









Built on the industry-leading TriPac<sup>™</sup> auxiliary power unit (APU) and supported by the Thermo King dealer network, the TriPac Evolution raises the bar even higher with unrivaled performance, low operating costs, easy operation and true peace-of-mind.

The TriPac Evolution was not only designed to meet Tier IV EPA final regulation requirements; it was designed to respond to and anticipate evolving customer needs by leveraging new patented technologies that drive unit performance, efficiency and user productivity. Its performance is uncompromised. The operational savings are real.



### HOW DO YOU MAKE THE BEST EVEN BETTER?

### UNRIVALED PERFORMANCE

With virtually unlimited heating and cooling and a new control system to accurately diagnose issues, the TriPac Evolution's performance is industry-leading. The control system is flash-loadable and includes a data logger. Diagnostics are improved with 22 alarm codes, and the charging system has been enhanced with amperage-based decision making. The new system gives flexibility to users, allowing customers' to focus on fuel consumption, driver comfort or battery life to enhance their needs as appropriate.

### EASY OPERATION

Operating the TriPac Evolution is easy. By moving to a three knob design that aligns with automotive architecture, the need for in depth operator training has been eliminated.

### LOW OPERATING COSTS

Easier access to components and the longest maintenance interval in the industry keep costs down and help customers better align maintenance schedules. The TriPac Evolution features a larger oil sump that enables the unrivaled 1500 hour service interval. New unit skins allow easier service access. The fuel pump and a new serviceable fuel pre-filter are relocated to the front of the unit for easy access. The new bottom pan pivots on rear fasteners, which allows for easy installation and removal as well as significantly improved service access to the alternator and belts. For skirted tractor applications, a reverse-hinged oil access door is provided.

### PEACE OF MIND

Thermo King is the only APU manufacturer to offer nationwide 24/7 service through its world class dealer network. The TriPac Evolution unit's reliability is built on 100,000 units of experience. The peace of mind offered is priceless.



GREATER FUEL SAVINGS

Programmable settings within the controller means the TriPac Evolution 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.

### REDUCED WEIGHT

Weight is important in your business, and every pound that can be reduced from your equipment means one more pound of revenue-generating cargo. So not only is the TriPac Evolution packed with innovative new technologies, it also weighs over 50 pounds less than the previous TriPac. That's more cargo you can carry with every load and more money in your pocket

APPEARANCE PACKAGE

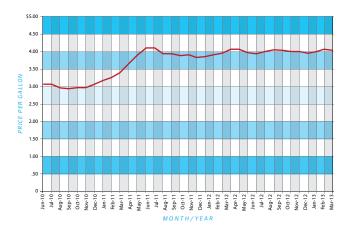
The TriPac Evolution gives you big-time performance, and it can also up the visual appeal of your rig. Add a diamond plate top cover to set yourself apart from the pack.



## 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 Evolution system today means less stress next time fuel prices spike. Waiting until fuel costs reach a specific point to get your TriPac Evolution means waiting to take advantage of the savings and not being ready for the inevitable future fuel cost increases.

### U.S. DIESEL PUMP PRICES





# THE TRIPAC EVOLUTION: CASHFLOW-POSITIVE FROM MONTH ONE

	\$3.25 A GALLON			\$3.75 A GALLON				\$4.25 A GALLON			
Your Idling Hours Annually	Tractor Idling	TriPac Evolution	Savings Per Month		Tractor Idling	TriPac Evolution	Savings Per Month		Fractor Idling	TriPac Evolution	Savings Per Month
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 Evolution!

### TRACTOR IDLING ASSUMPTIONS

Annual Miles.....100,000 Idling Fuel Cost......1.0 gph

### TRIPAC EVOLUTION ASSUMPTIONS

	% per year	gph		% per year	gr
Cooling	60%	0.2*	Heating	40%	0.06

Find your cost per month savings with TriPac Evolution (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.

# NEW, CONFIGURABLE, EASY-TO-USE IN-CAB CONTROLLER

### DATA LOGGER

With 22 alarm codes for improved diagnostics and maintenance cost savings.



Optimize performance and driver comfort for your business needs.



### SIMPLE HMI

Easy-to-use HMI reduces the need for driver training.

### FLASH LOADABLE

Both controller and HMI are flash-loadable to allow for future upgrades without new hardware.

