

# Advancer-e

All-Electric, All-Advancer.

ALL-ELECTRIC SINGLE AND MULTI-TEMPERATURE  
REFRIGERATION SOLUTIONS FOR TRAILERS



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## ADVANCER-e

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## RANGE

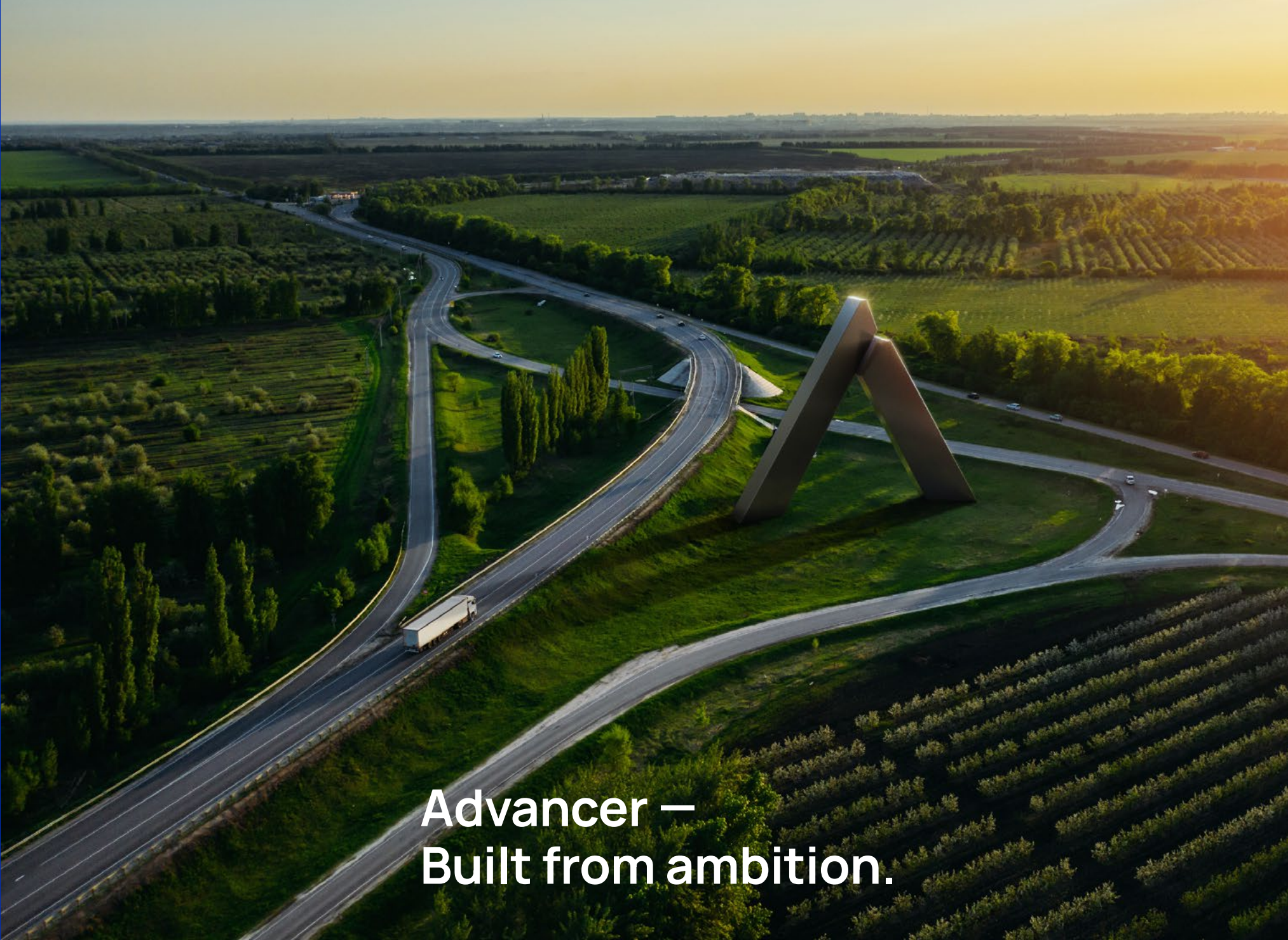
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Advancer was built from ambition. Our ambition to push the boundaries of what was possible and your ambition to push your business to the next level.

### ADVANCER IS A LANDMARK IN THE TRAILER REFRIGERATION LANDSCAPE.

- Fastest pulldown on the market **to keep you moving**
- Unprecedented fuel efficiency **to keep your costs down**
- Unrivalled temperature control **to make sure you can deliver every load in perfect condition**

**More sustainable,  
more efficient, more powerful.**

Advancer-e takes that promise and lets it evolve. All the benefits and characteristics of Advancer, with 100% engineless operations.

# Your sustainable, all-electric future.

Compatible with alternative power sources, fully emission-free, and extraordinarily efficient, Advancer-e has it all. This engineless Advancer is the first step towards full electrification and a cleaner, more sustainable future for trailer refrigeration.

