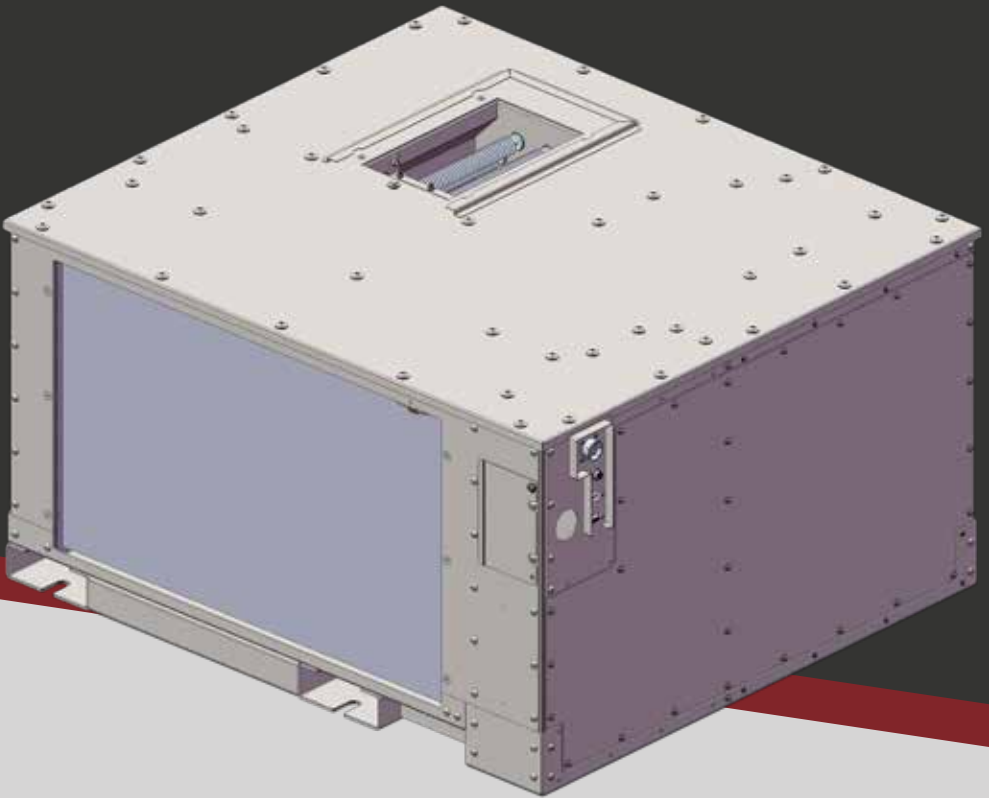


# EKYCOOL CLASSIC HVAC



## PRODUCT OVERVIEW

The Ekyrail Ekycool Classic HVAC is engineered specifically for EMD SD50, SD60, and SD70 locomotives equipped with sub-base HVAC systems. Designed with a fully redundant dual-circuit configuration, the unit incorporates two independent refrigeration circuits, each with its own compressor and fan assembly to maximize reliability and maintain climate control even during partial system failures.

Built for harsh railway operating conditions, the system provides reliable cooling and heating performance across a wide temperature range from -40°F to 140°F. Integrated inverter technology enables variable-speed operation of brushless motors and compressors, improving efficiency, performance, and overall system durability.

Designed as a direct replacement for existing EMD locomotive HVAC systems, the Ekycool Classic simplifies retrofit projects while improving uptime, crew comfort, and maintenance accessibility. Integrated diagnostics and modern connectivity interfaces further enhance troubleshooting and operational monitoring.

# Ekycool Classic HVAC

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<b>Product</b>	
<b>Product</b>	Ekycool Classic HVAC
<b>Designed for</b>	EMD SD50 / SD60 / SD70 locomotives
<b>Installation location</b>	Under cab
<b>System Capacity</b>	
<b>Cooling</b>	30,000 BTU @ 95°F (35°C) 22,600 BTU @ 122°F (50°C)
<b>Heating</b>	38,400 BTU electrical heating
<b>Electrical</b>	
<b>Nominal voltage</b>	74 VDC
<b>Inverters output</b>	220VAC 60Hz
<b>Maximum power consumption</b>	120 Amps in full cooling mode
<b>Air flow</b>	
<b>Maximum evaporator</b>	1500 SCFM @ 1.22 Static pressure
<b>Refrigeration System</b>	
<b>Refrigerant type</b>	R410A
<b>Refrigeration circuits</b>	2 independent refrigeration circuits
<b>Components</b>	Independent compressors and condenser fans
<b>Heating</b>	
<b>Heating type</b>	Electrical resistive, 3 stages
<b>Compressor type</b>	Rotary - 220VAC 60Hz
<b>Motor type</b>	Variable speed - Brushless
<b>Environmental Specification</b>	
<b>Operating temperature</b>	-40°F (-40°C) to 140°F (60°C)
<b>Storage temperature</b>	-40°F (-40°C) to 176°F (80°C)
<b>Relative humidity</b>	0% to 95% (No Condensation)
<b>Protection</b>	
<b>Low pressure cutoff</b>	75 PSI
<b>High pressure cutoff</b>	650 PSI
<b>Undervoltage shutdown</b>	64 VDC
<b>Connectivity</b>	
<b>Ethernet</b>	M12, Female, A-Coded connector
<b>CanBus Railcan</b>	DB-9, Male (CNB)
<b>CanBus Ekylink</b>	DB-9, Female (CNC)
<b>Control &amp; Diagnostics</b>	
<b>Control</b>	Rotary Switch
<b>Diagnostics</b>	HTML Graphic user interface
<b>Laboratory</b>	Intertek, ETL, Cortland, NY

[www.ekyrail.com](http://www.ekyrail.com)

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