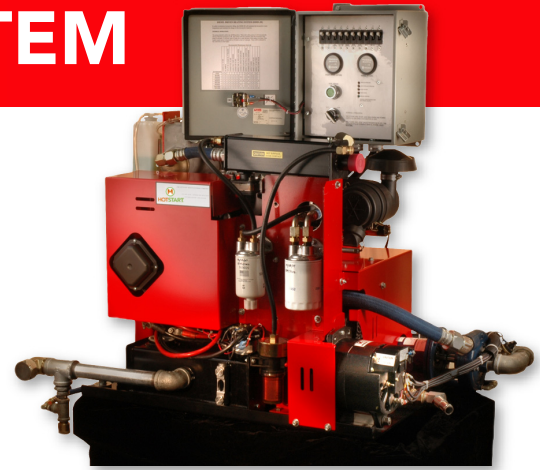


APU IDLE REDUCTION SYSTEM

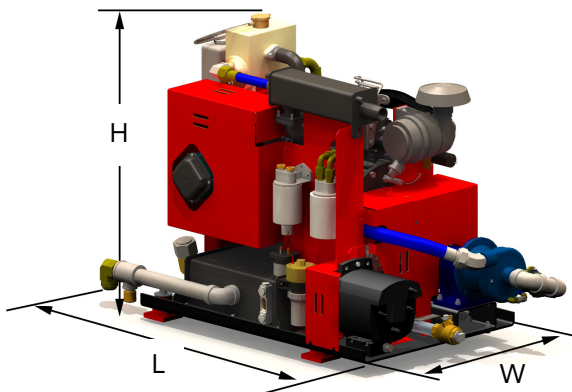
The HOTSTART® APU allows an idling locomotive to be shut-down in cold weather at any location. It is a self-contained system that runs off the locomotive's diesel fuel supply, keeping the prime mover warm and ready to restart. It consumes 0.5 gallons per hour (2L/hr) of diesel fuel on average depending on ambient temperature. Shutting down an idling locomotive reduces fuel consumption, oil consumption, emissions, noise, engine wear and wet-stacking.



APPLICATION

The HOTSTART® APU maintains water temperature at 100°F (38°C) above ambient for engines up to 200L displacement/5000HP/4MW. The APU effectively heats all ranges of locomotives in service worldwide. While the locomotive is shut down, the APU automatically starts and changes speed as necessary to maintain water temperature and battery charge. It is small enough to install on the walkway, inside the car body, or in the nose of the locomotive where space allows. For colder climates, it is recommended to heat the locomotive lube oil with the additional heat booster and lube oil heater model.

Minimum Ambient Temperature	Model	Engine Speed ⁴	Fuel Consumption	Heat Output ³
Above 40°F (5°C)	DDHSJR-000 APU with coolant heating and battery charging	RPM3600 High Speed	0.6gph (2.2L/hr)	14kW
		RPM2900 Low Speed	0.35gph (1.3L/hr)	8kW
Below 40°F (-40°C)	DDHSJR-110 APU with coolant and oil heating ⁵ and battery charging	RPM3600 High Speed	0.76gph (2.8L/hr)	19kW
		RPM2900 Low Speed	0.35gph (1.3L/hr)	8kW



Dimensions & Weight

Height (H)	Length (L)	Width (W)	Weight
32.4" 823mm	50.25" 1276mm	23.9" 607mm	600 lbs. 27.2 kg



