Using proven technology used in off-road vehicles worldwide, 3-APE proudly presents their newest innovation:

The Orange

LOCOMOTIVE CAB
SPLIT-SYSTEM
AIR CONDITIONER

Breakthrough technology:
Compact...
Dependable...
Brushless...
and no inverter required!

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*.

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

Complete
System includes:
- 2 Evaporators
- Compressor with Brushless Motor
- Condenser

PATENT PENDING
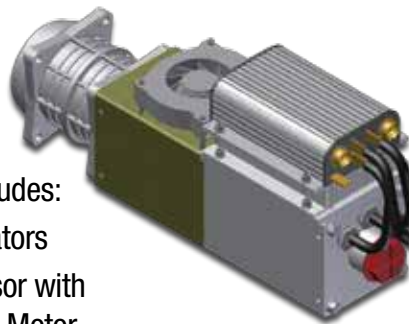
No Inverter Required

Keep your cab cool with our reliable split system

Get the Orange

The **Orange** Locomotive Cab Air Conditioner
Compact, dependable, affordable.

PATENT PENDING

## Specifications and features:

Evaporators	16,000 BTUs each, 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
Condenser Unit	32,000 BTU
Compressor	32,000 BTU

Why VRF technology?

A VRF system works like the accelerator in a car, 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.

Component Dimensions & Weight:

2 Evaporators (Air Handlers) - 10 lbs each

13"

5.25"

34"

Condenser - 25 lbs

28"

19"

10"

Compressor
60 lbs

12"

23"

10"
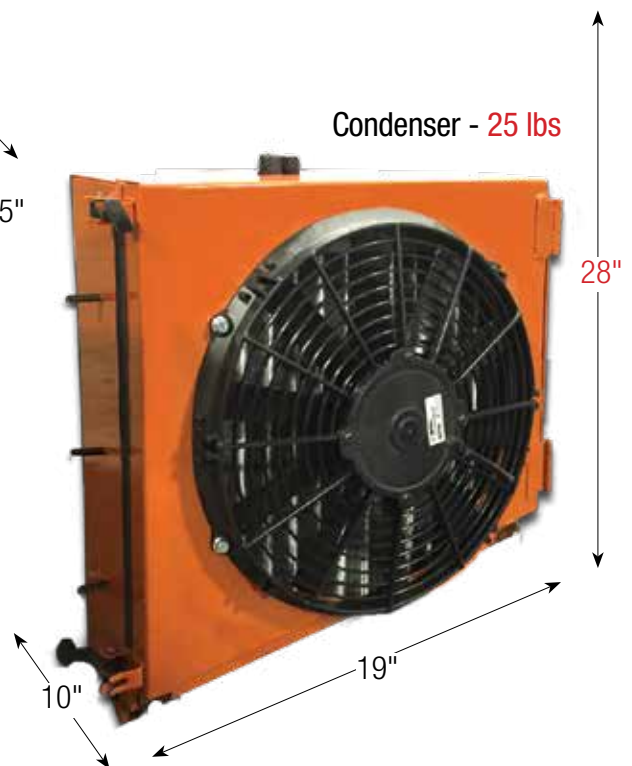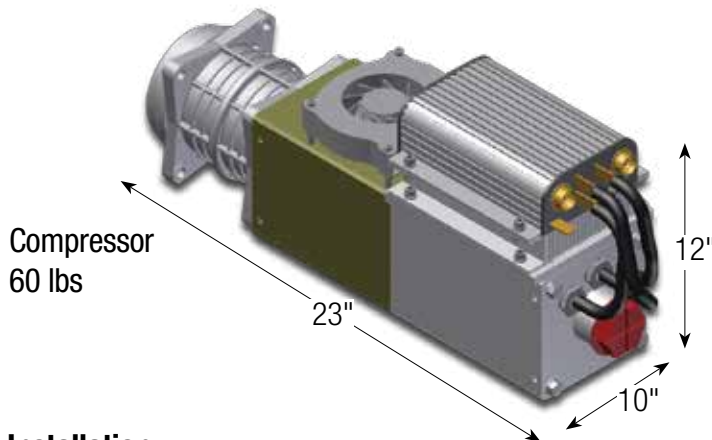
Installation

A compact split-system, components (such as compressor and condenser) can be remotely mounted anywhere outside of the cab and the air handlers can be customized so the unit appears to be part of the original OEM supplied locomotive.