



## *T-Series*

*An all-new line of self-powered truck units destined to become the new industry benchmark.*





# Welcome to the all-new T-Series

*Delivering what matters.*

**T**hey're here. After years of engineering research and development. After extensive customer input. After exhaustive testing in the lab and on the road. After all of this and much more, the all-new T-Series line of truck units from Thermo King is ready to deliver what you and your customers demand. Lower life cycle costs. Lower fuel consumption. Cleaner, quieter operation. Unmatched performance and reliability. Greater capacities at lower operating speeds. Precise temperature control. Ease of use and service.



## Greater Fuel Savings

Fuel costs recently reached record levels and take a big bite out of your budget every day. The T-Series was developed to take advantage of the

latest fuel-saving technologies, including:

- ✓ SmartPower™ electric standby operation
- ✓ Fuel efficient engineering for greater fuel economy in all ambient conditions, hauling fresh or frozen
- ✓ ETV (electronic throttling valve) pulls down temperature faster, consuming less fuel to reach the set point
- ✓ Advanced Fuel-Saving Control Technology with the new SR-2 T-Series control system means less fuel used



## Easy to Use and Service

The latest technological advances mean little if the driver can't use the equipment easily and properly. The T-Series features the intuitive

new TSR-2 control system and other enhancements for easy use and service:

- ✓ Symbolic Display on controller for easy, error-free operation
- ✓ Easy Service Accessibility to electrical and engine compartments
- ✓ Liquid Level Fill Alerts warn of low fluid levels
- ✓ Programmable Service Intervals and Scheduled Maintenance Reminders keep unit running at peak efficiency



## Lower Life Cycle Costs

Reducing the everyday costs of operating the reefer was essential in the development of these new units.

The following features of the T-Series

will help you realize reduced operating costs, every day you run, for the life of the unit:

- ✓ TSR-2 controller helps ensure correct parameters are set for every load, quickly and easily
- ✓ EMI-2000 means longer service maintenance intervals
- ✓ Our longest truck unit warranty ever (See your Thermo King dealer for details)
- ✓ SmartPower™ reduces engine hours, resulting in lower maintenance costs



## Cleaner and Quieter


The T-Series was developed not just to meet environmental requirements, but to set new benchmarks in the

reduction of emissions, waste and noise pollution:

- ✓ SmartPower™ electric standby operation produces zero emissions
- ✓ Whisper™ quiet operation
- ✓ Cleanest diesel engine in class
- ✓ EMI-2000 reduces waste
- ✓ Poly-V stretch belt technology reduces noise

*Thermo King is  
the Green Leader*

Thermo King offers industry-leading products and solutions that enable businesses around the world to reduce energy consumption and costs and decrease harmful environmental emissions.

The  symbol indicates a feature that delivers a significant environmental advantage over previous models or the competition.

# Choose from the Latest in Compressor Technology!



## Up to 10% Fuel Savings with Scroll

Results from independent testing based on regional average ambient temperatures.

### Estimated Annual Fuel Consumption

■ Scroll      ■ Reciprocating

#### St. Louis test



#### Boston test



#### Chicago test



## Reliable Reciprocating Compressors

The industry standard for proven reliability and easy service.

- High volumetric efficiency vs. other reciprocating compressors due to more pumping capacity per cubic inch
- Reliable, time-tested design
- Field-repairable for easy service
  - No special tools or facilities required
  - Removable and replaceable cast iron cylinder sleeve design

## The Most Advanced Scroll Compressors Ever

The clear choice for peak efficiency and maximum cooling capacity.

- High efficiency and greater capacity
- Less noise and vibration
- Less maintenance (87% fewer moving parts)
- E nickel-plated Oldham coupling for greater reliability



## SmartPower™ Electric Standby

The SmartPower electric standby option allows the units to operate on electric power in addition to being powered by the standard diesel engine.

