



Idle Free Systems, Inc.

**APU Configuration Manual
System Build Information**



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This manual is intended to assist in understanding the various combinations of Modules, Kits, & Options, that can be specified when ordering an Idle Free system.

This book contains an “Idle Free Build Specification Sheet” (back cover).

The Idle Free Build Specification Sheet is an ordering form that can be copied, filled out and used to place an order.

Please call Idle Free Support with System Configuration questions, **920 206 6900**.

The Idle Free Configuration Manual can be used to determine:

1. Available Exterior, frame mounted **APU Component Options**
 - a. Exterior APUs
 - b. Battery Boxes
 - c. Heat/No Heat
2. The **Space Requirements** for the Idle Free APU Modules
 - a. Exterior APUs
 - b. Battery Boxes
 - c. Evaporator
 - d. Under Bed Module
3. The Options available for exterior **APU Mounting** on the truck’s frame
 - a. Frame Brackets
 - b. Frame Clips
 - c. Frame Offset brackets
 - d. Truck Exhaust reconfiguration Kit
4. **Evaporator Placement**
 - a. Closet
 - b. Shelf
 - c. Specific truck brand evaporator placement options
5. Proper boxes checked (68001, order sheet) on the **Build Specification Sheet** (last page of this manual).

System Modules

The Idle Free system contains three basic System Modules:

1. **APU**
2. **Evaporator**
3. **Under Bed Module (UBB)**

APU

The Idle Free system's exterior enclosure(s) are mounted on the truck's frame and are available in two variations:

- A. APU with Batteries (Page 5)
- B. HVAC (No batteries) (Page 6)

Both enclosure options come with an air conditioner and a coolant heater. The two enclosures differ in that the APU includes AGM batteries plus a battery separator while the HVAC unit includes the air conditioner and the coolant heater.

When an HVAC unit is installed, a separate bank of AGM batteries is needed.

The options available for the approved battery enclosures are:

1. Truck battery box (empty, ordered from OEM)
2. Between the Frame Battery Box (#91101), (Page 7)
3. Frame mount Battery Box (91102), (Page 8)

Evaporator (Page 9)

The Idle Free Evaporator will be installed in the truck's interior on a closet shelf or within the closet itself.

Under Bed Module, UBB, (Page 9)

The Under Bed Module (UBB) is mounted to the floor of the bunk, under the bed. The UBB is the connection point for all IFS Modules and contains a sine wave power inverter as well as a AC to DC power converter (Shore Power)

APU
(Batteries - lower level)

A



B

HVAC Unit
(No Batteries)



Two APU (exterior) options are available so as to be able to work around truck frame mounted components that prevent a Standard APU Frame mounting (page 5). The exterior APU is available with or without AGM batteries located within the APU enclosure. Both APU options include an air conditioner and both options can include a coolant heater.

Truck Components that prevent a Standard APU mounting include:

1. Exhaust systems
2. Air Dryers
3. Air Tanks
4. Pumps
5. Oil Tanks

Moving truck components that are in the way of mounting a Standard APU may be prevented if an IFS HVAC unit along with a separate battery box is used.

The **Footprint** or space requirements for a **Standard APU** are located on Page 5.

The **Footprint** or space requirements for a **HVAC unit** are located on Page 5 & 6.

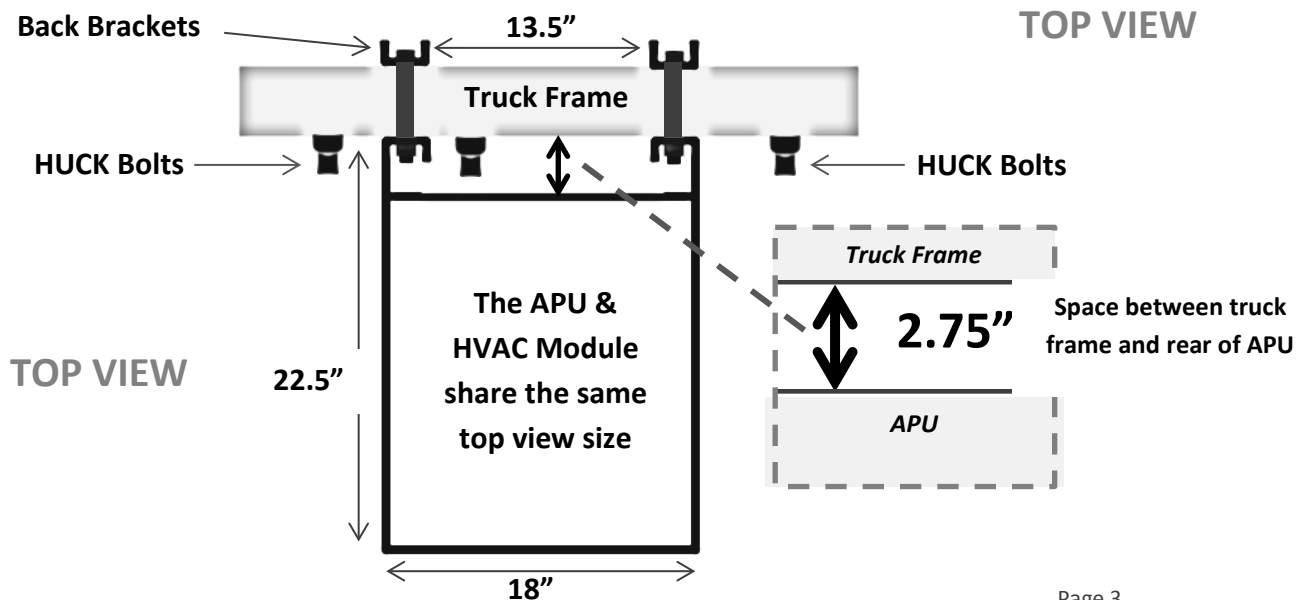
When selecting the HVAC unit, a separate battery box will need to be used. Refer to pages 7 & 8 to determine what battery box option will work for your application.

Truck Frame Obstacles

Truck Frame Huck bolts may be present on the Face of the truck’s frame, where the Idle Free APU is to be located. These Huck bolts may or may not prevent the mounting of the APU.

Both frame mounted Idle Free APU options contact the truck’s frame in the same manner (see below). Huck bolts can be present behind the Standard APU or the HVAC Unit if they do not extend from the truck’s frame face more than 2.75”.

Truck frame huck bolts that are present at the location of the APU mounting face can be dealt with by using the Idle Free **Offset Bracket Kit**, see page 15.

