



MESABI® THERMAL MANAGEMENT SYSTEM (MTMS) FOR BEVS, FUEL CELLS, AND HYBRIDS

The proven MESABI® removable-tube design now offers thermal management capabilities for electric vehicles operating in extreme environments.

“Designing a chilling system to survive an electric mining vehicle’s operating loads and vibration levels is unprecedented at this scale. L&M is thrilled to set the standard for the industry in this way.”

— Nick Takes, R&D Engineer at L&M



MTMS FEATURES:

- EASY TO CLEAN
- FIELD REPAIRABLE
- CUSTOM ENGINEERED FOR THE APPLICATION
- PLUG AND PLAY INTERFACE WITH SAE J1939 CANBUS PROTOCOL
- CHILLING AND HEATING ABILITIES
- VARIABLE SPEED MOTORS TO MINIMIZE PARASITIC LOSS AND CONSERVE BATTERY LIFE
- POWER SUPPLY FROM HIGH-VOLTAGE DC (TYPICALLY 700 VDC) OR 3-PHASE AC

COMPONENTS:

Complete system or individual components

- | | |
|-------------------|---------------------|
| COMPRESSOR | EXPANSION VALVE |
| FILTERS | HMI SCREENS |
| SURGE TANK | FANS AND MOTORS |
| LV ENCLOSURES | ACCESS FITTINGS |
| MESABI® CONDENSER | MESABI® EVAPORATOR |
| SENSORS | OIL SEPARATOR |
| PLUMBING | CONTROLLERS |
| SOLENOID VALVES | REFRIGERANT VALVING |

L&M RADIATOR TESTING:

Testing at L&M Radiator is unmatched. Here are our internal qualifications for each heat exchanger that leaves production:

- LOW-VOLTAGE AND HIGH-VOLTAGE ELECTRICAL CHECKOUT • MOTOR RUN IN • LEAK DETECTION



MESABI®

 AND  RADIATOR, Inc.

Visit MESABI.com to find your L&M Radiator sales representative.