

A Smarter Way to Give Drivers  
The Comfort & Convenience of Home



*Carrier*



**ASPEN**

Auxiliary Power Unit





# THE COMFORT OF HOME



Truckers spend long days and even weeks on the road. And when they can't be home, Carrier Transcold's Aspen™ APU provides the comfort and convenience to help them feel like they never left.

The Aspen APU is a smarter and more reliable way to give drivers the superior cab climate control and reliable electric power supply that they deserve when the road is long. We've made enhancements at every level to build an APU that does it all and then goes that extra mile with new features for effortless control and even more reliable performance.

# WHEN THE ROAD IS LONG



## MORE CAPABILITIES RIGHT OUT OF THE BOX

Carrier Transicold has a reputation for packing more performance and capabilities in a diesel APU than any other provider, and the Aspen APU is no exception. It offers:



**High-performance cab cooling** from the company that invented air conditioning.



**Greater heating versatility** now that the standard electric heater can be complemented by our optional fuel-fired Carrier Cabin Heater.



**High-grade 120-VAC** from its own generator to provide household-quality electricity for appliances, televisions, computers and more. Power supplies can now be augmented by an optional inverter to keep your portable fridge and other devices running when the APU is off while the truck is rolling down the highway.



**Winter Watch™** automatic truck engine pre-heating eliminates "cold starts" and "no starts" on frigid days.



**Enhanced battery monitoring** with automatic truck battery charging so the truck is always ready to go.



**Shore power connection option** for added fuel savings at facilities with electric receptacles.

The Aspen APU delivers comfort without compromise and the confidence that comes from one of the most trusted names in the industry, Carrier Transicold.



# A FRESH APPROACH TO APUS

The Aspen APU has been designed from the inside out for high performance, versatility, durability, reliability and ease of use.

The first thing you notice is the rounded composite skin that gives Aspen its next-generation great looks and aerodynamic profile. Corrosion-free and lighter in weight, the injection-molded housing cover is secured with two sturdy quick-release latches that make access for service a breeze, even when the APU is partially hidden behind a fairing.

Inside and throughout the system, the Aspen APU uses marine-grade components and enhanced alloys for strength and corrosion resistance. Automotive-grade, IP67-rated\* electronics provide protection against sand, dust and water incursion.



\*IP67 connectivity equipment is 100% protected against incursion from solids like dust and sand and has been tested to work for at least 30 minutes while under 15cm to 1m of water.



## THE EASIEST-EVER CONTROL FOR COOLING, HEATING AND MORE

The Aspen APU's driver interface has been completely redesigned to make temperature control as effortless as a home thermostat. The single control knob glows red when in **Heat Mode**, blue in **Cool Mode** and green in **Comfort Monitor Mode**. Drivers dial up the precise cab temperature they want, and the system does the rest. The control has a backlit digital display showing set-point, cab temperature and even the outside temperature.

The Menu button makes it easy to toggle between various operating modes, which also include **Battery Monitor** to keep the engine and APU batteries topped off; **Winter Watch** for automatic engine pre-heating, and a **Manual Mode** that enables cab-specific programming. For example, the Aspen APU can be programmed to automatically start and warm up the truck engine at 4:30 AM every Monday, so the tractor is ready when the driver is set to go.



