



TrackKing™

A complete web-enabled temperature management system.





A state-of-the-art solution for cargo protection and improved asset utilization.



TrackKing is a dynamic, web-enabled trailer tracking system that provides end-to-end visibility of refrigerated assets over the road, on rail cars and in the yard. Operating off the REB wireless communication platform, it is a flexible and comprehensive solution delivering real time & historical temperature and fleet information.

TrackKing provides fleet owners the tools to protect their assets, improve their response times and manage their operating costs while maintaining the highest food safety and quality standards.

Technology

Using Cellular and Global Positioning Service (GPS) technology, TrackKing gives up-to-the-minute temperature alarms and fleet location information on www.tktracking.com. Partnering with all large cellular providers in North America, TrackKing has extensive coverage. Using SMS text messages or email, TrackKing notifies users of any events as they happen.

The screenshot displays the TrackKing web application interface. At the top, there are navigation tabs: TRACK VEHICLES, MAPS, DATA MANAGEMENT, ADMINISTRATION, PREFERENCES, ALARMS, and LOGOUT. Below this is the 'Tracking List' table, which contains the following data:

Vehicle	Last Known Position	Ign	SP1	SP2	SP3	Date
VE1053	Lompoc, California, USA	On	35			10/24/10 9:46 PM
VE1153	Santa Maria, California, USA	On	34			10/24/10 9:48 PM
VE1253	Lompoc, California, USA	Off				10/24/10 8:57 PM
VE1353	Santa Maria, California, USA	On	33			10/24/10 9:49 PM
VE1453	Buena Park, California, USA	Off				10/24/10 9:24 PM
VE553	No Satellite Coverage	Off				
VE653	Santa Maria, California, USA	Off				07/28/10 1:11 PM
VE753	Santa Maria, California, USA	Off				10/24/10 9:18 PM
VE853	Hollister, California, USA	Off				10/24/10 8:56 PM
VE953						

Below the table is a 'Table Key' section. Underneath the table is another navigation bar: TRACK VEHICLES, MAPS, DATA MANAGEMENT, ADMINISTRATION, PREFERENCES, ALARMS, DASHBOARD, LOGOUT. Below this is a map showing the geographic locations of the vehicles, with various colored markers indicating their status and location across the United States.

Advantages

TrackKing provides the ability to monitor an entire fleet's actual position and route history at regular intervals, or on-demand. It provides the pertinent information you need to schedule, control and manage your operation, and improve on overall asset utilization and fleet productivity.

TrackKing also provides added security. With its alarm and notification features, along with the mapping and dealer locator, TrackKing can greatly reduce losses and risks. These reductions may even qualify for reduced insurance rates. (Contact your insurance company for details.)

Ask your Thermo King representative to elaborate on the many features that TrackKing has to offer.



Temperature Management

TracKing provides customers optimum temperature management to deliver top quality cargo on-time. It allows fleet owners to monitor and control their refrigeration units to increase unit uptime and to react to temperature alarms in a timely fashion, as well as ensuring cargo safety and providing traceability of cargo temperatures throughout a journey. With multiple customized and scheduled report options, TracKing offers the ability to manage reefer utilization, cargo temperature, trailer journeys, door openings and fuel levels. Typical examples of real-time information and control include:

- Set point, return air, discharge air
- Operating modes
- Reefer run hours
- Power status
- 2-way control including power ON/OFF
- Independent temperature sensors



Alarm Management

A sophisticated alarm management tool enables the routing of real-time alarms & events to key people within a fleet. Alarms and event notification can be provided via E-mail and SMS (text message). Additionally, alarms can be associated with specific users to manage escalation to the appropriate people. A historical alarm history report keeps track of all alarms and who reacted to them. Typical examples of alarm notifications sent are:

- Temperature out of range
- Refrigeration unit shut-downs
- Low fuel levels & door opening events
- Battery voltage



Trailer Tracking

TracKing gives you accurate real time and historical location information on your trailers. It also logs critical movement data to ensure trailer security and sends a movement alarm within a designated geo-fence location.

- See your complete fleet on a detailed map
- Monitor trailer routes by replaying trailer journeys on a map
- Locate the closest Thermo King Dealer on a map
- Monitor trailer speed
- Monitor trailer entry and exit within geo-fence locations



Fuel Management

Setting the proper unit operating modes for the cargo helps increase unit off-time and save fuel. TracKing provides instant notification of door openings and monitors door-open dwell times. This helps better manage fuel usage during loading and unloading when the unit is on.

