

Let Northwest Rail Electric help you with all your passenger railcar systems needs. Starting with power generating, hotel services, power distributing and power management, our extensive experience in passenger car systems can solve the most difficult problems. Allow us to show you how you can accomplish more with less generating and distribution capacity, saving fuel and capital.

We also excel at heating, ventilation and air conditioning systems: HVAC control systems to keep your passengers comfortable from Alaska and Canada in the winter to Arizona and Florida in the summer. In addition to temperature comfort our systems can also maintain humidity to keep your dome windows clear and provide further comfort for your passengers.

Our automation systems allow automatic transfer and control of critical systems when part of the power system shuts down.

NW-100-CN

Railroad Passenger Car Air Conditioning Condenser



**An Air Conditioning Condenser
Package designed specifically for the
rigors of railroad service. Available
with railroad service compressors
from**

NW Northwest Rail Electric Inc.
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Portland, Oregon 97202
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NW Northwest
Rail
Electric Inc.

Frame Profile:

The profile of the NW-100-CN condenser is designed with railroad passenger cars in mind. The unit provides a bottom profile that is designed to fit under-car clearance requirements. The raised machinery deck allows the unit to fit AAR standard profiles better than rectangular-



ended units. Hangers designed for support from underneath are provided at the top end of each unit. Two accurately positioned (laser-cut) holes are provided in each end for securing the frame to the hanger.

Compressor Types:

This package is available with a Maneurop hermetically sealed compressor (see picture on front cover), or Copeland compressor, or a Carlisle (06d) compressor, as illustrated here:



Units are available with several different sizes of compressor available, depending on the performance required for a particular passenger car. Depending on the compressor and fan size, units range from 7.5 to 10 tons of cooling capacity.

Condenser Coil:

At the heart of this package is a condenser coil designed to survive the rigors of the railroad environment. The coil has .006" flat copper fins over 1/2 x .035" wall copper tubing spaced at 8 fins per inch. This allows most undercar railroad debris to pass through the coil without clogging or coil damage. The capacity of this coil was also developed with an ambient temperature of 110 degrees F.

Other Equipment:

The receiver has two sight-glasses suited for most passenger car systems. The condenser fans are made from high-strength engineered nylon with a tapered shaft hub. Condenser fan motors are of the Totally-Enclosed-Fan-Cooled type, with cast-iron frames. A built-in electrical cabinet is designed for ease of access with maximum protection from the elements. This cabinet is also equipped with terminals, a pump-down switch, Schraeder valves, phase and voltage protection, compressor low oil level detection (where recommended by compressor manufacturer) and compressor high temperature detection (where recommended by compressor manufacturer), so that as much as possible maintenance crews have access to everything they need inside the box, on the unit.



Ask Northwest Rail Electric for about other options to suit your specific needs for rail passenger car air conditioning.