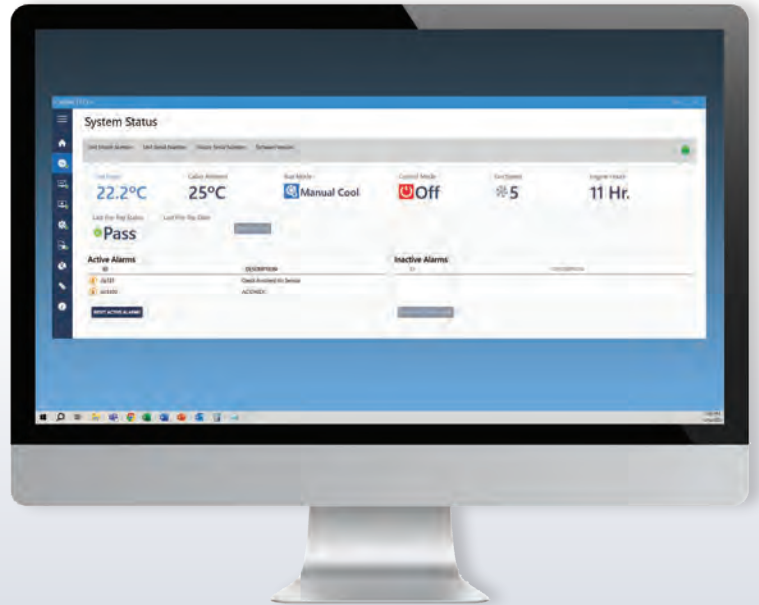


# CABIN TECH - COMFORT AND CO

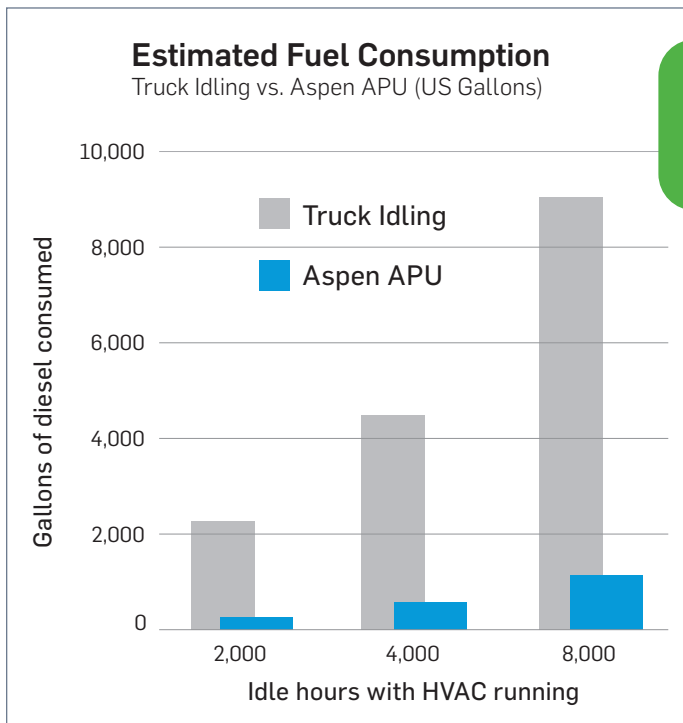
Our new CabinTech PC software makes setup and service of the Aspen APU easier than ever.

Troubleshooting and maintenance are made simpler for technicians when CabinTech software is used to check APU system status and performance issues. Faster diagnosis and service means greater uptime for the fleet.

Best of all, fleets can now create their own custom Aspen APU operating configurations that can be saved and loaded into every system via Aspen's new USB port.



## ASPEN APU: YOUR NEW PROFIT CENTER



Truck idling fuel consumption – 1.15 gph<sup>1</sup>  
Diesel APU fuel consumption – 0.15 gph<sup>2</sup>

At \$4 a gallon for diesel, use of an APU can generate savings of \$16,000 in reduced fuel usage after only 4,000 hours of use.

The fuel savings possible with an Aspen APU can generate a relatively quick ROI, especially in this time of rising energy costs. Using the APU instead of idling the truck engine can save about a gallon of fuel per hour.

The math is simple: If diesel fuel is \$4 a gallon and a truck idles 2,000 hours over the course of the year, the Aspen APU will save \$8,000 in fuel costs in the first year and \$16,000 in just two years, with savings going straight to the bottom line.

Reduced idling also saves wear and tear on the truck engine, extending service intervals for greater uptime, while helping to hold the line on maintenance costs.

<sup>1</sup>2014 NACFE "Confidence Report: Idle-Reduction/Diesel APUS" <sup>2</sup>Fuel consumption will vary based on ambient temperature and tractor cab insulation characteristics.

# CONVENIENCE



## CHOOSE THE ASPEN MODEL THAT'S RIGHT FOR YOUR FLEET

Carrier Transicold offers three primary configurations and numerous customization options to fulfill various anti-idling needs:

- **Integrated (Aspen-INT):** In this fully featured system, coolant lines connect the APU to the tractor engine cooling system, with engine warming provided via APU coolant exchange.
- **Integrated with DPF (Aspen-SKY):** Same as the integrated model but includes our ClearSky™ diesel particulate filter (DPF) required for California applications.
- **Stand-Alone (Aspen-STA):** This unit provides similar capabilities to the integrated model, but tractor and APU coolant systems are independent. Tractor engine warming can be optionally done via the tractor's block heater, powered by the Aspen APU's generator, or with an engine coolant heater.
- **Power-Only (Aspen-PWR):** Provides power for hotel loads and more in applications where no cab climate control is needed.