- Optimize fuel consumption by unit and trip
- Minimize environmental impact with better asset and fuel management
- Monitor sudden drops in fuel levels
- Remote management of door openings (with sensors)





A Complete Dashboard to Monitor Your Fleet

TrackIng provides fleet owners and managers with a dashboard of cost-critical information, allowing them to quickly gauge the productivity of their fleets.



Easy Data Download Via the Web

Download your datalogger remotely over the air no matter where your vehicle is located. You no longer have to wait for your vehicles to come back to the depot to access historical temperature data. You can perform a complete download from the TrackIng website as many times as you need from the comfort of your office.

Cargo Tracking

TrackIng offers cargo protection and peace of mind. It offers accurate temperature monitoring and operational efficiency by monitoring:

- Set Point
- Return Air
- Discharge Air
- Power Status
- Fuel Levels
- Real-time Alarms
- Battery Voltage
- Hours
- Door Openings
- Reefer Modes

Tracking List

Vehicle	Last Known Position	Ign	SP1	SP2	SP3	Date
Logger Sensors:	S1 : 34.1					
Unit Sensors:	SP1 : 33 RA 1 : 34.7 DA 1 : 29.2					
Unit Status:	OP 1 : Mod Cool Mode : Continuous Power : On Door 1 : Closed Engine Hours : 7757 Total Hours : 12426 Fuel : 42 (US gal) Battery Voltage : 13.71					
Position:	Speed : 58 MPH Location : 4.07 miles South West of Fairborn, Ohio, USA					
Connected to:	Port A : SR2 Trailer Port B : HMI					



Trailer Location

Monitor trailer locations at all times and replay journeys to manage driver efficiency.

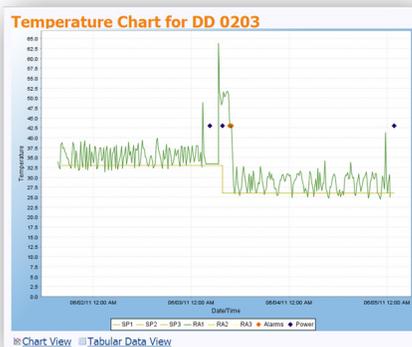
Sophisticated Reporting Tools

Customized and Scheduled Reports

Customized reports tailored to customer monitoring needs. Create scheduled reports to multiple stakeholders within an organization.



TRACK VEHICLES MAPS DATA MANAGEMENT ADMINISTRATION PREFERENCES ALARMS DASHBOARD LOGOUT									
Tracking List									
Vehicle				Last Known Position	Ign	SP1	SP2	SP3	Date
D17				Leesburg, Virginia, USA	On	33			06/27/11 5:15 PM
D18				Grove City, Ohio, USA	On	33			06/27/11 5:37 PM
Logger Sensors : S1 : 41.3 Unit Sensors : SP1 : 33 RA 1 : 38.3 DA 1 : 33.6 Unit Status : OP 1 : Cool Mode : Cycle Sentry Power : On Engine Hours : 14040 Total Hours : 22517 Fuel : 49 (US gal) Battery Voltage : 13.81 Position : Speed : 60 MPH Location : 32.11 miles South of Grove City, Ohio, USA Connected to : Port A : SR2 Trailer Port B : HMI									
D19				Harrisburg, Pennsylvania, USA	On	33			06/27/11 5:34 PM
D21				Lima, Ohio, USA	Off				06/27/11 5:05 PM
D22				Lincoln, Nebraska, USA	Off				06/27/11 2:50 PM
D23				Lima, Ohio, USA	Off				06/27/11 4:52 PM
D24				Grove City, Ohio, USA	On	33			06/27/11 5:41 PM



Temperature History

Monitor cargo temperature spikes with a quick graph view.

