

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

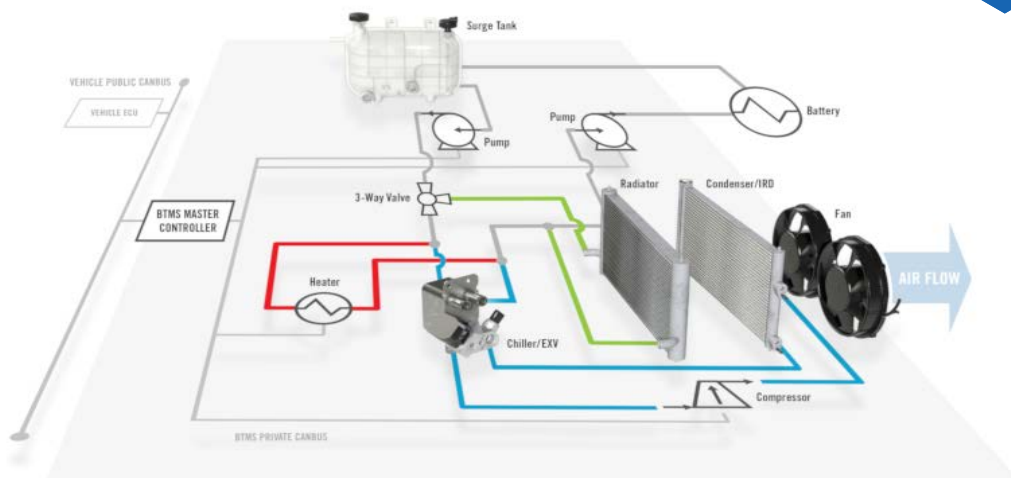


Our products are designed and tested at our headquarters in Racine, WI; and manufactured in Lawrenceburg, TN.



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.



EVANTAGE™ L-CON BATTERY THERMAL MANAGEMENT SYSTEM TECHNICAL DATA

	Lightweight (24V, 3kW) MOD-24V-24-A-08	Lightweight (24V, 10kW) MOD-50-24-A-08	Heavy Duty (24V, 10kW) MOD-50-24-P-08	Heavy Duty (12V, 10kW) MOD-50-12-P-08
Status	In Production	In Production	In Production	In Production
Active Cooling Circuit	3 kW	10 kW	10 kW	10 kW
Cooling Capacity @				
Outside Temperature	44°C	44°C	44°C	44°C
Coolant Outlet Temperature	25°C	35°C	35°C	35°C
Coolant Flow	1,200 l/h	3,600 l/h	3,600 l/h	3,600 l/h
Passive Cooling Circuit	No	No	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)	8.0 kW	8.0 kW	8.0 kW	8.0 kW
High Voltage (Cooling)	2.0 kW	6.0 kW	6.0 kW	6.0 kW
Low Voltage	1.7 kW	1.7 kW	2.4 kW	2.4 kW
Voltage Inputs				
High Voltage	450 - 785 V	450 - 785 V	450 - 785 V	450 - 785 V
Low Voltage	24 V	24 V	24 V	12 V
Heater Capacity	0-8 kW	0-8 kW	0-8 kW	0-8 kW
Weight (Max.) without Coolant	60 kg	62 kg	85 kg	85 kg
Dimensions (L x W x H)	1136 x 664 x 390 mm	1136 x 664 x 390 mm	1093 x 657 x 350 mm	1093 x 657 x 350 mm
Refrigerant	R134a/R1234yf	R134a/R1234yf	R134a/R1234yf	R134a/R1234yf
Additional Features	Surge Tank Aluminum Frame Integrated Pipe	Surge Tank Aluminum Frame Integrated Pipe	Surge Tank Aluminum Frame Integrated Pipes	Surge Tank Aluminum Frame Integrated Pipe

Modine Manufacturing Company

1500 DeKoven Avenue
Racine, Wisconsin 53403-2552
Phone: (262) 636-1200
www.modineEV.com



Follow us @modine.com
See us at YouTube.com/user/modinemanufacturing
www.facebook.com/ModineMFG
www.linkedin.com/company/modine-manufacturing-company