











What Sets Clima Cab Apart



- Longest Run Times... More BTU's/Hour 1.
- Data Collection/ Data Analysis
- Start Assist TM Jump Starts 3.
- Digitally Controlled A/C and Heat 4.
- Simple Installation w/ no Storage Loss 5.
- Performance Guarantees 6.
- 7. Reliability
- 8. Warranty



ClimaCab Means No Trade-offs





Diesel APU

- High fuel & maintenance costs (\$3,000 per year)
- Unlimited air conditioning and unlimited power for accessories

Underpowered Electric APU's

- Lower initial cost, high hidden costs, and operating costs.
- Limited climate control, or living with discomfort



Lower overall costs and a 13 month payback



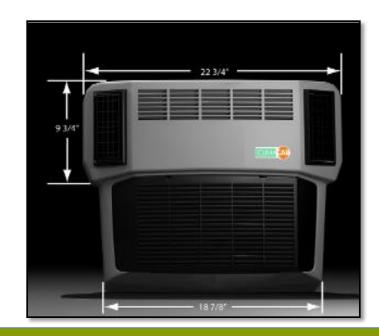
 10-15 hours of 70⁰ climate certainty, anywhere





Evaporator Module

- 8,000 BTUs per hour for over 10 hours
- Monitors cab temperature changes and adjusts speeds 1,000 times per second
- System intelligence matches the output to need
- High efficiency continuously variable speed fans
- Mounts to rear of sleeper and takes up no interior storage space

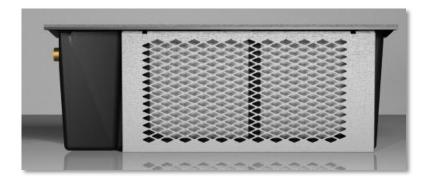


- Driver Retention
- Maximum run times
- Maximum A/C performance



Condenser Module

- Continuously variable speed 350V Brushless DC compressor
- Sophisticated software coordinates compressor speed with changes in temperature
- Mounts to underside of the cab
- Few moving parts means no maintenance



- Longer run times
- No maintenance cost or down time



Power Management Module

- Directs flow of energy between battery banks
- Patented 'Start Assist'
- Factory set charge profile
- Effectively increases alternator performance



- Ensures maximum run time and prolonged battery life
- Eliminates the need for an alternator upgrade
- Eliminates jump starts



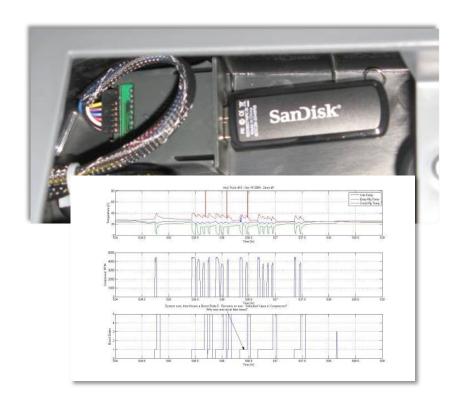
ClimaCab Touch Screen



- Easy to read back lit display
- Intuitive operation
- Fleet usage protocols
- Analyze operational data
- Diagnostic interface
- Integrates with Espar and Webasto heaters

- Maximum energy savings
 - Fleet management
 - Timely trouble shooting

The Data Logger



- System operation
- Duration
- Temperatures
- Compressor Speeds
- System States
- Battery Voltages

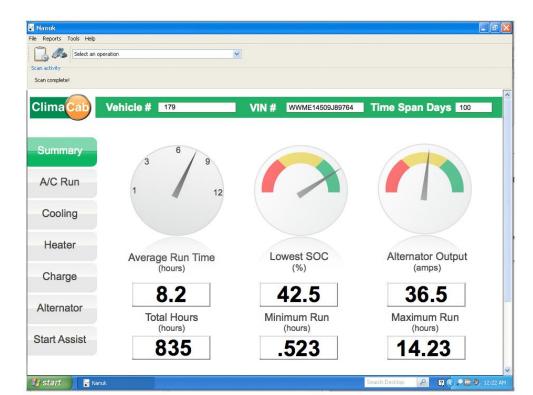
System operation records



ClimaCab Compass™

APU System Operation Documentation

- Every ClimaCab[®] unit comes equipped with a USB-based data port that collects runtime information
- The ClimaCab Compass™ program converts that data into management information you can use to monitor and control the use of your electric APUs
- Understand fuel savings, run time, battery state of charge, temperature averages etc.



Note:

Dashboard format in development
Data available now



ClimaCab ROI Comparison

	Truck Idle	Diesel APU	ClimaCab
Annual Idle			
- 8hrs/day, 5 days/week, 50wks/year	2000	2000	0
- Gallon per hour	1	0.3	0
- Annual fuel consumption/ gallons	2000	600	0
- Current price for diesel	3.87	3.87	3.87
- Annual Fuel Expense	\$7,740.00	\$2,322.00	\$0.00
- Annual Maintenance	\$0.00	\$700	\$0.00
Maintenance plan		\$400	
Oil / filters		\$300	
Annual operating cost	\$7,740.00	\$3,022.00	\$0.00
Annual Operating savings	\$0.00	\$4,718.00	\$7,740.00
Installed system		\$8,000	\$8,000
Incremental cost		\$0	\$0
- particulate filter			
Initial APU cost		\$8,000	\$8,000
Years of ownership (4 year trade)	4	4	4
Total Cost of Ownership	\$30,960.00	\$20,088.00	\$8,000.00
1 truck			

Head to Head

200 amp alternator required

No Thermostatic control

No Jump Start feature

than 8 hours

driver)

565 LBS

Single battery power management

Load Sharing needed run times greater

Mounted under bunk (takes storage from

Requires 8 Auxiliary AGM batteries

4 Year warranty on batteries

Diesel APU's

Not legal in all states

Burns .3 gallons of diesel / hr

Costs \$2,500-\$3,000/yr to

operate (counting fuel and

maintenance)

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ClimaCab	Bergstrom / ParkSmart	Tripac E	
8,000 BTU's/HR of Cooling	5,000 BTU's/HR of Cooling	7,200 BTU's/HR of Cooling	
10 + hours of runtime	6-8 hours of runtime	No mention of runtime	
Guarantees will exceed TMC RP-432 air	No Guarantees	No Guarantees	

275 amp alternator required

No Thermostatic control

No Jump Start feature

No Power Management

No Load Sharing feature

driver)

450 LBS

Mounts under bunk (takes storage from

18-24 month Pro-rated warranty on batteries

Uses 4 Auxiliary AGM batteries

conditioning spec

truck

cooling

bunk

466 LBS

batteries

No alternator upgrade required

Panasonic digital Thermostatic control

Start Assist feature Jump Starts the

Load Sharing allows up to 30 hours of

Takes no storage space from under the

Uses 4 Auxiliary AGM batteries

4 Year Full Replacement warranty on

Power Management Module



Comprehensive Safety Analysis

- Temperatures below 55F or above 75F disturb sleep and can create sleep apnea, a leading cause of driver accidents.
- Drivers simply set a desired temperature, then get a good night's sleep
- ClimaCab[®] maintains the temperature of the bunk area by constantly sensing the temperature and controlling its variable speed compressor
- Over 10 hours no-idle temperature control