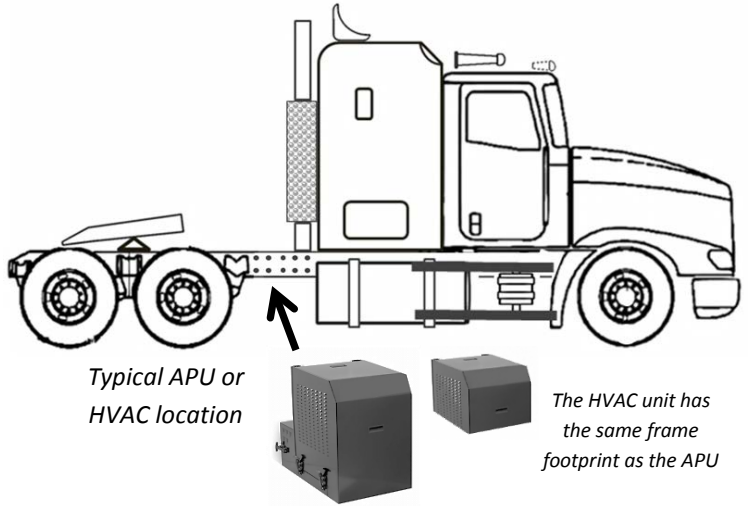


APU & HVAC Module Location (exterior)
 APU & HVAC Frame Rail Placement

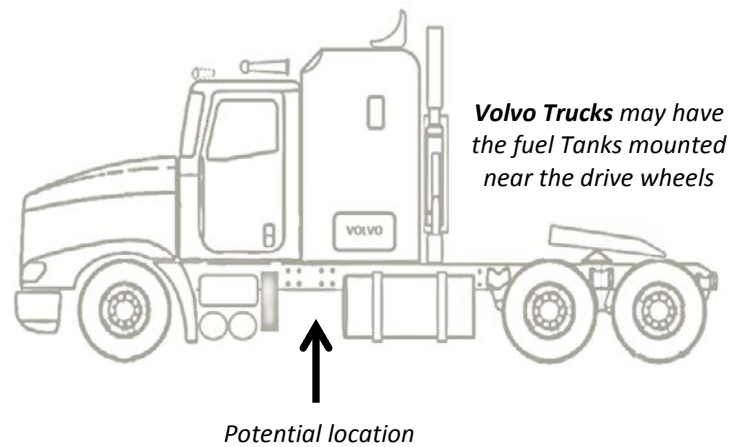
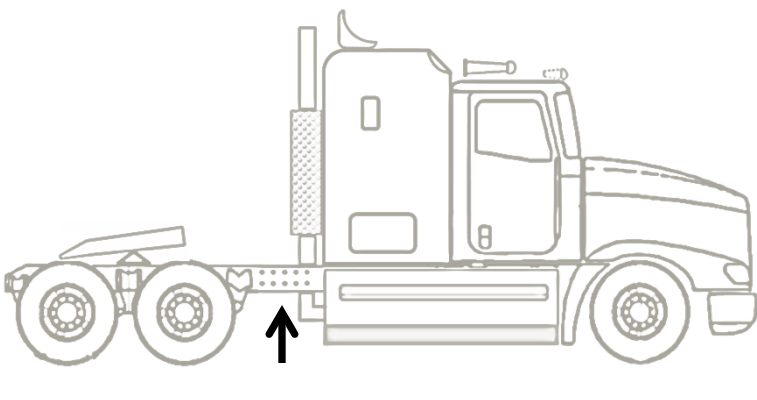
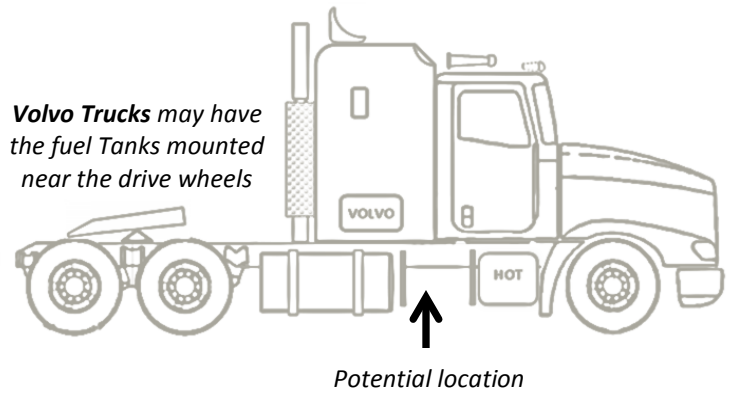
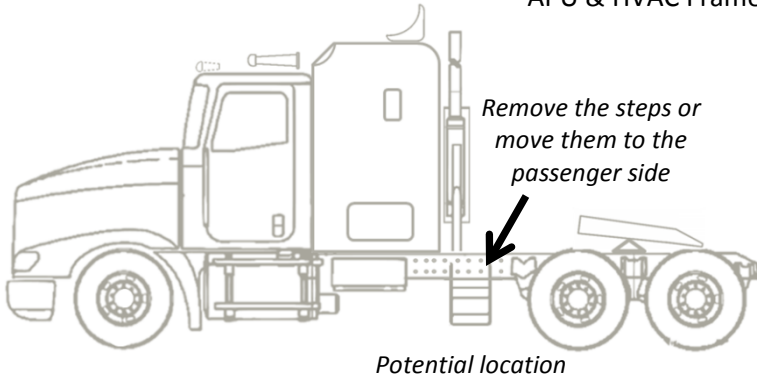


The Idle Free (exterior) APU & HVAC Modules are mounted onto the trucks frame rail.
 The typical location for these Modules is the passenger side of the truck, behind the fuel tank, in front of the drive wheels.

If Space is not available on the passenger side, other frame locations may be available.



Alternative Exterior Mounting Locations
 APU & HVAC Frame Rail Placement



Truck with Side Fairings
 The APU or the HVAC unit typically fit behind the truck's side fairings



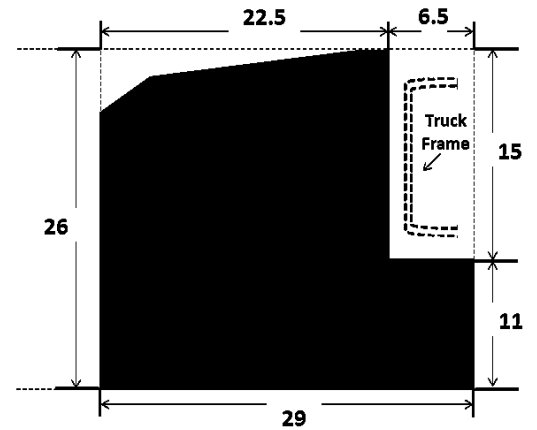
IFS Part #91001

APU, Standard

Description

The Standard APU mounts on the frame rail of the truck.
 The IFS Frame mounted APU requires at least 20 inches of open frame rail space along with 24 inches of clearance between the fuel tank and the rear ¼ fenders.
 The Standard APU extends under the frame of the truck 5 inches.

APU SIDE VIEW



IFS Part #91002

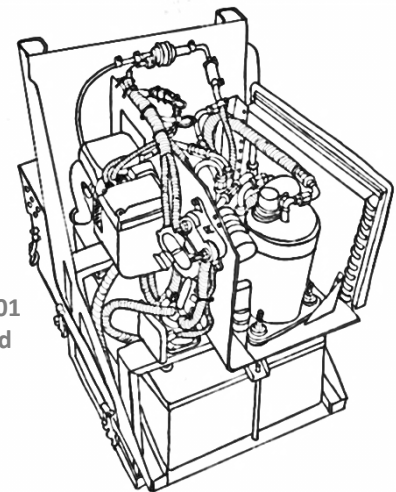
APU, No Coolant Heater

The APU, no coolant heater, has the air conditioner (only) located on the upper level.
 This unit uses the same enclosure as Kit #91001.
 A bank of 4 AGM batteries is located on the lower level of the APU.

IFS Part #91003

APU, No Batteries

The APU, no batteries, includes an air conditioner and a water heater located on the upper level.
 This unit does not have AGM batteries in the lower level.
 This option allows the customer to install their own AGM batteries or use the lower level of the APU for storage



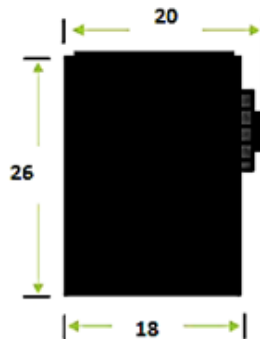
IFS Part #91001
 APU, Standard

IFS Part #91004

APU, No Heat, No Batteries

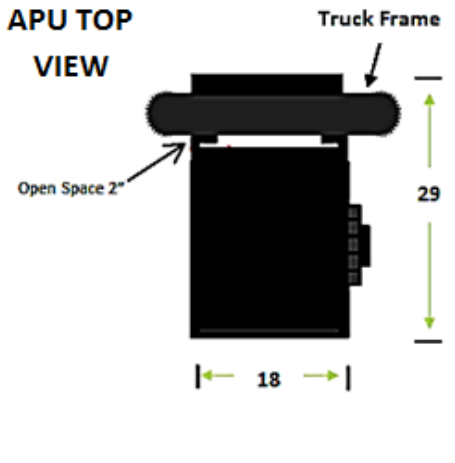
The APU, no heat, no batteries includes an air conditioner only and an open battery box below.
 The open area can be used for customer batteries or for storage.

APU FRONT VIEW



Allow at least 22 inches, for the APU, between truck frame mounted components

APU TOP VIEW



HVAC, Standard

IFS #91005
HVAC, Standard

IFS #91006
HVAC, No Heat

The HVAC Standard Unit includes an air conditioner and a water heater.
 The HVAC, "No Heat Unit" has an air conditioner only.
 The 91005 units & the 91006 units do not contain AGM batteries within their enclosures.

The HVAC Standard & the HVAC, No Heat units allow the customer to locate a battery box away from the APU, in another area of the truck.

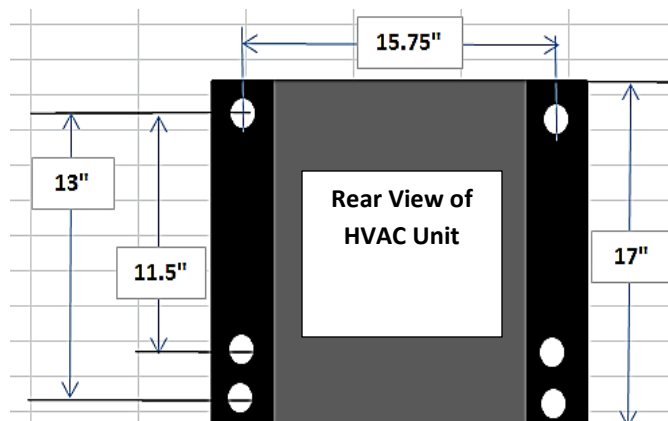
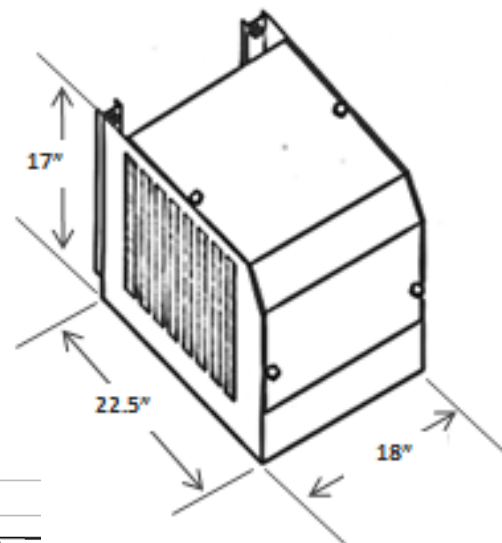
Two Idle Free battery Box Kits are available for use with the HVAC Standard Unit and the HVAC, No Heat systems:

- A. #91101 (Page 7)
- B. #91102 (Page 8)

Both of these battery box enclosures are made from aluminum and contain 4 each Group 31, AGM batteries.
 Please look at the space requirements for the frame mounted HVAC units.



