

Recreational Vehicles  
Products for your well-being

*Freedom, the way you will like it*

Webasto climate: at home on the road



## *Webasto – the brand for a pleasant climate on board*

Travellers all over the world place their trust in Webasto technology, especially on holiday. This is because our products give you maximum independence and complete relaxation when you are enjoying the great outdoors. Quality, reliability and performance have always been our top priorities. We test our systems regularly in our own climate testing chamber, exposing them to diverse temperatures and weather conditions – including extremes. This enables us to adapt them perfectly to your motor home needs.

All of our engineers know what counts when you're camping – and this is what guides them in their work. The staff of our international recreational vehicle team regularly test Webasto products in practice – on board a motor home. In this way they can find out for themselves what makes an outdoor adventure a relaxing and fun experience.

Our product portfolio ranges from recreational vehicle heating systems to diesel cookers. With our Webasto heating systems in particular we have set standards of comfort for over 50 years. Whether in collaboration with well-known recreational vehicle manufacturers or with our retrofit solutions: millions of satisfied customers rely on the vast experience and professional expertise of Webasto both in their everyday lives and when travelling.

For us at Webasto, it is a matter of top priority and commitment to continue to earn this trust. This is why we are constantly developing and trying out new comfort solutions. We want to continue to be your best holiday companion in the future, ensuring relaxation and enjoyment when you take a break.

*Your Webasto Recreational Vehicle Team*

## The LPG Gas-Free Concept

The gasfree concept is not against LPG gas. It is rather a new way of using a recreational vehicle. Most of today's RVs are diesel powered. So why using and carrying an additional fuel? Thanks to an innovative and intelligent way of using the vehicle fuel, this concept offers several advantages.

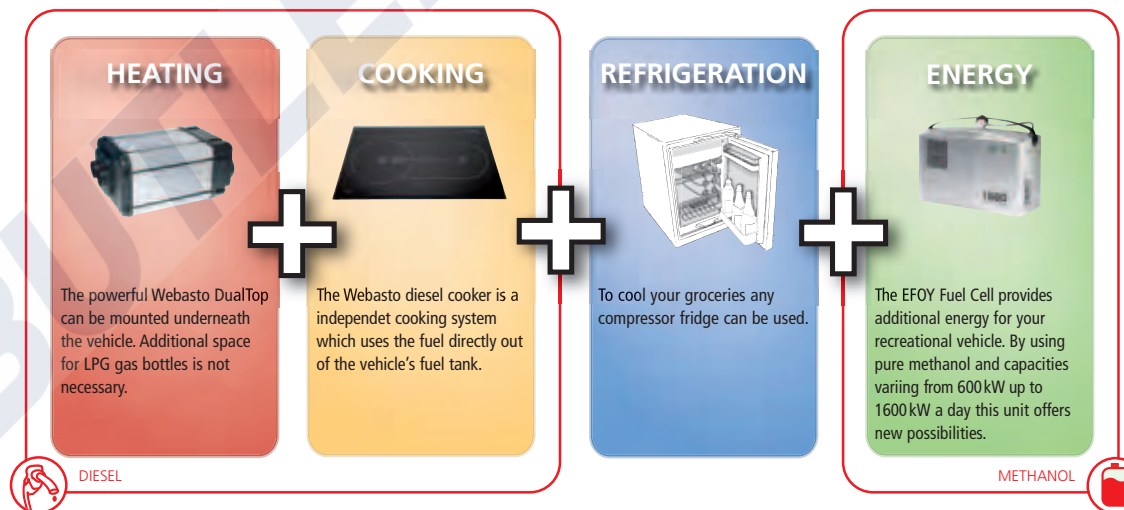
With a diesel powered heater and a 70 l vehicle fuel tank you can easily enjoy a couple of days autonomy. Refilling diesel is definitely no issue worldwide.

With a fuel cell in addition combined with a 5 l methanol canister you can enjoy increased electrical autonomy as this is similar to 5–6 standard batteries.

Enjoy unlimited freedom all over the world.

