



Vehicle Systems & Subsystems

IEP

INPS Environmental Products Inc.



ORA-2025 "ORANGE"™ Locomotive Air Conditioner

Next-Generation Cooling for Today's Locomotive Fleets

Designed for both new locomotives and retrofit applications, the ORA-2025 delivers reliable cooling performance while simplifying installation and reducing lifecycle maintenance costs.

As railroads modernise their fleets, dependable cab climate control has never been more important. The

ORA-2025 ORANGE™ Locomotive Air Conditioner delivers powerful cooling performance, simplified installation and industry-leading reliability – all designed specifically for the demanding railroad environment.

Engineered for Railroad Service

Unlike commercial HVAC systems adapted for rail use, the ORA-2025 was engineered from the ground up specifically for locomotive applications. Designed to withstand vibration, temperature extremes and continuous operation, it delivers dependable performance wherever railroads operate.

Why Choose the ORA-2025?

Next-Generation 72V Brushless Scroll Compressor

Designed for long service life with fewer moving parts and exceptional reliability.

No Inverter Required

Simpler electrical architecture reduces complexity while improving overall system dependability.

8.5kW (29,000BTU/hr) Cooling Capacity

Powerful cooling performance even in extreme summer operating conditions.

Flexible Installation

Available as either a rooftop unit or split-system configuration to suit virtually any locomotive application.

Already Operating an Orange™ Air Conditioner?

Modernise your existing Orange™ Air Conditioner.

Protect your original investment while upgrading to today's compressor technology!

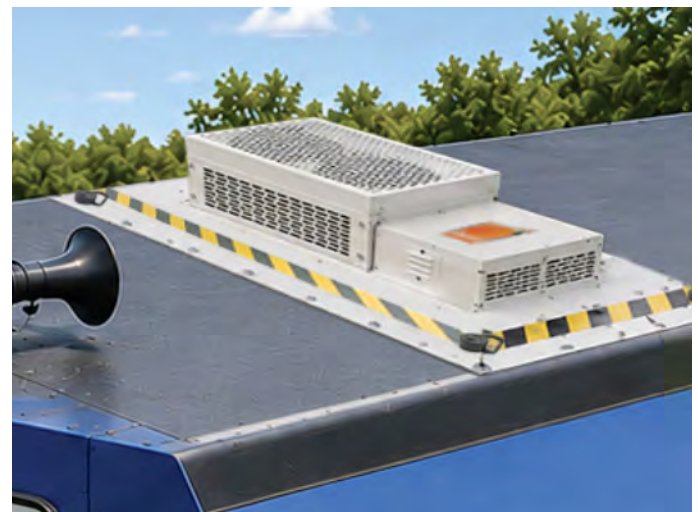
BAK-4002-1 ORANGE™ Upgrade Kit

Upgrade to next-generation ORA-2025 without replacing your complete air conditioning system.

The **BAK-4002-1 Upgrade Kit** transforms your existing ORANGE™ locomotive air conditioner into the latest ORA-2025 technology quickly, economically, and with minimal locomotive downtime.

Direct Replacement Compressor Plate Insert

Designed specifically for existing ORANGE™ systems, the upgrade compressor kit installs as a direct replacement for the original compressor assembly, utilising the existing system architecture with no major system modifications.





RAPU2174 BANANA™ Auxiliary Power Unit

Stop Idling. Start Saving.

Reduce Fuel Consumption • Lower Emissions • Extend Engine Life

Every hour a locomotive idles, unnecessarily costs fuel, increases emissions, and adds engine wear.

The **RAPU2174 BANANA™ Auxiliary Power Unit** allows locomotives to shut down while automatically maintaining the systems required for reliable restarting and crew comfort.

The result is significant fuel savings, reduced maintenance costs and lower emissions – without sacrificing operational readiness.

The BANANA™ APU Automatically Maintains

- Engine coolant temperature
- Engine oil temperature
- Battery charging
- Cab heating
- Critical locomotive support systems

The RAPU2174 operates independently of the locomotive engine. It continues protecting the locomotive while consuming only a fraction of the fuel required for engine idling.

Proven in Railroad Service

Successfully field-tested with documented performance over a two-year period on an optimal operating GP35 switching locomotive.

50,000+ gallons of fuel saved

10,000+ locomotive idle hours eliminated

More than \$187,000 in documented fuel savings

These measurable savings continue to increase throughout the life of the locomotive.

Designed for Today's Railroads

The RAPU2174 is ideal for:

- Switching locomotives
- Road locomotives
- Fleet modernisation programmes
- Idle reduction initiatives
- Emissions compliance programmes

"When paired with the ORANGE™ A/C system, the BANANA™ APU maintains cab air conditioning during shutdown, reducing fuel consumption and maximizing efficiency."

Find out more at inps-ep.com