- Reduced operating costs of up to 75%
- Reduced diesel emissions
- Reduced noise
- Lower maintenance costs
- Less waste generated
- Reduced life cycle cost
- Extended reefer lifespan
- A technology refined for over 50 years by Thermo King



## Reduce maintenance costs and waste with

### EMI-2000

extended maintenance interval

- Reduces clean up and disposal costs
- Reduces environmental impact with less spillage and less waste
- Extends engine life
- Lower maintenance costs than competitive models
- More uptime with less time in the shop

# The All-Ne

## Reciprocating Compressor Units

### T-500R



|                           |                         |
|---------------------------|-------------------------|
| <b>Capacity* (BTU/hr)</b> | <b>Heating Capacity</b> |
| 35°F .....15,000          | 35°F ..... 11,000       |
| 0°F .....9,000            | <b>Weight**</b>         |
| -20°F .....5,300          | 748/898 lbs.            |

### T-600R



|                           |                         |
|---------------------------|-------------------------|
| <b>Capacity* (BTU/hr)</b> | <b>Heating Capacity</b> |
| 35°F .....17,500          | 35°F .....13,000        |
| 0°F .....10,500           | <b>Weight**</b>         |
| -20°F .....7,000          | 977/1032 lbs.           |

### T-800R



|                           |                         |
|---------------------------|-------------------------|
| <b>Capacity* (BTU/hr)</b> | <b>Heating Capacity</b> |
| 35°F .....20,000          | 35°F ..... 14,000       |
| 0°F .....12,500           | <b>Weight**</b>         |
| -20°F .....7,800          | 977/1032 lbs.           |

### T-1000R



|                           |                         |
|---------------------------|-------------------------|
| <b>Capacity* (BTU/hr)</b> | <b>Heating Capacity</b> |
| 35°F .....24,000          | 35°F .....15,000        |
| 0°F .....16,500           | <b>Weight**</b>         |
| -20°F .....10,500         | 1016/1178 lbs.          |

\*Cooling capacities rated at 100°F ambient, heating at 0°F ambient.

\*\* Weights are listed for standard unit/units with SmartPower option

|  | 14               | 16                | 18                | 20                | 22                | 24                |
|--|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|  | T-500R<br>T-600R | T-500R<br>T-600R  | T-500R<br>T-600R  | T-600R<br>T-600   | T-600R<br>T-600   | T-600R<br>T-600   |
|  | T-600R<br>T-600  | T-600R<br>T-600   | T-600R<br>T-600   | T-600R<br>T-600   | T-800R<br>T-800   | T-1000R<br>T-1000 |
|  | T-1000R<br>T-800 | T-1000R<br>T-1000 | T-1000R<br>T-1000 | T-1000R<br>T-1000 | T-1000R<br>T-1000 | T-1000R<br>T-1000 |

analysis of your requirements.

# New T-Series

## Scroll Compressor Units

### T-600



| Standard           |                  | With ETV           |                  |
|--------------------|------------------|--------------------|------------------|
| Capacity* (BTU/hr) | Heating Capacity | Capacity* (BTU/hr) | Heating Capacity |
| 35°F 18,500        | 35°F 15,000      | 35°F 20,000        | 35°F 16,000      |
| 0°F 12,000         |                  | 0°F 13,000         | <b>Weight**</b>  |
| -20°F 7,000        |                  | -20°F 8,000        | 999/1054 lbs.    |

### T-800



| Standard           |                  | With ETV           |                  |
|--------------------|------------------|--------------------|------------------|
| Capacity* (BTU/hr) | Heating Capacity | Capacity* (BTU/hr) | Heating Capacity |
| 35°F 21,500        | 35°F 15,000      | 35°F 24,500        | (35°F) 16,000    |
| 0°F 14,500         |                  | 0°F 15,000         | <b>Weight**</b>  |
| -20°F 9,000        |                  | -20°F 9,200        | 999/1054 lbs.    |