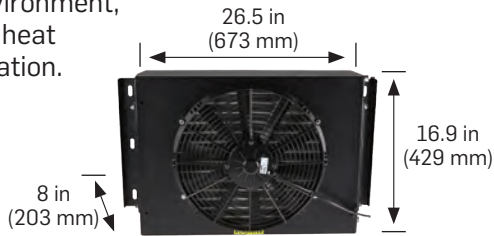




# DESIGNED FOR PERFORMANCE

## 1 Condensing Unit

Located on backside of cab, away from the road environment, exhaust heat and vibration.



## 2 NEW: Easy-to-Use Aspen Interface

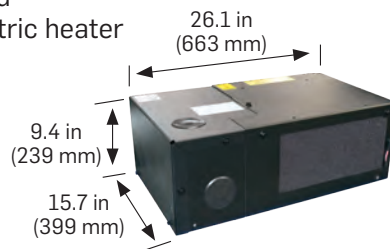
Lockable digital control for air conditioning, heating and more.



## 3 Under Bunk Climate Control Unit

Houses an efficient sealed electric compressor, electric heater and powerful blower.

**NEW:** More compact design enables fit under low-profile bunks.



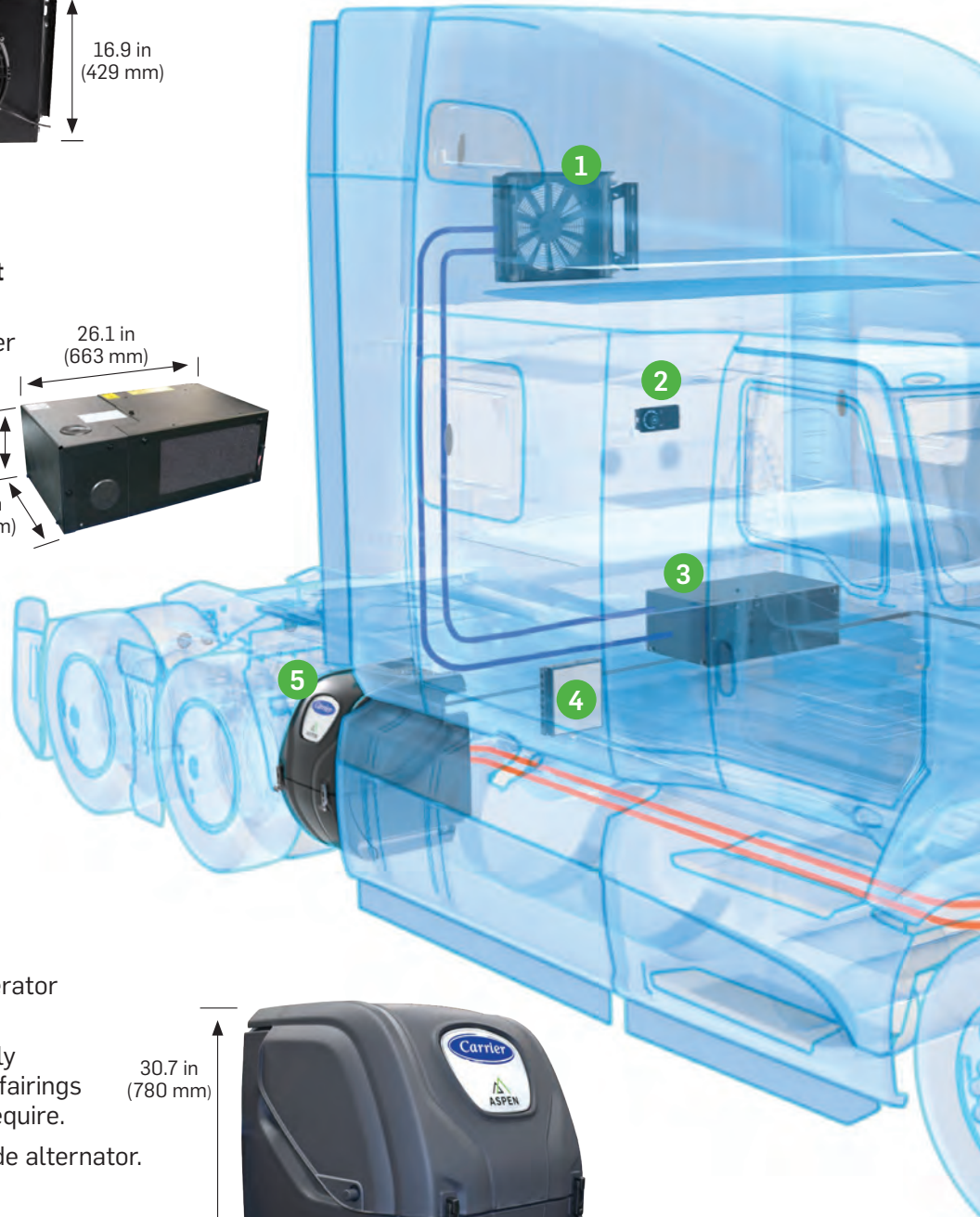
## 4 NEW: Electronics Module with USB Port and Pre-Trip Diagnostic Function