**ENGINELESS OPERATIONS**  
Save fuel and increase fleet sustainability.

**PRECISE TEMPERATURE CONTROL**  
Accuracy up to 0.5°C.

**VARIABLE AIRFLOW**  
Airflow independent of engine speed for precise temperature control.

**HIGH TEMPERATURE RECOVERY**  
Recover from door openings quickly and protect cargo on the road.

**FAST PULLDOWN**  
Get to temperature 40% faster.

Advancer-e is not just a fuel-efficient choice - it is an investment in your fleet's flexibility and a more sustainable future. Give your trailer fleet the **premium Advancer cooling performance on both the inter-regional roads and the inner cities** with an engineless design. Cut back on fuel, and get in early on the all-electric future.

\* can vary depending on usage profile and ambient conditions

Thanks to its engineless architecture, the Advancer-e series operates completely emission-free, granting your fleet access to zero-emission zones without worry. Each unit can **reduce your fleet's carbon footprint by up to 10 tons of CO<sub>2</sub> per year**. A low GWP refrigerant reduces the environmental impact of the unit to an absolute minimum.



# Uncompromising reliability, zero emissions

**LOW NOISE**  
The Advancer-e single temperature models are Peak-certified by default, resulting in a maximum noise level of 60dB(A). Perfect for urban and late-night deliveries.

**SAVE FUEL ON VEHICLE**  
Absence of an engine results in lower total weight of the vehicle, which means reduced fuel consumption.

**ZERO-EMISSION**  
Emission-free refrigeration and efficient energy use lets you dramatically reduce your carbon footprint and fuel consumption.

# All-electric, single temperature.

The trailer refrigeration industry is transitioning to a cleaner and more sustainable future. Take the first step towards full electrification with this engineless Advancer-e, compatible with alternative power sources. A unit that's fully emission-free and extraordinarily efficient.

**FULL-ELECTRIC OPERATIONS**

Save fuel and increase fleet sustainability with zero-emission refrigeration.

**LOW NOISE**

Deliver late night or in urban areas without waking up a soul with the engineless and Peak certified single temperature Advancer-e.

**LIGHTWEIGHT**

Absence of an engine reduces total weight of the vehicle and fuel consumption.

**FUTUREPROOF**

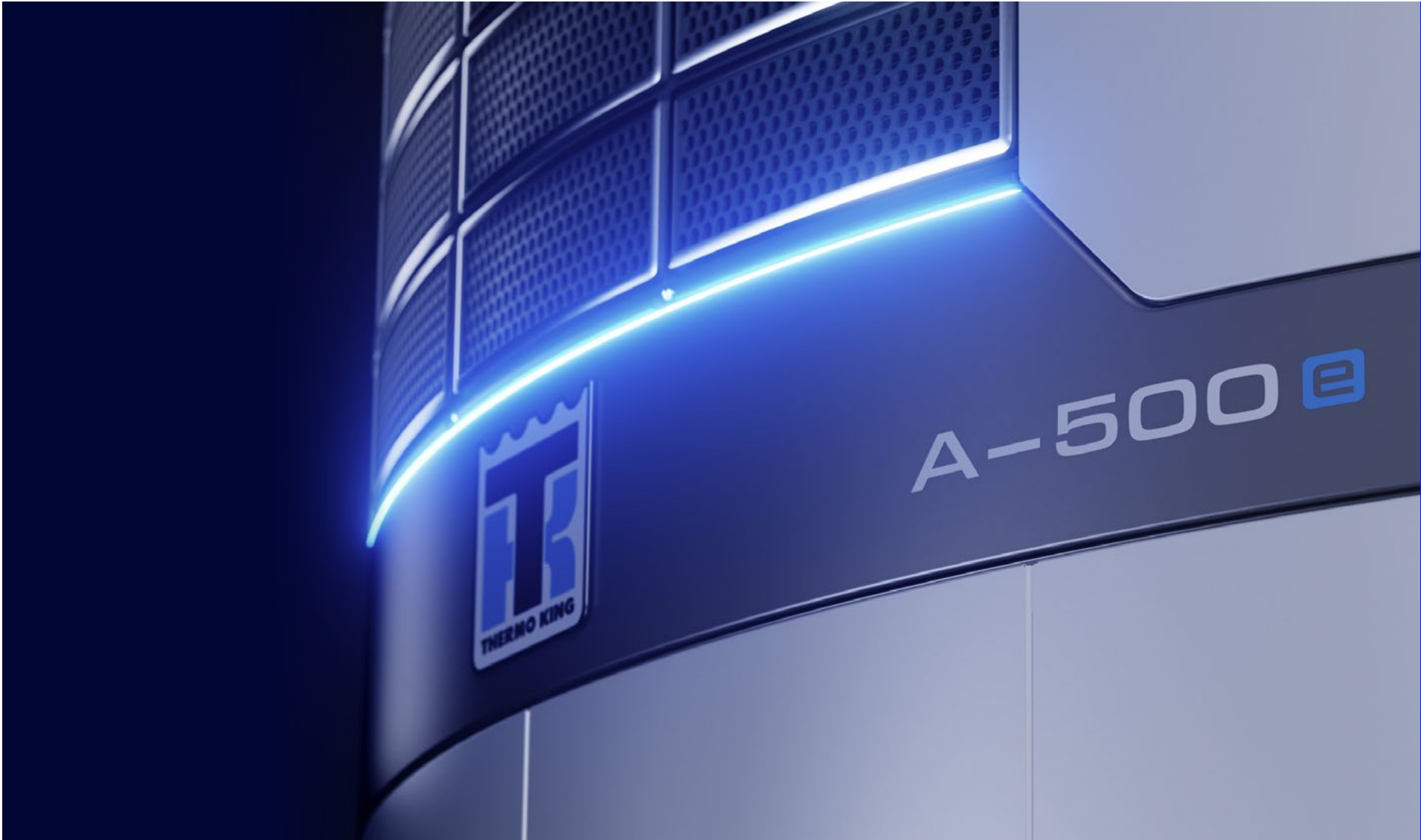
Fully compatible with conventional and alternative power sources.

