

PARKING COOLERS | COMMERCIAL AND SPECIAL VEHICLES

# COOLTRONIC – CLIMATE CONTROL WITH THE ENGINE SWITCHED OFF



COOLTRONIC



A WORLD OF COMFORT





**Cooltronic 1000 G2.5 Slim Hatch**  
1,000 W variant now available in a special  
flat slim version for easy installation.





## IDEAL CONDITIONS FOR THE DRIVER – AND YOUR BUDGET

Along with our pre-heaters, our parking coolers also form part of our comprehensive climate control systems for use during breaks and rest periods, creating a comfortable atmosphere whether the engine is running or switched off. What's more, an electrically powered Cooltronic parking cooler offers you significant savings on diesel consumption compared with a unit that operates with the engine idling. Choose from the widest range on the market and see for yourself how impressively easy it is to install our current 'Hatch' models.

### OPPRESSIVELY HOT CAB? IT DOESN'T HAVE TO BE!

Cool things down cost-effectively with a parking cooler from Eberspächer. Retrofitting an Eberspächer parking cooler pays dividends for both drivers and carriers. Our Cooltronic series models provide a pleasantly cool temperature while also reducing humidity in the cab. And their major advantage is that unlike standard climate control solutions which only work with the engine running, their compressor technology is battery-powered and therefore completely independent of the engine. The units are designed to consume very little energy, and have integrated undervoltage protection so that the engine can be reliably started at any time. This not only prevents annoying idling noises and CO<sub>2</sub> emissions, but also saves fuel and therefore money.

Cooltronic is available for three basic installation positions:

The 'Back' version for the rear wall, the 'Top' version for the roof, and the 'Hatch' version for installation in the vehicle's roof hatch.

With **six different models** for 24 V applications, Eberspächer has one of the **most comprehensive ranges of parking coolers** on the market.

### AN INNOVATIVE DESIGN FROM EXPERIENCED SPECIALISTS:

Eberspächer has been optimising climate control solutions in vehicles for decades. In addition to satisfying our customers' demands for comfort and safety with our innovative heating concepts for passenger cars, commercial vehicles, boats and motor homes, protecting resources is also a top priority for us. This allows us to help ensure that transport systems are highly efficient, even when resources are in short supply. The aim of cooling vehicle interiors without the use of the engine is to create the best possible working atmosphere at a reasonable cost. This enables us to make an important contribution to reducing costs for transport companies, for example.



Fig.: Cooltronic 1000/1400 G2.5 Hatch





## COOLTRONIC PARKING COOLERS – THE FACTS SPEAK FOR THEMSELVES

The advantages of the Cooltronic series are obvious: they are easy to install, unobtrusive, environmentally friendly, and save you money by consuming less fuel when the vehicle is stationary. And after a good night's rest, the driver is much fresher and sharper at the wheel.

### CLEAR-CUT COST SAVINGS:

It is no longer necessary to run the vehicle's engine at night or during other breaks in order to allow the air conditioner to function. This makes a noticeable difference to fuel consumption, so the acquisition and installation cost pays for itself in no time.

### SIMPLE AND QUICK INSTALLATION:

The Cooltronic series is specially designed for rapid, straightforward installation. The Hatch models, in particular, are easy to install in the existing roof hatch. The three-step installation process is so simple that experienced workshop technicians can complete it in just a few hours. The units come with pre-installed vents and pre-filled closed systems.

### ENVIRONMENTALLY FRIENDLY COOLING WITH THE ENGINE SWITCHED OFF:

It is no longer necessary to run the vehicle's engine at night or during other breaks in order to allow the air conditioner to function. Cooltronic works when the engine is off. This protects the environment and the engine.

### WELL-BEING, COMFORT AND BETTER PERFORMANCE:

Thanks to its innovative technology, Cooltronic functions perfectly well when the windows are closed. Heat, humidity, dust, noise and annoying insects stay outside. This ensures a peaceful and pleasant sleep for the driver, improves performance the next day and reduces the risk of accidents.

