Hybrid & Electric Vehicle

Battery Cooling Technologies

Dana designs, develops, and manufactures custom heat transfer products for vehicle electrification. Our extensive range of Long® thermal-management products sets the industry standard for innovation and quality.
Battery Cooling Technologies for the Most Advanced Vehicles

Dana offers a range of thermal-management products for hybrid and electric vehicle battery applications, for both light- and heavy-duty vehicles. Dana’s extensive R&D facilities enable custom-designed cooling solutions that feature lightweight aluminum construction and result in ultra-clean products. With deep expertise and problem-solving ability in thermal-management applications, Dana provides solutions that are customized to exact OEM needs.

### Sub-Cooled Loop Radiator
- For battery sub-cooled loop heat rejection
- High-performance internal heat transfer augmentation for low-grade heat rejection
- Fluxless brazed aluminum for compatibility with non-ionic coolants

### InterCell Battery Cooling Plate
- Thin (1 mm) plate cooler with internal liquid-cooling channels
- Interleaved between cells for maximum thermal surface contact
- Best achieved cell temperature uniformity for extended battery life
- Superior cooling during fast charge/discharge
- Integrated dielectric separation film

### Battery Cooling Chiller
- Refrigerant-to-glycol loop chiller
- Transfers heat from battery to vehicle’s A/C system
- Compact, high-performance design with integrated expansion valve

### Battery Cold Plate
- Liquid-cooled plate for mounting hard can battery modules
- Lightweight, stamped aluminum construction – fluxless brazed for non-ionic coolant compatibility
- Flow balanced designs for uniform battery pack temperature
- Customized fluid connectors and routing lines

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