ORANGE Locomotive Air Conditioner



"Uniting Innovation, Engineering, Manufacturing and Distribution"

Product Description

PowerRail, an AAR M-1003 Certified Quality Company introduces our New... Split Type Air Conditioner System.

The Orange is the ONLY direct 72 VDC driven Locomotive Cab Air Conditioning System that **DOES NOT NEED AN INVERTER**.



Running directly off the locomotive's batteries and using VRF (Variable Refrigerant Flow) technology, the Orange will save up to **30%** in energy consumption while reducing power surges in the 72 VDC system. Our compact split-system components can be custom configured to fit any cab without looking like a retrofit.

Patent Pending Design:

Breakthrough proven technology used in both off-road vehicles and MOW vehicles. Our new AC unit offers a compact, reliable, and brushless system while eliminating the Invertor known for major failures. The AC unit's lightweight and modular design offers the end user the option of easy maintenance by replacing any of the (3) three major components on a UX (Unit Exchange) Basis.



POWERRAIL

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AAR M-1003

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Specifications and Features

Evaporators (Weight 10 Lbs)	Achieving a cooling capacity of 32,000 BTU and an Amp draw at max load of 60A, with individual adjustable airflow and temperature controls
Refrigerant System	Non Ozone depleting refrigerant, type R134a, sealed systems (eliminates need for refrigeration techs for installation)
72 VDC Power	Directly from the locomotives electrical systems battery-bank and/or Auxiliary Generator (Operating Voltage 68V to 74V DC)
Condenser Unit & Compressor (Weight 24 Lbs) & (Weight 60 Lbs)	32,000 BTU Each

Why VRF?

VRF (Variable Refrigerant Flow) technology works like the accelerator in a car, by matching the Out-Put to the Load. The compressor starts up smoothly and ramps up until it meets the demand. When the Thermostat is satisfied, it ramps down to match the lower demand.

Modular Design

Our design offers a unique Modular Design for easy operations during the Maintenance or Replacement of a component. Each component is lightweight, offering easier installation and lower labor cost to the installer.

Installation #1: Roof No Cutout

Our Compact Modular design can be easily mounted anywhere on the locomotive. The Roof Mount is most common and achieves a low clearance of only 9 inches to accommodate tunnel clearances or low bay doors.



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