### LOW CONSUMPTION:

Cooltronic consumes only a little energy, which protects the vehicle battery. And its integrated undervoltage protection ensures that there is enough electricity to start the engine at all times.

### NO MAINTENANCE:

The advanced Cooltronic technology does not require any expensive maintenance – no time-consuming visits for servicing and no water refilling. We simply recommend that the system is operated regularly, even in the cooler months (it can only be used at temperatures over 17 °C), in a similar way to passenger car air conditioners.

### POWERFUL FAN:

The powerful Cooltronic fan quickly cools the cab to a pleasant temperature, even during brief breaks – completely independently of the engine.

### ALL FOR ONE:

Eberspächer is backed by a highly effective sales and customer service network throughout Europe, so you are sure to find a competent contact in your neighbourhood.



**SAMPLE CALCULATION OF COST SAVINGS:**

The following calculations show how much you could save by using an electrically powered Cooltronic parking cooler compared with an air conditioner that operates with the engine idling:

**1 truck**

Savings in litres of diesel per year	3,168	litres
<b>Savings in euros per year*</b>	<b>3,484.80</b>	<b>euros</b>
Annual reduction in CO <sub>2</sub> emissions	8.3	tons

**Fleet of 5 trucks**

Savings in litres of diesel per year	15,840	litres
<b>Savings in euros per year*</b>	<b>17,424</b>	<b>euros</b>
Annual reduction in CO <sub>2</sub> emissions	41.7	tons

**Fleet of 20 trucks**

Savings in litres of diesel per year	63,360	litres
<b>Savings in euros per year*</b>	<b>69,696</b>	<b>euros</b>
Annual reduction in CO <sub>2</sub> emissions	166.6	tons

\* Eight hours a day when the truck is parked, 22 working days per month, 6 working months per year when an air conditioner is needed. 1.10 euros per litre of diesel. Average consumption with the engine idling is three litres per hour.

**COOLTRONIC G2.5 HATCH MODELS: PERFECT INDEPENDENT COOLING IN JUST THREE STEPS**



**1**

Remove roof hatch, insert unit



**2**

Screw in



**3**

Connect



## A FACELIFT FOR THE SECOND GENERATION: G2.5 SIMPLIFIED INSTALLATION, A REDESIGNED DISPLAY AND ADR COMPLIANCE COOLTRONIC 1000 G2.5 HATCH COOLTRONIC 1400 G2.5 HATCH – APPROPRIATE FOR EVERY NEED

### COOLTRONIC 1000 G2.5 HATCH:

- For all cabs and applications with 1,000 watts cooling performance
- Very lightweight, aerodynamic system
- Simple and quick installation in the roof hatch
- Uniform cooling throughout the cab
- Energy-efficient control
- Universal or vehicle-specific installation kit necessary for installation (on request)
- ADR compliant
- Unit factory-filled with R134a refrigerant

### COOLTRONIC 1400 G2.5 HATCH:

- Powerful system with a cooling performance of 1,400 watts
- Optimum cost effectiveness
- For large cabs and hot outdoor temperatures
- Simple and quick installation in the roof hatch
- Uniform cooling throughout the cab
- Optimised energy efficiency through adapted electronics
- Universal or vehicle-specific installation kit necessary for installation (on request)
- ADR compliant
- Unit factory-filled with R134a refrigerant

*Technical data on page 10*

### PRODUCT PACKAGE:





## EXTREMELY FLAT AND COMPACT

### COOLTRONIC 1000 G2.5 SLIM HATCH COOLTRONIC 1400 G2.5 SLIM HATCH

#### COOLTRONIC 1000 G2.5 SLIM HATCH:

- For all cabs and applications under moderate climate conditions
- Very lightweight, aerodynamic system
- For use where space is limited; the cab height only increases slightly (> 12 cm)
- Simple and quick installation in the roof hatch
- Uniform cooling throughout the cab
- Energy-efficient control
- Universal or vehicle-specific installation kit necessary for installation (on request)
- ADR compliant
- Unit factory-filled with R134a refrigerant

