner and an electronic inclinometer.

With MotoSat DigiMatic the user can align the dish manualy with the satellite desired in just a few quick and simple steps. Currently, the biggest difficulty in manually aligning a dish with a satellite broadcasting digital TV signals is the fact that there is a delay before the digital signals are displayed on LCD TV screens, and so the user is forced to carry out the alignment with a very slow movement in order to avoid the risk of going past the required satellite without realising it.

MotoSat DigiMatic is the solution to this problem. In addition to an electronic elevation controller, it is equipped with an electronic elevation meter that sends a reading to the display of the actual absolute value of the inclination of the dish, even if the vehicle is not level. The DSF90E/HD that is included indicates (directly) both the elevation and the strength of the signal. This makes it possible to quickly align this manual dish system with the desired satellite without the disadvantage of delayed signals.



DSF90E/HD

### How to use the DSF90E/HD



- 1) Select the satellite for the alignment (e.g. ASTRA 23).
- 2) Raise the dish until the correct elevation is indicated (see the elevation map).
- 3) Turn the dish SOUTHWARDS until the DSF90E/HD emits a continuous "BEEP".
- 4) Wait for the SAT OK LED to come on.
- 5) If alignment has been made with the wrong satellite, the SAT NOT OK LED will come on and the dish must be rotated again until the "BEEP" is heard again and the SAT OK LED comes on.
- 6) When the maximum number of LEDs are illuminated on the LEVEL indicator, the dish has been aligned properly.



### Long mast 52 cm

MotoSat DigiMatic 65

MotoSat DigiMatic 85



### Short mast 33 cm

MotoSat DigiMatic SM 65

MotoSat DigiMatic SM 85

8.0 kg

80 cm



16 cm

MotoSat 65 DigiMatic with 63.5 x 59 cm dish

10.2 kg

101 cm



16 cm

MotoSat 85 DigiMatic with 85 x 78 cm dish



## DSF90 HD - DSF90E HD

DVB S2

### Digital satellite precision aligners

The DSF90 HD is compatible with all the manual satellite systems and enables the user to find the desired satellite in just a few quick and simple steps.

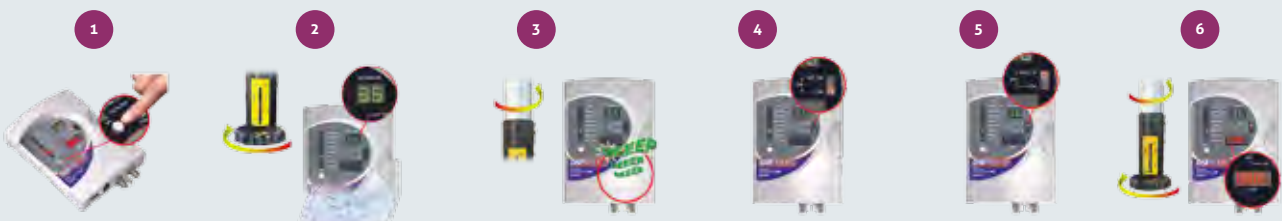
Currently, the biggest difficulty in manually aligning a dish with a satellite broadcasting digital TV signals is the fact that there is a delay before the digital signals are displayed on LCD TV screens, and so the user is forced to carry out the alignment with a very slow movement in order to avoid the risk of going past the required satellite without realising it.

The DSF90 HD is the solution to this problem. It has a meter that indicates immediately the strength of the signal being received from the desired satellite. Unlike ordinary dish aligners, there is no delay and, again unlike those systems, the DSF80 also tells you if the satellite you have found is the right one. There are 8 satellites pre-programmed in its memory.

The DSF90E/HD is the same as the DSF90 HD, but is specifically designed for Teleco Digimatic systems with incorporated electronic elevation detector. As well as the functions described for the DSF90 HD, the DSF90E/HD also provides the effective elevation.

#### PROCEDURE

- 1) Select the satellite for the alignment (e.g. ASTRA 23).
- 2) Raise the dish until the correct elevation is indicated (see elevation map).
- 3) Turn the dish SOUTHWARDS until the DSF90 HD emits a continuous "BEEP".
- 4) Wait for the SAT OK LED to come on.
- 5) If alignment has been made with the wrong satellite, the SAT NOT OK LED will come on and the dish must be rotated again until the "BEEP" is heard again and the SAT OK LED comes on.
- 6) When the maximum number of LEDs are illuminated on the LEVEL indicator, the dish has been aligned properly.





## ACCESSORIES

### CGU2

Battery charger for camper with 2 USBs



**NEW**



**Features**

- Input: 12V/24V (9-36V) DC
- Output: 5V 2.1A
- 2 USB sockets to charge mobile phone and TKB25 wireless speaker kit simultaneously
- 12/24 DC connector with red adapter for cigarette lighter and vehicle internal light socket.

### Motosat Kit



This kit transforms an existing manual Voyager system into a semiautomatic system.



Now the dish's inclination can be adjusted using two buttons; the display shows the correct inclination to help you find the desired satellite as quickly as possible.



**SPCA**

Aluminium lead-through box for the roof



**SPC**

Rooftop cable holder box in plastic



**CAD/AS**

Coupler for connecting digital receivers to a Magic SAT 2002A or Magic Sat Digital Plus CI.



**TTS TWIN SWITCH**

for COMBISAT2 and COMBIMAX



**DS2**

TV splitter for COMBICAB and COMBIMAX



**COMBISAT**

To match FlatSat with ActivSatS



## Satellite and terrestrial digital receivers

# HD Satellite Receiver

HD digital satellite receiver for tivùsat

## ODE 713 HD

With this receiver you can watch all the programmes transmitted on the TivùSat platform on the 13° EAST satellite.

The TivùSat HD card included has no expiry date.

- Power supply: 12 Volt and 230 Volt
- Frequency: 950-2150 MHz
- Memory storage for 3000 TV and radio channels
- 3 Favourite channels lists
- 2 Nagra and Conax SMART Card readers
- 1 MIR remote control extender
- 1 SCART socket
- 1 HDMI v.1.3 socket
- TivùSat automatic channel sorting
- 1 S/PDIF Digital audio socket
- 1 Ethernet 10/100 port with V.90 modem
- Software update via satellite
- Teletext and subtitles
- Consumption: 9.0 W in operation, 0.7 W in standby mode
- Dimensions: 260 x 199 x 51 mm

Only in Italy



# Techwood

TK90 TNT02B  
TNT SAT HD 12 V DC receiver



Only for France



### General Features

- 4000 Channels
- OSD language: French/English
- Automatic and manual search
- Automatic channel sorting
- Parental Lock
- Automatic muting
- Volume on remote control
- Teletext service
- Subtitles
- 7 days EPG
- Favourites lists
- Signal quality indicator
- Display with time and channels
- PVR recording and playback functions via USB port.
- MIR remote control extender

### Connections

- 1 MIR remote control extender
- 1 Scart socket
- 1 USB 2.0 port for PVR
- 1 Optical digital audio output
- 1 RCA Audio Video output
- 1 HDMI output
- Power supply: 12 V DC
- Consumption in operation: 7.5W
- Consumption in standby mode: 1W
- Dimensions: 231x138x38 mm

### PVR function via USB

Support for the following files: mp3, jpeg video, mKv, h 264.

TV programmes can be recorded on USB flash drive or external hard drive with TIME SHIFT, EPG and TIMER functions.



## FORCE HD3 CI+

**HDTV Digital satellite receiver with a CI+ port for CI or CI+ modules**

FORCE HD CI+ is a digital satellite receiver capable of receiving both HDTV programmes up to 1080 and SD programmes. The CI+ port is compatible with HD+ modules and cards as well as a variety of CI modules such as VIACCES, NAGRA (Tivùsat) etc., and CARD PAY TV from various European broadcasters. It has multiple outputs (1 SCART, 2 CINCH Audio +, 1 CINCH Video, 1 digital audio coaxial S/P DIF, 1 HDMI) to give you the greatest flexibility for connecting all kinds of TVs. With the USB 2.0 port you can record and play back the vast majority of programmes using a suitable Memory Stick and you can also use the Time-Shift function which lets you temporarily interrupt a programme and then resume watching it later from the exact point at which you had stopped.



### Specifications:

- MPEG-2, MPEG-4, H.264 and full DVB
- Video Resolution: 576 i, 576 p, 720 p, 1080 i, 1080 p
- 1 CI+ port
- 5000 Channels
- 10 Favourites lists
- Parental lock
- Teletext
- Multi-lingual subtitles
- Multilingual OSD
- Automatic and manual channel search
- DiSeqC 1.0, 1.1, 1.2
- 8 timers for recording
- 3 Electronic games
- Low consumption < 1 W in standby mode
- Tuner with Loop Through
- 1 HDMI output
- 1 SCART output (CVBS, RGB)
- 3 CINCH outputs (V, AL, AR)
- 1 S/PDIF digital audio output
- 1 USB 2.0 port for recording
- Power supply: 12 Volts
- Dimensions: 230 x 155 x 40 mm
- Weight: 730 g

## CAM modules



**FRANSAT HD CAM module**  
with SMART CARD for France only



**Tivùsat HD CAM module**  
with Smart Card included  
for watching TivùSat (also HD)  
satellite programmes  
with the FORCE HD CI+ receiver.

## Mini terrestrial receiver DVB-T2 HEVC

**DVB-T2 H265 mini digital terrestrial receiver for Free to Air programmes.**  
**Compatible: DVB-T2 - DVB-T - MPEG-2/4 - H265/H264 - HD/SD**

### TSH265

This Receiver can record films and digital programmes on a USB flash drive (not supplied).

It can also show photos and films stored on the flash drive itself on the TV.

- 1000 programmable TV and Radio channels
- 8 favourites lists
- Multi-language OSD
- Automatic and manual programme search
- Teletext and subtitles
- VHF and UHF tuners
- Antenna Loop Through
- LCN channel sorting
- Software updates via USB port
- USB port for recording and playing back programmes and photos

Games, calendar,  
calculator  
12 V DC and  
230 V AC power supply



# DVB-T2 terrestrial antennas

Dual  
polarity  
38db

DVB T  
DVB T2 HEVC  
ULTRA HD 4K

4G LTE

DAB+  
Digital Audio Broadcasting

## Teleplus X2

The design and production of this antenna stems from the experience and great success achieved in recent years with the TELEPLUS antenna.

Great care has been given to increasing the gain curve resulting in an even higher sensitivity to weak signals. The introduction of the POLARITY ORIENTATION MECHANISM also allows you to get the best reception of all TV signals (digital and analogue) that are transmitted with both HORIZONTAL and VERTICAL polarity. (With the advent of digital transmission, signals with VERTICAL polarity are enhanced in certain countries such as Italy and Britain). A low noise amplifier is included; this has a variable gain that operates at both 12 and 24 V DC.

Zamak mechanism for HORIZONTAL and VERTICAL polarity adjustment from inside the vehicle

Wedge shaped spacer for perfect adaptation to any roof shape

Simple, safe mast lock system

# Teleplus X2 /39U

- UHF
- Dual polarity
- High 38 dB gain (with amplifier)

Gain with amplifier:: 38 dB channels 21-69 (UHF)

Power supply: 12 V DC-24 V DC.

with 39 cm mast for installation inside a suspended wall unit.

Equipped with LTE Suppressor Filter to eliminate any disturbance caused by new 4G Smartphones. (Only for countries that have already incorporated LTE transmissions in the 800 MHz band).

Horizontal reception diagram



# Teleplus X2

Teleplus X2 /165VU

Teleplus X2 /110VU

Teleplus X2 /51VU

- VHF - UHF
- Dual polarity
- High 38 dB gain (with amplifier)

Gain with amplifier::

38 dB channels 21-69 (UHF)

22 dB channels E5 - E12 (VHF BIII)

Power supply: 12 V DC-24 V DC.

Teleplus X2/165 VU: with 165 cm mast

Teleplus X2/110 VU: with 110 cm mast

Teleplus X2/51 VU: with 51 cm mast

Equipped with LTE Suppressor Filter to eliminate any disturbance caused by new 4G Smartphones. (Only for countries that have already incorporated LTE transmissions in the 800 MHz band).

Horizontal reception diagram





DVB T  
DVB T2 HEVC  
ULTRA HD 4K

DAB+  
Digital Audio Broadcasting

## Teleplus 3G

Directional antenna for 36 dB digital terrestrial signals

- High Gain for reception of even the weakest signals
- Exceptionally good directional adjustment to suppress noise
- Zamak mast connector
- Gain with variable amplifier: UHF 36 dB - VHF-B3 22 dB - VHF-BI 20 dB
- Powered at 12/24 Volts
- Recommended that it be used with SF165 telescopic mast (optional)

Equipped with LTE Suppressor Filter to eliminate any disturbance caused by new 4G Smartphones. (Only for countries that have already incorporated LTE transmissions in the 800 MHz band).

### Kit content:

- 1 Antenna UHF - VHF (B3)
- 1 Adjustable-gain amplifier with 3 TV outputs + DAB and FM radio output
- 1 Ø 30 mast connector with 5 m cable

### Telescopic mast for motorhomes and caravans

Enables you to easily re-orientate your TV antenna without having to leave the vehicle. Water-tight fit guaranteed by double O-ring system. Corrosion-resistant anodised aluminium. Fully equipped for connection to any type of antenna.