Vehicle Name	Date & Time	Position	Alarm Type	Severity	Ack. By	Ack. Date/Time
D21	06/12/2011 8:15:46 PM	4.12 miles East of Middletown, Ohio, USA	84 Restart Null	G		
D21	06/12/2011 11:20:14 PM	54.62 miles South of Richmond, Kentucky, USA	63 Engine or Vapor Motor Stopped	R		
D21	06/12/2011 11:20:14 PM	54.62 miles South of Richmond, Kentucky, USA	84 Restart Null	G		
D21	06/12/2011 11:29:34 PM	54.73 miles South of Richmond, Kentucky, USA	63 Engine or Vapor Motor Stopped	R		
D21	06/12/2011 11:29:34 PM	54.73 miles South of Richmond, Kentucky, USA	84 Restart Null	G		
D21	06/12/2011 11:36:14 PM	54.73 miles South of Richmond, Kentucky, USA	21 Cooling Cycle Check	Y		
D21	06/12/2011 11:36:14 PM	54.73 miles South of Richmond, Kentucky, USA	84 Restart Null	G		
D21	06/12/2011 11:41:12 PM	54.73 miles South of Richmond, Kentucky, USA	21 Cooling Cycle Check	Y		

Alarm History

Alarm history reports give a quick view of reefer health and potential service actions needed.

Fleet Monitoring and Control at your Fingertips

TrackKing provides fleet owners and managers the ability to monitor and control their fleets with the touch of a button.

Two-Way Commands

New Set Point value	<input type="text"/>	Zone 1 <input type="button" value="v"/>	<input type="button" value="UPDATE SET POINT"/>
Clear Alarms			<input type="button" value="CLEAR ALL ALARMS"/>
Pre-Trip			<input type="button" value="PERFORM PRE-TRIP"/>
Defrost		Zone 1 <input type="button" value="v"/>	<input type="button" value="INITIATE DEFROST"/>
Continuous			<input type="button" value="CONTINUOUS MODE"/>
Cycle Sentry			<input type="button" value="CYCLE SENTRY MODE"/>
Remote On			<input type="button" value="REMOTE ON"/>
Remote Off			<input type="button" value="REMOTE OFF"/>
			<input type="button" value="CANCEL"/>

2-Way Control

TrackKing offers the ability to change refrigeration unit settings remotely from the website increasing visibility and control over refrigerated cargo and reduces risk of load loss.

- Start
- Pre-Trip
- Stop
- Defrost
- Change Set Point
- Clear Alarms
- Change Operation Mode

TRACK VEHICLES | MAPS | DATA MANAGEMENT | ADMINISTRATION | PREFERENCES | ALARMS | KPCHARTS | LOGOUT

Configure temperature range settings

Out of Range Alarm settings

Current Temperature Setting: Celsius

	Zone 1	Zone 2	Zone 3
High Temperature	<input type="text"/>	<input type="text"/>	<input type="text"/>
Low Temperature	<input type="text"/>	<input type="text"/>	<input type="text"/>
Range Relative to	Setpoint <input type="button" value="v"/>	Setpoint <input type="button" value="v"/>	No Value <input type="button" value="v"/>
Out of Range Time	30 Minutes <input type="button" value="v"/>	30 Minutes <input type="button" value="v"/>	No Alarm <input type="button" value="v"/>

Improved Cargo Management

With the ability to manage temperature out-of-range events.

TrackKing

TRACK VEHICLES | MAPS | DATA MANAGEMENT | ADMINISTRATION

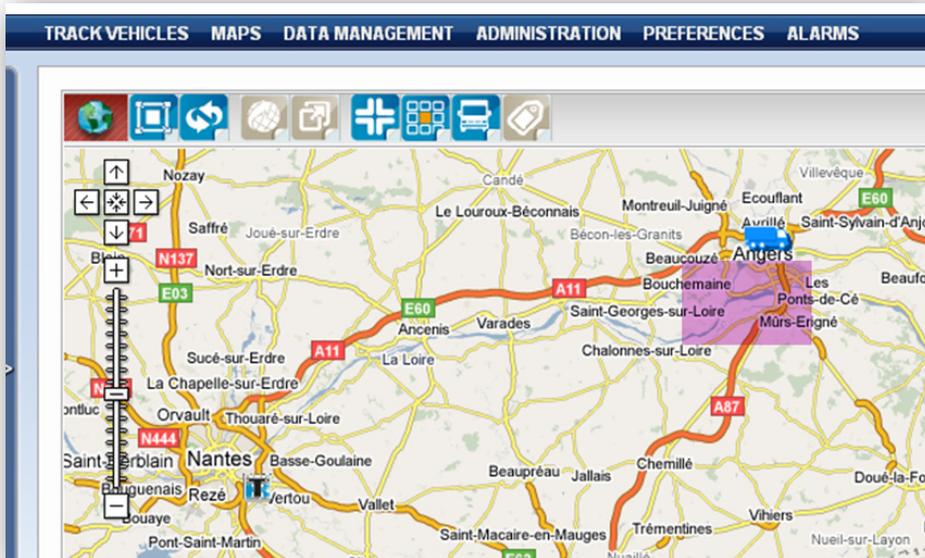
Administration

Temperature

- [Notifications](#)
- [Two-Way Commands](#)
- [Temperature Range Settings](#)
- [Data Logger Downloads](#)
- [Door Alarm Settings](#)

