Comforatable Conditions. Everywhere and at all Times.

With efficient heating and cooling controls from the one source
Always the right setting.

An overview of our heating and cooling systems’ different operating modes:

Front protection

In the case of minus temperatures, the carriage interior is kept at a constant temperature of +21 °C to avoid frost, even outside of passenger operation. At temperatures down to -40 °C, temperatures up to 90 °C, and even temperatures up to +45 °C, frost protection is guaranteed even when the carriages are empty.

Preheating the engine

A preheated engine starts more reliably, consumes significantly less fuel, and leads to a reduced wear and tear on the engine. The energy-saving preheating starts automatically at a time calculated by the control unit.

Preheating

This mode preheats the carriages and the driver’s cabin prior to operation from +7 °C to a pleasant +21 °C without use of an external power supply*. The energy-saving preheating starts automatically at a time calculated by the control unit.

Frost protection

An overview of our heating and cooling systems’ different operating modes:

The integrated Webasto diagnostic and maintenance software.

The right answer for every temperature.

Your benefits.

Optimising the temperature management system

The central control unit regulates the individual heating and cooling components, and adapts for the most efficient operating modes for the respective temperatures.

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Automated operation

The hybrid heating system ensures a great heat output during pre-heating. Start of the hybrid heating system has been optimised to ensure that the engine reaches its operating temperature of 80 °C, and this means that additional energy savings can be achieved.

Pre-cooling

In the case of minus temperatures exceeding +21 °C, the air-conditioning systems are engaged prior to start of operation to cool the carriages. Through its takeover of the cooling specialists Diavia, Webasto now has twice the expertise when it comes to air-conditioning systems. For summer and winter.

Driver’s cabin HVAC

Passenger carriage HVAC

Conectors

Maximum comfort: Optimise the ventilation

Ventilation and cooling systems offer your passengers the most comfortable travel conditions, and ensure that your train drivers can enjoy the best working conditions, whatever the weather outside.

Optimising the temperature management system

The central control unit regulates the individual heating and cooling components, and adapts for the most efficient operating modes for the respective temperatures.

Integrated diagnostic and maintenance software

The integrated Webasto diagnostic and maintenance software gives you a quick and easy overview of all your heating and cooling systems in one place. As well as providing all relevant information about your systems, the software also allows you to display all relevant messages provided by the ventilators, alarms, the control unit, and the systems themselves. In the case of external temperatures exceeding +21 °C, the air-conditioning systems are engaged prior to start of operation to cool the carriages.

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All in one: Heating system Thermo 230/300/350

Your benefits.

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