### TECHNICAL SPECIFICATION

- SF 50: Length: 50 cm
- SF 165: Length: 165 cm
- Diameter: from 30 to 34 mm (can be adjusted)
- SF 165: Weight: 1.1 kg
- SF 50: Weight: 0.5 kg

Equipped with LTE suppressor filter



SF 165

SF 50

## Teleplus Directional antennas for DVB-T2 digital terrestrial signals



Equipped with LTE Suppressor Filter to eliminate any disturbance caused by new 4 Smartphones. (Only for countries that have already incorporated LTE transmissions in the 800 MHz band).



**Technical specifications**  
 Channels: 5 - 12 21 - 69  
 Gain with amplifier: (dB) 22 36  
 Power supply type.: 12 / 24 V 220 V  
 Length: 50.5 cm  
 Width: 40 - 70 cm  
 Weight: 1.8 kg

**Package contents**  
 TV Antenna with attachment bracket for mast, with diameter of 25 to 50 mm  
 1 Adjustable-gain amplifier with 2 TV outputs  
 5 metres of 75 Ohm coaxial cable with three F connectors.



## Weekend Super Omnidirectional antennas for DVB-T2 terrestrial digital signals



Equipped with LTE Suppressor Filter to eliminate any disturbance caused by new 4 Smartphones. (Only for countries that have already incorporated LTE transmissions in the 800 MHz band).



**Technical specifications**  
 Channels: 5 - 12 21 - 69  
 Gain with amplifier: (dB) 9 26  
 Power supply type: 12 / 24 V 220 V  
 Diameter: 28 cm  
 Height: 12 cm  
 Weight: 0.7 kg

**Package contents**  
 1 TV Antenna with universal bracket for attachment to roof or mast (Ø 32-34 mm)  
 1 Adjustable-gain amplifier with 2 TV outputs 5 metres of 75 Ohm coaxial cable  
 Three F connectors



## Yachting 11 Omnidirectional antennas for DVB-T2 terrestrial digital signals



Equipped with LTE Suppressor Filter to eliminate any disturbance caused by new 4 Smartphones. (Only for countries that have already incorporated LTE transmissions in the 800 MHz band).



**Technical specifications**  
 Channels: 5 - 12 21 - 69  
 Gain with amplifier: (dB) 16 26  
 Power supply type: 12 / 24 V 220 V  
 Diameter: 38 cm  
 Height: 16.5 cm  
 Weight: 1.4 kg

**Package contents**  
 1 TV Antenna with universal bracket for attachment to roof or on mast (Ø 32-34 mm)  
 1 Adjustable-gain amplifier with 2 TV outputs  
 5 metres of 75 Ohm coaxial cable  
 Three F connectors



## Walkie 22 Omnidirectional antennas for DVB-T2 terrestrial digital signals



Equipped with LTE Suppressor Filter to eliminate any disturbance caused by new 4 Smartphones. (Only for countries that have already incorporated LTE transmissions in the 800 MHz band).



**Technical specifications**  
 Channels: 5 - 12 21 - 69  
 Gain with amplifier (dB): (dB) 22 26  
 Power supply type: 12 / 24 V 220 V  
 Diameter: 38 - 88 cm  
 Height: 16.5 cm  
 Weight: 1.4 kg

**Package contents**  
 1 TV antenna with universal support for attachment on roof or mast (Ø 32-34 mm)  
 1 Adjustable-gain amplifier with 2 TV outputs  
 5 metres of 75 Ohm coaxial cable  
 Three F connectors



# WING • WING 11 • WING 22

**Omnidirectional TV antennas for high speed camper vans**

**DVB T2 HEVC**  
**ULTRA HD 4K**

**FILTER**  
**LTE**

The Wing, Wing 11 and Wing 22 series of antennas have been designed to receive all digital terrestrial signals. Particular attention was given to creating an ultra-aerodynamic shape to enable it to be installed on the fastest of motorhomes. It is also equipped with a special, ergonomic foot that allows the antenna to be tilted in any direction, thus making it easy to install on even the most streamlined roofs of latest generation motorhomes and caravans.



**Ultra-aerodynamic shaping**



**3-axis rotation for optimal alignment with respect to the roof, thus allowing easy installation also on latest-generation motorhomes and caravans**



## Wing Digital Terrestrial

Omni-directional antennas 360° 26 dB UHF – 9 dB VHF- B3

The MINI antenna (just 31 cm diameter) specially designed to receive UHF channels. A special configuration of the circuit combined with a high gain amplifier enables reception of VHF B3 programmes too.

Horizontal reception diagram:



Equipped with LTE Suppressor Filter to eliminate any disturbance caused by new 4 Smartphones. (Only for countries that have already incorporated LTE transmissions in the 800 MHz band).

**Gain with amplifier::**  
 CH 5-12 9 dB  
 CH 21-69 26 dB

**Power supply: 12/24 Volt**  
**Diameter:** 31 cm  
**Height:** 16.5 cm  
**Weight:** 1 kg

### Package contents

- 1 Antenna, complete with 5 m coax cable and 3 F connectors
- 1 Adjustable gain amplifier, with 2 outputs for 3 TV+1, Radio DAB and FM output, operating at 12 and 24 V DC



## Wing 11 Digital Terrestrial

Omni-directional antennas 360° 26 dB UHF – 16 dB VHF- B3

The high sensitivity of the electronic amplifier combined with a special antenna design lets you receive TV programmes at lower frequencies while keeping external dimensions to just 38 cm.

Horizontal reception diagram:



Equipped with LTE Suppressor Filter to eliminate any disturbance caused by new 4 Smartphones. (Only for countries that have already incorporated LTE transmissions in the 800 MHz band).

**Gain with amplifier::**  
 CH 5-12 16 dB  
 CH 21-69 26 dB

**Power supply: 12/24 Volt**  
**Diameter:** 38 cm  
**Height:** 16.5 cm  
**Weight:** 1.2 kg

### Package contents

- 1 Antenna, complete with 5 m coax cable and 3 F connectors
- 1 Adjustable gain amplifier, with 2 outputs for 3 TV+1, Radio DAB and FM output, operating at 12 and 24 V DC



## Wing 22 Digital Terrestrial

Omni-directional antennas 360° 26 dB UHF – 22 dB VHF- B3

The combining of two antennas has resulted in this DUAL POWER antenna that provides excellent performance levels even for programmes on lower frequencies (VHF - B3). In addition, the use of a low-noise amplifier enables reception of even very weak signals.

Horizontal reception diagram:



Equipped with LTE Suppressor Filter to eliminate any disturbance caused by new 4 Smartphones. (Only for countries that have already incorporated LTE transmissions in the 800 MHz band).

**Gain with amplifier::**  
 CH 5-12 22 dB  
 CH 21-69 28 dB

**Power supply: 12/24 Volt**  
**Diameter:** 38 - 88 cm  
**Height:** 16.5 cm  
**Weight:** 1.4 kg

### Package contents

- 1 Antenna, complete with 5 m coax cable and 3 F connectors
- 1 Adjustable gain amplifier, with 2 outputs for 3 TV+1, Radio DAB and FM output, operating at 12 and 24 V DC





Truck navigation



## M-DVD6000 TRUCK DAB

6.2" HD touch screen SAT-NAV for camper vans with DAB, FM / AM radio, DVD, USB

GPS Sat-Nav with Truck Navigation function which knows and assesses all your motorhome parameters (mass, weight etc.) and accordingly suggests suitable routes, highlighting any tracks that are not practicable





Radio **DAB+**  
Digital Audio Broadcasting

- Macrom navigation software based on iGO engine.
- 2D and 3D graphics with "digital elevations".
- Voice-guided navigation in 28 languages.
- Auto-zoom for junctions and roundabouts.
- Multiple routing calculation.
- Motorway slip roads displayed.
- Tunnel mode (if GPS signal is lost)
- Socket for resistive steering wheel controls
- Europe map (43 countries) M-NV17FET
- Map with service areas for RVs and campsites
- Upgrades and additional PDIs can be purchased on-line from [www.naviextras.com](http://www.naviextras.com)
- AM/FM radio with RDS, TP and DAB (antenna included)
- DVD/CD/MP3 reader
- USB and SDHC memory reader for multimedia audio and video files
- Wireless speakerphone unit with Parrot technology for use with phone (with telephone contacts) and music player device.
- MFI Apple certification to ensure optimised use of iPhone and iPod
- Ready for connection to rear camera with automatic activation
- Size 2 ISO
- High-definition 6.2" screen (800x480)
- Touch Screen controls
- RGB multi-colour screen lighting
- RDS tuner with FM/AM and DAB bands
- 30 FM/AM and DAB stations can be saved
- Built-in GPS receiver
- Speakerphone with external microphone
- Supports: CD/DVD/USB
- Formats: MP3/WMA/MPEG/AVI/JPG/FLAC
- Dedicated slot for navigation micro SD
- 1 frontal USB micro input + 1 type A rear USB input
- Frontal SD card reader
- 4+1 pre-amplified outputs
- 1 rear video output
- 1 rear and 1 front audio/video input
- Input for reverse gear video camera
- Internal amplification 4x40 Watt
- Remote control

**Map with service areas for RVs and campsites**



**TELECO**  
by  **HUAAPTEC**



# phone **Booster**van

## Mobile Phone Professional Repeaters

Want to stay on-line at all times via your smartphone while seated comfortably in your camper, lying under your veranda, parked in your favourite spot with a fabulous view or while you're on your way to your holiday destination? Well, now you can: TELECO PhoneBoosterVan

With the new TELECO PhoneBoosterVan mobile phone booster your phones will always have a 4G, 3G or GSM connection, allowing uninterrupted Internet browsing\*.



\*Zones without any mobile phone signal excluded



- 1 - external antenna - finds networks and captures their signals
- 2 - TELECO PhoneBoosterVan boosts signals by a factor of **400**
- 3 - internal antenna, transmits boosted signals

**4-5 signal bars at all times:** your device will not have to continuously search for the network, thus saving lots of energy and extending battery performance.

3G

2G

4G

TB55  
TA095  
TAI 16



## FaceBook, Instagram and WhatsApp in the palm of your hand at all times.

No more time wasting as you search for a Wi-Fi network; the 4G network is always with you!! Watch Netflix, films and let your kids play video games, even on the road. TELECO PhoneBoosterVan is the ideal internet source, enhancing the reception capacity of your phone by at least 400 times! All at no extra cost: in fact, with 4-5 signal bars at all times your phone will save lots of energy and your battery will stay charged much longer!

TELECO PhoneBoosterVan is compatible with all iOS and Android devices.



TELECO PhoneBoosterVan is compatible with all mobile phone networks and does not require any SIM card

## Smartphone Control App



WiFi

Bluetooth

The dedicated and free Signal Supervisor App lets you keep your repeater under control via Bluetooth anywhere and any time.

All Teleco PhoneBoosterVan products are officially certified by accredited laboratories in compliance with all international and European health, safety and quality standards.



## PhoneBoosterVan KIT

phone **Booster**van TELECO  
by HUAAPTEC



All 5 Bands used by mobile phones in Europe are covered by the Booster Van: 800-900-1600-2100-2600 MHz  
Power supply: 5-16 V DC

The mobile phone repeater kit includes:  
1 Booster + 1 external antenna + 1 internal omnidirectional antenna.

**Dimensions:**  
Booster: 116x98mm - External antenna:95x85mm  
Internal antenna: 160x17.5mm

# Router WiFi Van T400



## Your personal Wi-Fi network, with you at all times.

If you want to make your camper truly autonomous and capable of making the most of available Internet connections, even in isolated areas, you can complement your TELECO PhoneBoosterVan with a Wi-Fi T400 VAN portable router (to be purchased separately). Operating at 12 V, this device will transform the amplified 4G - 3G Booster signal into a Wi-Fi source that lets you watch movies or your favourite series on NETFLIX on your tablet or SMART TV without any annoying interruptions.

### Technical Specifications

Reception frequency:

GSM: 900/1800 MHz

3G-UMTS: 2100/900 MHz

4G-LTE: 800(B20), 900(B8), 1800(B3), 2100(B1), 2600(B7) MHz

SIM card reader

1 Ethernet port

LTE Category 4 Wireless CPE

LTE DL 150Mbps/UL 50Mbps

A maximum of a 4 users can be connected simultaneously

Power supply: DC 10.5 - 14.5 V/1A



WFT400

**Dimensions:**  
170x165x52 mm



# WIFI hot spot for Campers



Should you decide to park your motorhome or caravan on a campsite where 2G - 3G - 4G telephone signals are strong enough, you can always opt for a simpler solution consisting of the Wi-Fi VAN T400 kit with high performance external antenna. This solution lets you pick up the mobile phone signals available in the parking area with your Wi-Fi VAN 400 Router (equipped with a suitable SIM Card, not supplied) and turn your vehicle into a small, personal Wi-Fi control unit capable of handling up to 4 devices simultaneously.

With the Wi-Fi VAN T400 you'll no longer be a slave to the Wi-Fi signal broadcast by the campsite which can, at certain times, be so busy you'll be unable to connect even when very close to the source.

Why install a Wi-Fi router on your camper or caravan? Because the Wi-Fi VAN T400 Router has much higher 2G-3G-4G signal reception sensitivity than standard cell phones and can therefore act as an excellent Wi-Fi source, serving up to 4 devices (tablets, phones, smart TVs) in the area around your vehicle. The external antenna, then, installed on the vehicle roof, can receive open-air mobile signals and provide - without the obstacles normally present inside the camper - the Router with higher signal intensity.