HVAC Unit
 (No Batteries)
 Available with or without a
 coolant heater



The In Frame Battery Box is **One of Two Battery Box Options** you can obtain from Idle Free systems when you are using the **HVAC Module**. The alternative to the **In Frame Battery Box** is the **Frame Mount Battery Box**. Information regarding the Frame Mount Battery Box is located on the next page.

IFS #91101

Battery Assembly, In Frame

The In Frame Battery Box assembly is used in combination with the HVAC enclosure. This combination allows for installation onto trucks that have components preventing the use of the Standard IFS APU module.

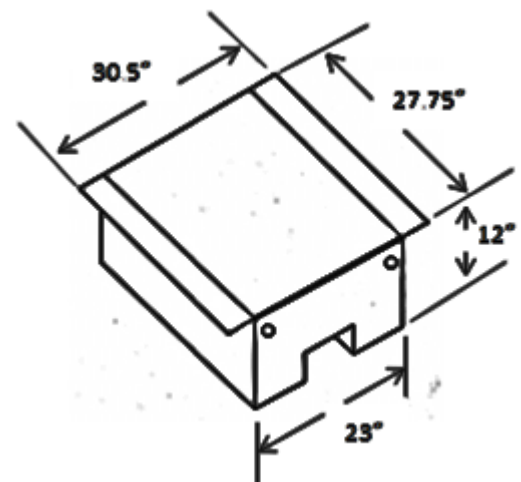
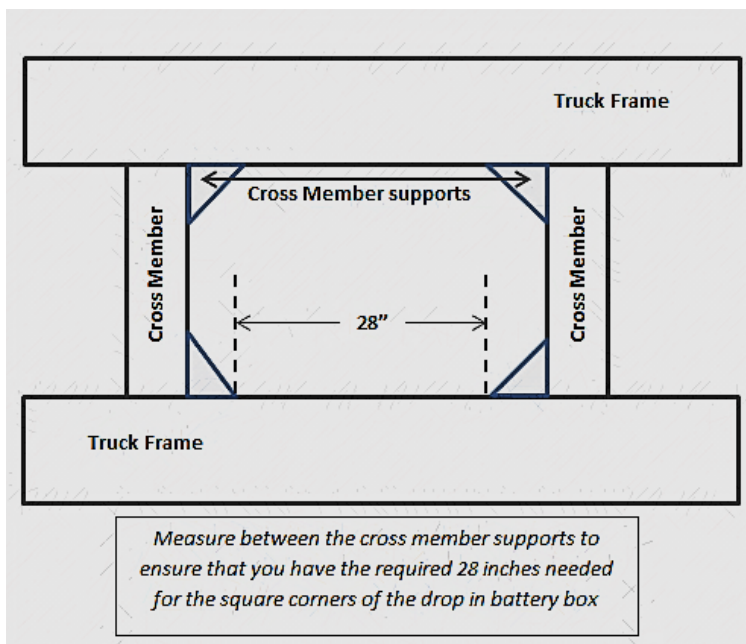
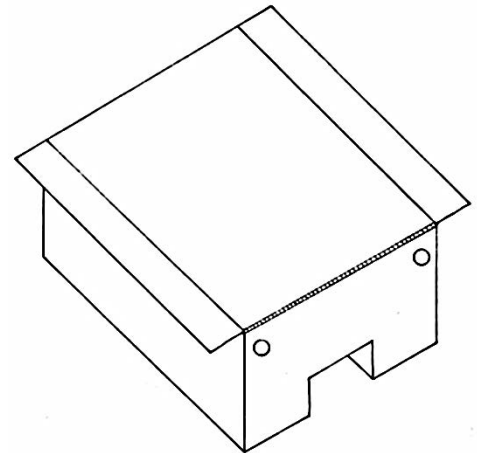
The In Frame battery box is mounted between the truck’s frame rails, behind the sleeper.

The In Frame battery box assembly replaces the truck’s step deck and has a hinged lid for battery access.

This enclosure contains:

1. 4 AGM Batteries
2. Cables (connected)
3. Battery Separator
4. Fuse
5. Panel-mount connectors.

The In Frame battery box requires about 28 inches of clearance between truck frame cross members. This needed space requires “square” drop in clearance to accommodate the square corners of the In Frame battery box.



The cutout on the bottom of the battery box allows for driveshaft clearance.

The Frame Rail Battery Box is **One of Two Battery Box Options** you can obtain from Idle Free systems when you are using the HVAC Module. The alternative to the **Frame Rail Battery Box** is the **In Frame Battery Box**. Information regarding the In Frame Battery Box is located on the previous page.

IFS #91102

Battery Assembly, Frame Rail Battery Box

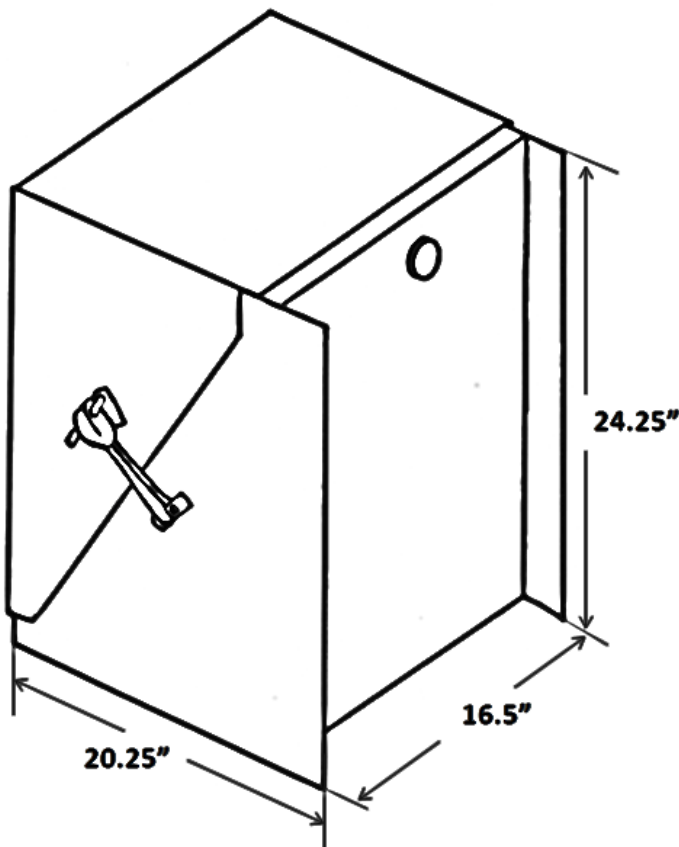
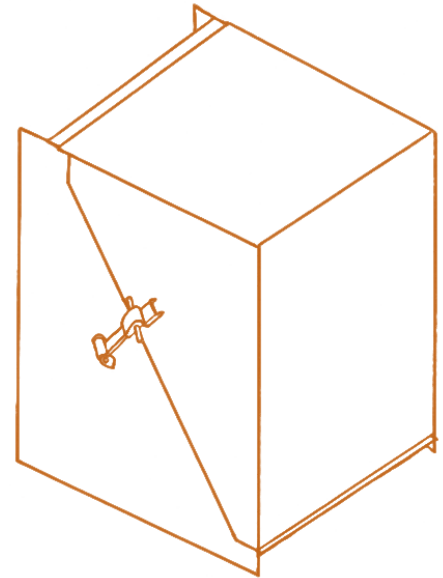
The Frame Rail Battery Box assembly is used in combination with the HVAC enclosure. This combination allows for installation onto trucks that have components preventing the use of the Standard IFS APU module.

The Frame Rail battery box is mounted onto the trucks frame rail.

This enclosure contains:

1. 4 AGM Batteries
2. Cables (connected)
3. Fuse
4. Frame mount Brackets & hardware

The Frame Rail battery box does not include a Battery Separator. The needed battery separator will be shipped with this assembly and will need to be mounted in or near the truck's battery box.