### PROGRAMMABLE TEMPERATURE RANGE

Choose a custom-configured temperature range for your system.

HMI controller is installed in the cab.



### 1500-HOUR MAINTENANCE INTERVAL

TriPac Evolution was designed with an unequaled 1500-hour maintenance interval, allowing maintenance to be performed every other time that maintenance is performed on the tractor, saving time and eliminating additional downtime for APU maintenance.

Actual maintenance intervals on the TriPac Evolution are even further extended when the auto start/stop function is taken into account. This feature turns the TriPac Evolution on only when needed, saving fuel and reducing the number of hours the unit runs compared to the competition.



### **SPECIFICATIONS**

### **Dimensions** (inches)



# 25.8



Condenser



Evaporator

### Description

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

### Engine

Thermo King Tier IV final-compliant 2-cylinder diesel engine

### **Evaporator Airflow**

250 ft<sup>3</sup>/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 features a simple three-knob design for easy operation.

### Heating Capacity

BTU/hr Watts 7,500 2,200

13,600 3,986 (optional)

### System Weight (approx.)

APU Unit: 345 lbs (156 kg) HVAC System: 70 lbs (32 kg)

### 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.

\*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.



New Thermo Gard<sup>™</sup> Assurance

## CUSTOMIZABLE FLEET MANAGEMENT OPTIONS FOR YOUR BUSINESS ARE NOW MORE AFFORDABLE THAN EVER BEFORE\*

Thermo King SVC's new Thermo Gard Assurance guaranteed maintenance program includes set programs and a wide variety of coverage options to fit the needs of your business. And because of the TriPac Evolution's improved reliability and lower maintenance costs, peace-of-mind is now less expensive than ever!



# CUSTOM-CONFIGURE YOUR TRIPAC EVOLUTION WITH A WIDE ARRAY OF OPTIONS

### BASE TRIPAC EVOLUTION

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 final-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-powered heater
- · Single HVAC controller
- 65-amp alternator
- · Thermo King DPF-compatible

## OPTION ORDERING GUIDE

fuel consumption than the standard heater, this option is popular with drivers operating in the northern United

States and in Canada.

	DRIVER CONVENIENCE PACKAGE (073035) Includes 1,800 watt inverter and two GFI receptacles. 120 amp alternator provides quicker battery charging under	DIESEL PARTICULATE FILTER (DPF) (073027)  Certified CARB-compliant for operation in the state of California. Standard mount.
	heavy accessory loads. Ideal for supersized sleepers and drivers with heavy appliance usage during rest periods.	HIGH OUTPUT ALTERNATOR (073023)
	STAND-BY TRUCK INTEGRATION (073015)	120 amp power for quicker battery charging.
_	Provides seamless activation of the TriPac Evolution control system based on tractor engine off/on indication.	ARCTIC PACKAGE (073025)  Monitors tractor engine coolant temperature and automatically starts the TriPac Evolution to heat the shared
	STAND-BY TRUCK INTEGRATION WITH DASH-MOUNTED SELECTOR SWITCH (073016) Provides the driver the ability to place the TriPac Evolution in a non-start mode (used during tractor fueling,	engine coolant. Reduces cold weather starting issues for the tractor even after extended periods of no operation in cold temperatures.
	service situations or when exiting the tractor) from the driver's seat.	APPEARANCE PACKAGE (073036)  The diamond plate top cover dresses up any rig, moving or standing still.
	DUAL REMOTE HOUR METER (005029)  Provides separate heater and TriPac Evolution engine time tracking for accurate and effective preventive maintenance.  Allows technician to access and record hours of operation without entering tractor cab.	BRUSHED STAINLESS STEEL CONDENSER COVER (005011) Adds additional corrosion protection as well as that finishing touch.
	REMOTE ENGINE HOUR METER (073022) Provides engine time tracking for accurate and effective	EXHAUST TUBE EXTENSION (073030) Extension for new short tube exhaust pipe.
	preventive maintenance.  CLOSED LOOP COOLING (073026)  Lets the TriPac Evolution run independently of tractor coolant and allows "limp home" capability in case of tractor alternator failure.	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.
	HIGH OUTPUT HEATER (005018) With 13,600 BTUs of heat, this heater will keep you warm on the coldest of nights. With only slightly higher	



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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