



# XVI. APUS



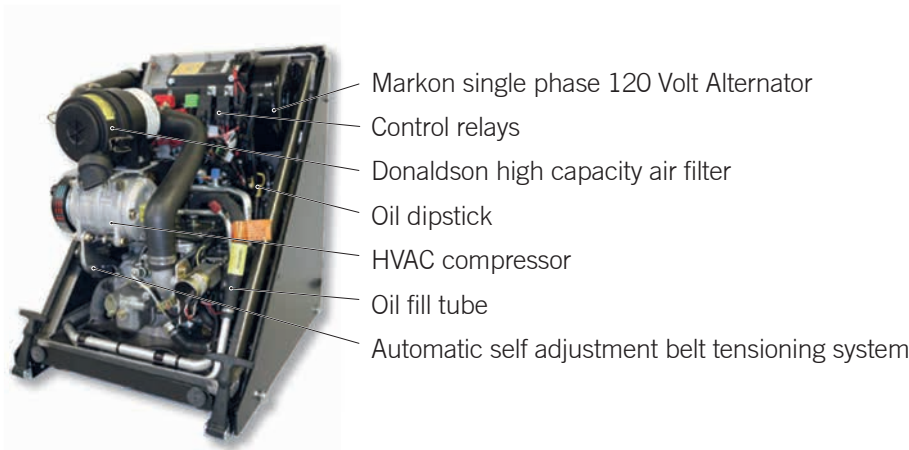
## Diesel APU EcoPower 3500

# There's a lot to gain from a good night's sleep

Made in the USA, the EcoPower 3500 is an auxiliary power system that provides heating, cooling and electrical power during downtime. Stop idling, power on the APU and save thousands of dollars annually in engine wear, fuel consumption and lodging costs.

The EcoPower 3500 is lightweight, compact and easy to install with minimal cab disruption. It operates totally independent of the truck's electrical and coolant system

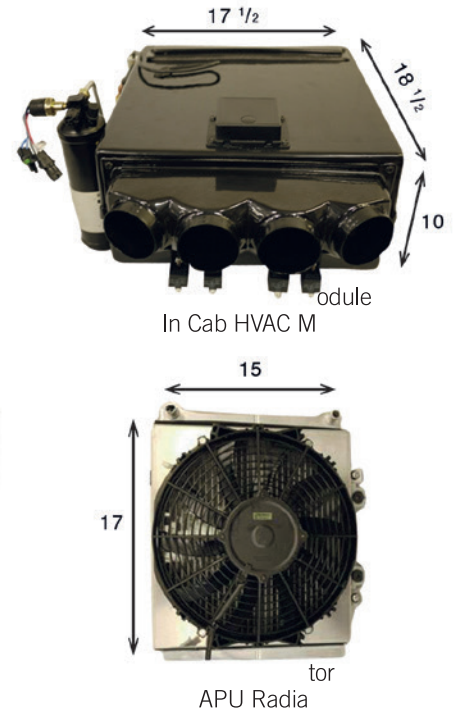
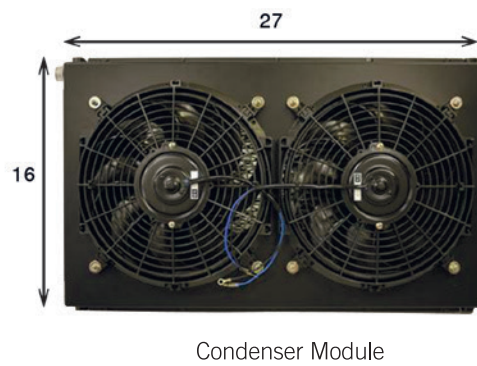
Whether in heating or cooling mode, the EcoPower 3500 draws no electrical power from the vehicle. Patented technology enables the system to provide 10,000 Btu/hr (3kW) heating without utilizing the vehicle's coolant circuit. The fully integrated compressor drives 18,000 Btu/hr (5kW) of cooling capacity. The system is comprised of a diesel power unit, in cab HVAC unit, radiator, condenser, and multiple ducting kit options to accommodate a wide variety of sleeper cab configurations.



