

HYBRIDRIVE® COOLING PACKAGE (HCP)

The HybriDrive® Cooling Package (HCP) is an integrated, self-contained cooling system designed to provide proper cooling and thermal management for HybriDrive system components. The HCP can be used to provide cooling for the electronic components including the Propulsion Control System (PCS), Accessory Power System (APS-1 or -2) or the Modular Traction System (MTS). Two HCPs are required to provide cooling for the complete HybriDrive propulsion system. HCP is available for both the HDS 200 and HDS 300 systems.

The HCP includes a radiator, fans, coolant pump, and expansion reservoir, and is designed to easily integrate directly into the HybriDrive system for simplified system design and installation. The HCP communicates with the System Control Unit (SCU). The SCU controls fan speed and coolant flow to maintain optimum cooling and system temperature under all conditions.



Features

- Fully integrated, self-contained design
- High efficiency electric fans and cooling pump
- Robust packaging for unprotected exterior installation
- Integrated CAN Bus communications for system control and monitoring

Benefits

- Provides optimum cooling for HybriDrive power components
- Single design cools electronics or MTS components
- HybriDrive integrated design simplifies system design, installation and integration issues for vehicle original equipment manufacturer
- High efficiency, brushless electric motors are reliable and maintenance free
- System controlled fan and pump speeds provide optimum cooling for all operating conditions, boosting overall system efficiency

HybriDrive propulsion system components are sold as part of our HDS family of products and are available through BAE Systems qualified OEMs. Components are not sold separately.

HybriDrive Cooling Package (HCP)

RATINGS

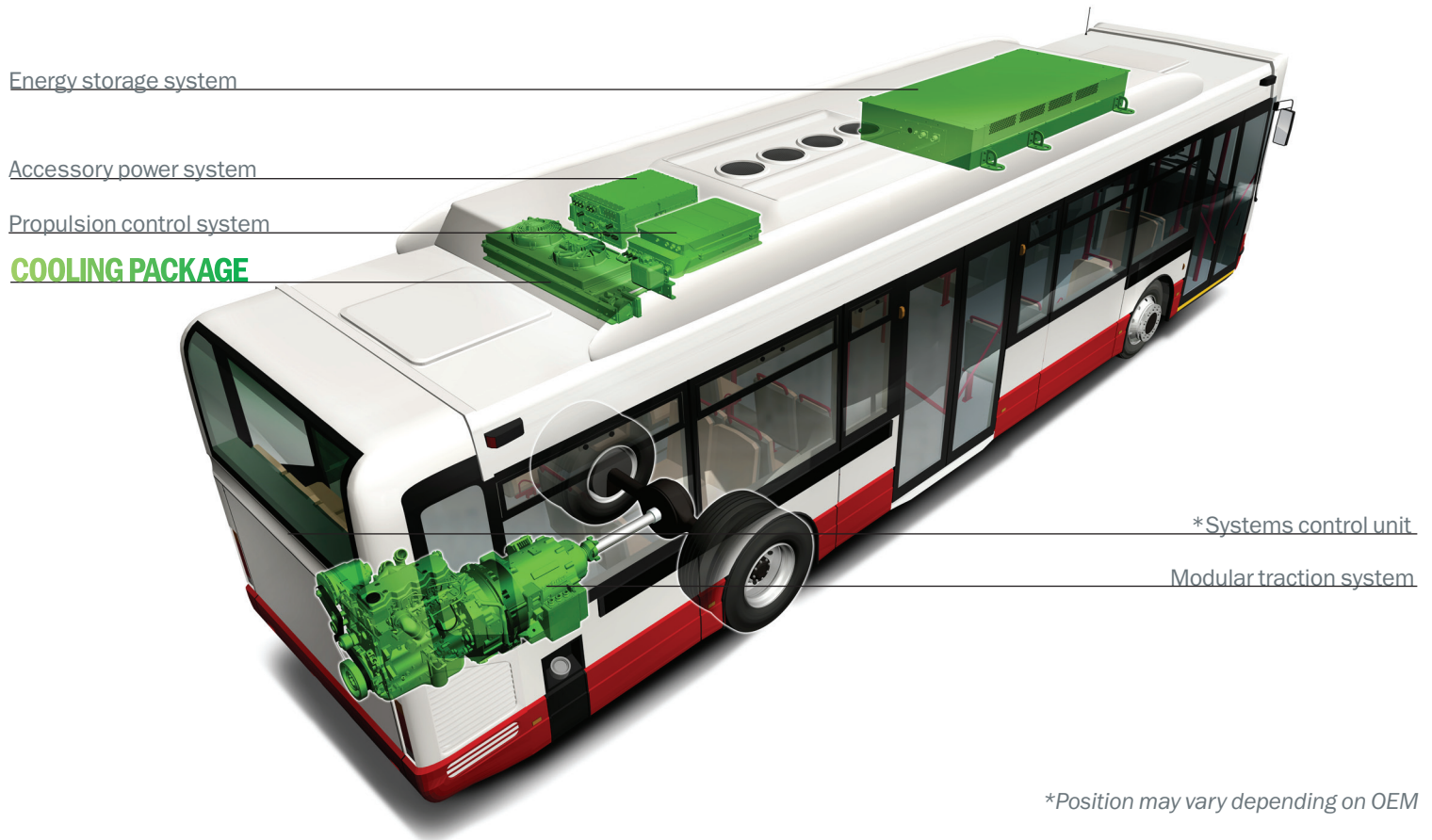
- Heat rejection
 - 17.0 kW @ 36F (20C) delta temperature
 - 23.3 kW @ 54F (30C) delta temperature
- Maximum outlet pressure: 25 psi (172.4 kpa)
- Maximum flow rate: 15 GPM (56.8 LPM)
- Operating temperature: -40C to 85C ambient

SIZE

- Length: 52.6 in. (1336 mm)
- Width: 17.8 in. (452 mm)
- Height: 10.9 in. (277 mm)
- Weight — wet: 105.8 lbs. (48 kg)

COOLANT — water ethylene or propylene glycol

HYBRIDRIVE® COOLING PACKAGE (HCP)



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