

THE ORANGE™

Air Conditioner



ORA-2023

**NO INVERTER means
32,000 BTU of cool reliability**

The Orange key features & Benefits:

Flexible Modular Design

Complete heavy duty, light weight construction component system including:

- ▶ Evaporator / Air Handler
- ▶ Compressor with 72 VDC brushless motor
- ▶ Condenser

Benefits

- ▶ Easy, lower-cost installation and operation.
- ▶ Can be mounted virtually anywhere on the locomotive.
- ▶ Can be installed on new or existing locomotives.
- ▶ Designed for low head clearance areas.

The Orange AC integrates itself seamlessly into existing cabin interiors, without looking like a retrofit.



From the team that's supplied thousands of air conditioners to the marine and transport industry, INPS Environmental Products (IEP) presents the patented Orange Locomotive Air Conditioner.

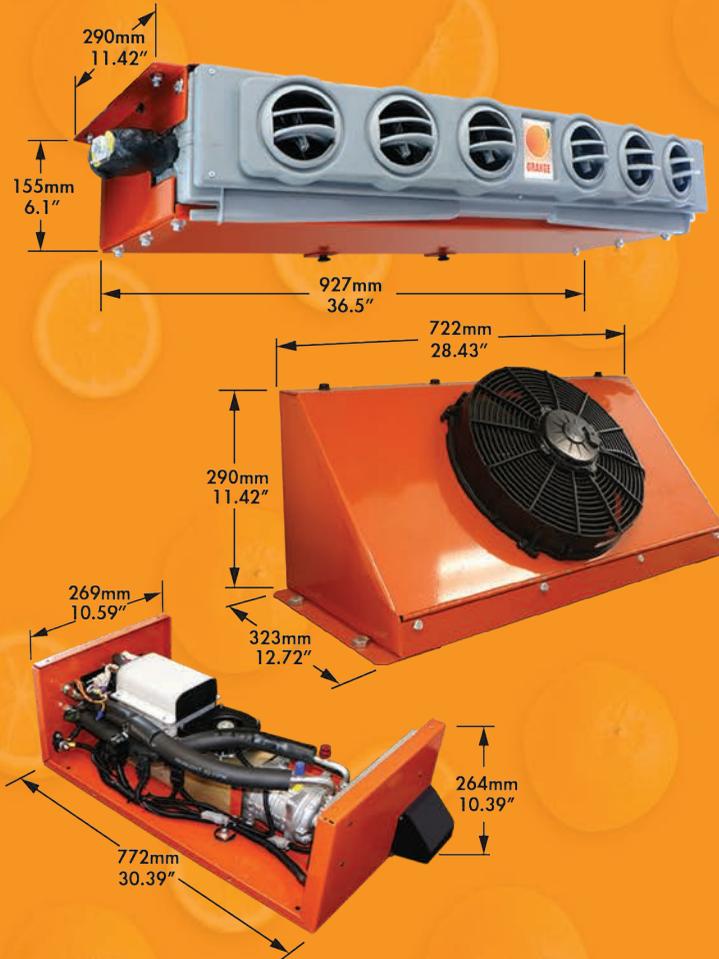
When we entered the air conditioner business almost 20 years ago, the weak link was the inverter... until now! The Orange is the ONLY direct 72 VDC driven Locomotive Cab Air Conditioning unit that doesn't require an inverter.



INPS
ENVIRONMENTAL
PRODUCTS INC.

THE ORANGE™ Air Conditioner

Silly Name, Serious AC, Seriously Cool!



Specifications

- ▶ **Refrigerant** - Non-Ozone depleting R134A (Optional R-1234YF Low GWP)
- ▶ **Compressor drive** - Brushless 10000 Hr motor with fan cooled controller
- ▶ **Compressor** - Non-hermetic compressor
- ▶ **Evaporator** - 9 kW
- ▶ **Condenser** - 12 kW
- ▶ **Controls** - Manual fan speed, Electronic thermostat
- ▶ **Compressor Motor Drive Box Dimensions** - (L x W x H)
(mm) 772 x 269 x 264
(Inches) 30.39 x 10.59 x 10.39
- ▶ **Evaporator Assembly Dimensions** - (W x D x H)
(mm) 927 x 290 x 155
(Inches) 36.5 x 11.42 x 6.1
- ▶ **Condenser Dimensions** - (W x D x H)
(mm) 722 x 290 x 323
(Inches) 28.43 x 11.42 x 12.72
- ▶ **Weight** - Approximate kit weight:
(kg) 136
(lbs) 300

Problem solving performance

Designed to Eliminate:

- Space constraints, head clearance issues
- Inverter failure.
- Alternating current power problems.
- Oversized, underpowered and incorrectly installed systems.

The Orange A/C solution

- The Orange 32,000 BTU Direct Current Air Conditioner – Yes, this A/C is DC
- Cooling Power Where it's Needed Most - Individual adjustable airflow louvers.
- Direct Current system - no inverter.

High Ambient Cooling

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 turn off. This keeps the motor cooler in high ambient conditions.

Saves energy

Running directly off the locomotive's batteries, the Orange will save up to 30% in energy consumption while reducing power surges in the 72 VDC system.

Custom configuration

Our compact split-system components can be custom configured to fit any cab without looking like a retrofit.



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