- *More space inside the recreational vehicle*
- *Less weight, due to missing LPG gas bottles*
- *Fuel autonomy due to the usage of diesel*
- *Energy autonomy due to the usage of a fuel cell*
- *New, different vehicle layouts possible*
- *Perfect climate on board*

*How is it possible to realize a LPG gas-free vehicle?*





## *Simply free with maximum flexibility*

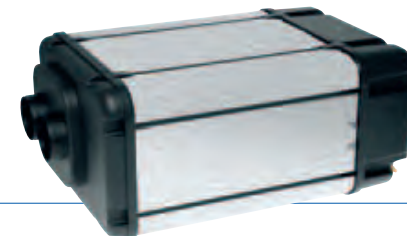
You feel at home anywhere in the world when travelling with a recreational vehicle! And because feeling at home also means feeling good, Webasto has developed a new heater that responds to any climate and individual wish with the perfect output: the new Webasto DualTop. A cosy, warm cabin or a long hot shower – DualTop reliably guarantees both. The integrated air and domestic water heater uses the diesel fuel from the vehicle's tank for heating. It can be installed complete with integrated water tank outside the vehicle for more storage space and personal comfort.

### *Clever heating on the highest technical level*

Apart from the standard model with 6 kW heating capacity, the DualTop is also available with an integrated electrical coil (6 + up to 2 kW) – in two versions for northern and southern climes. The DualTop power management system is state-of-the-art. An ingenious measuring system constantly checks the inside and outside temperature and determines the necessary heater output! The boiler is automatically drained at frost temperatures – even if the device is switched off. The optional AntiFreeze mode prevents the content of the boiler from freezing. So you can feel safe about leaving the vehicle on cold days. Speaking of the boiler: it doesn't heat domestic water up to the normal 60° C but 70° C. Thus guaranteeing a long, hot shower!

### *Individual operation guaranteed*

The models with integrated electrical coil are supplied with digital controls. The standard DualTop with manual control can be retrofitted with a digital control system. Webasto remote controls such as the T91 or ThermoCall can of course be used too.



### Webasto DualTop RHA-100

The standard version of the DualTop with 6 kW heating capacity is directly connected to the vehicle's diesel fuel tank and ensures hot water and a pleasant indoor temperature even off the road.

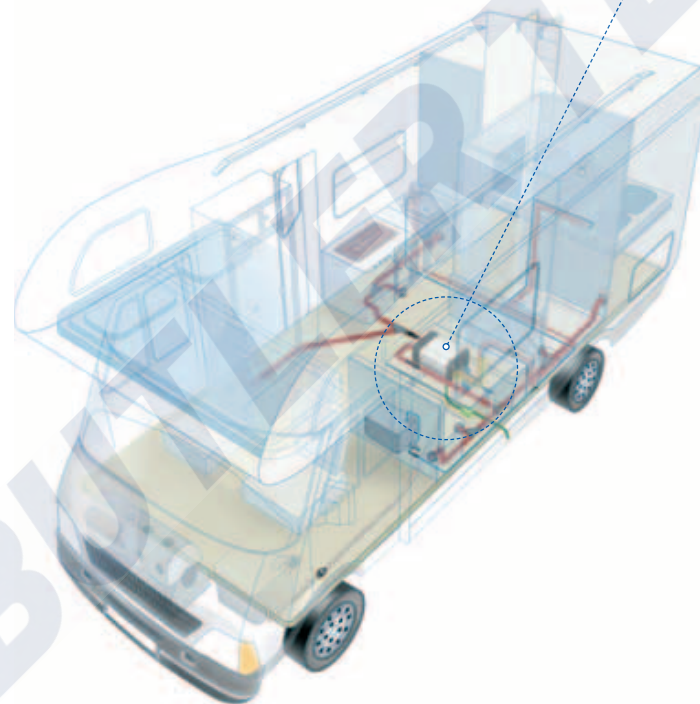
### Webasto DualTop RHA-101

This version has an electrical coil in addition to the diesel heater function. With around 1.2 kW additional heating capacity this heater is predestined for more southern climates in Europe. The heater can be operated via a 230 V connection at the camping site or pitch. Compared to the standard version, this DualTop model is delivered with a digital control.

### Webasto DualTop RHA-102

This heater has been specially developed for colder regions in northern Europe with an electrical coil function with an additional heating capacity of up to 2 kW. Here again, the heater can either be operated with diesel or via the 230 V connection at the camping site or pitch and is controlled with an aesthetic digital controller.

