

Premier Onboard Power

for trucking professionals

A POWERCUBE™ ISOLATED ONBOARD ENERGY SYSTEM POSITIVELY IMPACTS THE DRIVER CULTURE.

- Health
 - Safety
 - Comfort
 - Economy
 - Environment
- BETTER HEALTH BY OPERATING IN-CAB APPLIANCES AND EXERCISING SENSIBLE EATING HABITS.
 - MORE CAB COMFORT THAT AIDS CRITICAL REGENERATING REST PERIODS, AND SAFETY BEHIND THE WHEEL.
 - ECONOMICALLY SOUND, REDUCING THE EXPENSE OF FUEL CONSUMPTION, MAINTENANCE AND UNPLANNED SPENDING.
 - ENVIRONMENTALLY SOUND, PROMOTING MEASURABLE ACTION THAT REDUCE GREENHOUSE GAS EMISSIONS.

The PowerCube™ auxiliary power unit plays a significant role in enhancing truck owner and fleet efficiencies amid the pressures of rising fuel costs and environmental issues.

Tridako Energy Systems 35 year heritage in custom design and build of automotive heating and air conditioning systems translates into driver confidence and reliability. Reliability is a time-based formula that Tridako Energy Systems has earned through relevant experience, dedication and knowledge of the craft. Customers that experience the benefits of a PowerCube™ are convinced that this product meets the high expectations of truck drivers and trucking companies, allowing each to move ahead in confidence while remaining conscious of environmental issues and regulations.

Ultimately, owning a PowerCube™ is about control. Better control of your finances, control of what you consume, control of how you spend your down time and control of how your job affects the well-being of other people.



PowerCube
AUXILIARY POWER UNIT™



PowerCube
AUXILIARY POWER UNIT™

1-855-PWR-CUBE
1-855-797-2823

www.powercubeapu.com

Power Up! ...not down.



PowerCube

AUXILIARY POWER UNIT



Saddle Mount™ Chassis

The PowerCube™ is built for heavy service. Engine components attach inside a reinforced, powder-coated 1 1/2" steel tube frame. It's road worthy and designed to mount directly to the truck's frame rail.



Plug N Play Harness

The PowerCube™ wire harness is made in our factory and features nylon braiding with Weather-Pack™ ends. The unique Plug N Play design allows for durable, error free connections.



Buckit™ Muffer

The PowerCube™ muffer is designed for easy access and fits snug into the inside curve of the unit case. The muffer exhaust port is flush with the front grill allowing ventilation without a protruding end.



Digital Control Center

The PowerCube™ Control Panel features a simple AC/Heat thermostat, 3 fan speeds, low battery programmable auto start, low temperature auto start feature and a DC on/off switch.



ThermoVap™ Radiator / Condenser

FastAir™ Single Polymer Fan / Shroud

Caterpillar C0.5 Tier 4 Engine



HVAC Bunk Unit

Heavy Service Grade Controls

6 Row Evaporator / 3 Row Heater

4 - Vent / Hose Adaptors

The PowerCube™ performance depends on high velocity air movement and recirculation over the coils inside the HVAC unit.

Dual 600 cfm Blower



The PowerCube™ fuel pickup tube attaches to the top of your existing fuel tank and extends inside to within an inch of the bottom.

Fuel Pickup



Customized Paint

The PowerCube™ offers customized paint options for individual and fleet carriers.



The PowerCube™ HVAC unit fits neatly under the bunk. HVAC has four separate vents for routing throughout the cab to improve circulation. The PowerCube™ installation kit includes 15' of flexible duct hose that integrates into an OEM vent system.

Bunk Unit



Performance

PowerCube™ Meets SAE J-1503 Automotive Standards

What the SAE Test Means

The PowerCube™ is performance tested, which is a fundamental component of the manufacturing process. For the owner of a PowerCube™ this ensures that the operators environment remains comfortable and compliant to SAE Standards, assuring the unit performs to the specifications listed.

Sustained Air Temperatures

An APU's performance level largely reflects the way the unit handles air flow. Tridako has designed the PowerCube™ to quickly heat and cool cab-space with high-performance blowers, aiding quicker recirculation of air throughout the cab and HVAC coils for holding sustained temperatures.

Dynamics of a 2-Cylinder Engine

In the isolated PowerCube™ configuration, the 2-cylinder Cat C0.5 diesel engine generates the hot water used for heating. The engine must also run at a speed to produce maximum fan and pulley speed for BTU's & power output. The fuel efficiency of an APU point to the size of components the engine must drive to reach output specs.

APU Noise Levels

The three key factors which play into the APU ambient noise equation are: motor noise, fan speed/air flow, and exhaust. When comparing decibel levels of an APU, considerations must be given to the engine load and rpm's required to operate the components to spec. If the engine noise is low, it's likely the drive components have smaller performance specs.

Secure Belt Alignment

The PowerCube™ design has incorporated our own SaddleMount™ chassis, which attaches components in a fixed, non adjustable position to the frame. The PowerCube's 8 rib poly V serpentine belt is flat and secured by a Gates tensioner.

Tier 4 Compliant

The PowerCube™ Model HC5128-IV is Tier 4 compliant which meets EPA engine specifications.

Color

Spec your PowerCube™ case in any color. Custom color packages available for individual drivers and fleet owners.

quality, reliability & payback!

The Society of Automotive Engineers (SAE) is an international standards development organization for the engineering of parts and components used in the automotive industry. www.sae.org

Dealer Inquiries
1-855-PWR-CUBE
E-mail: powercube@nmccat.com

PowerCube™ HC5128-IV Specs

Size Dimensions

Frame Rail Mounted Main Unit
W = 28" x D = 24" x H = 25"

Under Bunk HVAC Unit
W = 19" x D = 17" x H = 9"

Maintenance:

Manufacture Spec = 500 Hour Oil Change

Weight:

Main unit: 500 lbs | Bunk unit: 47 lbs

Engine:

2-Cylinder Caterpillar C0.5
Diesel | Liquid Cooled | 60 amp Alternator | 2,800 rpm

Generator:

Heavy Duty, Commercial Grade Truck Gen
6,000 W | 120 volts | 60 Hz

Fuel Consumption:

0.2 gph

BTU Output:

A/C = 24,000 BTU/hr | Heat = 30,000 BTU/hr

Decibel Rating:

In Cab = 63 db

Refrigerant:

R134a

The PowerCube™ is Tridako Energy System's signature line of isolated, non-integrated auxiliary power units designed for Class 8 trucks. It is the premier heavy service, high BTU output solution for reliably controlling and managing in-cab air and power.

While experiencing the benefits of a PowerCube™, you'll also ride on Tridako Energy System and Perrin Manufacturing's 35 year heritage in custom designing heating and air conditioning systems for thousands of off-highway, rough duty OEM service vehicles operating around the world.

The PowerCube™ APU meets SAE J1503 testing criteria for engineered automotive products, guaranteeing proven trustworthy designs, performance reliability and ultimately buyer satisfaction.



Dealer & Sales Inquiries
Contact: Dave Watson
Toll Free: 1-855-PWR-CUBE
Direct: 402-891-7534
davewatson@nmccat.com



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5610 Perkins Road | PO Box 740
Alliance, NE 69301 USA
Phone: 308-762-3235 | Fax: 308-762-7459
1-866-526-7109

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1-855-PWR-CUBE

1-855-797-2823



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