

CLIMATE COMFORT | COMMERCIAL AND SPECIAL VEHICLES

# COOLTRONIC – AIR CONDITIONING WITH THE ENGINE SWITCHED OFF



COOLTRONIC



A WORLD OF COMFORT







## IDEAL CONDITIONS FOR THE DRIVER

Along with our pre-heaters, our parking coolers also form part of our comprehensive air conditioning systems for use during breaks and rest periods, creating a comfortable atmosphere whether the engine is running or switched off.

### A WELL-RESTED DRIVER IS A SAFER DRIVER:

Hot summer nights in the cab can be extremely unpleasant. High temperatures prevent peaceful sleep and impair the driver's performance the next day.

The air conditioning systems Cooltronic from Eberspächer ensure that a comfortable temperature is maintained and also reduce humidity. And the particular advantage is that: The system works completely independently of the engine, **unlike conventional air conditioning solutions**. This not only saves fuel, but also protects the environment. The driver can also begin the day full of energy again after a relaxing night. Not to mention the fact that the atmosphere in the cab is always comfortable, even at other times when the truck is stationary in the summer months.

Cooltronic is available in three basic installation positions: the version for the rear wall "**Back**", the roof version "**Top**" and the "**Hatch**" version for installation in the vehicle's roof hatch.

There are currently three new hatch model versions available – and thus the appropriate parking cooler for every need:

- **Cooltronic 1000 G2 Hatch:** for all cabs in moderate climate conditions
- **Cooltronic 1400 G2 Hatch:** for large cabs or high outside temperatures
- **Cooltronic 1400 G2 Slim Hatch:** compact air conditioning system with an extremely low outline; especially suited for vehicles with high cabs, in order to keep within height restrictions, and for Euro 6 vehicles

Consequently, Eberspächer has a large range of parking coolers with a total of five different models for 24 volt applications.

### AN INNOVATIVE DESIGN FROM EXPERIENCED SPECIALISTS:

Eberspächer has been optimizing air conditioning 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 Hatch



## THE FACTS SPEAK FOR COOLTRONIC

A vehicle should be cooled in the most unobtrusive and environmentally friendly way possible. Cooltronic also saves money.

### 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.

### 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 car air conditioning systems.

### SIMPLE AND QUICK INSTALLATION:

Cooltronic was designed especially for simple, quick installation. The Cooltronic Hatch systems, for example, are supplied ready to operate with an CFC-free coolant. There is no need to weld connecting pipes or refill with coolant.

### INTELLIGENT ENGINEERING:

Cooltronic functions with a condenser unit mounted on the outside of the cab. It is not necessary to open the window.

### POWERFUL FAN:

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

### LOW CONSUMPTION:

Cooltronic consumes only a little energy, which protects the vehicle battery. Integrated under-voltage protection ensures that there is enough electricity to start the engine at all times.

### 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 neighborhood.

**EXAMPLE CALCULATION OF COST SAVINGS:**

The following amounts can be saved by using an electrically operated Cooltronic parking cooler system as opposed to an air conditioning system that is operated with the vehicle engine idling:

**1 truck**

Savings in liters of diesel per year	3,168	liters
Savings in euros per year*	<b>3,484.80</b>	<b>euros</b>
Annual reduction in CO <sub>2</sub> emissions	8,331.84	kilos

**Fleet of 5 trucks**

Savings in liters of diesel per year	15,840	liters
Savings in euros per year*	<b>17,424</b>	<b>euros</b>
Annual reduction in CO <sub>2</sub> emissions	41,659.20	kilos

**Fleet of 20 trucks**

Savings in liters of diesel per year	63,360	liters
Savings in euros per year*	<b>69,696</b>	<b>euros</b>
Annual reduction in CO <sub>2</sub> emissions	166,636.80	kilos

\* Eight hours a day when the truck is parked. 22 working days per month. 6 working months per year when an air-conditioning system is needed. 1.10 euros per liter of diesel. Average consumption with idling engine is three liters per hour.