The Frame Rail battery Box is mounted to the truck's frame using two 24 inch angle irons.

The angle irons have holes drilled to accept one of the Idle Free mounting kits (see page 12).

The angle irons needed and the hardware needed for mounting the angle irons to the Frame rail battery box is included with the Frame Rail Battery Box, when ordering Kit #91102.

IFS # 91201

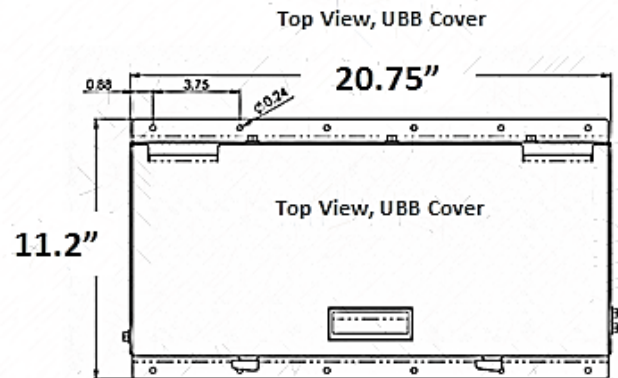
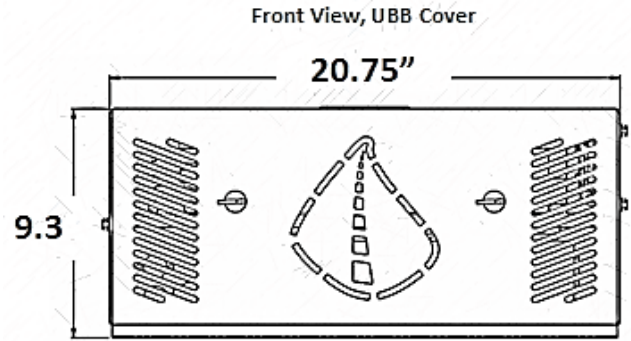
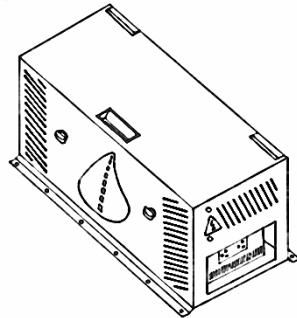
Power Module

The Power Module *is included with all APU and HVAC systems.*

The Power module is installed on the bunk floor, under the bed.

The Power Module contains:

1. 1500 watt, sine wave inverter
2. 55 AMP AC to DC Power Converter
3. Fuse Panel
4. Relay Pack
5. APU, Shore Power, Ignition, OEM Fan, Evaporator Fan, Thermostat, & Volt Meter connection points.
6. APU to Power Module DC connection posts.



IFS #91301

Evaporator

The Evaporator *is included with all APU and HVAC systems.*

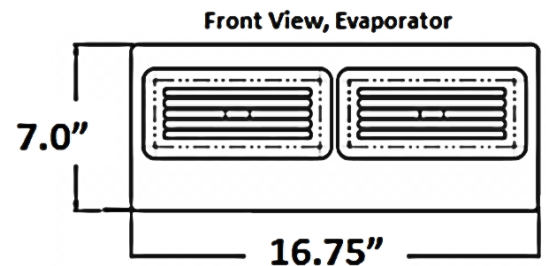
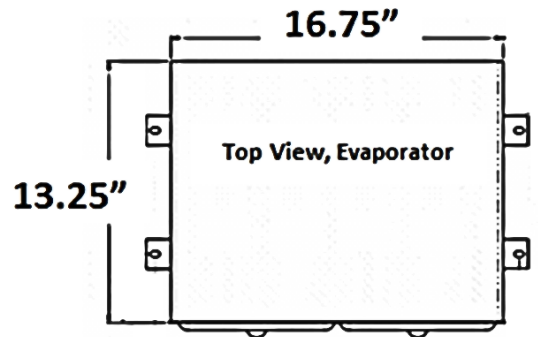
The evaporator is installed in a closet, typically on the same side of the truck as the APU or HVAC Unit.

The evaporator has 2 Freon lines and a drain tube the run out through the bunk floor.

The Freon hose connect at the rear of the APU or HVAC unit.

The Freon connections use "Quick Connect" connectors that enable the all Idle Free A/C units to be shipped with the correct level of Freon in place.

R 134A Freon Ports are in place at the Freon connection points.



The **Idle Free Standard Installation Kit** contains the cables that run between the frame mounted APU or Battery box, connecting the Under Bed Box and the Truck's battery Box, to the Idle Free System. This installation kits also include harnesses that connect IFS modules together.

Idle Free Heater Installation Kit

If a coolant heater is a part of the system being ordered, the Heater Installation Kit will be used during the time of system installation.

IFS #91401

Install Kit Standard

IFS Kit 91401 includes hardware and components that are needed to install or connect IFS components.

These include:

- DC Cables
- Fuse and Fuse Holder
- Floor Collars
- 120 VAC Power Strip
- Thermostat
- Volt Meter
- Harnesses
- Driver manuals
- IFS Quick Start Guide

IFS #91404

Install Kit, Frame Rail Battery Box

IFS Kit 91404 is used and automatically comes when Battery Box Option 91102 is ordered.

Kit includes:

- DC Cables
- Fuse and Fuse Holder (3 each)
- Floor Collars
- 120 VAC Power Strip
- Thermostat
- Volt Meter
- Harnesses
- Driver manuals
- IFS Quick Start Guide
- Battery Separator

IFS #91501

Heater Install Kit

The Heater Install Kit is required on all IFS systems that include the Coolant Heater.

This Kit will automatically be included if you order Frame Rail Units:

- 91001
- 91003
- 91005

Heater Installation Kit 91501 includes:

1. Heater Hose, $\frac{3}{4}$ " X 12'
2. Heater Hose, $\frac{5}{8}$ " X 12'
3. Hose Clamps
4. Fuel Line
5. Fuel Pick-up Tube
6. Fuel Tank Installation Hardware
7. Hose Adapters
8. Heater Manual
9. Cable Ties

IFS Part #91601

Shore Power, Standard

Shore Power is a part of all Idle Free Systems.

The IFS Standard Shore Power Kit is used for all trucks **without** the **Cab Power** Option.

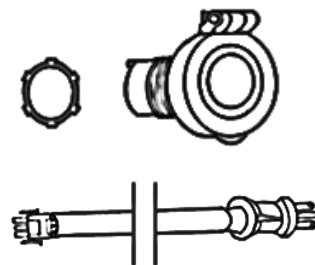
Prior to ordering any Idle Free System, ensure that the truck **does not have** the Cab Power Option.

The **Cab Power** Option is available on all truck brands but is typically found on **Mack** and **Volvo** Trucks.

The Idle Free Standard Shore Power Kit (#91601) includes:

1. Shore Power Cord
2. Shore Power Socket with Flip Lid

Standard Shore Power Kit
91601



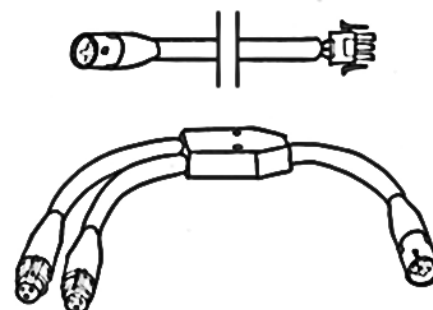
IFS Part #91602

Kit, Cab Power "Y"

The Cab Power "Y" Kit includes:

1. Cab Power "Y" harness used to split the incoming Shore Power between the OEM installed 120VAC outlets and the IFS AC to DC Power Converter.
2. Male Cab Power cord allows, "PLUG and PLAY" connections for the incoming Shore Power into the IFS Power Module.

Cab Power "Y" Kit
91602



The IFS Cab Power "Y" Kit is used for all system installations that have the **Cab Power** Option **with a Factory Installed Inverter**.

Trucks that are built with a factory installed inverter/charger already have an exterior 120VAC "Plug-In" socket. The Idle Free Cab Power "Y" Kit plugs into the OEM Cab Power harness. The IFS Cab Power "Y" Kit enables the OEM Cab Power system and the Idle Free System to share the 120VAC power inlet (socket).

Prior to Ordering an Idle Free System check:

1) Does the Truck have the Cab Power Option? The Cab Power option would include 120 volt outlets in the sleeper. The Cab Power Option would have a Cab Power enclosure located in the driver's bunk side box, left wall mount location.

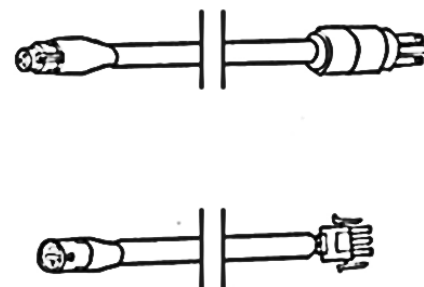
2) If the truck has the Cab Power Option, determine if the truck has a factory installed inverter. Look for an inverter switch on the panel above the driver's seat.