### Features

- High cooling/heating capacity
- 3500 Watts of electrical power
- Low initial cost
- Fast payback
- Small compact system
- Easy to install
- Minimal cab disruption
- Lower weight than comparable capacity systems
- Low maintenance
- Meets anti-idling regulations
- Standalone heating, cooling and electric power generation
- CARB approved, high durability 1-cyl Kubota engine

Dimensions in inches



### Technical Data

Cooling capacity (ARI) <sup>[1]</sup>	18000 Btu/hr (5 kW)
Heating capacity	10000 Btu/hr (3 kW)
Refrigerant	R134a
Airflow	260 CFM (442 m <sup>3</sup> /hr)
Battery	60 Amp battery charger
Weight	418 lbs (190 kg)
Oil change interval	1000 hr

[1] ARI conditions: 95°F (35°C) / 80°F (27°C) / 50% RH

## Electric APU **EcoSleeper Lite**

# Stay comfortable and save while you rest

Relax in peace and quiet, without engine noise. The MCC EcoSleeper Lite will always give you comfortable sleeping temperature during your down time, whether the heat of the day or warm nights.

Turn off the engine, set the climate with the Electronic Climate Controller and you turn down operating costs.

The MCC battery powered A/C system maintains an even temperature without using the truck's engine. The system is comprised of an Evaporator Unit, a Condenser Unit, a Compressor Unit and an Electronic Climate Controller.

It is easy to both install and maintain.

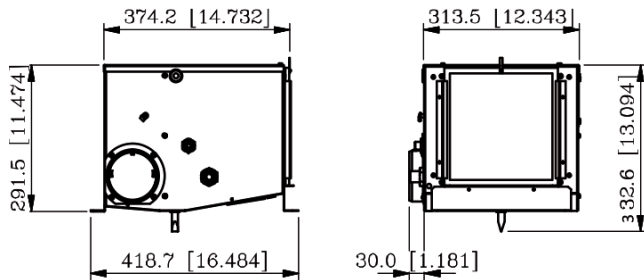


### Features

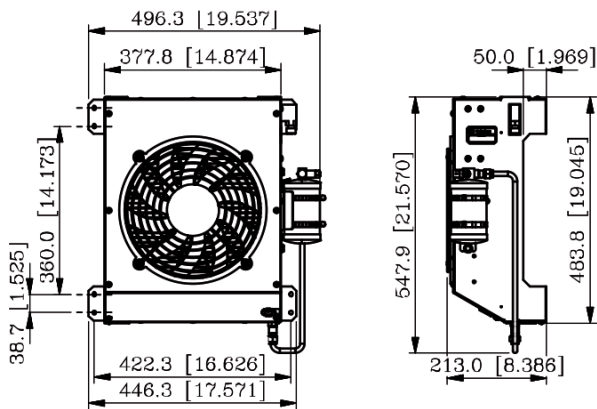
- Meets stringent anti-idling regulations
- Quiet operation less than 65dB
- Stand alone electronic climate control
- Unit run-time 8 hours (Using four AGM batteries)
- Simple unit installation and low maintenance operation
- Reduce engine wear
- Low battery voltage protection
- Fast payback
- Low weight
- Easy installation
- Low maintenance
- No fuel burned during cooling
- Advanced electronic climate control built in system
- Aluminum enclosure for durability
- Robust mounting kit options