The Webasto DualTop was specially developed for outside installation, but can just as easily be installed in the double floor or inside the motorhome



Warm air is heated up and distributed in the vehicle via two air outlets

The domestic water boiler is connected directly to the fresh water tank

Exhaust pipe with silencer

Fuel lines lead from to vehicle's tank or fuel return line

#### Standard Control

Manual Control unit with temperature controller with choice of various heating modes for domestic water and air, boiler drainage and anti-freeze function.

#### Digital Control

Developed together with end customers. This digital control comes as standard with DualTop RHA-101 and RHA-102. Functions are similar to the manual control plus electric heater activation, programmable timer and remote activation and control.

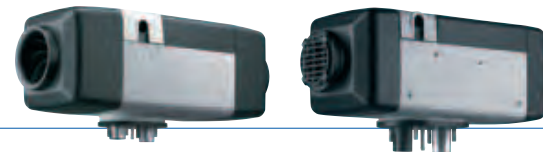


## *Hot air and increased comfort*

When the cold weather sets in, there's nothing like a heating system which provides cosy warmth and operates quickly and powerfully. The Webasto AirTop series of air heaters do just this and are also very simple to operate with a well-designed temperature management system. And there are two more benefits: the air heating systems are virtually noiseless and highly economical in terms of fuel and power consumption. There are no problems with varying pump connectors when travelling through Europe: diesel fuelling is the same everywhere, and LPG gas bottles last up to ten times longer when they are not used for heating. So there's no need to change the LPG gas bottle in the middle of the night any more!

### *Small but powerful*

Thanks to their special qualities, Webasto air heaters are ideal for long trips through Europe, even in the toughest winter weather: they compensate for the common loss of heat in the front section of integrated vehicles even in cold weather. The technically sophisticated regulation system provides continuously variable, precise and constant temperature settings – without any disturbing noise. The heaters are easy to install either inside or outside the vehicle. Due to their compact design, a suitable place can always be found in all types of vehicle, for example underneath the vehicle or under the floor. This is definitely a bonus in terms of living comfort since valuable space does not have to be given up to house the heater. Incidentally, a Webasto air heater can always be installed and operated in addition to conventional heating systems. Webasto air heaters can of course be used while travelling too – without any additional safety precautions.