Factory installed inverters are typically found in Volvo & Mack Trucks.

If the truck has Cab Power **without** a factory installed inverter, order **Kit #91603**.

If the truck has Cab Power **with** a factory installed inverter, order **Kit #91602**.

Cab Power Kit
91603



IFS Part #91603

Cab Power Kit

The Cab Power Kit includes:

1) Female Cab Power cord, plugs into bottom of the Cab Power box, male plug on opposite end connects directly into the Idle Free inverter outlet.

2) Female Cab Power cord, plugs into factory installed Cab Power, 120 volt harness and the back side of the Idle Free Under bed box.

The Idle Free exterior frame mounted modules require mounting Brackets or aluminum mounting Clips so as to be able to clamp or attach onto the truck's frame.

Two frame mounting options are available.

The Standard Kit includes hardware and mounting brackets.

The Frame Clip kit includes 4 aluminum frame clips and the needed hardware.

IFS Part #91701 & #91702

91701 - Mount Kit, Standard

91702 - Mount Kit, Aluminum Frame Clips, (4 each)

91701

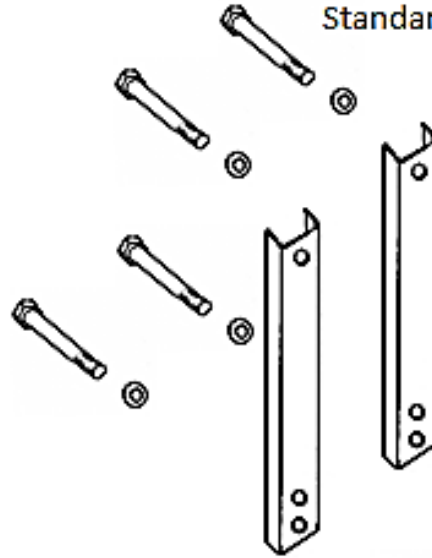
The IFS Standard Mount Kit Clamps the APU to the Truck's Frame using 2 steel channels.

The Standard Mounting Kit includes:

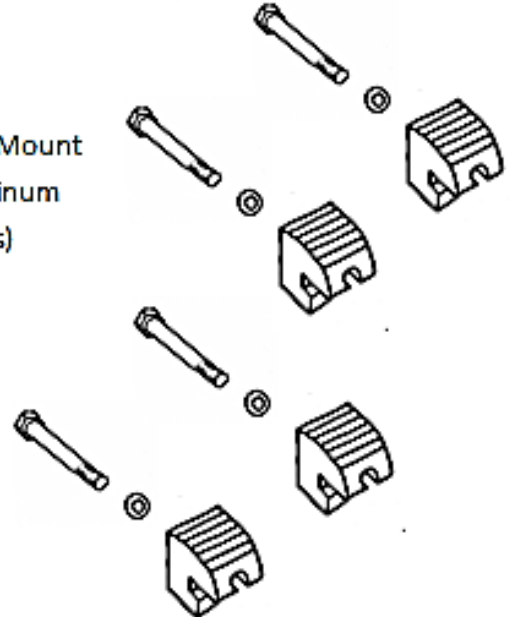
1. Two Steel Channels
2. Four 5.5" (5/8") GR8 Bolts
3. Four (5/8") GR8 Washers

The Idle Free APU uses weld nuts (on the APU's frame) to receive the 5.5" GR8 mounting bolts, no frame drilling is required.

91701 - The IFS Standard Mount Kit



91702 - The IFS Mount Kit (with Aluminum Frame Clips)



91702

The IFS Mount Kit (with Aluminum Frame Clips) is used on mounting applications where obstacles prevent the use of Standard Frame Brackets.

The Idle Free Mount Kit using Aluminum Frame Clips includes:

1. Four Aluminum Frame Clips
2. Four 6.0" (5/8") GR8 Bolts
3. Four (5/8") GR8 Washers

The Idle Free APU uses weld nuts (on the APU's frame) to receive the 6.0" GR8 mounting bolts, no frame drilling is required.

IFS Part #91801

Harness Kit, OEM HVAC, Universal

The OEM, HVAC Universal harness is used when the Coolant Heater is a part of the APU or HVAC Unit. When Frame Rail Units 91001, 91003, or 91005 are ordered, Kit 91801 is automatically included.

The 91801 Harness Kit is plugged into the back of the IFS Power Module and routed to the connections points specified in the OEM HVAC wiring instructions (included in this Kit).

Truck specific wiring instructions enable the truck’s bunk blower fan to run using the IFS AGM battery bank whenever the Idle Free Thermostat is placed in the Heat Mode.



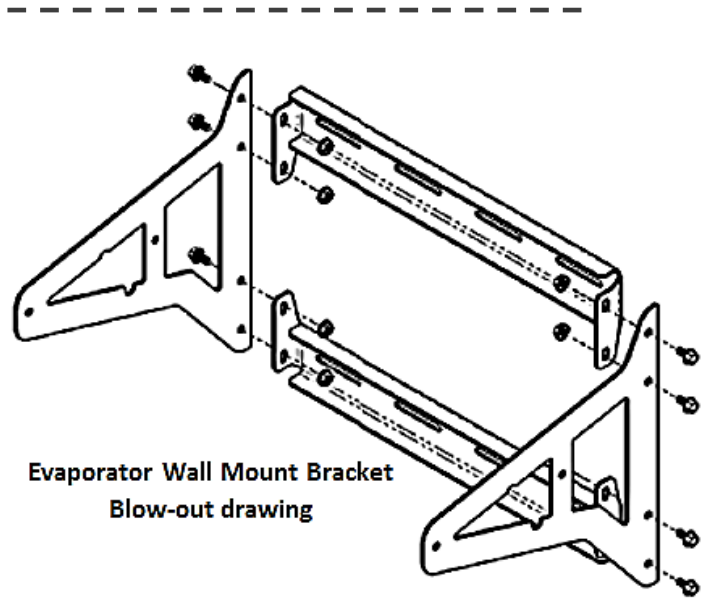
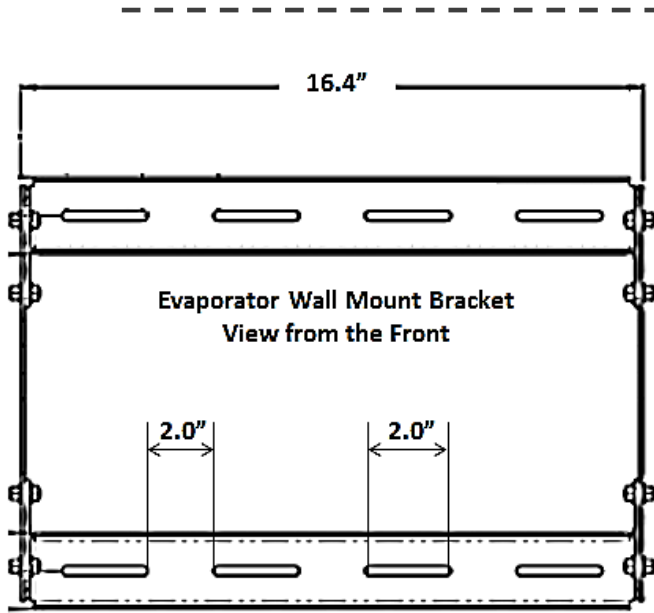
IFS Part #91904

Bracket Kit, Evaporator Wall Mount

The Evaporator Wall Mount bracket is used when the Idle Free Evaporator will be located on the side wall of the bunk or closet.

The evaporator mounting bracket is attached to the closet wall using bolts, nuts, and washers.

The evaporator mounting bracket is attached to the bunk wall using bolts, Riv-nuts, and washers.



IFS Part #91901

ReeferLink Kit, All Sections – (Option at an additional cost)

The Idle Free ReeferLink Connection Kit enables the Idle Free APU batteries to be charged using the Refrigerated Trailer's alternator.