Vehicles

- [Add Vehicle Group](#)
- [Vehicle Group Search](#)
- [Vehicle Search](#)



Geo-Fencing

Create a Geo-Fence to manage when a trailer enters, or leaves a location. Tracking offers the ability to track unauthorized movements after hours.



Event Notification

Reduce down-time by receiving instant notifications of critical events. Improve your response time to these events by selecting to receive an SMS on your phone or an email.

A Compelling Return on Investment



Cargo Protection

Maintain high cargo safety standards and ensure ontime delivery.



Asset Uptime

Eliminate unscheduled breakdowns and improve maintenance.



Fuel Management

Save on annual fuel costs with real-time unit usage and cargo visibility.



Asset Security

Be assured that your unit is safe and is being used properly.

TrackKing Delivers:



Cargo Protection

- Cargo integrity with tight temperature management
- Fewer rejected loads and reduced liability
- Quick response from Thermo King dealers leading to fewer unit breakdowns
- Improved traceability to maintain food safety standards



Asset Up-Time

- Total fleet control with vital management information
- On-time delivery and improved customer responsiveness
- Increased productivity and profitability with information on asset utilization
- Real-time alarms to prevent breakdowns and guide drivers to nearest Thermo King dealer



Fuel Management

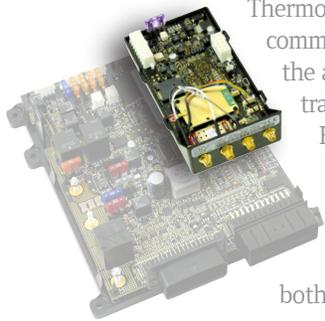
- Lower fuel consumption setting accurate setpoints and modes remotely
- Reduced environmental impact due to less reefer idling
- Improved carbon footprint
- Real-time low fuel level alarms
- Accurate mode settings increase unit off-time and save fuel



Asset Security

- Visibility of sudden fuel drops
- Be notified of unauthorized door openings
- Monitor and control unauthorized vehicle movements
- Receive notifications of fuel levels and low battery voltage
- Prevention of theft
- Real-time event notifications of cargo and fuel alarms to protect assets