#### COOLTRONIC 1400 G2.5 SLIM HATCH:

- Maximum performance with minimal height and low weight
- For use where space is limited; the cab height only increases slightly (> 12 cm)
- Simple and quick installation in the roof hatch
- Uniform cooling throughout the cab
- Optimised energy efficiency through adapted electronics
- Universal or vehicle-specific installation kit necessary for installation (on request)
- ADR compliant
- Unit factory-filled with R134a refrigerant

*Technical data on page 10*

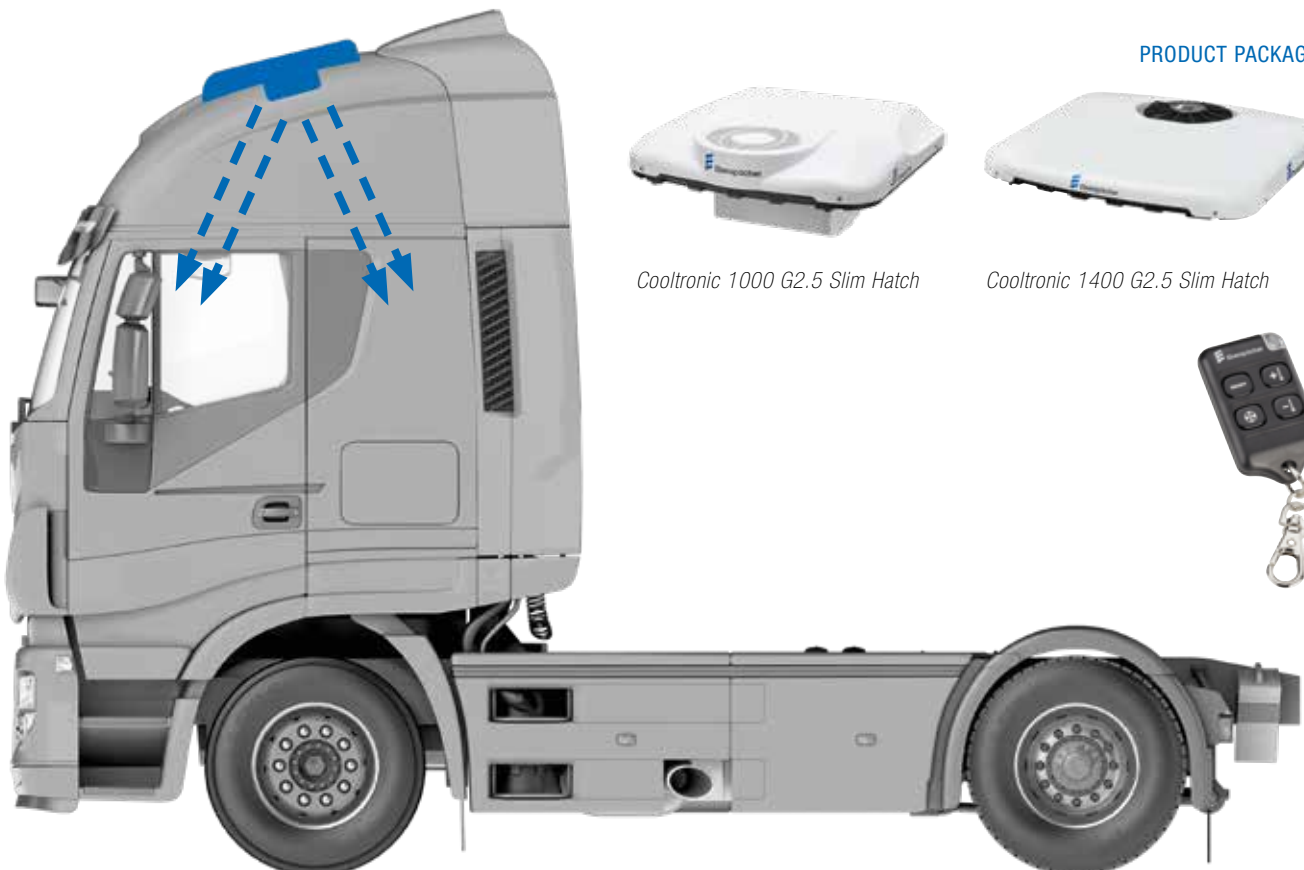
#### PRODUCT PACKAGE:



*Cooltronic 1000 G2.5 Slim Hatch*



*Cooltronic 1400 G2.5 Slim Hatch*





## COOLTRONIC BACK

### PRODUCT PACKAGE:



### COOLTRONIC BACK:

- Split unit with exterior unit and interior unit (evaporator)
- The exterior unit is mounted on the cab rear wall
- The evaporator is installed on the inside of the rear wall
- Version for the rear wall permits more effective cooling of the rear cab area.
- Flexible length cooling hose (max. 3 m)
- It may be possible to lay the hoses without having to drill holes (in specially pre-equipped vehicles)

*Technical data on page 11*







## COOLTRONIC TOP

### COOLTRONIC TOP:

- Split unit with exterior unit and interior unit (evaporator)
- The exterior unit is installed on the rear part of the roof
- The evaporator is installed on the inside of the rear wall
- Specially recommended for commercial vehicles with fixed cargo compartments
- Provides the best possible cooling result in the rear cab area
- Invisible if a spoiler is installed on the roof
- Flexible length cooling hose (max. 3 m)

*Technical data on page 11*






### PRODUCT PACKAGE:





## TECHNICAL DATA

### COOLTRONIC – IDEAL VENTILATION FOR A MOBILE WORKPLACE

EBERSPÄCHER COOLTRONIC						
Designation		Cooltronic 1000 G2.5 Hatch	Cooltronic 1400 G2.5 Hatch	Cooltronic 1000 G2.5 Slim Hatch	Cooltronic 1400 G2.5 Slim Hatch	Cooltronic 1000 G2.5 Slim Hatch MAN
Product code		81 0000 09 0000	81 0000 20 0000***	81 0000 07 0000	81 0000 21 0000***	81 0000 16 0000
Cooling performance (ISO 5151)						
Cooling performance (IMACA 200)	W	880 1,010	1,290 1,430	910 –	1,360 1,620	910 –
Refrigerant		R134a (CFC-free) <i>pre-filled</i>				
Voltage (DC)	V	24				
Fan settings		5 speeds				
Max. fan output*	m <sup>3</sup> /h	800		700	970	700
Electricity consumption/hour at 26.5 V	A/h	17.6 (max.) 9 (min.)	18.5 (max.) 10.5 (min.)	17.7 (max.) 9 (min.)	18 (max.) 10 (min.)	17.7 (max.) 9 (min.)
Air output on fan setting 5 (system)	m <sup>3</sup> /h	235		200	240	200
Device dimensions (L x W x H)	mm	740 x 826 x 208		740 x 788 x 122**	874 x 897 x 116	1,059 x 790 x 146
Weight (system)	kg	26	29.5	25	31	28
Battery protection		standard double protection				

\* Static pressure

\*\* With base plate M

\*\*\* With new electronics

Universal or vehicle-specific installation kits are available for Cooltronic G2.5 Hatch models on request. They are listed in a special overview.



**EBERSPÄCHER COOLTRONIC**

		Cooltronic Back	Cooltronic Top
Designation		Cooltronic Back	Cooltronic Top
Product code		81 0000 00 0142	81 0000 00 0143
Cooling performance*	W	950 (max.) 650 (min.)	950 (max.) 650 (min.)
Refrigerant		R134a (CFC-free)	R134a (CFC-free)
Voltage (DC)	V	24	24
Fan settings		6 speeds	6 speeds
Max. fan output**	m³/h	450	450
Electricity consumption/hour at 24 V	A/ h	14.5 (max.) 7.5 (min.)	14.5 (max.) 7.5 (min.)
Condenser dimensions (L x W x H)	mm	463 x 187.5 x 696	646 x 434 x 196
Weight	kg	23.5	23.5
Evaporator dimensions (L x W x H)	mm	626 x 108 x 260	626 x 108 x 260
Weight	kg	5	5
Battery protection		Standard	Standard

\* Data determined at a cab temperature of 40 °C and an external temperature of 32 °C.

\*\* Static pressure

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