



United Technologies

AUXILIARY POWER UNIT

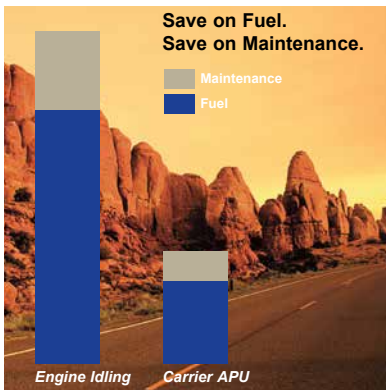
Auxiliary power unit with DELTEK™ hybrid diesel-electric technology.



Carrier APU. Stop idling and start saving.

Auxiliary power. An active alternative to engine idling.

Idling a tractor engine for in-cab comfort or to ensure cold starts is very costly. It increases fuel cost, engine hours, engine maintenance, and service cost.



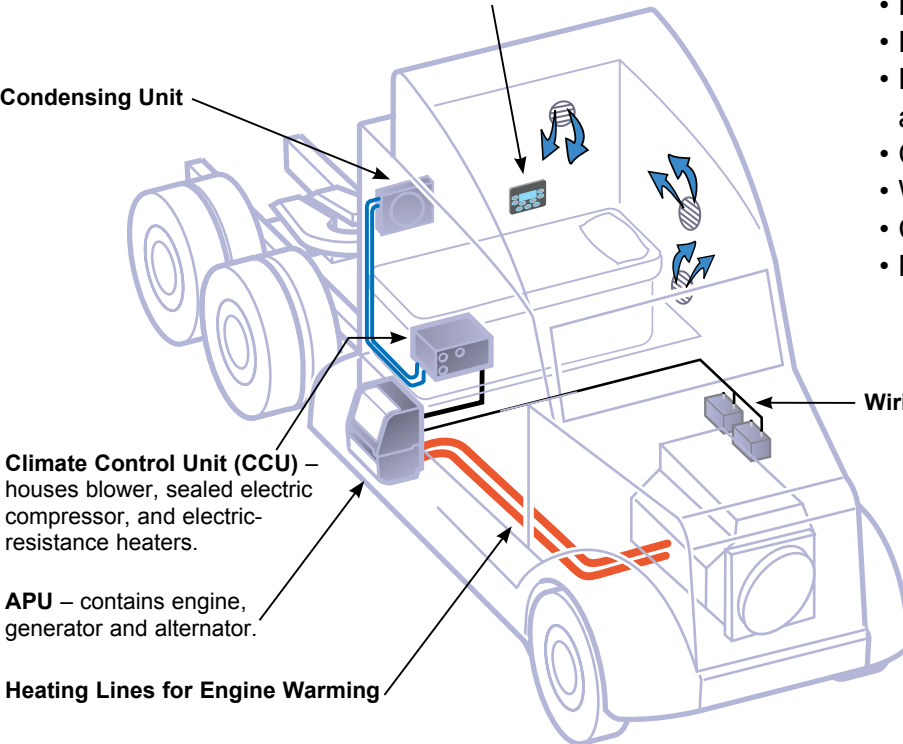
With Carrier's auxiliary power unit, you can turn off your engine, be comfortable, and turn down your operating costs.

Externally mounted on the side rails, the Carrier APU is protected in its own weatherproof compartment and runs off the truck's fuel supply. This innovative hybrid diesel-electric system saves fuel, runs quieter than the truck engine, reduces emissions, and provides reliable all-night comfort for the driver.



Multi-function Control Panel

Condensing Unit



Climate Control Unit (CCU) – houses blower, sealed electric compressor, and electric-resistance heaters.

APU – contains engine, generator and alternator.

Heating Lines for Engine Warming

The power of comfort.

The comfort of power.

- Provides sleeper air conditioning.
- Provides sleeper heating.
- Powers cabin household accessories.
- Charges the truck batteries.
- Warms the truck engine.
- Compatible with shore power.
- Monitors battery charge.

*An optional **Shore Power Connection** conveniently located outside the sleeper cabin can enable the unit to switch over to 110/120-volt household power at truck stops and rest areas.*



Self-contained full-function auxiliary power in a shock-resistant chassis-mount design.

Proven reliability.

The Carrier APU features the same award-winning all-electric DELTEK™ architecture featured in the Carrier Vector™ product family. The Carrier APU powers its proven generator with the same diesel engine featured in Carrier transport refrigeration systems. All other components are electrically operated and located away from the road to protect them from the harsh road environment, ensuring day-in, day-out reliability.



Weather-tight removable panels provide immediate access to serviceable components.

| Carrier APU | Other APUs |
|---|---|
| Sealed electric A/C compressor in the cabin ensures cooling capacity over time. | Open-drive compressor inside APU housing and refrigerant lines running from cabin to APU are exposed to harsh road environment, vibration, and magnesium chloride road treatment, increasing likelihood of leaks and reducing performance and life of cooling function. |
| Generator directly powers all cab accessories. | Cab power is provided from tractor batteries via an inverter, increasing number of cycles and reducing battery and APU alternator life. |
| Integrated tractor/APU engine heating provides warm APU starts in cold environment. | Cold starting the APU engine reduces its life and increases chance of APU cold no-starts. |
| Condenser coil distant from road environment, APU heat, and vibration. | Condenser coil inside APU housing reduces cooling power and condenser life. Increased tractor engine heat rejection reduces cooling power further. |
| Oil, air, fuel filter, and oil change in fewer than 15 minutes. | Difficult-to-access filters increase regular service cost. |
| One integrated heating/cooling system. | Two different systems for heating and cooling increase installation and service complexity, and increase fuel consumption during heating and cab power operation. |

PERFORMANCE SPECIFICATIONS



PC6021 Complete System

APU (Auxiliary Power Unit)

| | |
|---------------------|--|
| Engine | 13.9 hp, 2 cyl Kubota |
| Oil change interval | 1,000 hours |
| Alternator | 60 Amps @ 12-14 volts DC |
| Generator | 6,000 watts @ 120V, 60Hz AC |
| Dimensions H/W/D | 28-1/2" x 18-1/2" x 25" |
| Dimensions H/W/D | 28-1/2" x 22" x 25" with air-intake shroud |
| Weight | 375 lbs. |

CCU (Climate Control Unit)

| | |
|------------------|---|
| Air conditioning | 12,000 BTU/ hr hermetic compressor |
| Heating | 5,000 & 10,000 BTU/ hr (low/high speed) |
| Dimensions H/W/L | 12.5" x 15" x 28" |
| Weight | 85 lbs. |

Features

- Refrigerant-134a
- Start/stop operation
- Cold weather watch
- Two start/run timers
- Maximum run-time
- Password protection

Options

- Shore power for PC6021
- Condenser winter cover for PC6021/PC6028
- Wall-mount ducts for PC6021/PC6019

Other Systems

- PC6019 Shore power CCU only
- PC6028 APU only

Specifications are subject to change without notice.

Warranty: Product warranty and limitations are outlined in Form 62-11718.

This warranty applicable only in North America. Consult your Carrier Transcold representative for warranty coverage elsewhere. Form 62-11099 Rev. D.

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