### T-1000

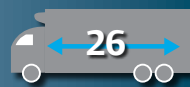


| Standard           |                  | With ETV           |                  |
|--------------------|------------------|--------------------|------------------|
| Capacity* (BTU/hr) | Heating Capacity | Capacity* (BTU/hr) | Heating Capacity |
| 35°F 27,500        | 35°F 16,000      | 35°F 34,000        | (35°F) 20,000    |
| 0°F 19,000         |                  | 0°F 21,000         | <b>Weight**</b>  |
| -20°F 12,500       |                  | -20°F 14,000       | 1029/1138 lbs.   |

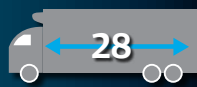
### T-1000 SPECTRUM™



| Capacity* (BTU/hr) | Heating Capacity  |
|--------------------|-------------------|
| 35°F .....29,500   | 35°F ..... 16,000 |
| 0°F .....19,500    | <b>Weight**</b>   |
| -20°F .....13,000  | 819/974 lbs.      |



T-600R  
T-600



T-800R  
T-800

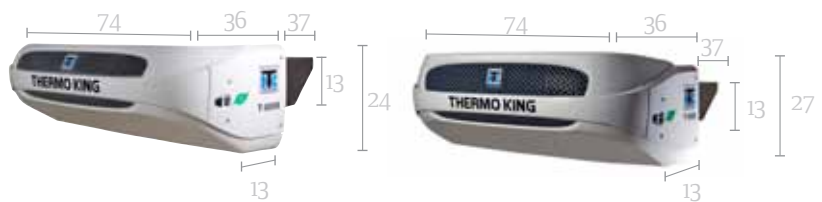
T-1000R  
T-1000

T-1000R  
T-1000

Contact Your Local Thermo King Dealer

Contact Your Local Thermo King Dealer

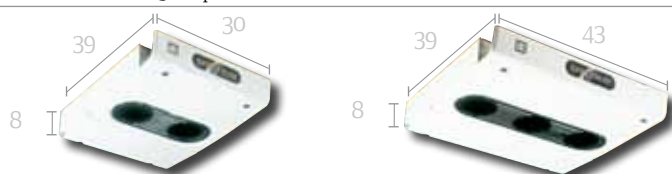
### Dimensions (inches)



T-600R/T-600/T-800R/T-800

T-1000R/T-1000

### SPECTRUM S-2 & S-3 Evaps



# The New TSR-2 Control System Easy to use. Hard to beat.



Powerful and simple to use, the new TSR-2 Control System makes it easy for your drivers to accurately manage the temperature in the truck, no matter what you're hauling. Step-by-step instructions, depicted in symbolic form, make precisely setting and adjusting the reefer quick and easy, helping your drivers, your customers and, ultimately, your bottom line.

## New Symbolic Interface

No language required, so it's easy-to-understand and use, no matter what language the driver speaks. Designed to greatly reduce operator errors.

## Fuel Savings

The TSR-2 features several improved fuel-saving features:

- CYCLE-SENTRY™ mode
- ETV
- Fuel Saver II
- Electronic door switch input

## Enhanced Load Management

Electronic Throttling Valve (ETV) provides optimum unit capacity over the full range of ambient and cargo temperatures, effectively managing the load on the engine.

## Improved Diagnosing with ServiceWatch™

Better diagnostics make it easier for drivers to understand and respond to potential problems, the first line of defense in transport refrigeration.

ServiceWatch preventative maintenance logger is a precise built-in recorder that provides improved diagnostics and keeps track of system performance and functionality. It records all operational parameters to significantly improve service diagnostics.

## Easy-to-Read LED Display

New LED (Light Emitting Diode) display is bright and clear for better visibility in all light conditions and functions perfectly in all temperature conditions.

