

# T-560R

— go extra, stay mini —



SINGLE TEMPERATURE SELF-POWERED  
REFRIGERATION SOLUTIONS FOR TRUCKS

# T-560R

## Refrigeration re-engineered

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Capacity is everything. You know it. We know it. Because with capacity comes the ability to optimise the day-to-day. It means faster pulldown, so your fleet is ready to roll sooner, do more deliveries and delight more customers.

This is why we re-engineered our T-500R unit, and took it to the next level.

Step forward to the T-560R from Thermo King. A self-powered refrigeration unit for both small and medium-sized trucks that sets a new industry standard for reliability, efficiency, and performance. It's got enhanced capacity, within the same neat package.

- » Enhanced Fresh & Frozen cooling capacity (up to 20% more compared to T-500R)
- » Faster pull down for quicker start up and more deliveries
- » Proven performance up to 55°C
- » R-452A future-proof, low GWP refrigerant.
- » High efficiency GreenTech TK270 engine
- » 1000 hours extended maintenance interval (EMI)
- » X214 Compressor for maximum uptime and reliability

# Powerful. Dependable. Sustainable.

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With the T-560R unit, Thermo King helps you re-imagine what's possible in your business.

**Extra Fresh & Frozen Capacity:** enhanced capacity and faster pull down increases your options, enhances your performance, and supports route optimisation for smarter deliveries.

**Extra Flexibility:** higher capacity allows for better fleet optimisation, quickly adapting to Fresh or Frozen goods' needs and making sure you have the right temperature, right when you need it.

**Extreme Temperatures:** designed to operate in the toughest ambient conditions, to protect your load up to 55°C ambient.

**Extra Savings:** with increased fuel efficiency and lower maintenance costs, coupled with our service contract options to drive down the total life cost of each unit.

**Extra Uptime:** with extended maintenance intervals which keep individual vehicles working and earning for longer, while also hitting sustainability targets.



# The inside story

The T-560R is built to last and builds on the outstanding reputation of its predecessor, the T-500R.

**TK 270 diesel engine:** high efficiency power source

**X214 reciprocating compressor:** bullet-proof reliability and increased uptime

**Evaporator fans:** Very Long Life (VLL) electric fans keep your unit on the road longer and reduce maintenance costs

**E-coated frame:** total corrosion resistance for extended life and greater resale value

**Micro-channel condenser coil & radiator:** avoid corrosion, reduce refrigerant charge & improve efficiency

**Plastic external panels:** light, strong and corrosion resistant to keep your fleet looking its best

## Maintenance conditions – maximize your uptime

Engine oil filter: 1000 hours (EMI: 1000 hours)

Belt life: 5000 hours (EMI: 2000 hours)

Refrigerant life: 5 years

Evaporator: 3 VLL (Very Long Life) electric fans (double the life of conventional fans)

# Innovation where it matters most

- 1 TK 270 diesel engine:**
  - » 2 cylinder, proven design for transport refrigeration
  - » 1000 hours between oil changes
  - » Over 100,000 units sold

- 2 X214 reciprocating compressor:**
  - » Deep sump 2 cylinder reciprocating design
  - » Field proven reliability
  - » >10,000 hours service interval

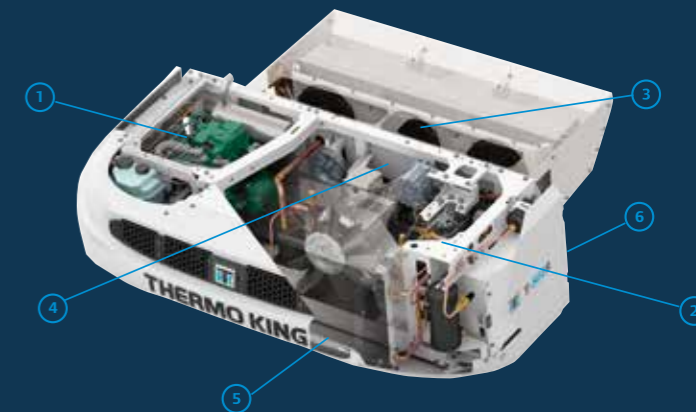
- 3 Evaporator fans:**
  - » Three 12V Electrical Fans
  - » Very Long Life fans (double the life of conventional fans)
  - » Reduced maintenance costs

