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The NITE Phoenix is the ultimate in battery-powered electric air conditioning systems. It is designed to keep sleeper compartments cool in even the hottest climates without idling the engine. Automatic temperature control assists in keeping the sleeper compartment at a comfortable temperature year round. NITE Phoenix is available in A/C only as well as a combo configuration that provides both cooling and heating capabilities. Optional heating systems will require small amounts of diesel usage.

The NITE Phoenix requires four additional auxiliary batteries that meet the following criteria: AGM (Absorbed Glass Mat), deep cycle group 27 or 31. Use of any non-approved battery technology will automatically void any warranty and may impede the performance of the NITE system. Lithium Ion battery technology is being developed for the Phoenix unit.

Please see www.nitesystems.com for updates.

To obtain information about any of the NITE systems go to www.nitesystems.com or call toll free 1-866-204-8570

CARB approved [# 08-643-004]

**NITE A/C System with Digital Controller**
- Cooling Capacity - 7500 BTU/h
- Voltage - 12 Volts D.C.
- Weight - 70 lbs.
- Unit Dimensions - 22.0" L x 17.0" W x 11.0" H
- Sealed hermetic system - eliminates refrigerant leaks
- Variable speed compressor - for greater efficiency
- All 12VDC components - requires no power inverter
- Brushless DC (BLDC) technology
- Patented technology

**Digital Controller**
- LCD Digital Display
- Auto Temp Control
- Diagnostic Broadcast
- Unit Runtime Broadcast
- Service Info Broadcast

**Battery Monitoring System**
- Provides data on any batteries state of charge
- Aux battery state of health
- Aux and truck batteries voltage

**Engineered Power Source System**
- Deep cycle battery system
- Maintenance-free design
- UL recognized
- Pressure relief safety valve
- Meets Mil-B-8565J for hydrogen gas emissions
- Low voltage cutout
# NITE Phoenix System

## Description Part No.

<table>
<thead>
<tr>
<th>Make Model</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>Freightliner Any model - Under bunk mounting</td>
<td>4420001</td>
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<tr>
<td>International 9000i Mfg before 06/02, 9000i Mfg after 06/02</td>
<td>4420002</td>
</tr>
<tr>
<td>International ProStar, LoneStar</td>
<td>4420007</td>
</tr>
<tr>
<td>Kenworth Classic Sleeper</td>
<td>4420001</td>
</tr>
<tr>
<td>Kenworth T2000</td>
<td>4420003</td>
</tr>
<tr>
<td>Kenworth Sofa Sleeper</td>
<td>4420008</td>
</tr>
<tr>
<td>Mack Vision, CH, CL, CXU, CXN</td>
<td>4420001</td>
</tr>
<tr>
<td>Peterbilt 377, 379, 386, 388, with 36&quot;, 48&quot;, or 63&quot; Sleeper</td>
<td>4420001</td>
</tr>
<tr>
<td>Peterbilt 387, 377, 379, 386, 388, 389 with 36&quot;, 48&quot;, or 63&quot; Sleeper with Window, 377, 379, 386, 388, 389 with 70&quot; Sleeper</td>
<td>4420004</td>
</tr>
<tr>
<td>Sterling A-Line</td>
<td>4420001</td>
</tr>
<tr>
<td>Volvo VN Classic Sleeper</td>
<td>4420001</td>
</tr>
<tr>
<td>Volvo VN 77” Sleeper 780 with Work Station, VN 61” Sleeper 670 with Work Station</td>
<td>4420005</td>
</tr>
<tr>
<td>Western Star 4900, 4900EX, &amp; 4900 Lomax</td>
<td>4420003</td>
</tr>
</tbody>
</table>

*For Batteries and Battery Box options, please refer to the Battery Specifications on page 31*
NITE Plus System

The NITE Plus air conditioning system is an all ELECTRIC, 12 VDC system, designed to maintain sleeper compartment comfort for 8 to 10 hours without requiring your engine to idle. NITE Plus is available in A/C only or Combo configurations that provide both cooling and heating capabilities. The optional Espar air-heating system sips just 0.03 to 0.06 gallons of diesel per hour.

The NITE Plus unit requires four batteries that meet the follow specifications: AGM (Absorbed Glass Mat), Deep Cycle, Group 27 or 31. Use of any non-approved battery technology will automatically void any warranty and may impede the performance of your NITE System.