### AirTop 2000 ST

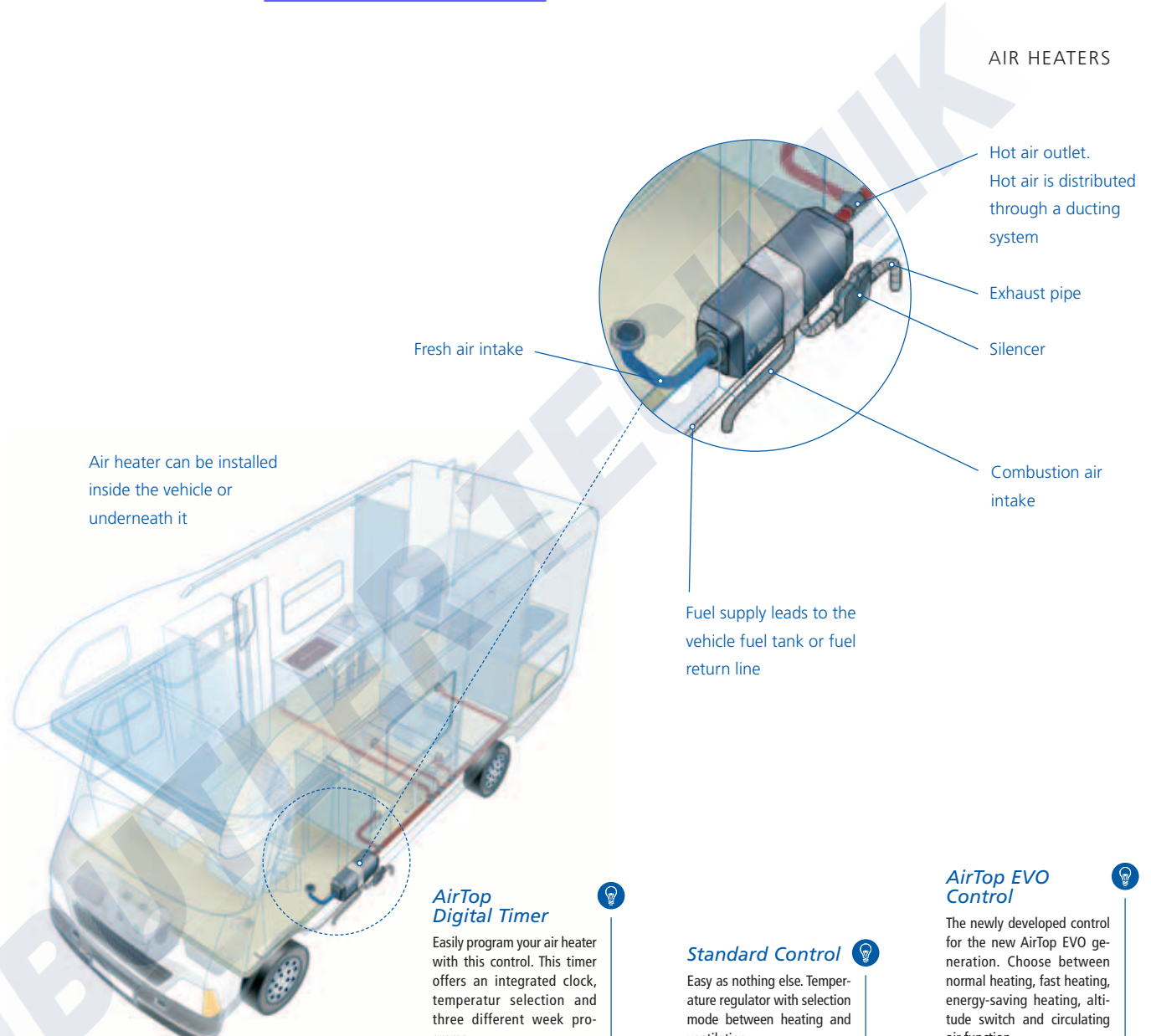
This is the most compact Webasto heater with a heat output of 2 kW. It has an impressively low level of electric power consumption and maximum diesel consumption of just one litre for four hours of full operation. The air heater can be installed in addition to conventional heating systems for optimum comfort. The AirTop 2000 ST should ideally be installed with four air outlets.

### AirTop EVO 3900

The AirTop EVO 3900 is very compact air heater with 3.9 kW and intelligent temperature management. Combined with the EVO control you can enjoy besides an economical heating mode also boost heating, ventilation and high altitude heating vor heights up to 2200 m ASL.

### AirTop EVO 5500

The 5.5 kW heater AirTop EVO 5500 easily heats the complete cabin in any season. Combined with the EVO control you can enjoy besides an economical heating mode also boost heating, ventilation and high altitude heating vor heights up to 2200 m ASL.



#### AIR HEATERS

#### AirTop Digital Timer

Easily program your air heater with this control. This timer offers an integrated clock, temperatur selection and three different week programs.

#### Standard Control

Easy as nothing else. Temperatur regulator with selection mode between heating and ventilation.

#### AirTop EVO Control

The newly developed control for the new AirTop EVO generation. Choose between normal heating, fast heating, energy-saving heating, altitude switch and circulating air function.



## *Cosy warmth all around*

Travelling when and where you want: everybody desires this kind of freedom nowadays. Especially when your recreational vehicle provides you with cosy warmth even in bitterly cold weather. Webasto water heaters meet the very highest standards of intelligent heating and provide a pleasant climate for your well-being.

If you have a large vehicle or an integrated recreational vehicle with a large windscreen, you will be familiar with the problem: due to the high level of heat loss, the driver's cab hardly warms up properly. Webasto has developed a special heater to deal with this: the ThermoTop C Motorcaravan. It supplies warm air directly to the interior via the air outlets in the dash board. In this way, the driver's cab is automatically heated up and the entire vehicle interior can be used freely. The system is integrated in the water cycle of the vehicle engine, ensuring that the engine is always started sparingly – even on cold days. The camping water supply can be heated too.