- 4 E-coated frame:**
  - » Coating technology from the automotive industry
  - » Electrical current attracts paint on the metal for more complete coverage
  - » Total corrosion resistance

- 5 Micro-channel condenser coil & radiator:**
  - » All-aluminium design prevents galvanic corrosion
  - » Lighter and more efficient technology
  - » Increased capacity with refrigerant charge reduced by 30%\*

- 6 Plastic external panels:**
  - » Complete corrosion resistance
  - » Fibre reinforced to resist impact
  - » Scratches can be removed quickly and easily

\*compared with traditional fin and tube technology



## Technology you can rely on

Each new Thermo King product has first to undergo stringent testing to ensure the highest levels of reliability and operating economy, and the T-560R is no exception.

At our state-of-the-art global research and development centre, the unit is exposed to a variety of hostile conditions, extreme temperatures, and non-stop endurance tests. Next up, it's subjected to exhaustive field trials, and only after consistently positive reviews do we finally give the unit our seal of approval.

With Thermo King, you can be sure the T-560R will meet your expectations for quality, reliability, and dependability.

## Expand your green credentials

When it comes to the environment and meeting regulatory requirements, we've also got you covered. From improved fuel efficiency and lower emissions, to more environmentally friendly refrigerant, the T-560R is designed to help you grow sustainably in a dynamic market.

### Environmental benefits include:

- » Fuel consumption reduced by up to 5% (regardless of capacity increase)
- » Low emission GreenTech engine meets 2019 NRMM\* regulations
- » R-452A refrigerant reduces GWP\*\* by more than 45% compared to previous refrigerant, minimizing environmental impact
- » Whisper technology reduces operating noise levels by 20% to enable inner city delivery

\*Non-Road Mobile Machinery  
\*\*Global Warming Potential

### 45% reduction in refrigerant GWP



**Less emissions:** refrigerant R-452A provides a future proof solution to more stringent global legislation on greenhouse gases. GreenTech engine exhaust gas emissions are compliant with the most stringent requirements from NRMM regulation (Stage V - 2019).



# Key features and options

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## Remote Watch

- » New feature that allows the Thermo King service team to remotely access the unit from anywhere in the world
- » Only requires a USB port and an internet connection
- » User-friendly interface providing on the road service, minimising vehicle downtime

## Warranty coverage

2 year warranty coverage on unit and options (2nd year warranty coverage subject to mid-term inspection)

## Cycle-Sentry

Stops the engine when refrigeration is not needed, and restarts it when refrigeration or battery charge is called for.

- » Fuel and CO<sub>2</sub> savings of up to 80%
- » Increased component life
- » Reduced maintenance costs

## Extended Maintenance Interval: EMI 1000

Thermo King EMI 1000 will extend maintenance intervals and reduce operating costs by:

- » Reducing clean-up and disposal costs
- » Reducing environmental impact with less spillage and less oil, filter, and coolant waste
- » Extending engine life with improved, highly efficient filtration

## Thermo King EnergyOne Silver Battery

Incorporates silver-calcium technology to extend service life by over 20% more than conventional batteries.

## Auto phase correction

- » Avoids reverse fan rotation while on electric stand-by
- » Protects the load

## Diesel/electric auto switching

- » Automatically starts diesel engine if electric stand-by fails
- » Manual override for ferry operation
- » Protects the load automatically (without manual intervention)

## TherMax system

- » Faster defrosting cycles.