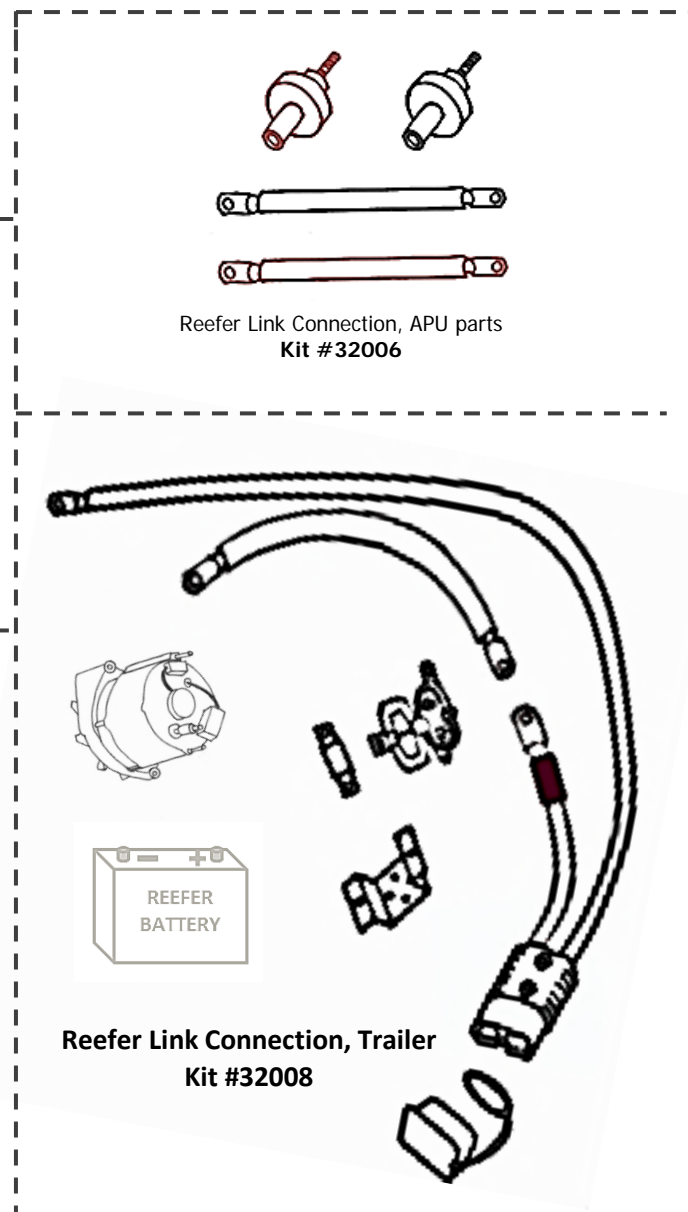
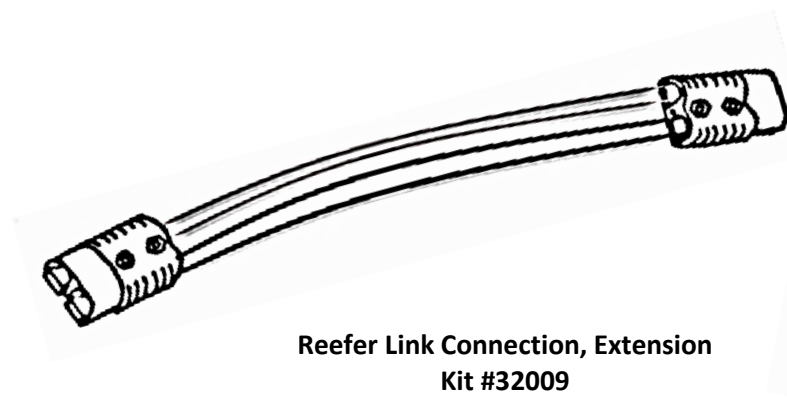
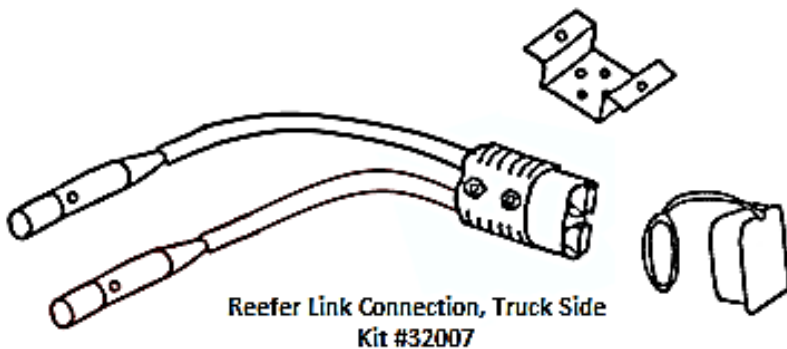
The DC connection between the Reefer Unit and the APU can be used for:

1. Starting the Reefer Unit using the Idle Free APU Battery Bank
2. Running the Idle Free APU using the Reefer Alternator Power
3. Supplying the truck's DC power for running the reefer unit in the event of a Reefer alternator failure.
4. Supplying the Reefer's DC power to the truck in the event that the Truck's alternator fails.

The Idle Free ReeferLink Kit can be added to all Idle Free Systems by ordering Kit #91901.

The ReeferLink Kit consists of 4 components:

1. APU Internal cable connections #32006
2. Truck Cables, mount bracket + connectors #32007
3. Trailer (Reefer Unit), Cables, mount bracket + connectors #32008
4. Interconnect Cable Set, (Truck to Trailer) #32009



**IFS Part #91902
Offset Kit, Frame Rail Unit, 2"**

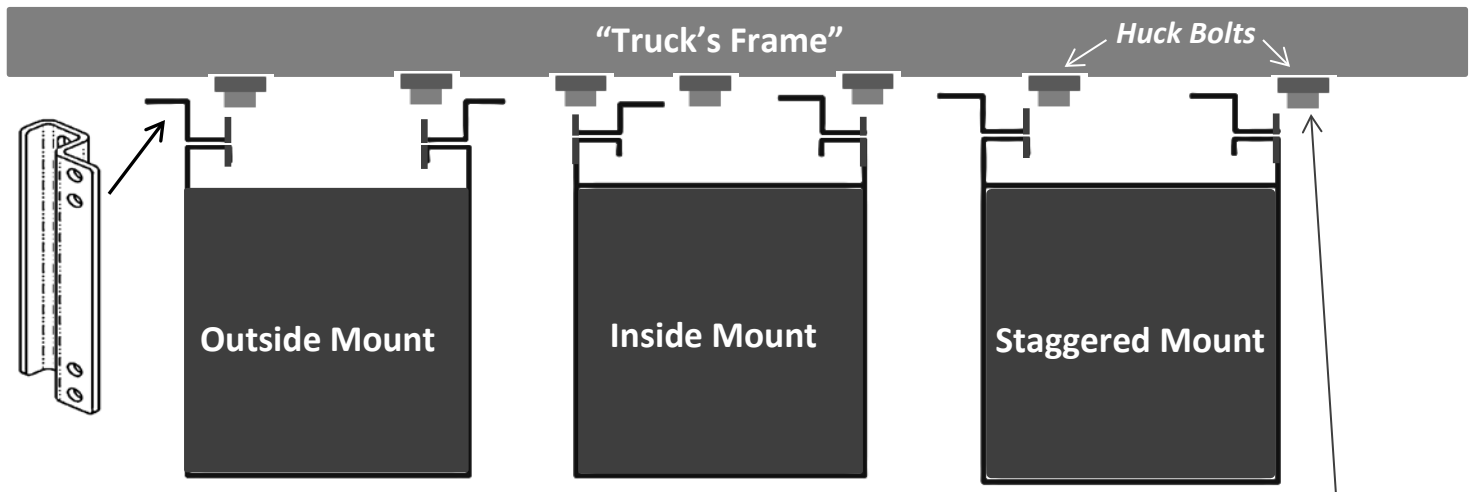
The 2" Offset Kit is used to mount the APU or the HVAC Unit to the trucks frame.

The 2" offset is required when the space for mounting the APU or the HVAC Unit is not available due to obstacles on the frame.

The Offset Kit includes 2 "Z" brackets and all of the needed hardware to mount the APU to the truck's frame.

The Offset brackets can be used to spread the mount to the outside of the APU or HVAC unit, or they can be used to mount to the truck's frame toward the inside, of the trucks frame, behind the APU.

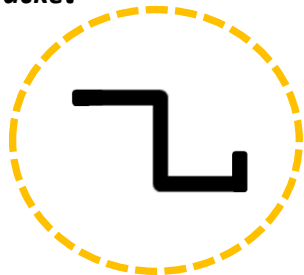
The Offset brackets can be used in any manner that will enable the APU to me secured to the trucks' frame.



3 Top Views of APU using different configurations

Huck Bolts, can extend 2.75 inches from the truck's frame.

