FULL-ELECTRIC REFRIGERATION UNIT FOR MEDIUM-SIZE VANS AND TRUCKS
The market leader in innovative technologies, Thermo King has expanded its portfolio of vehicle refrigeration systems with the E-200. It’s a direct response to market demands for an all-electric product that supports increased vehicle uptime, power source optimization, and enhanced temperature control.

Designed for both electric and engine-powered vehicles, the E-200 can help ensure your operations remain compliant with a growing array of regional and national regulations concerning the reduction of noise and CO₂ pollution.

By deploying the E-200, your refrigerated transport operation will benefit from:

• Complying with PIEK standards and Urban Access Requirements (UVARs) for sound levels in urban environments
• Gaining access to Low Emission Zones (LEZs)/Ultra Low Emission Zones (ULEZs), with extreme low noise levels to complete nighttime deliveries
• Providing refrigeration that moves beyond direct drive systems to provide the ideal solution for all-electric trucks
• Helping your customers meet their sustainability targets throughout the cold chain

The E-200 provides a unique mix of control, convenience, utilization, and reliability to inspire your performance across urban settings and last mile deliveries.

Independent.
Intelligent.
Ready to go.
ONE AWESOME LOOKING UNIT, AND A TRUCK LOAD OF NEW CAPABILITIES

Turning the potential of electric into easy-to-use, intelligent, and precise temperature control:

CONVENIENCE AS STANDARD
With no road compressor or drive kit, all the E-200’s major components are fully integrated – making it a plug and play solution that removes the headaches associated with installation.

A SMARTER FORM OF POWER
With performance that’s completely autonomous from the vehicle, and intelligent power source optimization to give you increased uptime and improved maintenance intervals.

CAPACITY YOU CAN ALWAYS RELY ON
Due to the E-200’s enhanced controller for single and multi-temperature that delivers constant capacity independent of vehicle RPM.

CONNECTIVITY AT THE SHARP END
The unit’s power management capability enables close compatibility with the start-stop features of the vehicle and it is able to increase vehicle RPMs when needed.

SILENT RUNNING IN THE VEHICLE CABIN
with limited perception of any vibrations to ensure peace of mind for the driver.

LAST MILE NEEDS AND NIGHT DELIVERY
the E-200 offers the perfect fit for last mile needs due to its precise temperature control and quick recovery from door openings. Due to the extreme low noise level, the E-200 is also suitable for night deliveries.

INNOVATION AT EVERY STEP
Light and flexible new materials have been employed on the E-200 to create an extremely light condenser to enable increased payloads and a corrosion-free solution for the condenser.

The E-200 can work with both electric and engine-powered vehicles to put exciting new capabilities at your fingertips.

Charge into the era of electric

A VARIABLE SPEED COMPRESSOR
- Allows you to decrease the deviation of the set point, and to fully enjoy the benefits of Precise Temperature Control
- Increases system reliability due to the lower number of compressor starts and stops required to function
- Decreases consumption, which is particularly important when the E-200 is running on batteries

A TAILOR-MADE INVERTER
- Provides the constant capacity needed to keep performance independent from the vehicle
- Delivers exceptional operating efficiency in even the most demanding of environments
- Avoids the use of a road compressor in the engine compartment, thereby making the unit easier and faster to install

A STAND OUT CONTROLLER (DSR IV)
- Enables direct communication between the unit and the vehicle to ensure compatibility with the Start & Stop feature
- Power Management Intelligence to optimize the supply and demand of power:
  — Adapts capacity based on actual need
  — Adapts capacity based on available power
  — Enables the management of different power sources
- Manages alarms related across all integrated components (inverter, charger, new electronics, battery(ies))

EMBEDDED TELEMATICS (OPTIONAL)
Two-way communication with the E-200 gives you the ability to track and monitor the condition of each unit in your transport fleet. As a result you can benefit from remote management, and identify a smarter route to managing and maintaining your operations. Anytime, anywhere.
THE FIRST LAST MILE OF A NEW ERA

The E-200 extends Thermo King’s all-electric range to medium-sized vans and trucks. Packed full of innovation, the unit brings with it the constant capacity and intelligent power management needed to exploit the opportunities presented by electric. Ready for the last mile, the distribution center, and everything in between, the E-200 unlocks low noise/low emission zones to any delivery – and in so doing supports your long-term business ambitions.