## Password protected controller

- » Prevents unauthorised access
- » Protects against cargo loss, especially in high ambients

## Body mount enclosure

Allows external mounting of in-cab displays on drawbar truck bodies, allowing for easier access.

## ThermoKare™

ThermoKare offers a complete selection of service contract options, to help you manage maintenance costs and hence total life cost of a unit.

## Thermo King EnergyOne Gold Battery

For customers that operate in colder climates, this 760 CCA upgraded wet cell battery delivers greater power than the standard battery.

## Thermo King EnergyOne Platinum Battery

- » Uses Absorbed Glass Mat (AGM) technology with deep cycle capability and enormous cranking power (880 CCA)
- » Maintains capacity at extremely low temperatures better than a wet cell battery
- » Avoids the cost of battery replacements through an expected five to eight year service life
- » Also backed by Thermo King's 2 year warranty

## 90L Fuel tank

- » Approved for diesel and bio-diesel
- » Vibration resistant to Thermo King standards
- » Mechanical fuel gauge with option to upgrade to electrical
- » Galvanised drain plug as standard
- » Corrosion resistant installation kit (e-coated)

# Key features and options

## Door switches

Reduce the load temperature rise and detect theft by monitoring door openings and save fuel when doors are open by turning off the unit.

## Whisper™ noise attenuating kit

» The Whisper™ low noise kit reduces noise levels significantly over standard units.

T-560R	
<b>LIFE COST MANAGEMENT</b>	
Remote Watch	●
Warranty coverage	●
Cycle-Sentry™ interval	●
EMI 1000: Extended maintenance	●
TK Battery - EnergyOne Silver (Wet Cells 640 CCA)	●
TK Battery - EnergyOne Gold (Wet Cells 760 CCA)	△
TK Battery - EnergyOne Platinum (AGM 880 CCA)	△
ThermoKare™	▲
<b>LOAD PROTECTION</b>	
Auto phase correction	●
Diesel/electric auto switching	●
Password Protected controller	●
TherMax system	●
Body mount enclosure	△
90L Fuel tank	▲
Door switches	△
<b>CUSTOMIZATION</b>	
Whisper noise attenuating kit	△

○ Not Available

● Standard Feature

△ Option: Factory Supplied

▲ Option: Dealer Supplied

# Specifications

T-560R			
<b>REFRIGERATION CAPACITY: SYSTEM NET COOLING CAPACITY AT 30°C AMBIENT TEMPERATURE UNDER ATP CONDITIONS</b>			
Return air to evaporator		0°C	-20°C
Capacity on engine power	W	6300	3500
Capacity on electric stand-by	W	4800	2500
<b>REFRIGERATION CAPACITY: SYSTEM NET HEATING CAPACITY AT -18°C AMBIENT TEMPERATURE</b>			
Return air to evaporator		2°C	
Capacity on engine power	W	1800	
Capacity on electric stand-by	W	1000**	
<b>AIRFLOW ON HIGH SPEED ENGINE OPERATION</b>			
Airflow Volume @ 0Pa static pressure	m³/hr	2150	
<b>WEIGHT</b>			
Model 30: cooling and heating on engine operation	kg	370 *	
Model 50: cooling and heating on engine and electric stand-by operation	kg	400 *	
<b>ENGINE: LOW EMISSIONS, 2 CYLINDER, LIQUID COOLED</b>			
Model		TK 270	
Rating	kW	7.5	
Maintenance Interval	hrs	1000	