### *Different power levels to suit individual needs*

Webasto water heating systems are available at various power levels and sizes. In order to ensure that the heat in the vehicle is ideally distributed with this comprehensive solution, other heat exchangers can be incorporated in the system, either static or dynamic. All these functions can be controlled using the operating panel supplied and the remote control. The operating panel allows you to set exact operating times. This avoids unnecessary energy consumption as well as heating the interior perfectly according to individual needs. After all, what could be better than to wake up in beautifully warm camper!





### ThermoTop C Motorcaravan

This independent heating unit combines a high heat output (5 kW) with a very low weight (2.9 kg) and highly compact format. It has been developed for external mounting and is simple to retrofit. The package includes a programmable timer and a control switch for engine and interior heating, enabling individualised comfort settings.

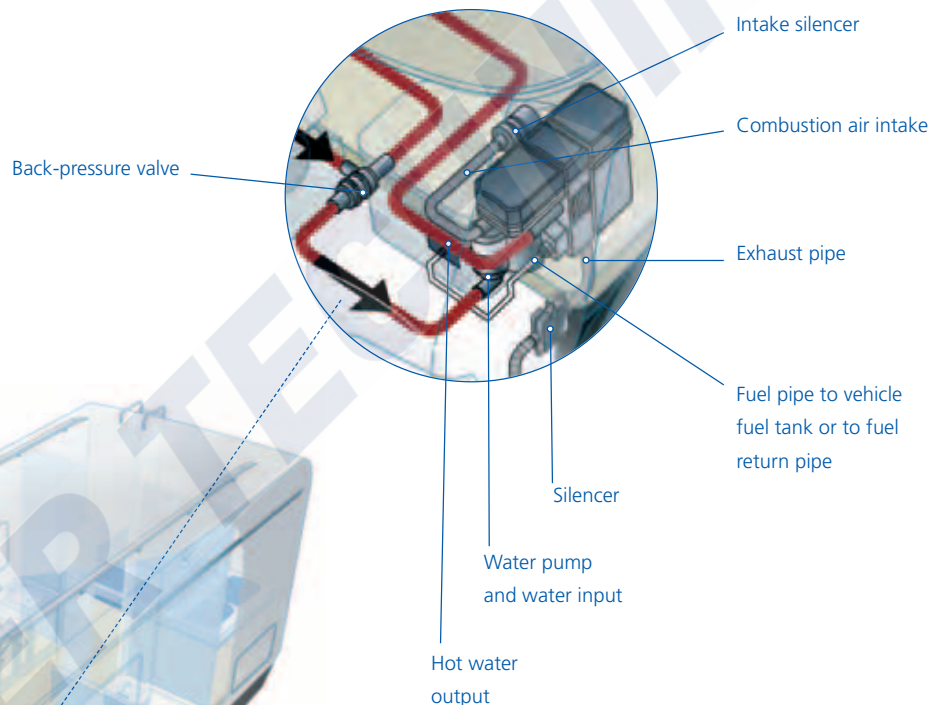
### Thermo 90 ST

This water heater for large vehicles provides maximum output of 9 kW and is fitted with a sophisticated control system for all vehicle heating functions. It has a surprisingly low weight (just 4.8 kg) and is very compact, so it is simple to mount on the outside of the vehicle too.

Water heater can be installed in the engine compartment to save space



### WATER HEATERS



#### Thermo 90 Digital Timer

Thermo 90 ST timer with integrated clock temperature selection and three different week programs.



#### ThermoTop Digital Timer

Simple digital timer for the ThermoTop C Motorcaravan to activate heating, either directly or at a pre-set time.





## *Clever comfort for individualists*

If you wish to cook in your motor home, you don't need to lower your standards in terms of functionality and design. The Webasto Diesel Cooker X100 is the perfect solution for those who require a smart solution which also works off the beaten track.

The product's benefits go far beyond its technical qualities. The combustion of the diesel fuel creates heat which is conducted to a CERAN® cooking plate – the heat is distributed evenly so the usual smells and open flames are a thing of the past. Exhaust and combustion fumes are channelled directly outside the vehicle. The one-flame cooker offers one area to cook and one to warm up meals and easily fits two sauce pans or pots.

The Webasto Diesel Cooker can be installed in all recreational vehicles. Its optimised dimensions make it especially suitable for recreational vehicles which are compact and fast, and which have limited interior space. Users who like to move around a lot in their camper and not always stay at the same site will prefer a small, compact vehicle with smart interior solutions: the Webasto Diesel Cooker X100 will be of particular interest here.