**Please see www.nitesystems.com for updates.**

To obtain information about any of the NITE systems go to www.nitesystem.com or call toll free 1-866-204-8570

**CARB approved [# 08-643-004]**

**NITE A/C System with Smart Controller**

- Cooling Capacity - 4600 BTU/h
- Voltage - 12 Volts D.C.
- Weight - 70 lbs.
- Unit Dimensions - 22.0” L x 17.0” W x 11.0” H
- Sealed hermetic system - eliminates refrigerant leaks
- Variable speed compressor - for greater efficiency
- All 12VDC components - requires no power inverter
- Brushless DC (BLDC) technology
- Patented technology

**Smart Control System**

- Engineered duct work for optimum airflow
- Low voltage cutout

**Engineered Power Source System**

- Deep cycle battery system
- Maintenance-free design
- UL recognized
- Pressure relief safety valve
- Meets Mil-B-8565J for hydrogen gas emissions
- Low voltage cutout

**Engineered Power Source System**

- Deep cycle battery system
- Maintenance-free design
- UL recognized
- Pressure relief safety valve
- Meets Mil-B-8565J for hydrogen gas emissions
- Low voltage cutout

* For Batteries and Battery Box options, please refer to the Battery Specifications on page 31
Technical Specifications
• Performance - Cooling, 7,200 BTU/h (2.11 kW)
• Air Flow - 180 CFM (323 CMH)
• Current Draw - 25-55 amps @ 12 Volts D.C. (636 watts)
• System requires refrigerant charge

Features
• Split System: Condenser unit outside, evaporator unit inside cab
• 3 Fan Speeds
• Virtually Maintenance Free
• Quiet Operation
• Easy to Clean Interior Filter
• Optional Voltages, available on request

Construction
• Shell constructed with durable steel
• Electrified unit, runs on auxiliary AGM / deep cycle batteries (minimum 12v required)
• R134a Refrigerant

Weights and Dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>Interior Unit</th>
<th>Exterior Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>52 lbs</td>
<td>25 lbs</td>
</tr>
<tr>
<td>Length</td>
<td>23.6 kg</td>
<td>11.3 kg</td>
</tr>
<tr>
<td>Depth</td>
<td>10.9 in</td>
<td>18.9 in</td>
</tr>
<tr>
<td>Height</td>
<td>276.4 mm</td>
<td>480.8 mm</td>
</tr>
<tr>
<td></td>
<td>276.4 mm</td>
<td>167.8 mm</td>
</tr>
<tr>
<td></td>
<td>27.3 in</td>
<td>13.4 in</td>
</tr>
<tr>
<td></td>
<td>692.3 mm</td>
<td>339.1 mm</td>
</tr>
</tbody>
</table>

Warranty
• 1 year limited warranty on parts and labor

NITE Day Cab System

Description
• NITE, Electrified Day Cab System Standard Kit, includes external kit, internal kit, and Day Cab power kit
• NITE, Electrified Day Cab Installation Kit, includes all hardware for both the external and internal kits
• Battery Box Kit, holds up to 2 batteries, steel construction
• Battery, Quantity 1 (Trojan, Group 31, 12V)
• NITE Electrified Day Cab Combo (Webasto)
• NITE Electrified Day Cab Combo (Espar)

Part No.
3699029
3699030
4099131
3699031
3699038
3699037

NITE Battery Specifications

The NITE System is powered by 4 batteries which are recharged in approximately 4 to 6 hours while the truck is running down the road.

Requirements
• Group 27 or 31
• Deep Cycle

Performance
• Voltage - 6 VDC - 6 volt batteries must have a minimum of 110 amp hour rating
• Voltage - 12 VDC - 12 volt batteries must have a minimum of 105 amp hour rating
• Use of any non-approved battery technology will automatically void any warranty and may impede the performance of the NITE system

NITE Power System (AGM Batteries)
• Capacity - 440 amp hours
• Battery Life - 2+ years
• Operates - 8-10 hours
• Recharge Time - 4-6 hours
• Weight - 300 lbs.
• Dimensions - 12.93” L x 6.75” W x 9.34” H
• Alternator - add an additional 30+ amps

NITE System Add-On Options

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery, 13.42” L x 6.80” D x 9.21” H (Trojan)</td>
<td>3699032</td>
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<tr>
<td>Battery Box Options:</td>
<td></td>
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<tr>
<td>Battery Box Kit, Quantity of 2, each box holds 2 batteries, Dimensions: 20” L x 14.5” D x 12” H</td>
<td>3699010</td>
</tr>
<tr>
<td>Vertical Clamp on Aluminum Battery Box, holds 4 batteries, Dimensions: 16.45” L x 20.25” D x 24.2” H</td>
<td>3699025</td>
</tr>
<tr>
<td>Z Brackets Kit, Quantity of 2, used to mount steel battery boxes away from structure on frame rail</td>
<td>4499010</td>
</tr>
<tr>
<td>Lid Deck for Battery Box 27”</td>
<td>3699034</td>
</tr>
<tr>
<td>Lid Deck for Battery Box 28”</td>
<td>3699035</td>
</tr>
<tr>
<td>Between the Rail Aluminum Battery Box, holds 4 batteries</td>
<td>3699033</td>
</tr>
</tbody>
</table>

NITE Day Cab System

Description
• NITE, Electrified Day Cab System Standard Kit, includes external kit, internal kit, and Day Cab power kit
• NITE, Electrified Day Cab Installation Kit, includes all hardware for both the external and internal kits
• Battery Box Kit, holds up to 2 batteries, steel construction
• Battery, Quantity 1 (Trojan, Group 31, 12V)
• NITE Electrified Day Cab Combo (Webasto)
• NITE Electrified Day Cab Combo (Espar)

Part No.
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