## VanWi-Fi Kit



Van Wi-Fi Kit includes:  
1 TA095 external antenna  
1 WiFi Van T400 router  
(SIM card not included)

# Video cameras and Monitors for Motorhomes



## TRC 14 CCD

Rear-view camera

- CCD SONY 1/4
- Wide-angle 110°
- High resolution
- dim infrared LEDs < 0.1 Lux
- Microphone
- Mirror function
- Heater function
- 20 m cable
- Silver or white casing
- Casing in anodized cast aluminium with P69K salt-resistant treatment



## TRC 13S CCD

Rear-view camera with automatic shut-off

- Automatic motorized lens
- SONY colour CCD camera 1/3
- Wide-angle 130°
- dim infrared compensation LEDs < 0.1 Lux
- Microphone
- Mirror function
- Heating element with temperature control
- Electronic regulation of light intensity
- 20 m cable
- Casing in powder coated anodised cast aluminium protective cover and stainless steel bracket



## TRCL CMOS

Side-view camera

- Wide-angle lens 130°
- High resolution
- Infra-red 0.5 Lux LEDs for night vision
- Microphone
- Adjustment angle on basis of vehicle characteristics
- Flexible support for normal rear view, support for reverse drive view, left and right side view
- Weather resistant IP67K casing, IP67K



## TP7HR/2

High resolution 7" LCD monitor for 2 video cameras

7" TFT panel /16:9 800x480 pixels  
 High brightness 1600 cd/m2  
 Video input 1V ± 20%750hm  
 Audio input 400mA/1W  
 Audio output 1W  
 Power Supply 12-32V DC  
 Consumption in standby mode <50mA  
 TV system PAL/NTSC  
 Working temperature  
 -15°C - +65°C

**Complete with:**

- Connecting cables
- Support foot
- Sunshade



## TP7HR/4

High resolution 7" LCD monitor for 4 video cameras

7" TFT panel /16:9 800x480 pixels  
 High brightness 1600 cd/m2  
 Video input 1V ± 20%750hm  
 Audio input 400mA/1W  
 Audio output 1W  
 Power Supply 12-32V DC  
 Consumption in standby mode <50mA  
 TV system PAL  
 Working temperature  
 -15°C - +65°C

**Complete with:**

- Connecting cables
- Support foot
- Sunshade



# Televisions and accessories



## TKB25

How to increase the Audio Level of your TV with the Teleco wireless kit:



The Kit consists of a small wireless Audio Transmitter, easily applicable to every Teleco TV, and a high quality wireless Speaker able to reproduce and boost, via wireless, the audio level of your Teleco TV. The wireless Speaker can also be used to play Music from a Smartphone





## Televisions **LED** for Campers and Caravans

New-concept TEK TVs have a **Wide Viewing Angle (178°x178°)**, a **DVB-S2** satellite input and DVB-T2 HEVC terrestrial input + Cable. Featuring DVD (19"-22"-24"), they are equipped with **special software** that automatically associates every country with its programme list. So if the user selects Germany, he/she will automatically be given a list of German programmes; if France is selected the list of French programmes is provided and so on. This makes setting up the TV in the factory or at the dealership quick and easy. For all campers going to France the country France is selected and the French programme list is automatically loaded. For those going to Germany the German list is selected and so on.

**NEW**

### TEK 19D HEVC

19" HD TV for caravans and motorhomes with DVD player

DVB-S2 Satellite receiver with integrated DVB-T2 HEVC terrestrial receiver

FRANSAT and M7 with Fast Scan function

- 9 - 32 V DC or 230 V AC power supply
- DVD reader
- USB port with PVR Multimedia function to record and play video and audio content
- Timeshift Function
- 18.5" FHD screen (47 cm diagonal)
- 5,000 satellite and 1000 terrestrial channels with LCN
- OSD in 8 languages
- Teletext
- Timer
- Parental Lock
- Audio power 2.5 W with equalizer



**9-32 V DC**

**DVB S2 DVB T2 HEVC DVB C**

#### Connections

- 2 HDMI sockets
- 1 SCART socket
- 1 AV input for headphones
- 1 AV IN input (Mini)
- 1 YBPBR socket (Mini)
- 1 CI+ port
- 1 RL Audio Out socket
- 2 USB multimedia ports
- 1 power socket 1 -32 V DC
- 1 ON-OFF switch

#### Technical specifications

- 1 WGA resolution (1366x768)
  - Viewing angle H178°, V178°
  - 1 Brightness 200 CD/m2
  - 1 Contrast 1000:1
  - 1 Response time 5 mS
  - DVB-S2 satellite
  - DVB-T2 H.265 terrestrial
- Weight: 2.3 kg  
Dimensions without feet: 440 x 45 x 270 mm

#### TKB25

How to Increase the Audio Level of your TV with the Teleco wireless Kit.





NEW

## TEK 22D HEVC

22" HD TV for caravans and motorhomes with DVD player

DVB-S2 Satellite receiver with integral DVB-T2 HEVC terrestrial receiver

FRANSAT and M7 with Fast Scan function

- 9 - 32 V DC or 230 V AC power supply
- DVD reader
- USB port with PVR Multimedia function to record and play video and audio content
- Timeshift Function
- 21.5" FHD screen (56 cm diagonal)
- 5,000 satellite and 1000 terrestrial channels with LCN
- OSD in 8 languages
- Teletext
- Timer
- Parental Lock
- Audio power 2.5 W with equalizer



DVB S2 DVB T2 HEVC DVB C

9-32 V DC

### Connections

- 2 HDMI sockets
- 1 SCART socket
- 1 AV input for headphones
- 1 AV input
- 1 YBPBR socket (Mini)
- 1 CI+ port
- 1 RL Audio Out socket
- 2 USB multimedia ports
- 1 power socket 1 -32 V DC
- 1 ON-OFF switch

### Technical specifications

- WGA resolution (1920x1080)
- Viewing angle H178°, V178°
- 1 Brightness 200 CD/m<sup>2</sup>
- 1 Contrast 1000:1
- 1 Response time 5 mS
- DVB-S2 satellite
- DVB-T2 H.265 terrestrial

Weight: 3.0 kg  
Dimensions without feet: 506.5 x 50 x 308 mm

### TKB25

How to Increase the Audio Level of your TV with the Teleco wireless Kit.



NEW

## TEK 24D HEVC

24" HD TV for caravans and motorhomes with DVD player

DVB-S2 Satellite receiver with integral DVB-T2 HEVC terrestrial receiver

FRANSAT and M7 with Fast Scan function

- 9 - 32 V DC or 230 V AC power supply
- DVD reader
- USB port with PVR Multimedia function to record and play video and audio content
- Timeshift Function
- 18.5" FHD screen (47 cm diagonal)
- 5,000 satellite and 1000 terrestrial channels with LCN
- OSD in 8 languages
- Teletext
- Timer
- Parental Lock
- Audio power 2.5 W with equalizer



DVB S2 DVB T2 HEVC DVB C

9-32 V DC

### Connections

- 2 HDMI sockets
- 1 SCART socket
- 1 AV socket for headphones
- 1 AV input
- 1 YBPBR socket (Mini)
- 1 CI+ port
- 1 RL Audio Out socket
- 2 USB multimedia ports
- 1 power socket 1 -32 V DC
- 1 ON-OFF switch

### Technical specifications

- 1 WGA resolution (1920x1080)
- Viewing angle H178°, V178°
- 1 Brightness 200 CD/m<sup>2</sup>
- 1 Contrast 1000:1
- 1 Response time 5 mS
- DVB-S2 satellite
- DVB-T2 H.265 terrestrial

Weight: 4.0 kg  
Dimensions without feet: 558.7 x 75 x 395 mm

### TKB25

How to Increase the Audio Level of your TV with the Teleco wireless Kit.



# SMART TV

## Internet directly on your Camper or Caravan TV with TELECO SMART TVs

Your TV transformed into a MEGA Smartphone with incorporated WIFI.

You can connect directly to a portable Wi-Fi Router with SIM Card (e.g. WIFI VAN T400) and use the Internet directly via the remote control.

Download the most popular Apps and connect to your favourite social media: FaceBook, Instagram, WhatsApp, YouTube etc. Perform Google searches and download films and Video games. You can also watch your favourite NETFLIX series.

With the supplied **Miracast** App you can transfer photos and videos directly from your smartphone to the TV and enjoy them on a much larger screen.

Ready to receive **DVB-S2** satellite, **DVB-T2 HEVC** terrestrial and **DVB-C** cable programmes

Power supply: 12-24 Volt from battery and 230 V AC from mains power ON-OFF switch

Remote control with two additional keys to pilot the Teleco automatic satellite antenna

5000 satellite channels - 1000 TV channels

10 pre-set satellite channel lists: Germany, France, Holland-Belgium, Switzerland, Italy, Austria, Norway, Sweden, Finland, Denmark





Model	TEK 24DS	TEK 32S	TEK 40S
<b>PANEL</b>			
Screen Size (diagonal)	23.6"FHD	31.5"HD	39.5"FHD
Backlight	DLED	ELED	ELED
Resolution	1920*1080	1920*1080	1920*1080(1080p)
Response Time (typical)	5ms	6ms	8ms
Brightness (cd/m2, typical)	200cd/m2	200cd/m2	250cd/m2
Contrast Ratio (typical)	3000:1	1000:1	1000:1
Viewing Angle Degree (H/V)	H:178°, V:178°	H:178°, V:178°	H:178°, V:178°
Frame Rate	60Hz	60Hz	60Hz
Aspect Ratio	16:9	16:9	16:9
<b>TV System</b>			
Support H.265	YES	YES	YES
Teletext	1000Pages	1000Pages	1000Pages
Noise Reduction	YES	YES	YES
Bluetooth Version	V4.2	V4.2	V4.2
Android solution	Android 7.0.1 OS	Android 7.0.1 OS	Android 7.0.1 OS
<b>AUDIO</b>			
Audio Output	2*5W	2*10W	2*10W
<b>INPUTS AND OUTPUTS</b>			
TV Tuner	x2	x2	x2
SCART	X1	X1	X1
CI +	x1	x1	x1
COAX	x1	x1	x1
HDMI	x2 (CEC,ARC,MHL)	x2 (CEC,ARC,MHL)	x2 (CEC,ARC,MHL)
USB	x4	x4	x4
LAN	x1	x1	x1
EARPHONE	x1	x1	x1
YPBPR (MINI)	x1	x1	x1
AV IN (MINI)	x1	x1	x1
RL AUDIO out	x1	x1	x1
<b>POWER CONSUMPTION</b>			
Power Supply	AC100V-240V DC 9-32V	AC100V-240V DC 10-30V	AC100V-240V DC 11.30-30V
Power Consumption (W)	<32W	<60W	<85W
Standby Power Consumption	<0.5W	<0.5W	<0.5W
<b>REMOTE FEATURE</b>			
EPG	YES	YES	YES
Sleep Timer	YES	YES	YES
<b>ACCESSORIES</b>			
Remote Control	YES	YES	YES
Battery	YES	YES	YES
Cigarette lighter	YES	YES	YES
Power Cord & Adaptor	YES	YES	YES
User Manual (Language)	German,English,French,Italian etc.	German,English,French,Italian etc.	German,English,French,Italian etc.
<b>CASE</b>			
Cabinet Colour	Piano black	Piano black	Black
Desk Top Stand	YES	YES	YES
Vesa Pattern	100x100mm	100x100mm	200*200mm
<b>DIMENSIONS</b>			
Net weight (kg)	3.5	4.5	14
Gross weight (kg)		6	
Product Dimensions without stand (mm)	558.7*50*337.8mm	722.6*48*422.3mm	907.2*55.8*514.9MM