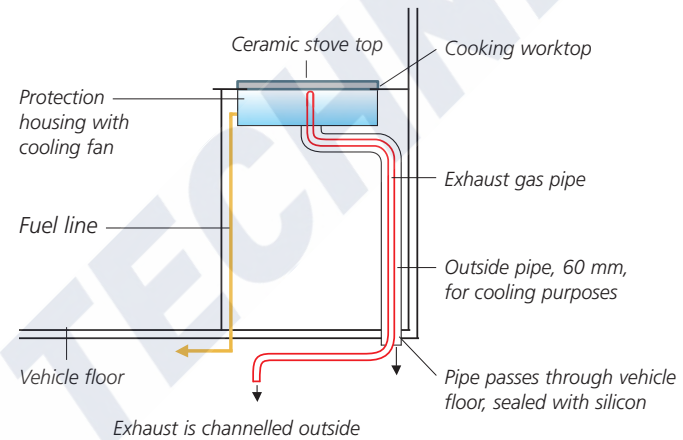
### The Diesel Cooker X100

The integrated diesel burner heats the CERAN® cooking plate, which provides space for two saucepans or frying pans. The appliance is simple to use with continuous variable temperature preselection and an altitude switch for use in the mountains. A warning light indicates if the CERAN® plate is still hot.

### How the Webasto Diesel Cooker works

The Diesel Cooker X100 is a safe diesel cooking plate without open flame. The heat generated by the diesel combustion is transferred to the ceramic plate. A waste gas line inside the cooling air pipe discharges the gases outside the vehicle. There is therefore no additional moisture generated inside the vehicle from the steam content of the gases. The heat level of the diesel cooker is continuously variable. A cooling ventilator in the ventilator box also ensures that the temperature in the installation area does not rise excessively. The warm air is channelled away through the cooling air pipe.

### Installation plan:



### Advantages at a glance:

- You don't need to bring any other fuel to cook
- Easy to use
- Low fuel and electrical power consumption
- High altitude switch for use in mountainous regions

### Cooker Control

Set the temperature for the diesel cooker in several steps by the turn of a knob. An additional height switch ensures smooth combustion up to 1500 m ASL.



## Energy anytime, anywhere!

The EFOY Fuel Cell represents a genuine revolution. Anyone who enjoys the great outdoors appreciates the advantages of an electricity supply – always and everywhere – regardless of season and weather.

Unlike conventional electricity generators, EFOY is absolutely silent and maintenance-free. EFOY comes in four models and is absolutely easy to use. Producing 600, 900, 1200 or 1600 Wh/day, the fuel cell generates enough electricity to meet any requirement.

### **Extremely quiet!**

EFOY fuel cells are so quiet that they won't even interrupt your sleep. You'll hear next to nothing if the fuel cell is installed in the sub floor.

### **Ultra light!**













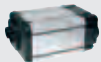





EFOY – finally you can take enough power with you for several weeks. Never before has electricity been this light.


### **Always Available!**


EFOY fuel cells work around the clock, fully automatically, regardless of the season or the weather so that you can enjoy all the comforts of home.



Decision guidance – air and water heaters

Vehicle types	Motorhome Type "Camper"		Motorhome Type "Semi-integrated"			Motorhome Type "Top bank"			Motorhome Type "Integrated"			Motorhome Type "Over 7.5 t"
												
Lengths	Compact	Size	6.5 m	7 m	7.5 m	6.5 m	7 m	7.5 m	6.5 m	7 m	7.5 m	over 7 m
DualTop 												
AT 2000 ST 												
AT EVO 3900 												
AT EVO 5500 												
TT-C 												
Thermo 90 ST 												

 Use as main heater

 Use as additional heater alongside existing unit (e.g. LPG gas)

### *How Webasto air heaters work*

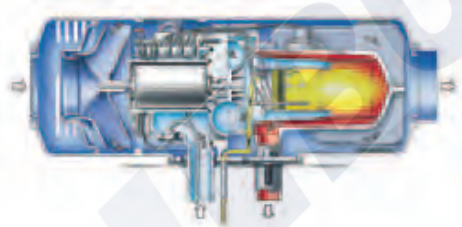
When the unit is switched on, the dosing pump feeds fuel from the vehicle fuel tank to the heater. Here the fuel is automatically ignited by means of a glow plug. If combustion does not occur immediately, the unit automatically repeats the start-up procedure. In the combustion chamber, a flame is lit which heats up the heat exchanger. The unit takes air in from the outside for combustion purposes and the combusted exhaust air is discharged to the outside.