REB - A Next Generation, Future-Proof Wireless Communication Platform

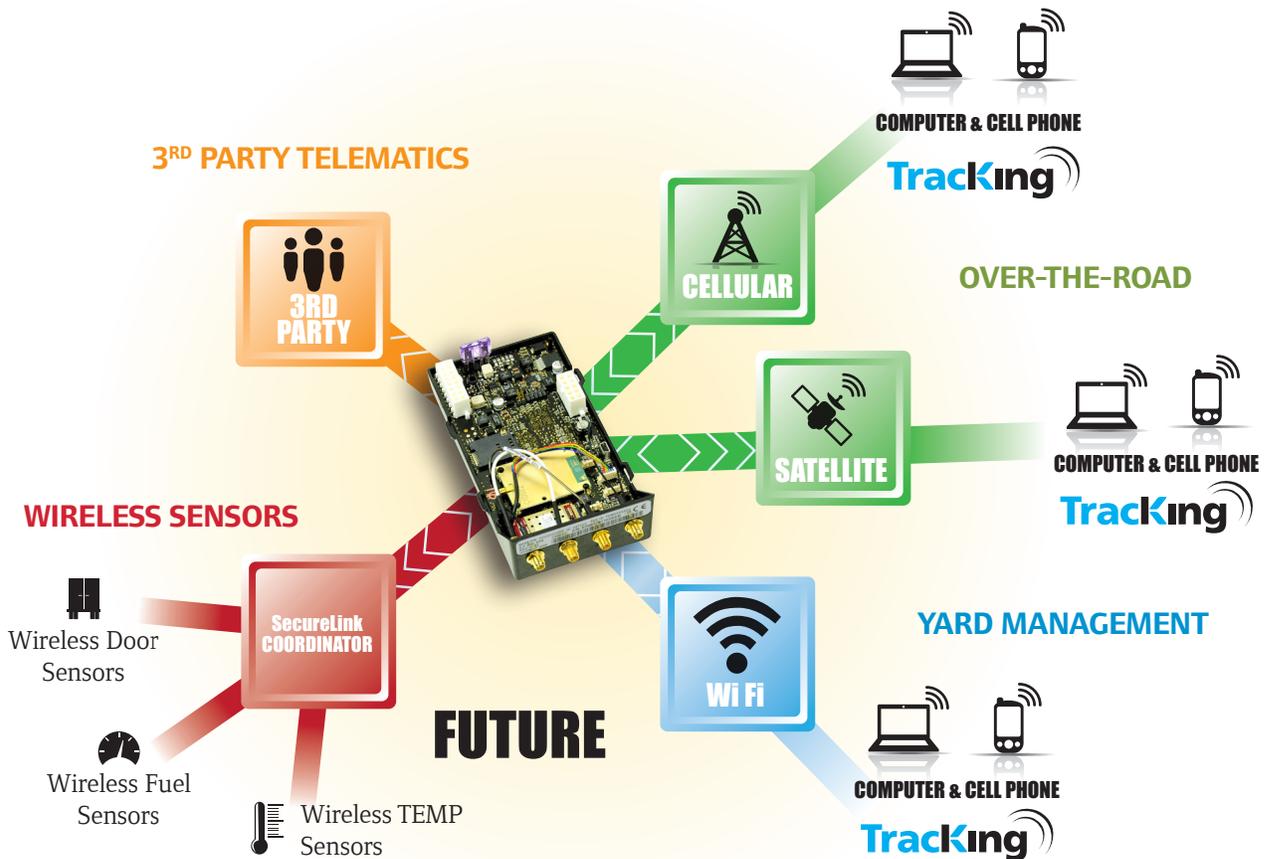


Thermo King's new REB wireless communication platform offers fleet owners the ability to monitor their refrigerated trailers using multi-mode technology. Embedded in the SR-3 controller, the REB wireless platform integrates with Thermo King's web-based TrackKing application, now enabling customers to manage their refrigerated fleets both over-the-road and in the yard.

The REB wireless platform also enables multiple remote features over-the-air using TrackKing, like OptiSet+ and flashloading of the SR-3 controller. Fleet owners can remotely upgrade multiple refrigeration units simultaneously, saving time and lowering maintenance costs.

Multiple wireless technologies converge on this robust platform, making it "future proof." Cellular, Wi-Fi and GPS capabilities offer fleet owners multiple communication options as well as a way to leverage their existing Wi-Fi infrastructure. The Secure Link Coordinator offers the ability to connect wireless sensors across the trailer, lowering installation costs. A 3rd party interface offers a gateway for telematics providers to communicate with the Thermo King unit.

Thermo King's REB wireless platform is innovative, efficient and eliminates the need to have multiple communication devices. A single antenna supports all four wireless technologies. A back-up battery is included with the TrackKing cellular REB, ensuring up-time and seamless connectivity with the refrigerated trailer.





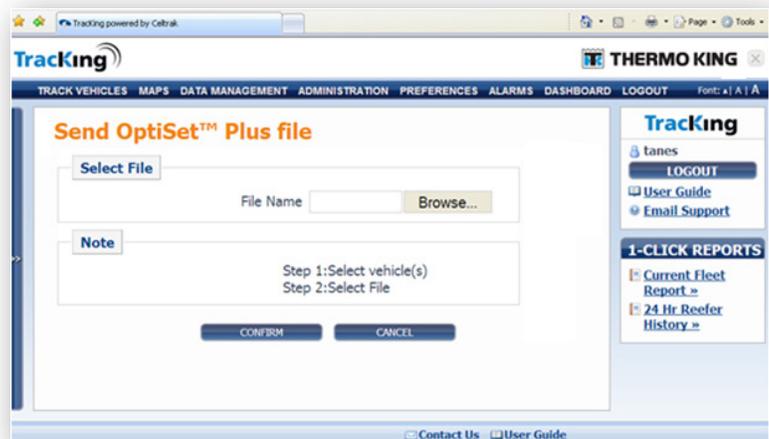
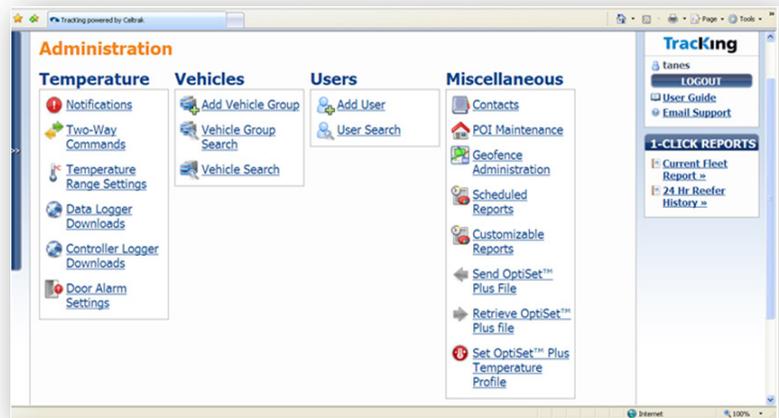
Track*ing*