## NEW DEVELOPMENT

### COOLTRONIC 1000 G2 HATCH

### COOLTRONIC 1400 G2 HATCH – APPROPRIATE FOR EVERY NEED

#### COOLTRONIC 1000 G2 HATCH:

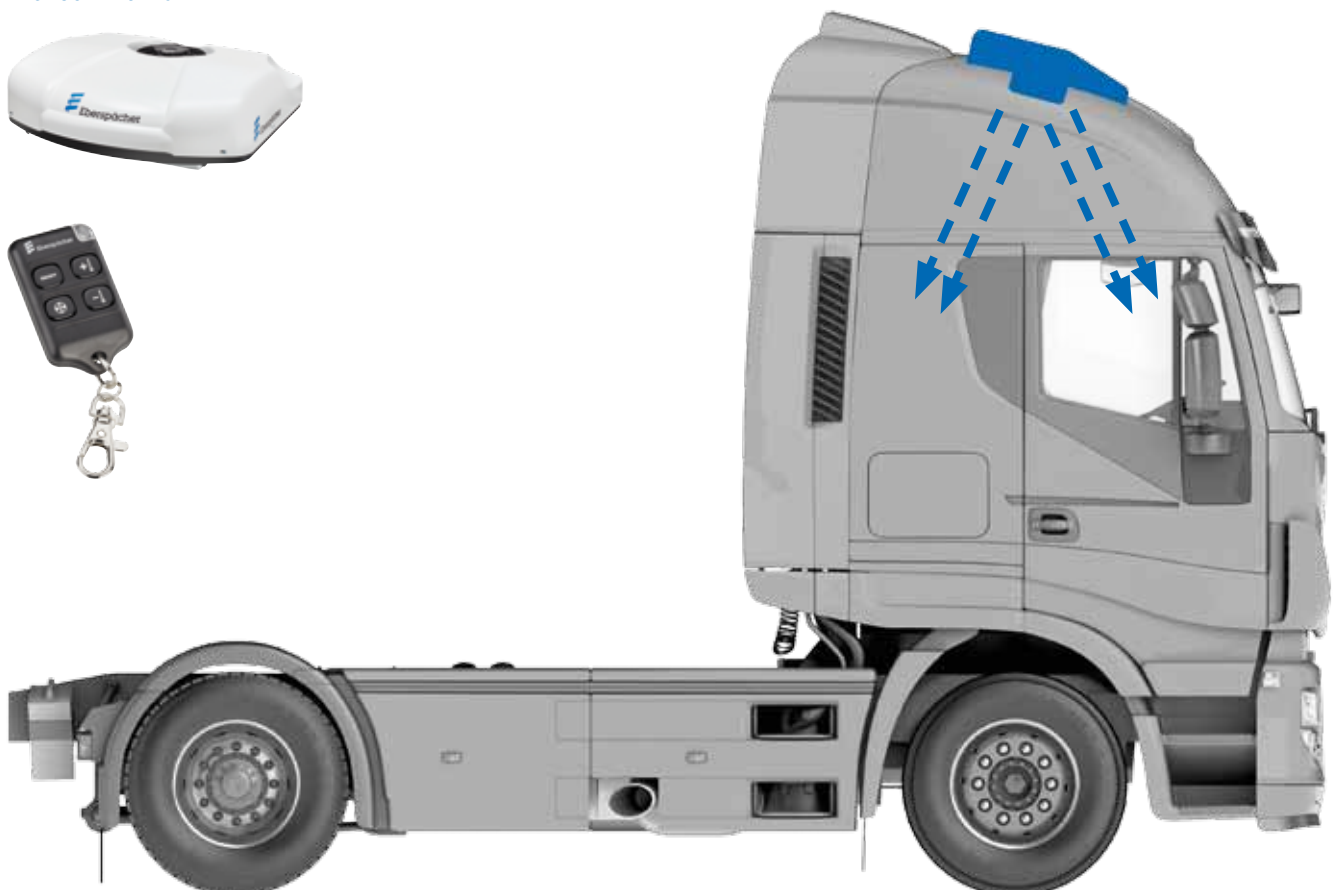
- For all cabs and applications with 1000 watts cooling performance
- Very simple and aerodynamic system
- Simple and quick installation in the roof hatch
- Uniform cooling of the entire cab
- Universal or vehicle-specific installation kit necessary for installation (on request)
- Unit is factory-filled with the R134a coolant

#### COOLTRONIC 1400 G2 HATCH:

- Powerful system with a cooling performance of 1400 watts
- Optimum cost effectiveness
- For large cabs and hot outdoor temperatures
- Simple and quick installation in the roof hatch
- Uniform cooling of the entire cab
- Universal or vehicle-specific installation kit necessary for installation (on request)
- Unit is factory-filled with the R134a coolant

*Technical data on page 10*

#### PRODUCT PACKAGE:





## COOLTRONIC 1400 G2 SLIM HATCH – EXTREMELY SLIM AND COMPACT

### COOLTRONIC 1400 G2 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 of the entire cab
- Universal or vehicle-specific installation kit necessary for installation (on request)
- Unit is factory-filled with the R134a coolant

*Technical data on page 10*

### PRODUCT PACKAGE:





## COOLTRONIC BACK

### PRODUCT PACKAGE:



### COOLTRONIC BACK:

- Split system 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 rear 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 Hatch	Cooltronic 1400 G2 Hatch	Cooltronic 1400 G2 Slim Hatch
Product code		81 0000 01 0000	81 0000 02 0000	81 0000 03 0000
Cooling performance*	W/ btu	1000 3412	1400 4777	1400 4777
Coolant		R134a (CFC-free) <i>pre-filled</i>		
Voltage (DC)	V	24		
Fan stages		5 speeds		
Blower air flow max.**	m <sup>3</sup> /h	800		970
Electrical consumption/h at 26.5 V	A/ h	17.6 (max.) 9 (min.)	18.5 (max.) 10.5 (min.)	18 (max.) 10 (min.)
Unit air flow at Speed 5	m <sup>3</sup> /h	235		240
Device dimensions (L x B x H)	mm	826 x 740 x 208		874 x 897 x 116
Weight (unit)	kg	26	33	39,5
Battery protection		Standard double protection		

\* Data determined according to JIS standard, cabin temperature 27 °, Outside temperature 35 °.

\*\* static pressure

For Cooltronic G2 Hatch models are universal and vehicle-specific kits available on request.



EBERSPÄCHER COOLTRONIC			
Designation		Cooltronic Back	Cooltronic Top
Product code		81 0000 00 0142	81 0000 00 0143
Cooling performance*	W/ btu	950/3250 (max.) 650/2240 (min.)	950/3250 (max.) 650/2240 (min.)
Coolant		R134a (CFC-free)	R134a (CFC-free)
Voltage (DC)	V	24	24
Fan stages		6 speeds	6 speeds
Blower air flow max.**	m <sup>3</sup> /h	450	450
Electrical consumption/h at 26.5 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 according to JIS standard, cabin temperature 27 °, Outside temperature 35 °.

\*\* static pressure

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