During heating, the integrated fan takes in the air to be heated through the inlet and feeds it through the unit. As the air flows through the heat exchanger, it heats up and is then distributed through the outlet.

The connected hot air pipes now spread the air evenly throughout the vehicle interior. Due to the unit's own separation of the combustion cycle from the heat cycle, there is no impairment of the quality of the hot air.

A temperature sensor constantly measures the interior temperature and adapts the heating level by automatically adjusting the amount of air passing through the unit. In this way, the temperature selected by the user is rapidly reached and maintained at a constant level.

After the unit has been switched off, the combustion process is terminated in a controlled manner. For this purpose, the unit briefly goes into re-run mode to cool itself down. It is then immediately ready for restarting.



### *How Webasto water heaters work*

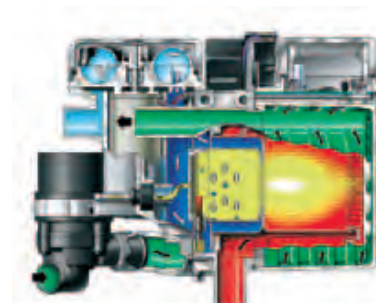
When the unit is switched on, the dosing pump feeds fuel from the vehicle fuel tank to the heater. Here the fuel is automatically ignited by means of a glow plug. If combustion does not occur immediately, the unit automatically repeats the start-up procedure. In the combustion chamber, a flame is lit which heats up the heat exchanger. The unit takes air in from the outside for combustion purposes and the combusted exhaust air is discharged to the outside.

During heating, an internal circulation pump feeds the water-glycol mixture through the unit. As the air flows through the heat exchanger, it heats up. In the connected water circulation system, heat exchangers then transfer the energy to the interior and the engine.

Once the vehicle interior or engine has warmed up, the heat requirement is reduced and the water temperature continues to rise. At a pre-set temperature threshold, the unit reduces output at this moment or goes into standby mode.

The heating procedure automatically restarts when the water temperature drops below a certain level. The unit thus adapts the heat output automatically to the heat requirement.

After the unit has been switched off, the combustion process is terminated in a controlled manner. For this purpose, the unit briefly goes into re-run mode to cool itself down. It is then immediately ready for restarting.



### Technical specifications

Type	AirTop 2000 ST	AirTop EVO 3900	AirTop EVO 5500
EC licence number	e1*2001/56*0022*_	e1*2001/56*0015*_	e1*2001/56*0016*_
Heating power	0.9 - 2.0 kW	1.5 - 3.9 kW	1.5 - 5.5 kW
Fuel, fuel consumption	Diesel, 0.12 - 0.24 l/h	Diesel, 0.18 - 0.49 l/h	Diesel, 0.18 - 0.75 l/h
Rated voltage	12 V	12 V	12 V
Rated power consumption	14 - 29 W	15 - 45 W	15 - 116 W
Max. heat volume flow (against 0.5 mbar)	93 m <sup>3</sup> /h	132 m <sup>3</sup> /h	200 m <sup>3</sup> /h
Dimensions (L x W x H)	311 x 120 x 121 mm	423 x 148 x 162 mm	423 x 148 x 162 mm
Weight incl.	2.6 kg	5.9 kg	5.9 kg
Radius of air outlet	60 mm	90 mm	90 mm
Radius of exhaust gas outlet	22 mm	24 mm	24 mm

