Thermion

BATTERY THERMAL MANAGEMENT SYSTEMS
FOR ELECTRIC VEHICLES

hispacold

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The BTMS (Battery Thermal Management System) maintains the battery temperature within the optimal operating range, ensuring its efficiency and increasing its lifetime.

Hispacold has a wide range of plug and play BTMS equipment adapted to work in the most adverse conditions, that respond to the different battery requirements in different applications. In addition, Hispacold has an intelligent regulation system specially adapted to the specific control strategies of each type of BMS (Battery Management System).

BTMS EG2

BTMS PW2

BTMS Gen 3

BTMS Gen 3.1

TECHNICAL DATA

Maximum cooling capacity	**6 kW**	**9-12 kW**	**7,5-10 kW**	**8-11 kW**
Outside temperature	**45 ºC**	**45 ºC**	**45 ºC**	**45 ºC**
Coolant outlet temperature	**15 ºC**	**15 - 35 ºC**	**15 - 35 ºC**	**15 - 35 ºC**
Coolant flow rate (*)	**3600 l/h**	**1800-3600 l/h**	**1800-3600 l/h**	**1800-3000 l/h**
Maximum heating capacity	**6 kW**	**6 kW**	**8 kW**	**8 kW**
Operation temperature limit (**)	**60 ºC**	**60 ºC**	**55 ºC**	**58 ºC**
Maximum electrical consumption:				
Compressor	**3.8 kW — 7.5 A**	**6 kW — 9.8 A**	**6.9 kW — 11.6 A**	**6.9 kW — 11.6 A**
Fan	**1.4 kW — 60 A**	**0.53 kW — 22 A**	**0.51 kW — 21 A**	**0.51 kW — 21 A**
Heater	**6.0 kW — 10 A**	**6.0 kW — 10 A**	**8.0 kW — 13 A**	**8.0 kW — 13 A**
Weight (max.) without loading coolant	**148 kg**	**190 kg**	**75 kg**	**79 kg**
Voltage (compressor/fan/heater)	**400 V AC / 24 V DC / 600 V DC**	**400 V AC / 24 V DC / 600 V DC**	**400-800 V DC / 24 V DC / 400-800 V DC**	**400-800 V DC / 24 V DC / 400-800 V DC**
Dimensions (L x W x H)	**1060 x 675 x 463 mm**	**1060 x 755 x 463 mm**	**1110 x 755 x 394 mm**	**1120 x 1020 x 340 mm**
Refrigerant	**R134a**	**R134a**	**R134a**	**R134a**
Refrigerant charge	**1.2 kg**	**1.1 kg**	**1 kg**	**1 kg**

(*) According to the pressure drop of the hydraulic circuit. (**) Coolant temperature 35 ºC

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PRODUCT FEATURES

DESIGN

- Compact, for cooling and heating requirements.
- Brushless ventilator fans.
- High efficiency.
- System with the ability to adapt to different types of vehicles from commercial transport to high-capacity vehicles.
- Plug and play.
- Possibility of refrigeration for stationary charge and opportunity charge batteries.
- Minimum consumption adapting to the demand of the battery at all times.
- High efficiency increasing vehicle autonomy.
- Operating in cooling and heating mode.

MAINTENANCE

- Maintenance friendly. Easy access for preventive and corrective maintenance.
- System compatible with different communication platforms. CAN, J1939.

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HVAC systems performing in more than **100 countries** across the five continents

more info

Avda. Hacienda San Antonio 1
41016 Sevilla - Spain.
T. +34 954 677 480

hispacold.es