Top View of Offset Bracket

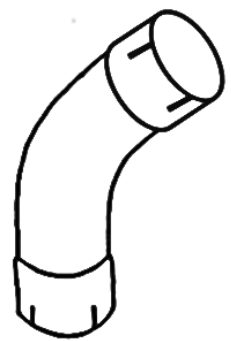
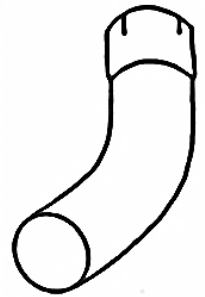
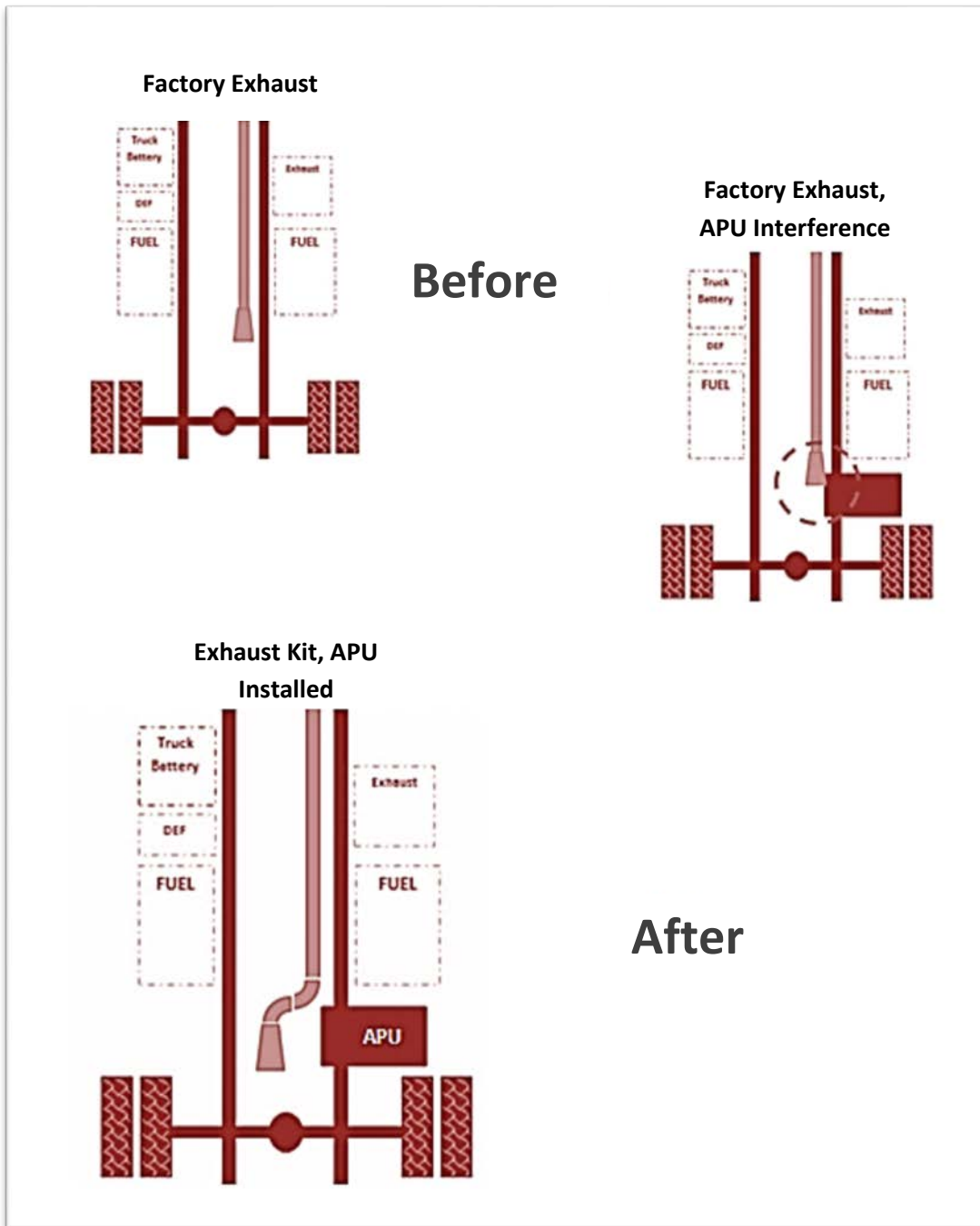


Offset bracket, Kit contains 2 Brackets and the needed mounting bolt sets

IFS Part #91905

Exhaust Kit, 45° Elbow, Cascadia

The 45° Exhaust Kit is used on trucks with horizontal exhaust systems (belly exhaust). The 45° Exhaust Kit is used when the truck's exhaust exits near the Idle Free APU. This Kit uses (2 each) 45's that move the truck's exhaust behind and around the APU. The APU warranty is **VOIDED** if the truck's exhaust is not routed clear of the APU.

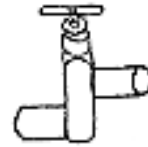


IFS Part #91906

Bypass Kit, Kenworth Water Valve

The KW Water Valve Bypass Kit can be used on trucks that use a coolant water valve to regulate coolant flow to the bunk's heater core.

Many Kenworth trucks use a coolant water valve for bunk heat regulation. This valve is not required for all Kenworth applications, only those that control bunk heat using a water valve instead of a Blend Door.



The Kenworth Water valve bypass Kit includes:

1. Adjustable Water Valve with a built in bypass circuit
2. Hose clamps
3. Heater Hose
4. Hose Adapters
5. "Y" fittings



IFS Part #91907

Custom Paint, Frame Rail Units

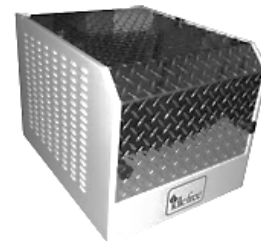
The Idle Free HVAC units and the APU units are painted with Black Paint.

The Idle Free paint process (for all IFS medal components) has 12 steps including an E-Coat primer application and Powder Coating.

Alternative Paint Options are available for an added cost. Please allow extra time for the custom paint option.

Contact your sales representative for pricing, availability, and time for delivery.

HVAC Unit, Painted White

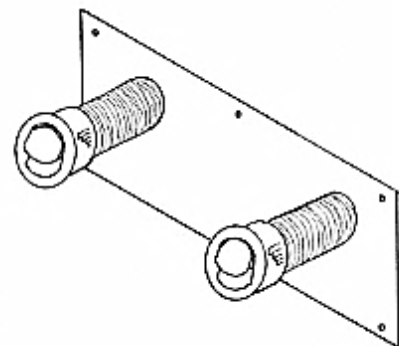
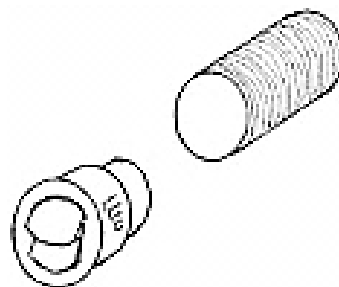


IFS Part #91910

Evaporator Kit, Freightliner, Upper Closet

The Idle Free Freightliner Evaporator Kit can be used in many Freightliner upper closets.

This optional Installation Kit includes all needed parts and installation instructions.



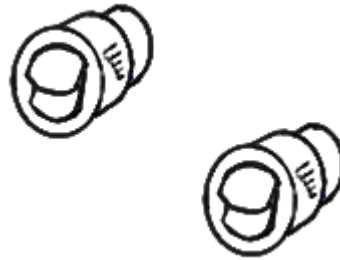
IFS Part #91911

Evaporator Kit, Volvo, Upper Closet

The Evaporator Kit used For Volvo upper closet allows the Idle Free evaporator to be located behind that Volvo factory closet Face.

Volvo Evaporator Kit Contains:

- Foam Filter
- Installation instructions
- Template
- 2 each, 3 " Round Louvers, 3"



IFS Part #91912

Freon Hose Guard

The Idle Free Freon Hose Guard can be used to cover exposed Freon lines that are routed between the Evaporator and the Bunk Floor. The Freon Hose Guard is typically used when Freon lines are exposed in the bunk living area.



The Idle Free Freon Hose Guard comes as a 5 foot section, cut to fit.

The Idle Free Dealer's Display is available in two configurations.

Both Dealer Display Kits are shipped assembled and include Casters (4) and a one gallon condensate bottle.

The Dealer Display Kits are available in the following configurations:

1. **Dealer Display with an APU**, includes a thermostatically controlled, fully functional air conditioner, also includes a coolant heater that is operational but without any fuel or coolant lines connected to the Coolant Heater.

