



TriPac™

Hybrid Auxiliary Idle Reduction and Temperature Management System





The TriPac™ System: *Proven Reliability*

Since its introduction, the TriPac Hybrid Idle Reduction and Temperature Management System has become the number one Auxiliary Power Unit (APU) system in the industry for one major reason: it outperforms the competition.



Unmatched Service & Support. The TriPac system is backed by the Thermo King dealer network, which provides expert installation, factory-certified technicians and genuine OEM parts at over 200 locations across North America.

Fuel Savings. With over 80,000 units in service, the fuel-saving advantages of the TriPac design vs. generator-based designs has become even more apparent. The TriPac system runs only when you need it, saving you significantly more money on fuel than generator solutions.

Emissions Regulations/CARB compliance. As the expert in idle compliance, Thermo King designed the TriPac system to provide you with a solution for nationwide operation. The optional Diesel Particulate Filter (DPF) allows you to operate coast-to-coast and border-to-border while helping you stay compliant with the confusing variety of regulations regarding engine idling.

Preferred by Drivers. Drivers look to the TriPac system for what it provides (comfort, reliability, seamless operation, realized fuel savings) and what it does not (noise, uncertainty, limited service options).

With these additional features, the TriPac System does even more for you!



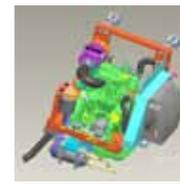
Greater Fuel Savings. Programmable settings within the controller means the TriPac system doesn't heat or cool the cab during out-of-service days; it simply monitors and maintains battery voltage and engine coolant temperatures so that the tractor starts dependably.



Extreme Arctic Package. With powerful coolant and oil heaters, this option gets your tractor started in the coldest of environments while minimizing wear and tear on the engine.



Closed Loop Cooling (CLC). If you frequently operate in warm climates or simply prefer that the TriPac system not tie into the tractor engine coolant, choose the CLC option. The TriPac will run independently of the tractor engine coolant and still provide the battery charging and cab comfort options you demand.



Improved Performance. Our engineers are constantly working to improve the TriPac system, making the best even better.

The TriPac System: Cashflow-Positive from Day One!

Your Idling Hours Annually	\$3.25 a Gallon			\$3.75 a Gallon			\$4.25 a Gallon		
	Tractor Idling	TriPac	Savings Per Month w/TriPac	Tractor Idling	TriPac	Savings Per Month w/TriPac	Tractor Idling	TriPac	Savings Per Month w/TriPac
3,000	\$813	\$117	\$696	\$938	\$135	\$803	\$1,063	\$153	\$910
2,500	677	98	579	781	113	668	885	128	757
2,000	542	78	464	625	90	535	708	102	606
1,500	406	59	347	469	68	401	531	77	454
1,000	271	39	232	313	45	268	354	51	303
500	135	20	115	156	23	133	177	26	151

EXAMPLE: If you idle 2500 hours per year with a fuel price of \$3.75 per gallon, you can save up to \$668 per month based on fuel costs alone with TriPac!

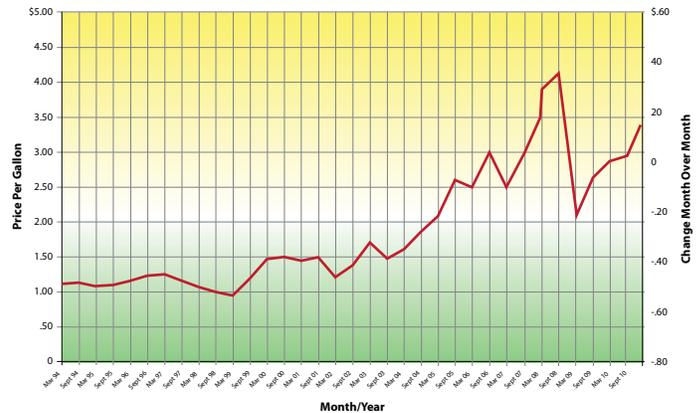
Tractor Idling Assumptions
 Annual Miles100,000
 Idling Fuel Cost.....1.0 gph

TriPac Assumptions
 % per year gph
 % per year gph
 Cooling..... 60% 0.2* Heating40%0.06*
 Find your cost per month savings with TriPac (based on fuel consumption only) Does not include fuel savings from start/stop off time *Fuel consumption will vary based on ambient temperature and tractor cab insulation characteristics

Stress Less over Fluctuating Fuel Costs

Fuel represents a significant portion of your operational costs, and the frequent fluctuations in price can be worrisome and costly. The fact is, fuel prices have risen significantly over the last decade. Investing in the TriPac system today means less stress next time fuel prices spike. Waiting until fuel costs reach a specific point to get your TriPac means waiting to take advantage of the savings and not being ready for the inevitable future fuel cost increases.

U.S. Diesel Pump Prices



1000-Hour Maintenance Interval

TriPac was designed with (and has led the industry to) a 1000-hour maintenance interval, allowing maintenance to be performed at the same time as maintenance on the tractor, saving time and eliminating additional downtime for APU maintenance. Actual maintenance intervals on the TriPac are even further extended when the auto start/stop function is taken into account. This feature turns the TriPac on only when needed, saving fuel and reducing the number of hours the unit runs compared to the competition.

Custom-Configure Your TriPac System with a Wide Array of Options



Base TriPac System (900217)

Provides sleeper and cab cooling/heating, battery charging with automatic voltage sensing and has auto start/stop for maximum fuel efficiency.

- 2-cylinder, Tier IV-compliant diesel engine
- 13,000 BTU air conditioning system including compressor, evaporator, controller (system charged with R-134a at Thermo King dealership during installation)
- 7,500 BTU fuel-fired heater
- Single HVAC controller
- 65-amp alternator
- Thermo King DPF-compatible

Option Ordering Guide

120 amp Alternator (005033)

Provides quicker battery charging under heavy accessory loads. Ideal for supersized sleepers and drivers with heavy appliance usage during rest periods.