# Telair

## AIR CONDITIONER

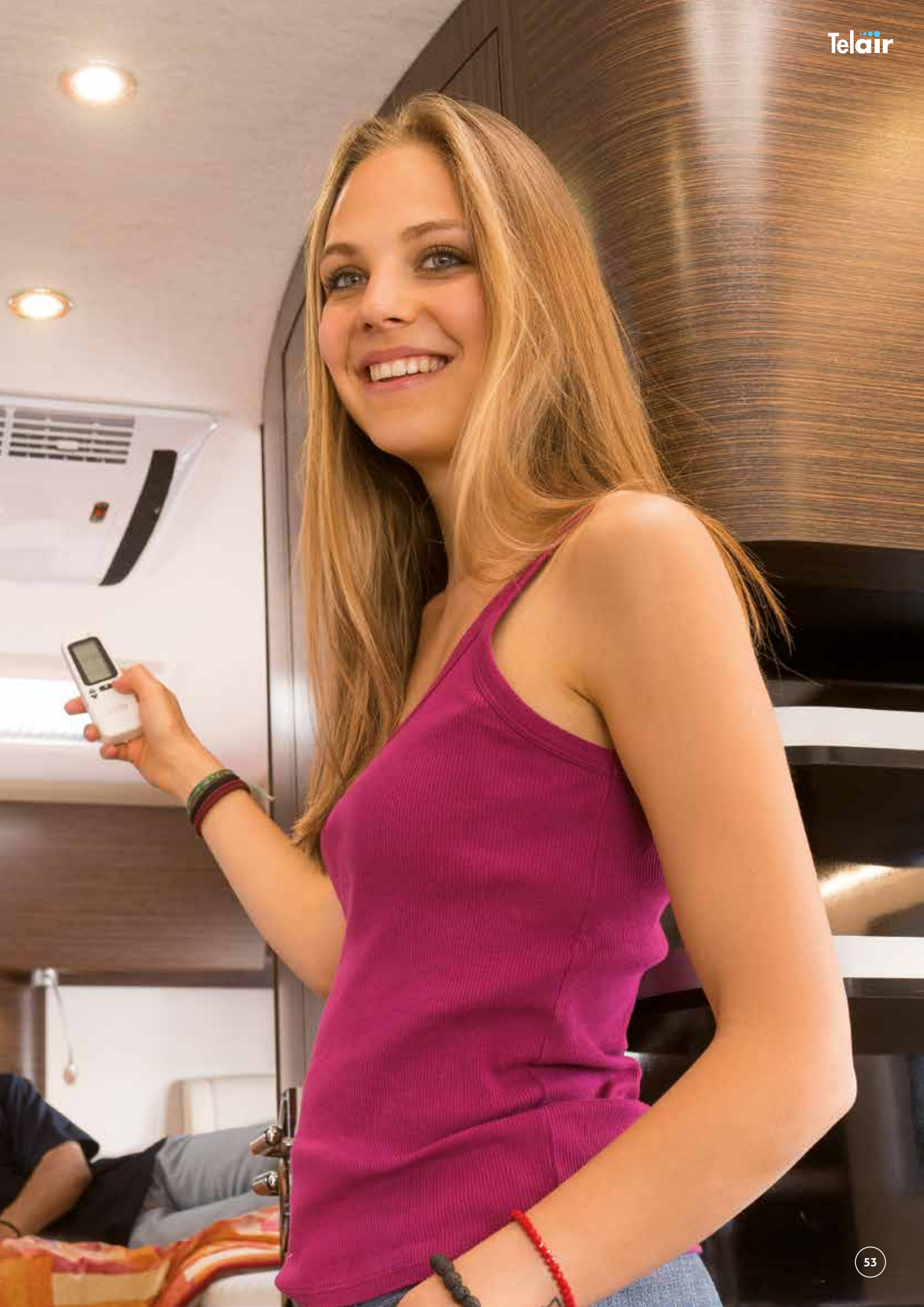
When the summer is torrid, the heat is suffocating and humidity prevents you from sleeping at night, there's no need to worry, because Telair will look after you. You don't have to miss out on holidays in the south of Europe just because heat and mugginess might make your stay unbearable. A Telair air conditioner will make your days pleasurable and relaxing. A sense of well-being will accompany you throughout your holiday, the system constantly cooling and drying the air inside your motorhome or caravan. Telair's flat and aerodynamic roof-mounted air conditioners are the perfect solution, taking up minimal space inside the vehicle. Modern, innovative design makes installation of the unit on the roof quick and easy, as uses the standard 40 x 40 cm roof-light opening, without affecting the aerodynamics of the vehicle.



The range of Dual Clima and Silent air conditioners, built with 4 different cooling levels, can be installed on any type of caravan or motorhome, from small (4 or 5 m) to large (8 or 10 m). The choice of the correct model to install is very simple. Just check the length of your vehicle and match it to the following table:

<b>SILENT 5400H</b>	<b>5 - 6 m</b>
<b>SILENT 7400H</b>	<b>6 - 7 m</b>
<b>SILENT 8400H</b>	<b>6.5 - 8 m</b>
<b>DUALCLIMA 8400H</b>	<b>6.5 - 8 m</b>
<b>DUALCLIMA 12400H</b>	<b>8 - 10 m</b>





**AIR DIFFUSERS**

There are two models of air diffusers for the vehicle interior:



DualClima



**Dual Clima diffuser**, modern design and super-flat (just 4.9 cm thick). Fitted with an efficient and silent system for distributing cold (or hot) air that can reach any part of the vehicle. The two main outputs are connected to an adjustable flow separator that allows air to be distributed in two directions (Front – Rear) or allows the flow to be adjusted gradually until it is all concentrated in just one direction. Each of the two outputs can also be oriented from left to right and from up to down in order to maximise comfort. Fitted with 2 honeycomb dust filters that can easily be extracted and washed under running water. An LED display showing room temperature and 2 LED lights indicating the status (cooling or heating) of the air conditioner will help you control it at all times. Infrared remote control with timer (ON-OFF) and large display. Ambient lighting with two LED bars that can be activated with the remote control.

Silent



**Silent Diffuser**, small, compact with cold air outlet that can be aimed in two directions (forwards and rearwards) or focused in one direction. Easy to clean, with two dust filters that can be removed effortlessly and washed in running water whenever necessary. Fitted with an LED display, a room temperature indicator and an infrared remote control with timer.



## HEAT PUMP

All Dual Clima and Silent air conditioners are also equipped with a heat pump heating system and so, in addition to being used to cool the vehicle, can be used, in the intermediate seasons, as a genuine low-cost heater.

Heat pump heating has some major advantages:

- It consumes very little with 900W of power providing up to 2.4 kW of heat
- It is healthy because it removes humidity from the air
- It is fast and switches from hot to cold automatically to maintain a constant pre-set temperature
- It operates correctly down to about 4°C





	clima e-Van	clima e-Van	DualClima
TECHNICAL SPECIFICATION	CLIMA e-Van 5400H	CLIMA e-Van 7400H	DUALCLIMA 12400H
<b>Cooling power</b>	5,800 BTU 1700W	7,200 BTU 2100W	10,500 BTU 3.10 kW
<b>Heat pump heating power</b>	5,600 BTU 1650 W	6,800 BTU 2000 W	9,500 BTU 2.80 kW
<b>Fan speed</b>	3 + AUTO	3 + AUTO	3 + AUTO
<b>Power supply</b>	230 V 50 Hz	230 V 50 Hz	230 V 50 Hz
<b>Average absorbed current</b>	2.6 A 2.6 A	4.0 A 4.0 A	6.6 A 6.9 A
<b>Starting current</b>	15 A (100 msec.)	18 A (100 msec.)	27 A (6 msec.)
<b>Absorbed power</b>	600 W 600 W	920 W 920 W	1,520 W 1,600 W
<b>Required generator</b>	2200 W	2200 W	2200 W
<b>Max air flow</b>	270 m <sup>3</sup> /h	370 m <sup>3</sup> /h	480 m <sup>3</sup> /h
<b>Weight</b>	30 kg.	31 kg	39 kg.
<b>Dimensions</b>	23.2x71x61.9 cm ▲ → ▼	23.2x71x61.9 cm ▲ → ▼	23.9x98x65 cm ▲ → ▼
<b>Air diffuser height</b>	4.2 cm	4.2 cm	4.9 cm
<b>Remote Control</b>	Timer	Timer	Timer
<b>Suitable for vehicles</b>	4-6 m	5-7 m	8-10 m





DualClima	Silent	Silent	Silent
DUALCLIMA 8400H	SILENT 8400H	SILENT 7400H	SILENT 5400H
8,400 BTU 2.46 kW	8,400 BTU 2.46 kW	8,100 BTU 2.40 kW	5,800 BTU 1.7 kW
8,100 BTU 2.40 kW	8,100 BTU 2.40 kW	7,500 BTU 2.20 kW	5,600 BTU 1.64 kW
3 + AUTO	3 + AUTO	3 + AUTO	3 + AUTO
230 V 50 Hz	230 V 50 Hz	230 V 50 Hz	230 V 50 Hz
4.1 A 4.2 A	4.1 A 4.2 A	4.1 A 4.2 A	2.8 A 3.2 A
18 A (15 msec.)	18 A (15 msec.)	18 A (15 msec.)	15 A (15 msec.)
900 W 920 W	900 W 920 W	920 W 920 W	630 W 650 W
2200 W	2200 W	2200 W	2200 W
480 m3/h	450 m3/h	420 m3/h	350 m3/h
35 kg	35 kg	34 kg.	34 kg.
23.9x98x65 cm	23.9x98x65 cm	23.9x98x65 cm	23.9x98x65 cm
4.9 cm	6.2 cm	6.2 cm	6.2 cm
Timer	Timer	Timer	Timer
6.5-8 m	6.5-8 m	6-7 m	5-6 m

THE SMALLEST ROOF-MOUNTED AIR CONDITIONER ON THE MARKET  
Just 71cm long and 23 cm high

# clima e-Van



**NEW**



TIMER



GAS R32



230 Volt

## clima e-Van 5400H / 7400H AUTOMATIC AIR CONDITIONERS WITH HEAT PUMP

Specially designed for Camper Vans, the ideal solution for installation on small roofs without having to remove the skylight.

Silent, light and easy to install, it is secured to the roof both with the usual 40x40 cm roof-light opening and with a smaller 36x36 cm hole.

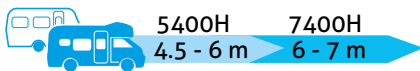
Featuring cutting-edge technology, its design exploits all the latest resources to offer an **Ecologically Clean** product.

An R32 gas refrigerant has been used as it has the lowest Global Warming Potential (GWP 675) that is currently found on air conditioners for vehicles, with a 70% reduction in environmental pollution power, compared to gases that have been used to date.

Two models are available with different refrigerating powers; both feature a heat pump. Cold, Hot and Automatic functions can be selected via the remote control, Timer function.

The CLIMA e-VAN 5400H model has been designed for low consumption. It can also be connected to a battery through a pure sine wave inverter of minimum 1500W (at full capacity) for use in moving vehicles.

The small internal diffuser with its modern design is just approximately 4.2 cm thick and can easily be installed thanks to its small size. Equipped with a multi-function blue display and LED lights that can be switched on/off via the remote control.



### 5400H

- 1700 W (5,800 BTU)
- 1650 W (5,600 BTU)
- TIMER

### 7400H

- 2100 W (7,200 BTU)
- 2000 W (6,800 BTU)
- TIMER





Technical specifications	CLIMA e-Van 5400H	CLIMA e-Van 7400H
Refrigerating yield	5,800 BTU / 1700 W	7,200 BTU / 2100 W
Heater	5,600 BTU / 1650 W	6,800 BTU / 2000 W
Ventilation speeds	3 + AUTO	3 + AUTO
Power supply	230 V - 50 Hz	230 V - 50 Hz
Average absorbed current	2.6 A ❄️ 2.6 A 🔥	4.0 A ❄️ 4.0 A 🔥
Starting current	15 A (100 ms)	18 A (100 ms)
Absorbed power	600 W ❄️ 600 W 🔥	920 W ❄️ 920 W 🔥
Required generator	2200 W	2200 W
Maximum air flow rate	270 m³/h	370 m³/h
Weight	30 kg.	31 kg
Dimensions	71x61.9x23.2 cm ↑ → ↓	71x61.9x23.2 cm ↑ → ↓
Air diffuser height	4.2 cm	4.2 cm

Extra-flat diffuser with sloping profile on all 2 sides. Adjustable front and rear air outlets.



NEW

GAS R32

230 Volt

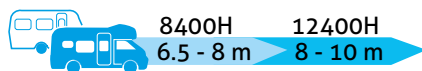
TIMER

## Dualclima 12400H / 8400H

### AUTOMATIC AIR CONDITIONERS WITH HEAT PUMP

DUALCLIMA monoblock air conditioner specially designed to be installed on the roofs of medium-to-large campers and caravans. Special care has been taken to ensure LOW NOISE both inside and outside.

- **HEAT PUMP** High-efficiency heat pump heating supplies more than double the heating power for the power supplied. The heat pump is effective for outside temperatures down to 4°C; below this temperature its efficiency is considerably reduced.
- **AUTOMATIC CONTROL**  
By activating the AUTO function, the air conditioner selects the most suitable ventilation speed and the cooling or heating function automatically.
- **REMOTE CONTROL** with a **programmable timer** and ON/OFF Switch for the Diffuser Light
- Anti-freeze protection **PROBES**
- **INTERNAL FILTERS** – can be changed and washed
- Suitable for roofs 30 - 70 mm thick

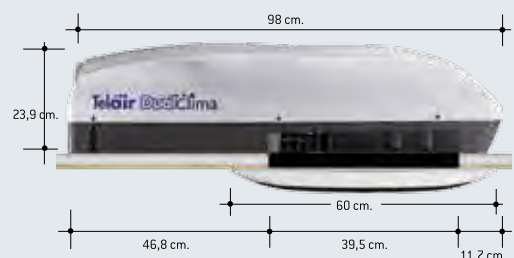


#### 8400H GAS R32

- 2.46 KW (8,400 BTU)
- 2.40 KW (8,100 BTU)
- TROPICAL TILL 55°C
- TIMER

#### 12400H GAS R407C

- 3.10 KW (10,500 BTU)
- 2.80 KW (9,500 BTU)
- SLOW STARTER
- TIMER





Technical specifications	DUALCLIMA 12400H	DUALCLIMA 8400H
Refrigerating yield	10,500 BTU / 3.10 kW	8,400 BTU / 2.46 kW
Heater	9,500 BTU / 2.80 kW	8,100 BTU / 2.40 kW
Ventilation speeds	3 + AUTO	3 + AUTO
Power supply	230 V - 50 Hz	230 V - 50 Hz
Average absorbed current	6.6 A ❄️ 6.9 A 🔥	4.1 A ❄️ 4.2 A 🔥
Starting current	27 A (6 m sec.)	18 A (15 m sec.)
Absorbed power	1520 W ❄️ 1600 W 🔥	900 W ❄️ 920 W 🔥
Required generator	2200 W	2200 W
Maximum air flow rate	480 m3/h	480 m3/h
Weight	39 kg.	35 kg
Dimensions	23,9x98x65 cm ↑ → ↘	23,9x98x65 cm ↑ → ↘
Air diffuser height	4.9 cm	4.9 cm

Extra-flat diffuser with sloping profile on all 4 sides. Direction-adjustable front and rear air outlets (horizontal and vertical).



