

BATTERY THERMAL MANAGEMENT SYSTEM (AIR-COOLED CONDENSER)

Combining state-of-the-art, proprietary Modine heat exchanger technology with tailored smart electronic products, the EVAntage A-CON BTMS delivers a complete solution, designed to fit any chassis. With the included master thermal controller and Modine-developed firmware, our compact system is proven to deliver maximum cooling at the lowest power draw.



CUSTOMIZABLE

Multiple configurations for different space constraints and cooling capacity



FLEXIBLE

Different mounting options – roof, chassis, body – available testing



WEATHER-SAFE

Designed for harsh environments – IP67 ingress protection, corrosion resistant materials, fully sealed wiring harness, rigorous validation testing



RELIABLE

Modine patented fail-safe system for maximum system reliability



CONVENIENT

Included master thermal controller with Modine-developed firmware and SAEJ1939 CAN communications



EASY MAINTENANCE

Included Maintenance and Diagnostics Software for system monitoring, diagnostics message data logging and preventative maintenance tracking



PERFECT FOR MULTIPLE VEHICLE APPLICATIONS

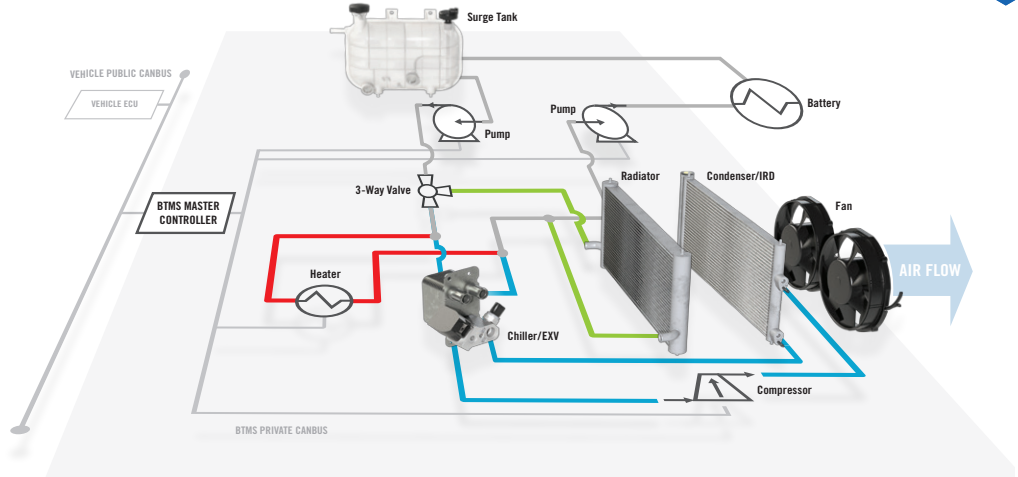




Our products are designed and tested at our headquarters in Racine, WI; and manufactured in Lawrenceburg, TN.

3-STAGE COOLING AND HEATING FOR OPTIMIZED OPERATION

With multi-stage cooling and heating, the EVantage A-CON BTMS optimizes the temperature range for an entire bank of batteries with a single unit in all types of environments – from hot summer afternoons to icy winter mornings.



A-CON BATTERY THERMAL MANAGEMENT SYSTEM

TECHNICAL DATA



TECHNICAL DATA

	Heavy Duty (24V, 10kW) MOD-52-24-P-10	Heavy Duty (12V, 10kW) MOD-52-12-P-10
Status	In Production	In Production
Active Cooling Circuit	10 kW	10 kW
Cooling Capacity @		
Outside Temperature	46°C	46°C
Coolant Outlet Temperature	35°C	35°C
Coolant Flow	3,600 l/h	3,600 l/h
Passive Cooling Circuit	10 kW	10 kW
Cooling Capacity @		
Outside Temperature	10°C	10°C
Coolant Outlet Temperature	25°C	25°C
Coolant Flow	3,600 l/h	3,600 l/h
Maximum Power Consumption		
High Voltage (Heating)	10 kW	10 kW
High Voltage (Cooling)	4.5 kW	4.5 kW
Low Voltage	1.9 kW	1.9 kW
Voltage Inputs		
High Voltage	450 - 860 V	450 - 860 V
Low Voltage	24 V	12 V
Heater Capacity	0-10 kW	0-10 kW
Weight (Max.) without Coolant	79 kg	79 kg
Communication Interface	CANBUS J1939	CANBUS J1939
Dimensions (L x W x H)	1093 x 657 x 350 mm	1093 x 657 x 350 mm
Refrigerant	R134a/R1234yf	R134a/R1234yf
Additional Features	Surge Tank Durable UV-Resistant Paint High-Voltage Circuit Protection	Surge Tank Durable UV-Resistant Paint High-Voltage Circuit Protection

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