

## BATTERY THERMAL MANAGEMENT SYSTEMS FOR RAILWAY VEHICLES

# T101

## BTMS RAIL FOR BEMU



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## TECHNICAL DATA

Maximum cooling capacity	10 kW
Maximum outside temperature	55°C
Nominal cooling capacity	8 kW
Coolant outlet	20°C
Outside temperature	35°C
Coolant flow	70 l/m
Power consumption	400 VAC
Cooling	4.72 kW
Heating	4.00 kW
Circulation	2.72 kW
Weight (max.) without coolant-carrying components	256 kg
Voltage (compressor/fans/heater)	380 VAC
Dimensions (L x W x H)	1450 x 1212 x 565 mm
Refrigerant R513A Filling charge	2.7 kg

## PRODUCT FEATURES

### DESIGN

- > Hermetic plug & play unit for roof mounting.
- > Ultra light weight and reduced dimensions.
- > Temperature sensors included in the units.

### THERMAL MANAGEMENT

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).

### MAINTENANCE

- > Advanced microprocessor controller:
  - Electronic unit inside the HVAC.
  - Web server based maintenance software integrated in the electronic unit.
- > RS485 and open CAN available as standard.
- > Standard Ethernet port (support DHCP or fixed IP).
- > System variables monitoring and errors log.
- > Interactive troubleshooting.
- > Easy and accesible maintenance from above.



**Optimized  
life-cycle costs**

## STANDARDS

- > Vibrations Certificate according to CEI/ICE 61373:1999 Standard.
- > EMC according to UNE-EN 50121-3-2 Standard and Declaration of Conformity according to 2004/108/EC Directive.
- > Performance according to EN 50155 Standard for electronic device.
- > RAMS based on EN 50126.
- > Fire and smoke standards: EN 45545, NF F 16101 - NF F 16102, UNI-CEI 11170.
- > IRIS Certificate: ISO/TS 22163.

# World presence



Amsterdam	Cuiabá	London	Oslo
Antalya	De Lijn	Lugano	Quito
Augsburg	Edinburgh	Lund	Saint-Étienne
Barcelona	Essen	Luxembourg	Sarajevo
Basel	Genoa	Malaga	Sardinia
Belgrade	Granada	Manila	Schönbuch
Birmingham	Halle	Marseille	Sidney
Bonn	Hannover	Mauritius Islands	Stockholm
Bucharest	Istanbul	Mexico City	Szeged
Budapest	Jerusalem	Milan	Toluca
Cádiz	Kaohsiung	Monterrey	Taiwan
Cagliari	Kayseri	Myanmar	Tallinn
Cairo	Liege	Naples	Utrecht
Canberra	Lisbon	New South Wales	Vitoria

**Hispacold** is a company of Irizar Group SC, which employees more than 3500 people and has a global turnover of more than 700 Million €. This gives Hispacold the benefits from a multinational organization while maintaining an individual company spirit.

**Hispacold HVAC systems are running in all five continents and in more than 100 countries.**

more info