**NEW**



GAS R32

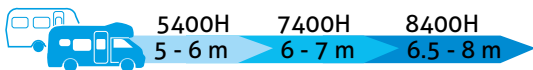


230 Volt

*Silent* **8400H / 7400H / 5400H**  
**AUTOMATIC AIR CONDITIONERS WITH HEAT PUMP**

SILENT 8400H - 7400H - 5400H monoblock air conditioner specially designed to be installed on the roofs of small to medium sized camper vans and caravans. Special care has been taken to ensure LOW NOISE both inside and outside.

- **HEAT PUMP** High-efficiency heat pump heating supplies more than double the heating power for the power supplied. The heat pump is effective for outside temperatures down to 4°C; below this temperature its efficiency is considerably reduced.
- **AUTOMATIC CONTROL**  
By activating the AUTO function, the air conditioner selects the most suitable ventilation speed and the cooling or heating function automatically.
- **REMOTE CONTROL** with a **programmable timer**
- Anti-freeze protection **PROBES**
- **INTERNAL FILTERS**, can be changed and washed
- Suitable for roofs 30 - 70 mm thick



**8400H**

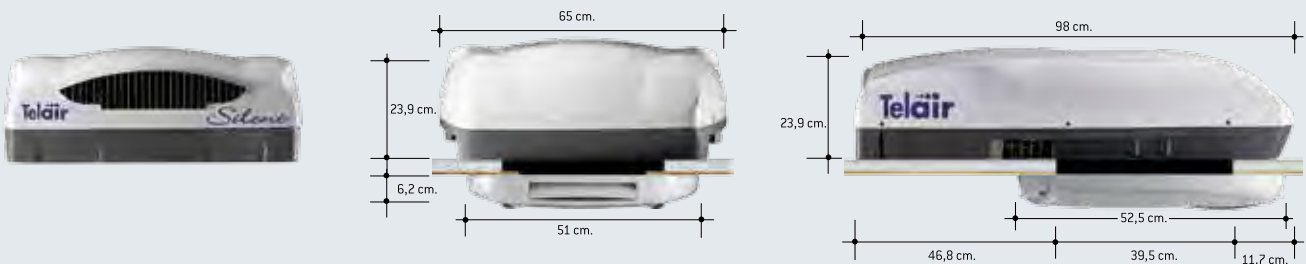
- 2.46 KW (8,400 BTU)
- 2.40 KW (8,100 BTU)
- TIMER**

**7400H**

- 2.40 KW (8,100 BTU)
- 2.20 KW (7,500 BTU)
- TIMER**

**5400H**

- 1.7 KW (5,800 BTU)
- 1.64 KW (5,600 BTU)
- TIMER**





Technical specifications	SILENT 8400H	SILENT 7400H	SILENT 5400H
Refrigerating yield	8,400 BTU / 2.46 kW	8,100 BTU / 2.40 kW	5,800 BTU / 1.7 kW
Heater	8,100 BTU / 2.40 kW	7,500 BTU / 2.20 kW	5,600 BTU / 1.64 kW
Ventilation speeds	3 + AUTO	3 + AUTO	3 + AUTO
Power supply	230 V - 50 Hz	230 V - 50 Hz	230 V - 50 Hz
Average absorbed current	4.1 A ❄️ 4.2 A 🔥	4.1 A ❄️ 4.2 A 🔥	2.8 A ❄️ 3.2 A 🔥
Starting current	18 A (15 m sec.)	18 A (15 m sec.)	15 A (15 m sec.)
Absorbed power	900 W ❄️ 920 W 🔥	920 W ❄️ 920 W 🔥	630 W ❄️ 650 W 🔥
Required generator	2200 W	2200 W	2200 W
Maximum air flow rate	450 m3/h	420 m3/h	350 m3/h
Weight	35 kg	34 kg.	34 kg.
Dimensions	23.9x98x65 cm ▲ → ▼	23.9x98x65 cm ▲ → ▼	23.9x98x65 cm ▲ → ▼
Air diffuser height	6.2 cm	6.2 cm	6.2 cm



Aluminium



NEW

## Rigid TSP 100W Mono-Crystalline Solar Panels

## Semi-flexible TSPF 110W

Specifications	TSP 100W	TSP F110W
Rated power (P <sub>max</sub> ):	100W	110W
Rated voltage P <sub>max</sub> (V <sub>mp</sub> ):	18.5V	19.0V
Rated current P <sub>max</sub> (I <sub>mp</sub> ):	5.41A	5.79A
Open circuit voltage (V <sub>oc</sub> ):	22.7V	23.5V
Closed circuit current (I <sub>sc</sub> ):	5.75A	5.97A
Module efficiency (η <sub>m</sub> ):	15.2%	16.9%
Maximum system voltage:	1000 V DC (IEC).	600 V DC (IEC).
Application class:	Class A	Class A
Maximum overcurrent:	10 A	10 A
Working temperature:	85% Rh -40°C~ +85°C	85% Rh -40°C~ +85°C
Nominal operating cell temperature (NOCT):	46 ± 2°C	46 ± 2°C
Temperature coefficient at P <sub>max</sub> (γ P <sub>mp</sub> ):	- 0.41%/°C	- 0.1%/°C
Temperature coefficient at VOC (β V <sub>oc</sub> ):	- 0.31%/°C	- 0.31%/°C
Temperature Coefficient at ISC (α I <sub>sc</sub> ):	+0.045%/°C	+0.045%/°C
Top cover: <b>tempered glass/3.2 mm</b>		
Mono-crystalline cells (pcs and dimensions)	36 125x125mm	36 156x156mm
Frame: <b>anodised aluminium alloy</b>		
Connection box (protection rating):	IP65	IP68
Lead (length/cross-section):	650 mm/4 mm <sup>2</sup>	500 mm/4 mm <sup>2</sup>
Connector (protection rating):	IP65	IP65
Module size (LxWxH) (without feet):	1195x550x40 mm	1216x533x2 mm
Weight (without feet):	7.75 kg	1.8 kg

- STC: irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, air mass AM1.5 according to EN60904-3
- Average efficiency reduction of 4.5% at 200W/m<sup>2</sup> according to EN60904-1





Accessories



**K2PS**  
 Connection kit with diodes for 2 solar panels  
 2 Adapters with 10A diodes  
 2 double couplers for positive and negative  
**CPP** Connectors for extension cables



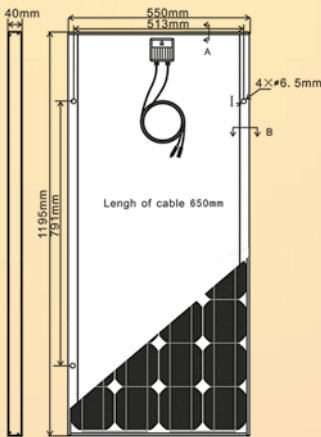
**TRC**  
 Remote control panel for SPC 10/2 dual battery controller.



**Rigid solar panel attachment kit:**  
 4 ABS feet + spoiler for quick panel attachment with self-tapping screws



**SPC10/2**  
 PWM 10A /12 – 24 Volt dual independent battery charge controller with selectable charge percentage and temperature compensator. Protected against: overloads, short circuits, reverse polarity. Suitable for lead batteries with Liquid, Gel or AGM technology.



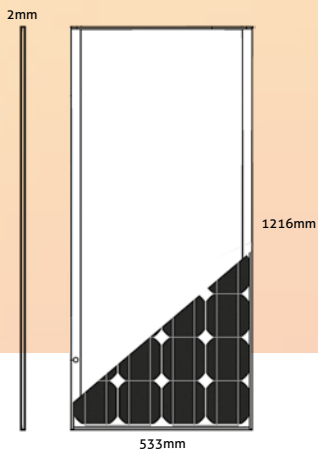
**TSP 100W**



**SPCA/TSP** Aluminium cable guide



**SPC10/1**  
 10 A /12 Volt single battery charge controller



**TSP 110W**



6 m extension cable



Cleaning and glueing kit (DEKASYL MS-5) feet for rigid solar panel

## ENERGY EVERYWHERE

### Home comforts on holiday

You don't have to worry about where you'll get the energy to run your air conditioner any more, or your hair dryer, or your satellite TV, if all the lights are on.

With the Telair line of generators, all of this is taken care of, wherever you want to stop with your motorhome!

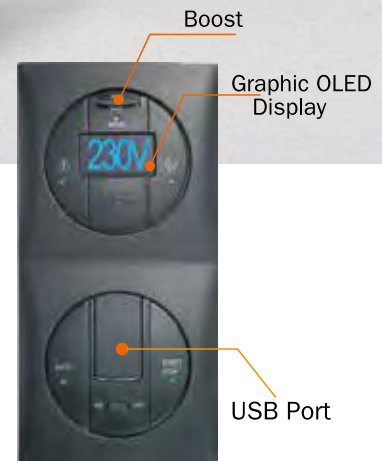





# Generators

Technical specifications	Model	Engine	Alternator	Max. power	Distortion frequency	Starting	Noise level
	<b>TIG 6000B PETROL 230 V AC</b>	Yamaha MZ300	Inverter	5.6 kW - 230V 10 A / 13.5 V DC	50 Hz 1%	Electric	58-63 dBA (7m)
	<b>TIG 3000G GAS 230 V AC</b>	Yamaha MZ175 GAS	Inverter	2.9 kW - 230V 10 A / 13.3 V DC	50 Hz 1%	Electric	54-58 dBA (7m)
	<b>TIG 3000B PETROL 230 V AC</b>	Yamaha MZ175	Inverter	2.9 kW - 230V 10 A / 13.3 V DC	50 Hz 1%	Electric	54-58 dBA (7m)
	<b>TIG 3000D DIESEL 230 V AC</b>	HATZ 1B20 V	Inverter	2.9 kW - 230V 10 A / 13.3 V DC	50 Hz 1%	Electric	56-59 dBA (7m)
	<b>ENERGY 2510 kg GAS 230 V AC</b>	Yamaha MZ175 GAS	Synchron 2 poles	2.5 kW - 230V 10 A / 12 V DC	50 Hz 5%	Electric	58 dBA (7m)
	<b>ENERGY 2510B PETROL 230 V AC</b>	Yamaha MZ175	Synchron 2 poles	2.5 kW - 230V 10 A / 13.3 V DC	50 Hz 5%	Electric Manual	58 dBA (7m)
	<b>ENERGY 2510D</b>	HATZ 1B 20V	Synchron 2 poles	2.2 kW - 230V 5.0A / 12 V DC	50 Hz 5%	Electric	63 dBA (7m)
	<b>ENERGY 4010D DIESEL - 230 V AC</b>	HATZ 1B 30V	Synchron 2 poles	3.4 kW - 230V 5.0A / 12 V DC	50 Hz 5%	Electric	66 dBA (7m)
	<b>ECOENERGY GAS 12 V DC</b>	TELAIR	-	25A / 12 V DC		Electric	51 dBA (7m)
	<b>ENERGY 8012 GAS 12 V DC</b>	Yamaha MZ175 GAS	-	70A / 13.5 V DC		Electric	56 dBA (7m)

Max fuel consumption	Dimensions	Weight	Control panel with 5 m cable	Floor or chassis mounting	Teleco HUB	OPTION Control panel with automatic starter
2.7 L/h Petrol	34x65.5x46.5cm ↑ → ↘	75 kg				
1.2 kg/h Gas	27.5x51.5x39 cm ↑ → ↘	52.5 kg				
1.2 L/h Petrol	27.5x51.5x39 cm ↑ → ↘	51.8 kg				
1.3 L/h Diesel	41x58.5x46.5 cm ↑ → ↘	87 kg				
1.2 kg/h Gas	29.5x55.5x38.5 cm ↑ → ↘	60 kg				ASP 
1.2 L/h Petrol	29.5x55.5x38.5 cm ↑ → ↘	56 kg				ASP 
1,3 L/h Diesel	38x66x41 cm ↑ → ↘	98 kg				ASP 
1.3 L/h Diesel	39x69x41 cm ↑ → ↘	110 kg				
0.27 kg/h Gas	56.5x38x25 cm ↑ → ↘	19 kg				
0.8 kg/h Gas	26.5x50.1x38.2 cm ↑ → ↘	52 kg				



## TIG 3000 D INVERTER DIESEL GENERATOR

 230 V AC

- Stainless steel hatch
- Removable interior
- 2 attachment systems
- Variable speed adjuster

The TIG 3000 D is a new-generation 230 V AC inverter generator powered by a Diesel engine.

The rotation speed is commanded by a newly developed electronic variable speed system which functions at an extremely low noise level and greatly reduces average diesel consumption. Inverter technology provides a very stable flow of power by pure sine wave.