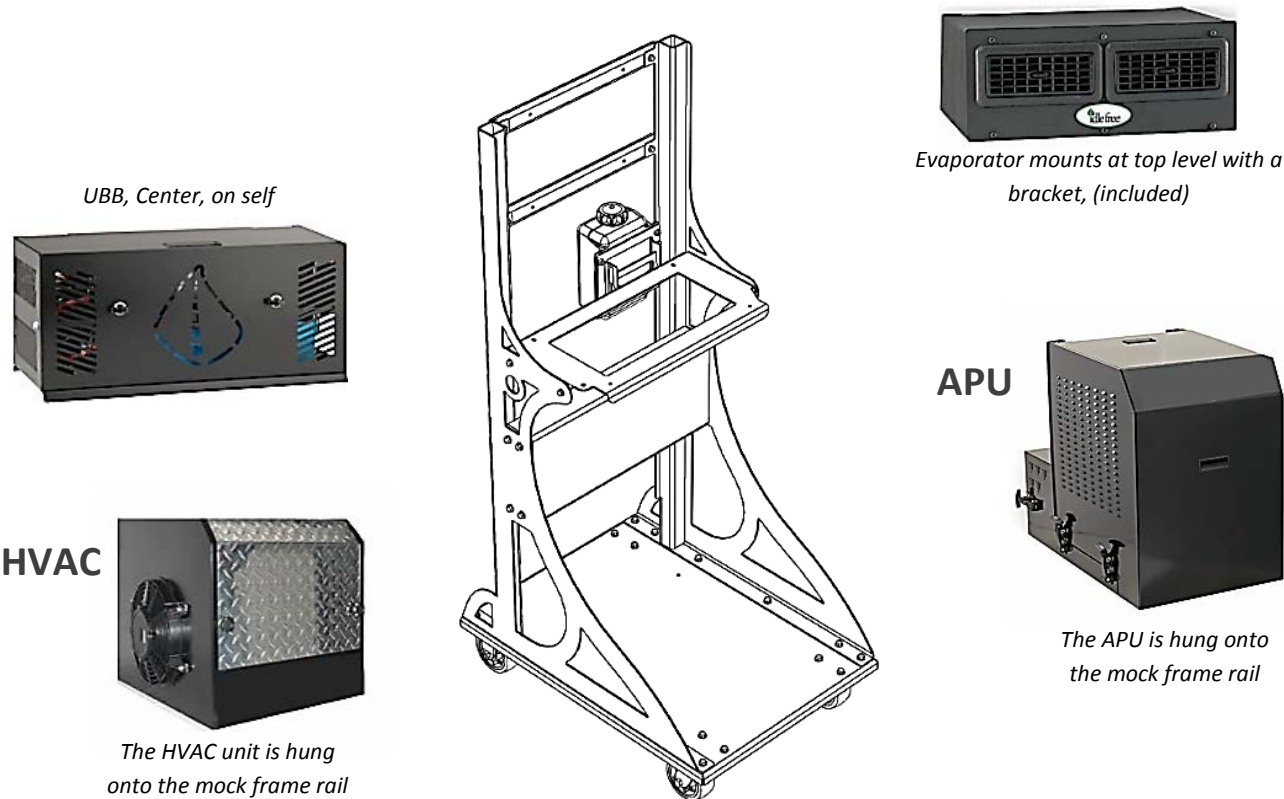
The Dealer Display APU Kit is shipped fully assembled. A single AGM battery is used to operate the display unit. The single functional battery is connected to three "display only" batteries (nonfunctioning).

2. **Dealer Display with an HVAC Unit**, includes a thermostatically controlled, fully functional air conditioner, also includes a coolant heater that is operational but without any fuel or coolant lines connected to it.

The Dealer Display HVAC Kit is shipped fully assembled. A single AGM battery is located on the floor of the display unit in a black plastic enclosure.

Both Dealer Display Kits contain the exact components used for a typical truck installation however; these Display Kits use heavily modified Cables, Freon Lines, and Electrical Harnesses, all shortened.

Both of these Dealer Kits can be removed from the display so as to be installed onto a truck however, the components listed above will need to be modified (added length) prior to system installation.



Dealer Display Units, System Information

APU Display, Parts List

HVAC Display, Parts List

APU			HVAC		
IFS Part #	QTY	Description	IFS Part #	QTY	Description
99100	1	Dealer Display Frame	99100	1	Dealer Display Frame
91003	1	APU, No Batteries	91005	1	HVAC Unit, Standard
91201	1	UBB, Standard	91201	1	UBB, Standard
91301	1	Evaporator, Standard	91301	1	Evaporator, Standard
91401	1	Installation Kit, Standard	91401	1	Installation Kit, Standard
35001	1	AGM Battery	35001	1	AGM Battery
			11013	1	Battery Tray

The Idle Free Dealer Display kits will require that the single battery, shipped with each system, be connected prior to system operation. A 12 volt DC harness will need to be connected, to the single battery, at the same time.

It is recommended that Dealer Display units, that are used on an occasional basis, be connected to Shore Power (120 VAC outlet) at least once every two weeks to maintain battery quality. Both Idle Free Units include Shore Power and each unit will need to be “plugged in” to operate more than 2 hours without being “plugged in”.

A LED Voltmeter is located on the front of the display unit and this voltmeter will enable the user to understand current battery voltage status. The LED Voltage display is always activated to show the current power level of the single AGM Battery.

The Idle Free Dealer Display Kits are shipped on a Standard Pallet with the wheels (casters) removed, the casters (all) swivel 360 degrees. The pallets may be delivered boxed or wrapped.

The lead time for a Dealer Display Unit is at least seven Days. The Dealer Display units are made to order.

Work Truck No Idle Heat System Coolant Heater & ESM (Engine Start Module)

The Idle Free Work Truck No Idle Heat System uses a coolant heater and Engine Start Module (ESM) to provide engine heat, interior (cab) heat, and 12 volt electrical power for all work truck, engine off, power needs.

The Coolant Heater is used to heat the truck's interior uses the truck's existing heater core and blower fan. The Coolant Heater is typically mounted in the engine compartment, on the truck's firewall.

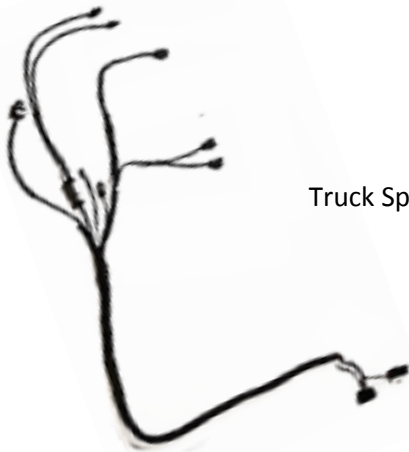
The truck's engine is started using an ESM instead of a starter battery. The ESM is installed into the trucks battery box by removing an existing starter battery and installing the ESM in its place. The ESM is the same size as a Group 31 AGM battery.

The remaining trucks batteries are isolated from the engine's starter and available to power all the remaining needs of the truck's 12 volt system.

No additional weight is added to the truck because a battery is removed and replaced with the ESM,

Work Truck Applications that use the No Idle Heat System require "truck specific components", supplied with this kit:

- System wire harnesses
- Alternator to battery cable
- Water Heater Mounting bracket



Truck Specific wire harness & water heater bracket





Idle Free Build Specification Sheet

Instructions

For each required category below, select one and only one component. Default components are underlined and will be chosen if no other selections are made in the category. For "Additional Options", more than one selection may be made. Incomplete or incorrect Build Specification Sheets will not be processed until corrected. This may lead to a delay on order shipment.

Order Quantity (Required) _____

Frame Rail Units (Required)

- 91001 – APU, Standard
Includes Install Kits 91501 & 91801
- 91002 – APU, No Coolant Heater
- 91003 – APU, No Batteries
Includes Install Kits 91501 & 91801
- 91004 – APU, No Coolant Heater, No Batteries
- 91005 – HVAC Unit, Standard
Includes Install Kits 91501 & 91801
- 91006 – HVAC Unit, No Heater

Battery Box Assemblies (Required)

- 91101 – Battery Assembly, In-Frame Battery Box
Includes Install Kit 91401
- 91102 – Battery Assembly, Frame Rail Battery Box
Includes Install Kit 91404
- None

Power Modules (Required)

- 91201 – UBB, Standard

Evaporators (Required)

- 91301 – Evaporator Unit, Standard

Application (Recommended)

Make	Model	Year
Sleeper Configuration/Options		

Customer (Required)

Company

Contact

Phone

Email

Notes:

Shore Power Kits (Required)

- 91601 – Kit, Shore Power
- 91602 – Kit, Cab Power "Y"
- 91603 – Kit, Cab Power Interrupt

Mount Kits (Required)

- 91701 – Mount Kit, 0.625" Standard Frame Clamp
- 91702 – Mount Kit, 0.625" Aluminum Frame Clip

Additional Options (Optional)

- 91901 – ReeferLink Kit, All Segments
- 91902 – Offset Kit, Frame Rail Unit, 2"
- 91904 – Bracket Kit, Evaporator Wall Mount
- 91905 – Exhaust Kit, 45° Elbow, Cascadia Exhaust
- 91906 – Bypass Kit, Kenworth Water Valve
- 91907 – Custom Paint, Frame Rail Unit
- 91910 – Evaporator Kit, Freightliner Cascadia
- 91911 – Evaporator Kit, Volvo, Upper Closet
- 91912 – Freon Hose Guard

Dealer Display Kits

- Dealer Display Kit with APU Unit
- Dealer Display Kit with HVAC Unit

Heat (only) Systems

- Work Truck, No Idle, Heat System

Shipping (Required)

Address 1

Address 2

City	State	ZIP
Carrier (Optional)		

Order Details (Required)

Sales Order	Purchase Order	Ship Date
Submitted By		Date