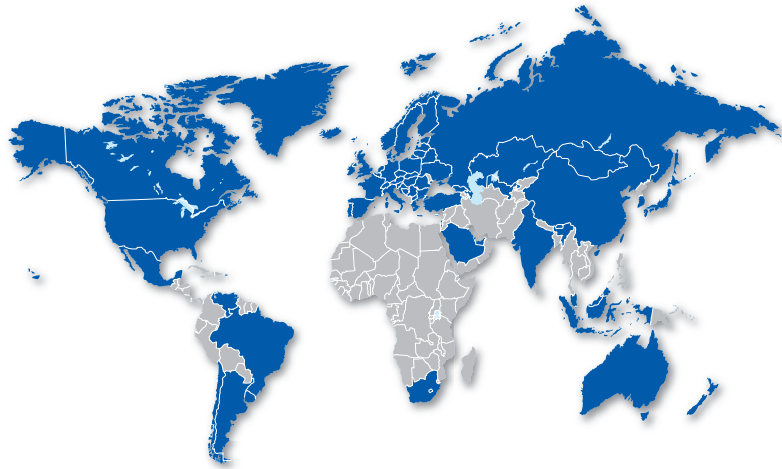
Type	DualTop RHA-100	DualTop RHA-101	DualTop RHA-102
EC licence number	e1*2001/56*2006/119*0195*00	e1*2001/56*2006/119*0195*00	e1*2001/56*2006/119*0195*00
Heat flow	1.2 - 6.0 kW	0.6 - 7.2 kW	1.0 - 8.0 kW
Fuel, fuel consumption	Diesel, 0.19 - 0.66 l/h	Diesel, 0.19 - 0.66 l/h	Diesel, 0.19 - 0.66 l/h
Rated voltage	12 V (min. 9.0 - max. 15.0)	12 V (min. 9.0 - max. 15.0)	12 V (min. 9.0 - max. 15.0)
Rated power consumption	12 - 60 W	12 - 60 W	12 - 60 W
Max. heat volume flow (against 0.5 mbar)	> 200 m <sup>3</sup> /h	> 200 m <sup>3</sup> /h	> 200 m <sup>3</sup> /h
Dimensions (L x W x H)	530 x 350 x 250 mm	530 x 350 x 250 mm	530 x 350 x 250 mm
Weight incl.	19 kg	19 kg	19 kg
Boiler capacity	11 l	11 l	11 l
Special features	Smart Power Selection: the instant heating power is being selected according to the energy demand of the cabin (depending on vehicle dimensions, external and internal temperature.)		

Type	ThermoTop C	Thermo 90 ST
EC licence number	e1*2001/56*0022*_	e1*2001/56*0019*_
Heating Power	2.5 - 5.2 kW	1.8 - 7.6 kW (Boost mode 9.1 kW)
Fuel, fuel consumption	Diesel, 0.3 - 0.61 l/h	Diesel, 0.19 - 0.9 l/h
Rated voltage	12 V	12 V
Rated power consumption	18 - 42 W	37 - 83 W (Boost mode 90 W)
Max. water volume flow	500 l/h (against 0.14 bar)	700 l/h (against 0.30 bar)
Dimensions (L x W x H)	214 x 106 x 168 mm	352 x 131 x 232 mm
Weight	2.9 kg	4.8 kg

### Technical specifications Diesel Cooker

Type	Diesel Cooker X100
Cooking power	900 - 1900 W
Fuel, fuel consumption	Diesel, 0.09 - 0.19 l/h
Rated voltage	12 V
Power consumption	0.3 A (3.6 Watt) max. at start-up approx. 8 A for 4 mins
Start-up time	~ 3 min
Dimensions of Ceran cooking plate (L x W x H)	460 x 310 x 5 mm
Dimensions of protective casing (L x W x H)	560 x 360 x 150 mm (2 cm waste air nozzle)
Weight	8 kg (cooker unit) 1.5 kg (lower cover panel)

## Webasto and holidays go together – worldwide



Webasto is one of the world market leaders in the automotive supply industry. We are now represented in over 40 countries, where we work with various subsidiaries and representatives. Over 6,000 Webasto staff are dedicated to the synergies of mobility and well-being worldwide. In order to ensure an international presence for our customers, we are constantly expanding our network in Europe and throughout the world.

Even 100 years on, Webasto is still a family company with its headquarters in Stockdorf, Munich. We combine tradition and innovation, the past and the future. The values we share throughout our constantly growing company and beyond national borders are our high quality standards, an innovative spirit and the pleasure of mobility.

Enjoy the independence of your recreational vehicle. Experience the world and savour the comfort of Webasto products with you on board!

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