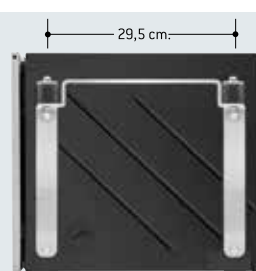
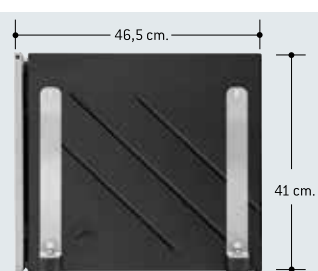
The modernly designed remote control panel with display provides the user with full information on generator operation: oil level checks, working temperature and power consumption with automatic engine cut-off if values do not correspond with standard values. The generator can be set to manual or automatic mode (if it's also used as a battery charger). It also has a BOOST button which can be used when a temporary increase of power for a very high electric load is needed.

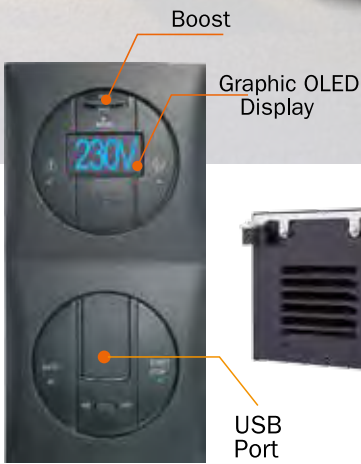
It also has a special interface which makes it possible to use the new Teleco-Hub App to switch the generator on/off and control it remotely using an iOS or Android smartphone.

 Bluetooth



Technical specifications	TIG 3000 D
Engine	HATZ 1B20 V
Rotation speed	2400 - 3200 rpm
Max. power output	2.9 KW - 230V 10 A / 13.3 V DC
Frequency Distortion	50 Hz 1%
Starting	Electric
Noise level	56-59 dBA (7m)
Max fuel consumption	1.3 L/h diesel
Dimensions	41x58.5x46.5 cm ↑ → ↙
Weight	87 kg





## TIG 3000 G INVERTER GAS GENERATOR

### 230 V AC

- Stainless steel hatch
- Removable interior
- 2 attachment systems
- Variable speed adjuster



The TIG 3000 G is a new-generation 230 V AC inverter generator powered by a GAS engine (LPG). The rotation speed is commanded by a newly developed electronic variable speed system which functions at an extremely low noise level and greatly reduces average gas consumption. Inverter technology provides a very stable flow of power by pure sine wave.

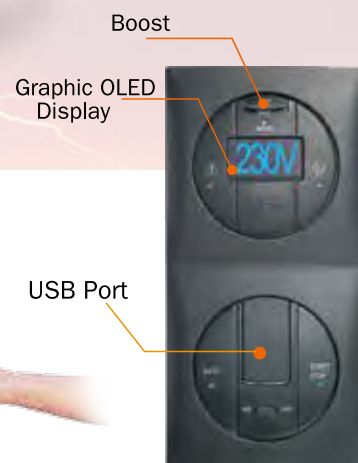
The modernly designed remote control panel with display provides the user with full information on generator operation: oil level checks, working temperature and power consumption with automatic engine cut-off if values do not correspond with standard values.

The generator can be set to manual or automatic mode (if it's also used as a battery charger). It also has a BOOST button which can be used when a temporary increase of power for a very high electric load is needed.


It also has a special interface which makes it possible to use the new Teleco-Hub App to switch the generator on/off and control it remotely using an iOS or Android smartphone.

Technical specifications	TIG 3000 G
Engine	YAMAHA MZ 175
Rotation speed	2600 - 3800 rpm
Max. power output	2.9 KW - 230V 10 A / 13.3 V DC
Frequency Distortion	50 Hz 1%
Starting	Electric
Noise level	54-58 dBA (7m)
Max fuel consumption	1.2 kg/h
Dimensions	27.5x51.5x39 cm ↑ → ↘
Weight	52.5 kg





## TIG 3000 B INVERTER PETROL GENERATOR

 230 V AC

- Stainless steel hatch
- Removable interior
- 2 attachment systems
- Variable speed adjuster



 Bluetooth



Technical specifications	TIG 3000 B
Engine	YAMAHA MZ 175
Rotation speed	2600 - 3800 rpm
Max. power output	2.9 KW - 230V 10 A / 13.3 V DC
Frequency Distortion	50 Hz 1%
Starting	Electric
Noise level	54-58 dBA (7m)
Max fuel consumption	1.2 L/h
Dimensions	27.5x51.5x39 cm ▲ ▶ ↘
Weight	51.8 kg

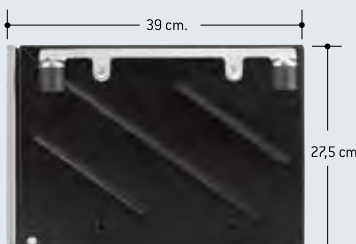
The TIG 3000B is a new generation 230 V AC inverter generator powered by a petrol engine.

The rotation speed is commanded by a newly developed electronic variable speed system which functions with an extremely low noise level as well as greatly reduced average petrol consumption. Inverter technology provides a very stable flow of power by pure sine wave.

The modernly designed remote control panel with display provides the user with full information on generator operation: oil level checks, working temperature and power consumption with automatic engine cut-off if values do not correspond with standard values.

The generator can be set to manual or automatic mode (if it's also used as a battery charger). It also has a BOOST button which can be used when a temporary increase of power for a very high electric load is needed.

It also has a special interface which makes it possible to use the new Teleco-Hub App to switch the generator on/off and control it remotely using an iOS or Android smartphone.





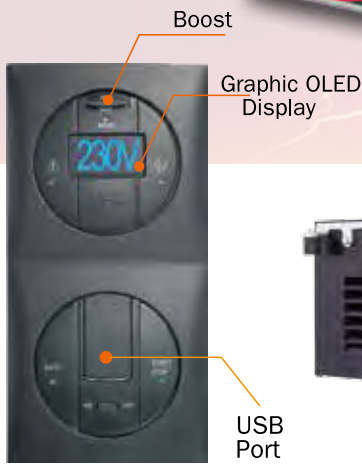


**NEW**

## TIG 6000 B INVERTER PETROL GENERATOR

230 V AC

- Stainless steel hatch
- Removable interior
- 2 attachment systems
- Variable speed adjuster



Bluetooth



The TIG 6000B is a new generation 230 V AC inverter generator powered by a petrol engine.

The rotation speed is commanded by a newly developed electronic variable speed system which functions with an extremely low noise level as well as greatly reduced average petrol consumption. Inverter technology provides a very stable flow of power by pure sine wave.

The modernly designed remote control panel with display provides the user with full information on generator operation: oil level checks, working temperature and power consumption with automatic engine cut-off if values do not correspond with standard values.

The generator can be set to manual or automatic mode (if it's also used as a battery charger). It also has a BOOST button which can be used when a temporary increase of power for a very high electric load is needed.


It also has a special interface which makes it possible to use the new Teleco-Hub App to switch the generator on/off and control it remotely using an iOS or Android smartphone.

Technical specifications	TIG 6000 B
Engine	YAMAHA MZ 300
Rotation speed	2400 - 3600 rpm
Max. power output	5,6 KW - 230V 10 A / 13.5 V DC
Frequency Distortion	50 Hz 1%
Starting	Electric
Noise level	58-63 dBA (7m)
Max fuel consumption	2.2 L/h
Dimensions	34.5x61x46.5 cm ↑ → ↙
Weight	75 kg





## Energy 2510 GAS GAS GENERATOR

 230 V AC

- Remote control panel
- Stainless steel hatch
- Removable interior
- 2 attachment systems

Super-silent GAS generators with Yamaha engine, contained in a sound-proofed metal casing. Fully automatic electronic starting system complete with remote control panel with 5 m cable equipped with: total and partial hour counter, oil and gas level indicator lights, overheating indicator with automatic engine stop. Built-in battery charger, 12 Volts/10A. Pull out drawer for easy generator maintenance. 2 fixing system.

The ASP panel allows automatic power on/off if the generator is connected to a battery charger (230/12 Volt) with relative battery.

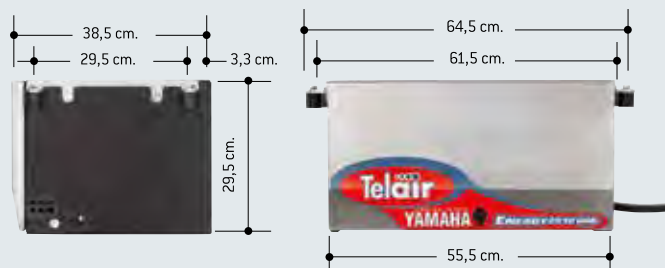


**ASP option**  
Automatic Starter Control Panel



Technical specifications	Energy 2510 GAS
Engine	YAMAHA MZ 175 GAS
2-pole alternator	Syncon
Max. power output	2.5 KW - 230V 10 A / 12 V DC
Frequency	50 Hz
Starting	Electric
Noise level	58 dBA (7m)
Max fuel consumption	0.8 kg/h
Dimensions	29.5x55.5x38.5 cm ▲ ▶ ▼
Weight	60 kg

### ENERGY 2510 GAS






**ASP option**  
Automatic Starter Control Panel



## Energy 2510B PETROL GENERATOR

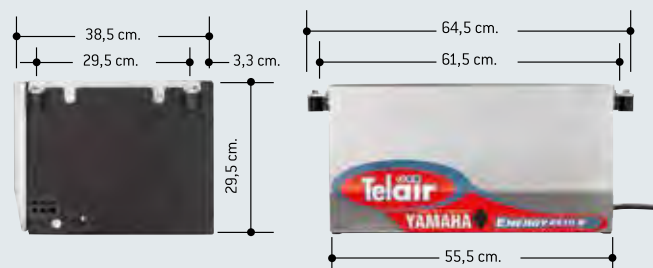
 230 V AC

- Remote control panel
- Stainless steel hatch
- Removable interior
- 2 attachment systems

Technical specifications	Energy 2510 B
Engine	YAMAHA MZ 175
2-pole alternator	Syncron
Max. power output	2.5 KW - 230V 10 A / 12 V DC
Frequency	50 Hz
Starting	Electric / Manual
Noise level	58 dBA (7m)
Max fuel consumption	1.2 L/h
Dimensions	29.5x55.5x38.5 cm ↑ → ↘
Weight	56 kg


Super-silent petrol generators with Yamaha engine, contained in a sound- proofed metal casing. Fully automatic electronic starting system complete with remote control panel with 5 m cable equipped with: total and partial hour counter, oil and petrol level indicator lights, overheating indicator with automatic engine stop. Built-in battery charger, 12 Volts/10A. Pull out drawer for easy generator maintenance. The ASP panel allows automatic power on/off if the generator is connected to a battery charger (230/12 Volt) with relative battery.

### ENERGY 2510 B





## Energy 2510D DIESEL GENERATOR

 230 V AC

- Remote control panel
- Stainless steel hatch
- Removable interior
- 2 attachment systems

GENERATOR with DIESEL engine for extra-low consumption. Can be installed by directly connecting it to the DIESEL vehicle fuel tank, thus making any auxiliary tank unnecessary. Placed in a double sound-proofed metal casing, equipped with a fully automatic electronic starter system with remote control panel and a 5 metre long cable, including: total and partial hour counter plus overheating, oil and fuel level indicator warning lights.

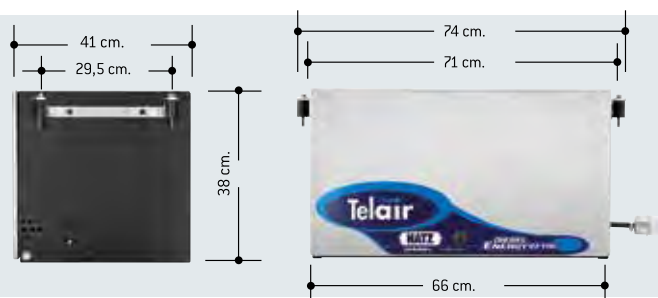


**ASP option**  
Automatic Starter  
Control Panel



Technical specifications	Energy 2510 D
Engine	HATZ 1B20 V
2-pole alternator	Syncon
Max. power output	2.2 KW - 230V 5.0 A / 12 V DC
Frequency	50 Hz
Starting	Electric
Noise level	63 dBA (7m)
Max fuel consumption	1.3 L/h
Dimensions	38x66x41 cm ↑ → ↘
Weight	98 kg

### ENERGY 2510 D





**ASP**  
Automatic  
Starter Control  
Panel

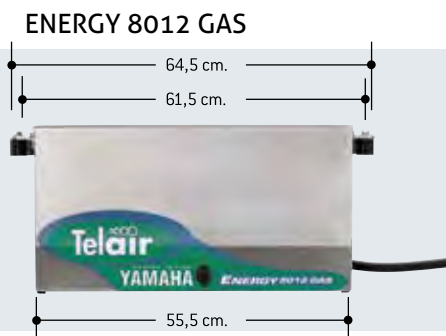
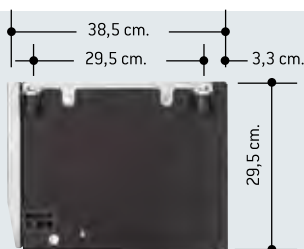
## Energy 8012 GAS GENERATOR

**12V** 12 V DC

- Automatic 12 Volt
- 70 Amp
- 2 attachment systems

Technical specifications	Energy 8012 GAS
Engine	YAMAHA MZ 175 GAS
Max. power output	70 A - 13.5 V DC
Starting	Electric
Noise level	56 dBA (7m)
Max fuel consumption	0.8 kg/h
Dimensions	29.5x55.5x38.5 cm ↑ → ↘
Weight	52 kg

Generator runs on LPG liquid gas and can deliver up to 70 Amps at approximately 13.5 Volts. It can be used as a power supply for a 12 V DC air conditioner, or as a battery charger with an automatic power-on system (when the battery is flat) and power-off system (when the battery is fully recharged). Great care has been taken to ensure a very low noise level by incorporating special sound insulation systems.