Flexibility in placement now allows technicians access to the module from the cab's exterior.

## 5 APU Power Plant

- Relatively compact engine/generator assembly attaches to side rails.
- Narrow design helps avoid costly modifications to fuel tanks and fairings that competitive models may require.
- Corrosion-resistant marine grade alternator.
- 2,000-hour service interval.
- **NEW:** Corrosion-free composite housing designed for easy access.





# WITHOUT PEER

**6 Heating Lines for  
Truck Engine Warming**

**7 Truck Battery  
Charging  
Provided by APU**

**NEW: Optional  
Carrier Cabin Heater**



## APU Power Plant

Tier 4 final 2 cylinder diesel engine

Alternator: 70 amps @ 12-15 volts DC

Generator: 6kW rating @ 120 VAC, 60Hz AC  
(5.2kW available power)

Weight: 395 lbs (179 kg)\*

## Under Bunk Climate Control Unit

Airflow: 343 cfm

Air Conditioning: 12,000 BTU/hr

- Hermetic compressor
- Refrigerant R-134a

Heating: 8,200 BTU/hr with standard electric heat

Weight: 76 lbs (35 kg)

## Condenser

Microchannel coil

Maintenance-free fan motor

Weight: 26 lbs (12 kg)

## Aspen Interface

Single control knob with color LED  
for heat, cool, auto and fan-only

Backlit LCD display screen

Operating Modes:

- Fuel-saving Comfort Monitor
- Battery monitor
- Winter Watch low-temperature start

## Accessories & Options

Shore power option kit - enables the APU to  
operate via 120 VAC power

Inverter - produces 120 VAC for  
hotel loads while moving

Carrier Cabin Heater - 7,000 BTU/hr  
fuel-fired heater

ClearSky® DPF For California applications

Stand-alone heat shield kit

*Integrated unit illustrated. Other models differ.*

\*Weight shown is for Aspen-INT and Aspen-PWR models.  
Aspen-STA and Aspen-SKY models differ.

# A SYSTEM TO RELY ON

## TRUSTED DEALER SUPPORT NETWORK



When the home away from home is a big rig, Carrier Transcold dealers are like friendly neighbors, always ready to help.

No other network is better trained or equipped to provide the professional personnel and superior technical support that you depend on to maintain and service the Aspen APU, available throughout North America exclusively through Carrier Transcold dealers.

- 180 locations across North America
- 24/7 service access
- Rigorous factory training for technicians
- Comprehensive critical parts stocking
- Expert service and repairs, bumper-to-bumper, coast-to-coast





# FROM OUR HOME TO YOURS

Aspen APUs are proudly manufactured in the United States by a specialized workforce at Carrier Transicold's Athens, Georgia, flagship facility. Our ISO-certified plant uses a variety of advanced manufacturing technologies and processes that are tightly controlled and designed for maximum productivity.

Carrier Transicold's manufacturing philosophy is centered on safety, sustainability, and state-of-the-art technology, with the ultimate goal of delivering the highest-quality product at the best price.

- ISO 9001 and ISO 14001 Process Certification
- OSHA Voluntary Protection Program Star Status
- Automated processes and Lean Manufacturing





Auxiliary Power Units

# The Feeling of Home. The Confidence of Carrier.

Sleeper cab air conditioning and heating

High quality electric power for household accessories

Truck battery charging

Truck engine warming

Battery charge monitoring

Shore power compatibility

2,000-hour service interval



For the latest specifications and details visit [carrier.com/aspn](http://carrier.com/aspn)

Specifications are subject to change without notice.

Warranty: Product warranty and limitations are outlined in Form 62-12241.

This warranty is applicable only in North America. Consult your Carrier Transicold representative for warranty coverage elsewhere. Form 62-12239

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