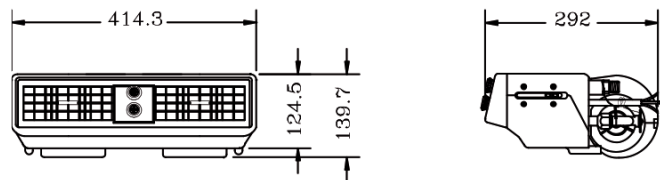
### Ducted evaporator unit



### Condenser unit



### Non-ducted evaporator unit













### Technical Data

	EcoSleeper Lite 8500	EcoSleeper Lite 13000
Cooling capacity (@95°F)	8500 Btu/hr (2.5 kW)	13000 Btu/hr (4 kW)
Run time (hrs)	Up to 8	Up to 8
Refrigerant	R134a	R134a
Number of batteries	4	4 + truck batteries
Voltage	12V	24V
Number of major components	4	4
Power Requirements	700 Watts Max	1200 Watts Max
Air flow	300 CFM (509.7 m <sup>3</sup> /hr)	300 CFM (509.7 m <sup>3</sup> /hr)
Approx. system weight without batteries	55 lbs (25 kg)	55 lbs (25 kg)

\*Truck alternator must be a minimum of 220 Amp capacity



# EcoPower 3500

P/N	Photo	Model
090-00611		<b>EcoPower 3500 APU Complete System with Auto Start Complete APU Assembly Package</b>
089-00019		APU
093-00838		Condenser Kit
093-00840		Install Kit
093-00842		Radiator Kit
093-00841		Duct Kit
093-00839		Hose Kit
090-00615		System Heat/Cool Kit
<b>Required Condenser Mounting Kit - Choose One</b>		
093-00849		Cab Mounting Condenser Bracket Kit
093-00850		Frame Mounting Condenser Bracket Kit
093-00851		Headache Rack Mounting Condenser Bracket Kit
<b>Optional APU Mounting System</b>		
Y72-25001-01		10" Frame No Drill Install Kit

# EcoSleeper Lite

P/N		Model	Btu/kW	Input Voltage
<b>A</b>				
Y-25-00037-00		Modular Compressor Box With No Cover		
Y-25-00039-00		EcoSleeper Lite 8500 King Leo	8500	12V
Y-25-00041-00		EcoSleeper Lite 13000 Bitzer w/ 24V - 12V DC to DC converter EcoSleeper Lite 13000 King Leo	13000 13000	12V 24V
<b>B</b>				
Y-24-00142-00		Covers Plain Cover <b>[Not Required when using integrated condenser cover assy]</b>		N/A
<b>OR</b>				
Y-54-00001-00		Cover Assembly with Integrated Condenser		12V
Y-54-00002-00		Cover assembly with integrated Condenser		24V
<b>C</b>				
50-1327		Evaporator and Condenser Modules		
50-1326		Rooftop based on "Ecoflex 6+" with evaporator and condenser Rooftop based on "Ecoflex 6+" with evaporator and condenser		12V 24V
<b>OR</b>				
13-0223		Day-cab plastic evaporator with louvers		12V
13-0224		Day-cab plastic evaporator with louvers		24V
<b>OR</b>				
13-2221		Under-bunk evaporator		12V
13-2222		Under-bunk evaporator		24V
<b>AND</b>				
14-4317		Remote condenser		12V
14-4316		Remote condenser		24V
<b>OR</b>				
14-4319		Undercab condenser		12V
14-4304		Undercab condenser		24V
<b>D</b>				
Y-19-IK0002-00		Compressor Box Mounting kit		
Y-19-IK0002-01		Floor Mount through floor of compressor box		N/A
Y-19-IK0002-03		Back wall mount through back wall of compressor box Frame/Wall bracket with HD support brackets		N/A N/A
<b>E</b>				
Y-19-IK0001-10		Refrigerant Hose/Elec Harness Kit		
Y-19-IK0001-10		10 foot Kit Class-8 Truck with Cond Jumper		12V/24V
Y-19-IK0001-25		25 Foot Kit Deliver Van with Cond Jumper		12V/24V
<b>F</b>				
35-1005		Driver Control MVC (Mini Vehicle Controller)		12V/24V
<b>G</b>				
Y-24-00121-00		MCC Recommended battery boxes		
Y-24-00122-00		In-Frame Aluminum (4 battery Merritt 258) Side-Frame Aluminum (4 battery Merritt 3505)		12V/24V 12V/24V
<b>H</b>				
35-1046		MCC Recommended Shore Power Charles Charger (120 VAC to 12 VDC 100 amp)		N/A