# ECOENERGY

TG 480 • TG 480 MEF • TG 600 MEF

**12V** 12 V DC - 480/600 A\*

\*480 / 600 A - Daily production

Very powerful: a battery charger with a charge capacity equal to more than double a fuel cell or a 100W solar panel

Fully automatic:

starts when the battery is running low (11.9 V) and stops when it is charged (14.5 V).

Quiet: thanks to thick soundproof insulation, there is a very low amount of emitted noise (only 51 dBA at 7 m) which is almost imperceptible.

Practical and ecological: just connect it to the gas cylinder already in your camper.

Remote control panel







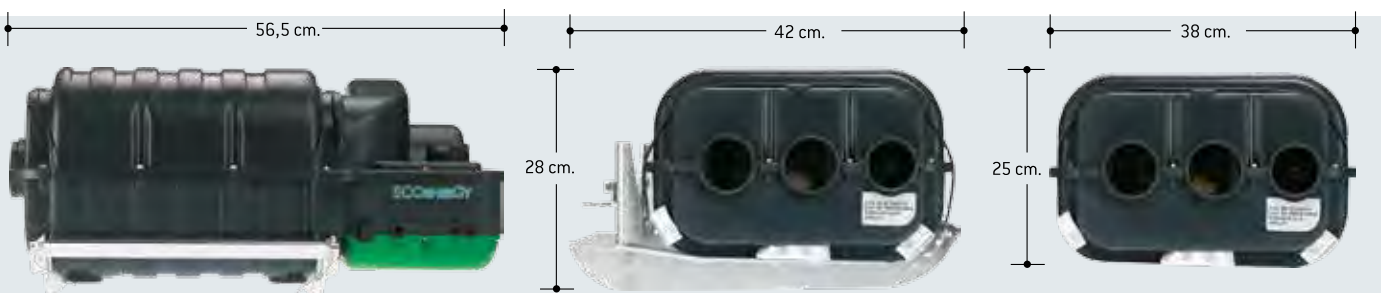
### ECOENERGY CONTROL PANEL

- 1 - Overheating and low oil level warning light
- 2 - ECOENERGY operation phases indicator light
- 3 - Automatic Start and Shutdown
- 4 - Forced Manual Start Button. Used if you wish to switch on the ECOENERGY even if battery voltage is above the minimum threshold of 11.9 Volt. When a voltage of 14.5 Volt is reached the ECOENERGY switches off the engine automatically and reverts to stand-by.

	SOLAR PANEL 100W/h	FUEL CELL 105 W/h	ECOENERGY TG480 240W/H



Technical specifications	ECOENERGY TG 480	ECOENERGY TG 480 MEF	ECOENERGY TG 600 MEF
Automatic operation	Start 11.9 V Stop 14.5 V	Start 11.9 V Stop 14.5 V	Start 11.9 V Stop 14.5 V
Working temperature with propane gas	+50°C - -25°C	+50°C - -25°C	+50°C - -25°C
Rated current A/h	20 A/h (480 A/24h)	20 A/h (480 A/24h)	25 A/h (480 A/24h)
LPG gas fuel	30 mBar ± 2	30 mBar ± 2	30 mBar ± 2
Gas Consumption/Hour	270 g/h	270 g/h	290 g/h
Lube oil consumption	1 L / 115 h	1 L / 115 h	1 L / 115 h
LpA 7 m noise level	51 dBA	51 dBA	52 dBA
Weight	19 kg	19 kg	19 kg
Dimensions without brackets	565x380x250 mm	565x380x250 mm	565x380x250 mm
Recommended batteries	160 - 300 Ah	160 - 300 Ah	160 - 300 Ah
Supplied current can be selected: fixed or variable	–		
High altitude operation up to 2300 m	–		
Connection cable with control unit	5 m	5 m	5 m



# EXTRA

lithium batteries

NEW

## Teleco Lithium Ion batteries (LiFePO<sub>4</sub>)

Innovative Teleco batteries with Lithium Ion technology have been specially designed for leisure vehicles.

Compared to traditional batteries they have numerous advantages:

- They are up to 70% lighter and smaller
- They charge much faster, and can be fully charged in less than an hour
- They are extremely long-lasting. They can be recharged up to 5000 times, practically 10 times more than a traditional lead battery
- They can be fitted in any position
- They allow load starts with extremely high inrush currents
- They are safe thanks to utilisation of Lithium Iron Phosphate (LiFePO<sub>4</sub> or LFP) technology
- They are ecological because they use materials of low environmental impact: they do not use lead or other harmful materials as per the ROHS directive.

### TLI Extra Pro series

TLI Extra Pro (professional) batteries stand out compared to other lithium batteries on the market because of their high energy density: weight and size being equal, they can store much higher quantities of energy.

TLI Extra batteries incorporate a sophisticated Battery Management System (BMS) that controls the voltage of each cell during both during charging/dischARGE, thus increasing its lifespan. The BMS also ensures protection against failure in the event of high temperatures, overloads and excessive discharging.

Key BMS features:

- Integrated CANBUS communication
  - Electronic BMS integrated with programmable I/Os
  - Integrated safety disconnect relay
  - External protection fuse
  - Autosleep mode and wakeup key
  - USB port for diagnostics and error log
  - Control panel (optional) with charge indicator and input/output control from storage mode
- The BMS also ensures protection against failure in the event of high temperatures, overloads and excessive discharging.

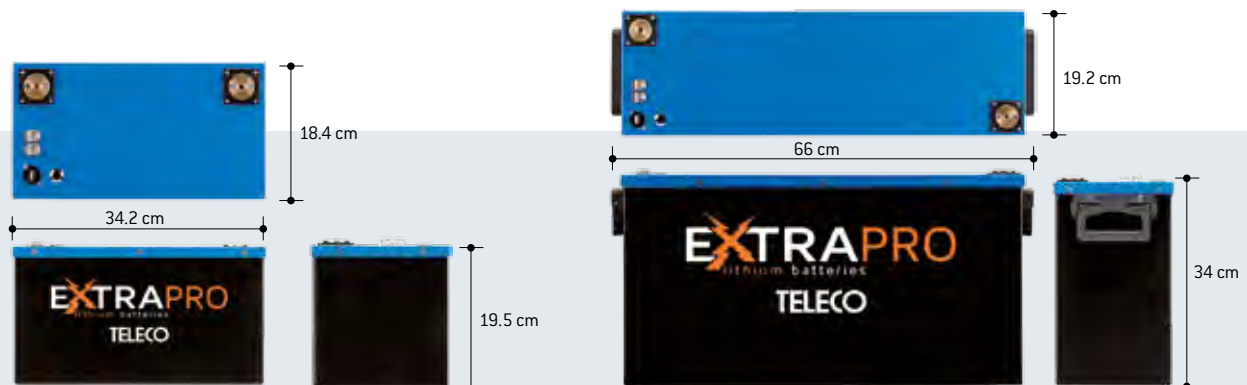
Guaranteed quality:

- Quality control performed at every single stage of production
- Assembled in ITALY
- Latest-generation components





Technical Specifications	TLI Extra Pro 12/105	TLI Extra Pro 12/120	TLI Extra Pro 12/400	TLI Extra Pro 24/200
Rated Voltage	12.8V	12.8V	12.8V	25.6V
Capacity	102 Ah	119 Ah	408 Ah	204 Ah
Energy	1305 Wh	1524 Wh	5223 Wh	5223 Wh
Continuous discharge current	100 Amp	135 Amp	200 Amp	200 Amp
Peak discharge 30s	200 Amp	200 Amp	400 Amp	400 Amp
Recommended charging current @ 25°C	20 Amp	20 Amp	80 Amp	40 Amp
Max charging current @ 25°C	40 Amp	40 Amp	160 Amp	80 Amp
Duration	2500 cycles @ 80% DOD @25°C with residual energy 60% (charge-discharge 1C)			
Lifespan	5/7 years			
Charging voltage	14.4 V	14.4 V	14.4 V	28.8 V
MAX charging voltage	14.6 V	14.6 V	14.6 V	29.2 V
Weight	14.2 kg	15.9 kg	51 kg	51 kg
Dimensions [mm] (terminals and handles included)	342 x 184 x H195	342 x 184 x H195	660 x 192 x H340	660 x 192 x H340
Terminal	Pos. RIGHT M8	Pos. RIGHT M8	Pos. Front M8	Pos. Front M8
Temperature	-20 / +60°C operational; -10 / +35°C for prolonged storage			
Certifications	Electromagnetic compatibility [EN 61000-6-1, EN 61000-6-3]			CE Conformity
Pb. battery equivalent approx.	130 Ah	160 Ah	600 Ah	2x280 Ah





NEW

## TLI Extra series

TLI Extra batteries stand out compared to other lithium batteries on the market because of their high energy density: weight and size being equal, they can store much higher quantities of energy.

TLI Extra batteries have a highly reliable internal Battery Management System (BMS). The BMS ensures battery safety and efficiency by monitoring the temperature of the electronics and the cells and controlling the voltage of each cell to optimise balance. Guaranteed quality:

- Quality control performed at every single stage of production
- Latest-generation components

Technical Specifications	TLI Extra 12/100	TLI Extra 12/160	TLI Extra 12/200
Rated voltage	12.8V	12.8V	12.8V
Capacity	100 Ah	160 Ah	200 Ah
Energy	1280 Wh	2048 Wh	2560 Wh
Continuous discharge current	100 Amp	100 Amp	200 Amp
Recommended charging current @ 25°C	20 Amp	32 Amp	40 Amp
Max charging current @ 25°C	100 Amp	100 Amp	200 Amp
Duration	2000 cycles @ 80% DOD @25°C with residual energy 60% (charge-discharge 1C)		
Lifespan	5/7 years		
Charging voltage	14.6 V	14.6 V	14.6 V
MAX charging voltage	15.4 V	15.4 V	15.4 V
Weight	11.5 kg	22 kg	24 kg
Dimensions [mm]	305 x 169 x 390	484.7 x 169.7 x H240.8	485 x 170 x H241
Terminal	M8	M8	M8
Ambient	0°C / +45°C on charge		-20°C / +60°C for discharge
	-10°C / +50°C for prolonged storage		
Certifications	IEC62133, UN38.3 CE Conformity		
Pb. battery equivalent approx.	130 Ah	220 Ah	280 Ah



NEW

## Battery charger TBC3i PRO 30/20/250

Innovative TBC3i battery chargers offer outstanding construction quality and have a particularly light, compact design that helps save valuable space inside the camper.

Wiring and connections have been minimised to make installation fast and simple.

TBC3i battery chargers consist of a combination of latest-generation units; these include a mains battery charger, a charge converter from the alternator and a charge regulator with MPPT technology for solar panels, ensuring there is always an energy source in the camper.

Batteries are always charged automatically, both during the standby or when driving.

Depending on the model, the integrated charge converter always ensures a complete recharge during both short and, of course, long trips.

All of them have an integrated system to maintain battery charge even during long periods of storage and have eight different charge curves for lead-acid, AGM, GEL and LiFePO<sub>4</sub> batteries.

Their LCD displays have been specially developed for these units and show all the key information.

These battery chargers are compatible with all car park charging units

Operation from mains AC	<b>TBC3i PRO 30/20/250</b>
Rated voltage (AC)	110 V - 230 V / 45 - 65 Hz
Operating range (AC)	90 V - 270 V (max. 305 V, for 5 sec)
Max. absorbed current (AC)	360 W
Service / Start battery charge current	20 A / 4 A
AC Power Limit function	Yes
Charge Converter 12 V/12 V Voltage Max	
Service Battery Charger current	30 A
Automatic D+ activation	Yes
Start battery/Alternator Voltage (Euro 6) / Max. current.	10.5 - 16.5 V / 42 A
Max. current II limit (settable)	25 A
MPPT Solar Regulator	
Solar Module Power (Pmax)	50 - 250 Wp
Solar Module max. current	15 A
Solar Module max. voltage	36 V
Start / Service max. battery charger current	18.0 / 4.0 A
AES cooling terminal	Yes
Starter Battery	
Rated Voltage / Min. recommended capacity	12 V / >60 Ah
Service Battery, IU1oU2oU3	
Lead-acid / LiFePO <sub>4</sub> voltage	12 V / 12.0 - 13.3 V
Battery capacity (settable)	45 - 280 Ah
<b>Specifications</b>	
N. of charge programmes for Lead-Acid / Gel / AGM battery	4
N. of charge programmes for LiFePO <sub>4</sub> battery	4
Start / Service battery voltage sensors	Yes
Temperature compensation (Lead-Acid) / Protection (LiFePO <sub>4</sub> )	Yes
Automatic regeneration (Lead-Acid) / Auto Wake Up (LiFePO <sub>4</sub> )	Yes
Battery Trainer (Pulser) for Lead-Acid Service Battery, can be activated	Yes
LiFePO <sub>4</sub> control input – BMS for charge stop	Yes
Assembly position	All
Operating Temperature	-20 to +45 °C
Variable-speed fan, temperature-controlled	Yes
Gradual charge reduction for Overheating	Yes
Safety Disconnect in the event of Overheating	Yes
Waterproof rating	IP 21
Environmental conditions	Max 95% RH, No Condensation
Dimensions (LxDxH) - incl. assembly flange, without connections	217 x 250 x 85 mm
Weight	2700 g

Supplied: 230 V AC mains cable, 825 temperature sensor, Manual



OPTIONAL

## LCD control panel for TBC3i PRO 30/20/250 battery charger

TCP3i PRO is a control panel that displays the status of the individual power sources, starter battery voltage, service battery voltage and instantaneous charge current. When the solar module is working the display shows instantaneous solar power (W) and energy values (Wh and Ah).