CONNECTED SOLUTIONS READY
Monitor and control your fleet assets to ensure everything from temperature traceability to define FSMA compliance. These are capabilities that help you manage load integrity, cargo traceability, fuel usage, and much, much more. Add in Bluetooth connectivity and proactive notifications, and you can rest assured that any problem can be quickly identified and addressed.
SPECIFICATIONS E-200
Refrigerant System net cooling capacity under ATP conditions, European standard

<table>
<thead>
<tr>
<th>AIRFLOW</th>
<th>ES150</th>
<th>ES200</th>
<th>ES100N</th>
</tr>
</thead>
<tbody>
<tr>
<td>On High Speed Operation</td>
<td>800 m³/h</td>
<td>1012 m³/h</td>
<td>580 m³/h</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>WEIGHT</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Condenser</td>
<td>39 kg</td>
</tr>
<tr>
<td>Evaporator ES150 (MAX)</td>
<td>14 kg</td>
</tr>
<tr>
<td>Evaporator ES200 (MAX)</td>
<td>15 kg</td>
</tr>
<tr>
<td>Evaporator 2 x ES100N MAX</td>
<td>18 kg</td>
</tr>
</tbody>
</table>

**HEATING CAPACITY** Ambient temperature of -18°C (only available for R-452A models)

| RETURN AIR EVAPORATOR | 18°C | 18°C |
| CAPACITY ON ENGINE POWER | 1300 W | 1300 W |
| CAPACITY ON ELECTRICAL STAND-BY | 1300 W | 1300 W |

**COOLING CAPACITY** Ambient temperature of +30°C

| RETURN AIR EVAPORATOR | 0°C | 0°C |
| CAPACITY ON ENGINE POWER | 1507 W | 1414 W |
| CAPACITY ON ELECTRICAL STAND-BY | 1511 W | 1413 W |

**E-200 MAX 50 MODELS (R-452A)**

<table>
<thead>
<tr>
<th>Single Temperature Models</th>
<th>Spectrum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ES150</strong></td>
<td><strong>ES200</strong></td>
</tr>
<tr>
<td>Capacity</td>
<td>1507 W</td>
</tr>
<tr>
<td>Size</td>
<td>1578 W</td>
</tr>
</tbody>
</table>

(1) ES100N is interchangeable with ES100.

**IMPRESSION CONSUMPTION LEVELS**
The E-200 is designed to require the least energy possible to run effectively. For diesel-engine vehicles a 12V alternator providing a minimum of 180 amps is typically sufficient (as long as instruction in the conversion manual are correctly followed). For electric vehicles, a 12V auxiliary battery should suffice, though this depends upon the refrigeration capacity required.

**CONSUMPTION**

<table>
<thead>
<tr>
<th>MAX POWER</th>
<th>MIN POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Current</td>
</tr>
<tr>
<td>R-134a</td>
<td>ES150</td>
</tr>
<tr>
<td></td>
<td>ES200</td>
</tr>
<tr>
<td>R-452A</td>
<td>ES150</td>
</tr>
<tr>
<td></td>
<td>ES200</td>
</tr>
</tbody>
</table>

* Consumption measurements tested at 14V, and accuracy of consumption (current) is +/- 5 amps.

**SUGGESTED BOX VOLUMES**
Volumes can differ based on several aspects, such as ambient temperature, number of door opening, duration of each door opening, duration of vehicle engine off per each door opening:

**DIMENSIONS**
The condenser and evap sections are available in:
- 1 ph / 230V / 50Hz or 60Hz
- 1 ph / 115V / 60Hz
THE SMARTER APPROACH TO VEHICLE UPTIME

Keep your fleet running longer with our extensive ecosystem of support capabilities

ALWAYS INSIST ON GENUINE THERMO KING SERVICE PARTS
As a Thermo King owner, you have invested in trusted and proven technology. So when maintaining your unit, it makes sense to choose original Thermo King replacement parts. It is reassuring to know that every part has been exhaustively tested to the same world-class standards as your Thermo King unit. Genuine parts last longer and perform dependably day after day, year after year.

THERMOKARE SERVICE SOLUTIONS
ThermoKare is a complete selection of service contract solutions designed to optimise fleet efficiency, minimize operating costs and maximize equipment resale values. When you choose a ThermoKare programme you let the experts service your fleet while you focus on your business. Your Thermo King Dealer will take care of maintenance planning, scheduling, invoice interpretation and general fleet administration.

ThermoAssistance is a multilingual telephone service putting you in contact with an authorised Thermo King Service Dealer whenever the need arises. It is available across Europe 24/7/365.

TELEMATICS INTELLIGENT SERVICES AND SMART DATA MANAGEMENT
The transportation industry has always been about connectivity. It brings products to consumers all over the world and has enabled a global marketplace. Today, connectivity has taken on even greater meaning due to the amazing technologies that are within our grasp. Thermo King’s Telematics portfolio offers innovative data storage, transfer and management solutions giving you the competitive edge in food safety, regulatory conformity, fleet usage and data control.

TK Wintrac is just an example. Check it out on europe.thermoking.com/solutions/connected-solutions

WANT TO DISCOVER MORE?
Contact your nearest Thermo King dealer.

OUR DEALER SERVICE NETWORK ANYTIME, ANYWHERE, ALWAYS THERE

Thermo King’s Dealer Network is the most extensive in the business
• Over 500 authorized 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

CERTI-TECH 
OUR DEALER 
SERVICE NETWORK 
ANYTIME, 
ANYWHERE, 
ALWAYS THERE

KEEP YOUR FLEET RUNNING LONGER WITH OUR 
EXTENSIVE ECOSYSTEM OF SUPPORT CAPABILITIES

ALL IN ONE PLACE.
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

Find your nearest dealer on
dealers.thermoking.com