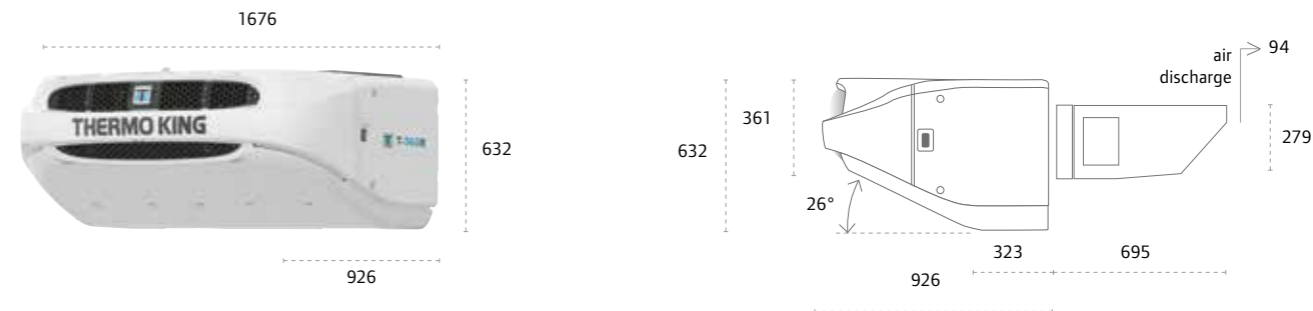
\* Battery not included. With Whisper noise attenuating kit option: +10kg

\*\* With Electric Heat Option 2500W capacity is achievable

# Specifications

SPECIFICATIONS		T-560R
COMPRESSOR: LIGHTWEIGHT ALUMINIUM ALLOY		
Model		X214 Deep Sump
Displacement	cc	228
ELECTRIC STAND-BY OPTION		
Voltage / Phase / Frequency		400V/3Ph/50Hz 230V/3Ph/50Hz 230V/3Ph/60Hz
Rating	kW	4.5
REFRIGERANT: R-452A, FUTURE PROOF COMPLIANCE WITH F-GAS REGULATIONS (2020 REVISION)		
Charge	kg	2.5

## Dimensions (in millimeters)



## WARRANTY SUMMARY

Specific terms of the Ingersoll Rand Ltd. 24 month full warranty are available on request (refer to TK 60483). Thermo King excludes liability in contract and tort (including strict liability and negligence) for any special, indirect or consequential damages by reason of the installation or use of any covered product or its mechanical failure.



# Keeping you moving: Thermo King service and parts support

## Access to trained and experienced specialists

Every customer of the T-560R receives 24/7 back-up from the world-renowned Thermo King Dealer network. As a result, you can rely on a fast and efficient response to any operational issues – including product installation, diagnostics, and maintenance.

## Unmatched serviceability and improved parts support

The T-560R is designed to use components that are common to the already existing members of the T-Series range. We've done this to help ensure greater availability of parts, faster repair times, and Exceptional reliability.

## OUR DEALER SERVICE NETWORK ANYTIME, ANYWHERE, ALWAYS THERE



## ANYWHERE IN EUROPE, MIDDLE EAST AND AFRICA

- » Over 500 authorised service points in 75 countries
- » 1400 fully trained and certified technicians with Gold, Silver and Bronze Certi-Tech expertise certifications
- » Open and available 24/7

## MORE DEALER SERVICES

- ✓ Emergency assistance
- ✓ Service contracts
- ✓ Genuine Thermo King parts
- ✓ Options and Accessories
- ✓ Mobile service
- ✓ Calibration and leak testing
- ✓ ...

FIND THE DEALER CLOSEST TO YOU  
WITH OUR ONLINE DEALER LOCATOR  
[DEALERS.THERMOKING.COM](http://DEALERS.THERMOKING.COM)







## **THERMO KING**

Thermo King – by Trane Technologies (NYSE: TT), a global climate innovator – is a worldwide leader in sustainable transport temperature control solutions. Thermo King has been providing transport temperature control solutions for a variety of applications, including trailers, truck bodies, buses, air, shipboard containers and railway cars since 1938.

For further information, please contact:

[europe.thermoking.com](https://europe.thermoking.com)

Find your nearest dealer on

[dealers.thermoking.com](https://dealers.thermoking.com)

**TRANE**  
TECHNOLOGIES

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