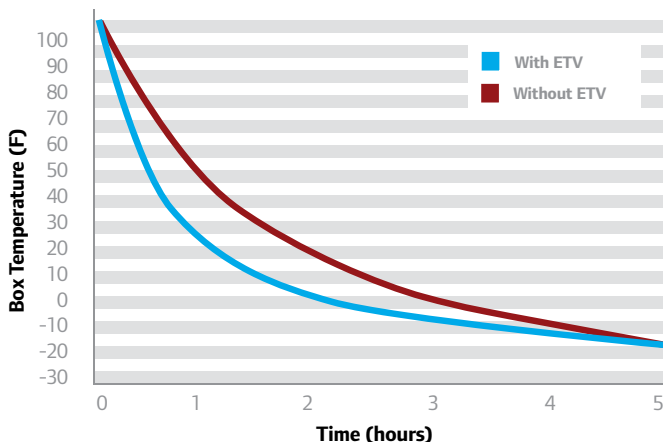
## Enhanced Safety and Security

At the end of the day, protecting your load is what it's all about. The TSR-2 was designed to make that job easier and even more effective with:

- Keypad with lock-out
- Mode-lock
- Automatic phase-correction
- Diesel/electric auto switching
- Setpoint warning
- Return air control (with ETV)
- Liquid fill alerts
- Different security access levels for appropriate personnel
- Engine and electric hour display
- Data Acquisition System (DAS) and TrackKing capability
- Refrigeration capacity alarms

## Save time and fuel with ETV

ETV (electronic throttling valve) gets your truck to the right temperature faster.



ETV: The fastest pull down (and pull up) in the industry with less fuel used and fewer emissions

## Unmatched Quality and Reliability

Using the latest and most rigorous testing techniques at state-of-the-art R&D centers worldwide, Thermo King's new T-Series delivers unsurpassed quality in every unit.

- Quality and Reliability delivered day 1
- Dedicated engineering and testing
- State-of-the-art testing centers worldwide



# T-Series Options

|   | T-500R | T-600R | T-800R | T-1000R | T-600 | T-800 | T-1000 | T-1000 SPECTRUM |
|---|--------|--------|--------|---------|-------|-------|--------|-----------------|
| <b>Controls and Information</b>                       |        |        |        |         |       |       |        |                 |
| Premium Display                                       | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Body Mount Enclosure for HMI                          | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Rear Remote Control (flushmount)                      | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Easy-Read Thermometer                                 | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Remote Indicator Lights                               | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| <b>Engine, Fuel &amp; Refrigeration</b>               |        |        |        |         |       |       |        |                 |
| SmartPower (230v/3 phase/60Hz)                        | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| SmartPower 460/3/60 (400/3/50)                        | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| ETV (Electronic Throttling Valve)                     | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Battery Box   | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Heat (electric)                                       | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Engine Block Heater                                   | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Silicone Coolant Hoses                                | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Fuel Tank (30 gallon aluminum side fill)              | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Quick Oil Drain Kit (external mounted, quick connect) | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Transverse Drain Kit                                  | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Self Tensioner  | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| <b>Telematics &amp; Sensors</b>                       |        |        |        |         |       |       |        |                 |
| DAS (Data Acquisition System)                         | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Door Switch   | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Remote Download Port                                  | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| TrackKing   | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| <b>Appearance, Noise &amp; Protection</b>             |        |        |        |         |       |       |        |                 |
| Whisper™ Plus Sound Kit                               | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Top Cover and Screen                                  | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Evap Side Screens                                     | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Snow Cover  | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Chrome Grills   | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |
| Hose Management Channel                               | ■      | ■      | ■      | ■       | ■     | ■     | ■      | ■               |

■ Available option    ■ Not available

## Available Thermo Gard™ Service Programs

### Silver

#### Centralized Billing

Billing made easy to save you time and money.

### Gold

#### Extended Warranty

Flexible configurations that can be designed to meet your specific business requirements.

### Platinum

#### Guaranteed Maintenance

Four service plan options designed to lower costs and increase uptime.



**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](http://www.thermoking.com).**



Providing equipment and services to manage controlled-temperature environments for food and other temperature-sensitive products, our Climate Control Technologies sector encompasses both transport and stationary refrigeration solutions. Our product brands include Thermo King®, a world leader in transport temperature control systems, and Hussmann®, a manufacturer of refrigeration and food merchandising equipment.

[www.thermoking.com](http://www.thermoking.com)   [www.hussmann.com](http://www.hussmann.com)   [www.ingersollrand.com](http://www.ingersollrand.com)

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