

eBTM 2.0

Universal Plug & Play Electrical Battery Thermal Management Unit



» Cooling

Under stress or in warm weather conditions

» Heating

In extremely cold ambient conditions

» Pre-Conditioning

During battery charging phases

» Balancing

Dynamic temperature adjustment during driving phases

The Webasto eBTM is a stand-alone Battery Thermal Management Unit which ensures optimal functioning of water-cooled battery packs used in electrical commercial vehicles and ensures ideal battery cell performance over the long term.

The unit has been designed in accordance with numerous customers' requirements and has been perfectly tuned for applications in busses, trucks, construction and light commercial vehicles. Although the dimensions of the unit are extremely compact (1,000 x 700 x 300 mm), all components needed for both heating and cooling are already included. This means that pumps, valves and DC/DC-converter are already integrated, which underlines the simple Plug&Play principle.

Compact design also allows flexible installation so the unit can be mounted in any position. Same temperature levels in every battery pack can be achieved by smart coolant distribution. A stable temperature of battery packs positively effects battery charge consumption, as well as uniform and predictable wear of components.

- **Cooling capacity: 8 kW**
- **Heating capacity: 10 kW**
- **Plug & play installation**
- **Maximum 3,600 l/h coolant flow**
- **400 / 800 V DC**
- **R1234yf with low GWP**
- **Roof-top and chassis installation**
- **Low voltage power supply included on board**
- **Exceptionally high dimension/power ratio**