with OptiSet™ Plus *Optimum Cargo Protection Made Simple*

Available as a standard feature on the SB-30 series of trailer units with SR-3 controllers, OptiSet™ Plus helps you protect your cargo and optimize performance of your reefer units. With an REB-equipped SR-3 control system, you can now use OptiSet Plus to configure your units remotely at the Track*ing* website (www.tktracking.com).

OptiSet Plus and Track*ing* Deliver:

- Optimum cargo protection and improved cargo quality
- Fuel savings when used with the SR-3 controller
- Maximum shelf life for fresh commodities
- The ability to configure multiple vehicles at once
- A library of nearly 500 temperature-sensitive commodity profiles
- The capability to install up to 64 profiles per unit
- Hands free “no touch” uploading of new temperature profiles
- Real time monitoring and modification of existing profiles selected by alpha or numeric character
- The ability to monitor fuel usage and adjust operational unit parameters over the air to allow users to get the appropriate balance between temperature control and unit fuel efficiency





A Complete Solution, No Matter What Your Business

Dashboard of your Fleet

It is easy to set up your fleets and configure your temperature monitoring and reporting needs on the TracKing website. With a given user name and password you can access your information on www.tktracking.com.

Your Data is Secure

If your trailer is out of GPRS coverage, the TracKing box stores all the data and transmits it when coverage is re-established, keeping your data safe.

Communication Contract

For a flat monthly fee you can choose a contract that best fits your business needs. Service levels range from simply monitoring your fleet to controlling it with 2-way reefer interaction and downloading the unit in case of an event. Access to the TracKing website as well as customer support is included in the contract.

Data Integration

TracKing is a flexible system that easily integrates with your in-house fleet management systems. Integrating refrigerated trailer data into your dispatch, maintenance or bill of lading systems provides you increased efficiency and better visibility of your business.

THE RIGHT SOLUTION FOR A WIDE RANGE OF BUSINESSES.



Contract	Type
Service Level 1	Monitor
Service Level 2	Monitor and Control
Service Level 3	Monitor, Control and Download

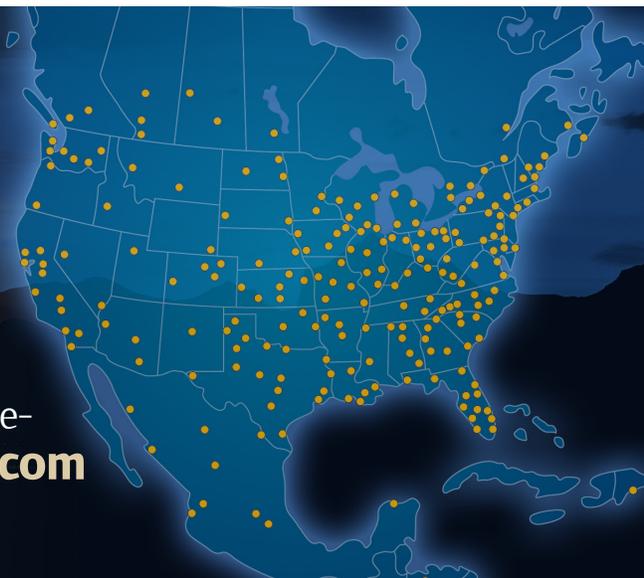
(OptiSet Plus with TracKing can be added to Service Levels 2 and 3)

Expert Service and Support are as close as this sign.

Enjoy the support of the Thermo King Dealer Network.



Over 200 factory-authorized service centers nationwide-
find one nearby at www.thermoking.com





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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