Charging from the AC mains can be activated or deactivated manually or AC Power Limit can be reduced (e.g. in countries where the mains dove protection current is particularly low. A special protection function ensures AC mains charging is reactivated if the service battery is at risk of running completely flat.

The display is illuminated and ensures excellent legibility while consuming very little power.

Assembly is made easy by plug-and-play connection and can be also be completed after installation of the battery charger

The compact design makes it ideal for installation in any part of the vehicle.

Features	TCP3i PRO
Charge phase / Current, Service / Start battery voltage	Yes
AC-Mode (ON / OFF / Limit)	Yes
Solar computer	Yes
Power consumption	3 – 30 mA
Backlight can be deactivated	Yes
Dimensions (HxLxD)	85x80x24 mm
Assembly hole dimensions	70x65x22 mm
Weight	55 g

**Supplied:** attachment screws, manual, drilling template, 5 m cable



## TBC PRO series battery charger

NEW

TBC PRO battery chargers are high performance devices that run on AC mains power supplies (universal range 100 - 240 V AC, 50 - 60 Hz); they have been designed and manufactured to charge TELECO lithium batteries. They have been designed with special functions to charge LiFePO<sub>4</sub> cells. Moreover, they are compatible for use with lead-acid batteries.

Their 500 W power rating shortens charge times considerably.

The battery chargers have a display showing key parameters such as instantaneous voltage, instantaneous current, percentage charge and residual capacity.

Two models are available, one for 12 V batteries and one for 24 V batteries.

These battery chargers are compatible with all car park charging units

Model	TBC PRO 1230	TBC PRO 2417
Rated voltage	14.6 V +/- 0.1 V	29.2 V +/- 0.1 V
Rated current	30 A	17 A
Pre-charge 1 (@2.5 V/Cell)	7.5 A	4.25 A
Pre-charge 2 (@2.9 V/Cell)	15 A	8.5 A
Charge 3 (<30% Rated Current)	8 A	5 A
Power	500 W	
Efficiency	>85 % full charge	
Rated input voltage	100 - 240 V	
Frequency	47 - 63 Hz	
Polarity inversion	Protection with automatic shutdown	
Short Circuit	Protection with automatic shutdown	
Overload	Protection with current limit	
Dimensions (LxDxH)	152x275x70 mm	
Weight	2400 g	

**Supplied:** 230 V AC mains cable, red/black cables with crocodile clips for attachment to battery



**NEW**

## Inverter TI2000/4000 SI-ACT Stark

The TI2000/4000 SI-ACT Stark pure sinusoidal wave inverter is ideal for supplying 230 V power to all on-board appliances of up to 2000 Watt continuous power and 4000 Watt peak power.

It runs on 12 V battery power and, thanks to the ACT (AC Transfer) function, can also work with an external mains power source (where available) with the vehicle parked. The external mains power is given priority; switching is performed automatically to preserve battery power.

The control electronics ensures optimal performance and also provides protection against short circuits and overheating.

Two Schuko output sockets are available; a USB port lets the user charge a mobile device.

### INVERTER with pure sine wave

#### Suggestions for correct use:

- Use an alternator of at least 90A to power a Telair Silent 5400H air conditioner when the vehicle is on the move.
- The service battery must have a capacity of at least 100 Ah

#### TI2000/4000 SI-ACT Stark inverter kit content:

- TI2000/4000 SI-ACT Stark with connection cable to the service battery (35mm<sup>2</sup>, 80 cm)
- Remote control panel and data cable

Specifications	TI2000/4000 SI-ACT Stark
Rated input voltage (AC)	230 V / 50 Hz
Rated input voltage (DC)	12 V
Input operation range (DC)	11 - 15 V
Output wave shape	Pure Sine Wave
Rated output voltage	230 V / 50 Hz
Continuous output power	2000 W
Peak output power	4000 W
Short Circuit / Overload protection	Yes
Size (LxDxH)	232x480x115 mm
Weight	6600 g




NEW

## TE 1700 SI-ACT PRO Inverter

The TE 1700 SI-ACT PRO pure sine wave professional inverter is designed to support the high starting current of air conditioners installed in camping-cars. Perfect for supplying 230 V power to all on-board appliances of up to 1700 Watt continuous power and 3000 Watt peak power.

It runs on 12 V service battery power and, thanks to the ACT (AC Transfer) function, can also work with an external mains power source (where available) with the vehicle parked. The external mains power is given priority; switching is performed automatically to preserve battery power.

The control electronics ensures optimal performance and also provides protection against short circuits, overloads and overheating.

## PROFESSIONAL LINE INVERTER with pure sine wave

MADE IN GERMANY

### Suggestions for correct use:

- Alternator of at least 90A for the supply of an air conditioner Telair Silent 5400H when vehicle is on the move
- The service battery must have a capacity of at least 100 Ah

### TE 1700 SI-ACT PRO inverter kit content:

- TE 1700 SI-AC PRO with connection cable to the service battery (35mm<sup>2</sup>, 1.2 m)
- Fuse carrier (250 A)
- Fuse (225 A)

Features	TE 1700 SI-ACT PRO
Rated input voltage (AC)	230 V / 50 Hz
Rated input voltage (DC)	12 V
Input operation range (DC)	10.5 - 16 V
Output wave shape	Pure Sine Wave
Rated output voltage	230 V / 50 Hz
Continuous output power	1700 W
Peak output power	3000 W
Short Circuit / Overload protection	Yes
Overheat protection	Yes
Dimensions (LxDxH)	265x440x90 mm
Weight	5200 g

## TIG3000, ENERGY Accessories - 230 V AC Generators



**S15**

15 L petrol and diesel tank, complete with filler and reserve indicator.



**S15B**

15 L petrol and diesel tank, complete with filler and reserve indicator.



**SS15**

Tank bracket.



**SP15**

Folding brackets for fuel tank attachment.



**TB40**

Ø 40mm petrol pipe connecting the S15 tank to petrol filler.



**KTB**

Petrol pipe kit for S15 tank



**KTD**

Diesel pipe kit for S15 tank



**TB6 - TB7 - TB5**

TB6 – pipe 6x12 for petrol  
TB7 – 7x13 delivery pipe for diesel  
TB5 – 5x 12 return pipe for diesel



**RB**

Petrol fuel tap with brackets



**FB**

Petrol filter



**CPS**

Protective Cover for Silent/ Dualclima Air Conditioners



**PEC**

Electric fuel pump





**FD**  
Diesel filter



**MSE**  
Spacer box for control panel



**CDR10 - CDR15**  
CDR10 - 10 m panel connecting cable  
CDR15 - 15 m panel connecting cable



**CR**  
Relay for automatic mains power / Energy generator switchover.



**RCB**  
Battery charge adjusting unit.



**KMD**  
90° connecting pipe kit for diesel generator



**MAE/2**  
Additional muffler for petrol generator Energy 2510B and gas generator Energy 2510G.  
Pipe length: 1 m dish



**MAE/4**  
Additional muffler for petrol generator Energy 4010B and gas generator Energy 4010G.  
Pipe length: 2 m



**PM22 - PM30**  
PM 22 - Hose Ø 22 for additional muffler MAE/2  
PM 30 - Hose Ø 30 for additional muffler MAE/4 and Diesel



**RELÈ 12V 200A**  
To temporarily connect the engine battery and service battery

## ECOENERGY accessories - 12 V DC generators

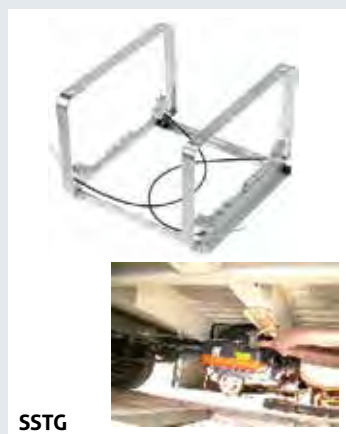
### Installation brackets



**SMTG**  
90° mounting bracket.



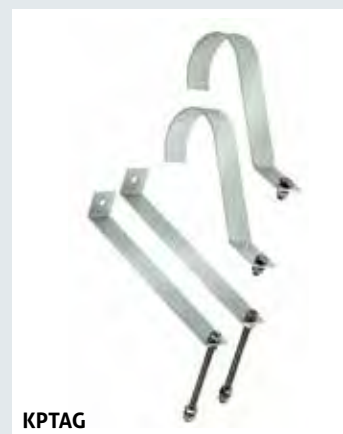
**SPTG**  
Floor fastening.



**SSTG**  
Hung bracket.



**SATG**  
Bracket for AL-KO frame.



**KPTAG**  
Conversion KIT from SPTG to SATG.



**KPSTG**  
Conversion KIT from SPTG to SSTG.



**KESMTG**  
SMTG bracket extension KIT.

### For lubrication

**TGO 1000** - Description: 100% synthetic strawberry-scented special oil for 2-stroke engines. It considerably reduces the emission of smoke and bad smell from the exhaust pipe, keeping the motor clean and always ready to start (0.45 l).



**TGO 1000**



**SOR**  
Remote Oil tank kit.  
Pipe length: 2.7 m

Switches, clamps and cables



**SWTG**  
Disconnecting switch kit for TG 480 / TG 480 MEF / TG 600 MEF



**MB3P**  
3-way multiple clamp for battery Positive Pole (+).



**MB3N**  
3-way multiple clamp for battery Negative Pole (-).

Accessories for intake and exhaust gas



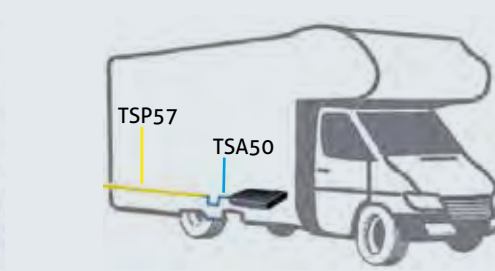
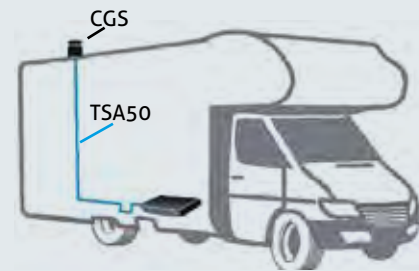
**TSA50**  
Metal exhaust pipe, Ø 50. Standard length: 1 m dish



**TSP57**  
Ø 57 PVC tube for hot air. Standard length: 10 m dish



**MAG**  
Supplementary exhaust 450mm x 70mm



Gas pipes and couplings



**RG8**  
K8x8 gas tap.



**TGF88**  
Gas hose (0.4 m) with olive connectors 8 mm.

Other accessories



**KSS**  
Start threshold kit (12.04 V; 12.18 V; 12.32 V).



**KH**  
Hour counter kit.



## Contacts

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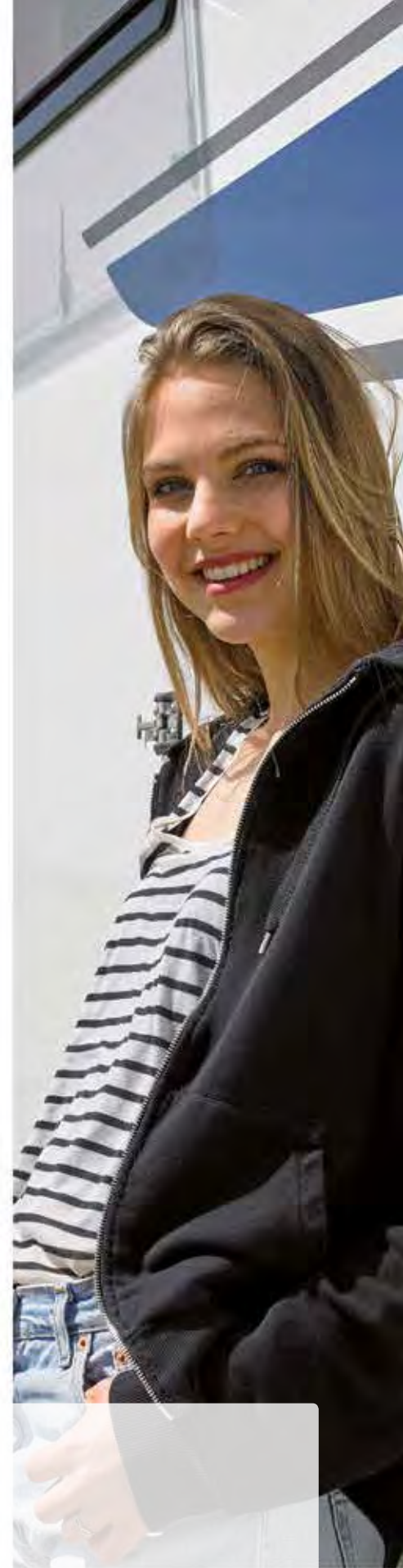
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