Stand-By Truck Integration (005013)

Provides seamless activation of the TriPac control system based on tractor engine off/on indication.

Stand-By Truck Integration with Dash-Mounted Selector Switch (005014)

Provides the driver the ability to place the TriPac in a non-start mode (used during tractor fueling, service situations or when exiting the tractor) from the driver's seat.

Remote Hour Meter (005029)

Provides separate fuel-fired heater and TriPac engine time tracking for accurate and effective preventive maintenance. Allows technician to access and record hours of operation without entering tractor cab.

Inverters

Modified sine wave inverters. Includes two GFI receptacles. Typically mount under bunk.

1,800 Watt (005016)

1,000 Watt (073003)

Closed Loop Cooling (005831)

Lets TriPac run independently of tractor coolant and allows "limp home" capability in case of tractor alternator failure.

High Output Heater (005018)

With 13,600 BTUs of fuel-fired output, this heater will keep you warm on the coldest of nights. With only slightly higher fuel consumption than the standard heater, this option is popular with drivers operating in the northern United States and in Canada.

High Altitude Compensation Kit (005548)

Advanced electronics and a barometric sensor allow the fuel-fired heater to adjust fuel flow to changing altitudes. Recommended for drivers taking rest periods at or above 4000'. Adjustments are automatic and continue to take place to an altitude of approximately 10,000'.

Diesel Particulate Filter (DPF) Options

Certified CARB-compliant for operation in the state of California.

(Standard Mount 005024)

Mounts to rear of base TriPac system in place of muffler

(Remote Mount)

See dealer for ordering information

Arctic Package (005015)

Monitors tractor engine coolant temperature and automatically starts the TriPac to heat the shared engine coolant. Reduces cold weather starting issues for the tractor even after extended periods of no operation in cold temperatures

Extreme Arctic Package (005036) (requires 005015)

With the addition of a 800 watt coolant heater and a 300 watt oil heater powered by the TriPac, this package gets your tractor started in the coldest of environments with minimal wear and tear. 120 amp alternator included.

Stainless Steel Skins (005031)

The polished stainless steel skins dress up any rig, moving or standing still.

Brushed Stainless Steel Condenser Cover (005011)

Adds additional corrosion protection as well as that finishing touch.

Polished Stainless Steel Exhaust (005012)

(Cannot be used with DPF option)

Flush Mount Kits (See dealer for ordering information)

Special mounting kit which keeps the top of the unit flush with the top of the tractor frame rail.



User-Friendly In-Cab Controller

delivers precise temperature management

HMI controller is installed in the cab.



Main Power Key

Turns TriPac APU system on and off.

Fuel Saver Technology

TriPac utilizes Thermo King's Cycle Sentry technology to maximize fuel economy by starting and stopping the system based on customer requirements. This reduces overall engine run time and lowers fuel consumption.

Mode Key

Ability to select operating modes of air conditioning, heating or fan only.

Fan Speed Key

Allows selection of fan speed.

Up and Down Keys

Used to raise and lower temperature setpoint.

Display

Provides temperature setpoint, hourmeter reading and alarm codes.

System Fault Indicator

Red indicator illuminates when an alarm condition occurs and an alarm code is displayed.

APU System Key

Enables the APU to run to provide sleeper compartment air conditioning, air circulation, truck battery voltage sensing and engine coolant temperature sensing. Note that the APU does not have to be On to operate the TriPac sleeper compartment heater.

Expert Service and Support are as close as this sign.

Choose TriPac and enjoy the support of the Thermo King Dealer Network.



Over 200 factory-authorized service centers nationwide!



Specifications

Dimensions (inches)



Description

The TriPac System provides truck engine preheating, battery charging, truck cab sleeper compartment climate control and electric power.

Engine

Tier IV-compliant Thermo King 2-cylinder diesel

Evaporator Airflow

250 ft³/min

Alternator

14.5V, 65 amp
14.5V, 120 amp (optional)

Refrigerant

HFC R-134a

Compressor

Thermo King TM-15
Air Conditioning Compressor

Air Conditioning Capacity*

BTU/hr	Watts
13,000	3,810

Controls

The TriPac HMI (Human Machine Interface) Controller is installed in the truck cab and can be customized to meet customer's specific needs.

Heating Capacity

BTU/hr	Watts
7,500	2,200
13,600	3,986 (optional)

System Weight (approx.)

APU Unit:	430 lbs	(195 kg)
HVAC System:	70 lbs	(32 kg)

Worldwide Service Organization

Thermo King backs its equipment and customers with a highly-trained, worldwide service organization. This assures you the support of factory authorized service facilities and a stock of factory parts as well as factory trained mechanics.

Warranty Summary

Terms of the Thermo King Limited Express Warranty are available upon request.

Extended Warranty

Several Extended Warranty options are available for your TriPac system. Choose a flexible program and select the warranty period, deductible and hours of operation that best meet your needs. Ask your local Thermo King dealer about nationwide coverage plans.

Payback Calculator

Consult the TriPac ROI Calculator at www.thermoking.com to determine your potential savings with TriPac!



***ARI STD 310/380** - Standard for Packaged Terminal Air-Conditioners and Heat Pumps for the rating conditions of 80F Box, 50% humidity, and 95°F ambient.



Ingersoll Rand's Climate Solutions sector delivers energy-efficient HVACR solutions for customers globally. Its world class brands include Thermo King, the leader in transport temperature control and Trane, a provider of energy efficient heating, ventilating and air conditioning systems, building and contracting services, parts support and advanced controls for commercial buildings and homes.

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