AVAILABLE IN



**A-500e**

Futureproof your fleet with engineless, zero-emission cooling.



**Full electric**  
100% engineless

**Save up to 10 tons CO<sub>2</sub>**  
Per year per unit\*

\* Depending on usage profile and ambient conditions

# All electric, multi-temperature.

Advancer-e Spectrum brings engineless refrigeration to new levels of flexibility, with high-performance multi-zone control. Conquer suburbs, highways and zero emission zones alike with flexible, whisper-quiet, zero-emission deliveries.

A-500e Spectrum Whisper Pro makes sure your box is used to its fullest capabilities. Whatever mix of cargo you need to transport, this multi-temperature engineless unit makes sure it can all be shipped in a single trailer. That way, you can respond to peak demands quickly, easily, and emission-free.

**BESPOKE CONTROLLER**  
Specialized A-series multi-temp controller, allowing for superior temperature control across all zones.

**LOW NOISE**  
Whisper-quiet, PeaK certified operations for late-night and urban deliveries.

**TAILORED TEMPERATURE CONTROL**  
Two distinct cooling modes for ultimate control of your cargo.

**Continuous mode**  
Tight temperature control for sensitive cargo, such as pharma and fresh produce.

**Cycle sentry mode**  
Maximum fuel saving for products that do not require permanent airflow.

AVAILABLE IN



## A-500e SPECTRUM WHISPER PRO

### 3 REMOTE EVAPORATORS TO LEVEL UP YOUR REMOTE ZONES

- Expanding ever further with S3A, S6A & S4
- Higher zone cooling capacity
  - Faster pulldown
  - More precise temperature control management
  - Superior system balance between zones



**Sustainable refrigeration**  
PeaK compliant with no Direct Emissions

**Full flexibility**  
Use as single or multi-temperature configuration  
Compatible with multiple power sources

# Technical specifications.

|                                                                                                          |                                            |                    |                     |       |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------|---------------------|-------|
| MODEL                                                                                                    |                                            | A-500e WHISPER PRO |                     |       |
| PERFORMANCE                                                                                              |                                            |                    |                     |       |
| Refrigeration capacity: system net cooling capacity at 30 °C ambient temperature under A.T.P. Conditions |                                            |                    |                     |       |
| Return air temperature to evaporator                                                                     | @ Nominal Airflow<br>(Default @ Pull Down) | °C                 | 0                   | -20   |
| Capacity on electric power                                                                               |                                            | W                  | 15 800              | 7 900 |
| Airflow: independent from unit engine speed selectable within range @ set point & pull down              |                                            |                    |                     |       |
| Airflow volume<br>@ 0 Pa static pressure                                                                 | Default @ Pull Down                        | m³/h               | 4 600               |       |
|                                                                                                          | Default @ Set Point                        | m³/h               | 3 400               |       |
| TECHNICAL DATA                                                                                           |                                            |                    |                     |       |
| Weight – including battery                                                                               |                                            |                    |                     |       |
| Model Standard                                                                                           |                                            | kg                 | 590                 |       |
| Dimensions                                                                                               |                                            |                    |                     |       |
| Width x Depth x Height                                                                                   |                                            | mm                 | 2 076 x 440 x 2 270 |       |
| Electric stand-by motor                                                                                  |                                            |                    |                     |       |
| Voltage / Phase / Frequency                                                                              |                                            |                    | 400/3/50            |       |
|                                                                                                          |                                            |                    | 460/3/60            |       |
| Rating                                                                                                   |                                            | kW                 | 9.3                 |       |
| Sound pressure level (standard unit)                                                                     |                                            |                    |                     |       |
| Electric Standby                                                                                         |                                            | dB(A)              | 60                  |       |
| Generic                                                                                                  |                                            |                    |                     |       |
| Box length                                                                                               |                                            | m                  | 15                  |       |
| Refrigerant                                                                                              |                                            |                    | R-452A              |       |
| Controller                                                                                               |                                            |                    | A-Series Controller |       |

| MODEL                                                                                                    |                     | A-500e SPECTRUM WHISPER PRO |        |
|----------------------------------------------------------------------------------------------------------|---------------------|-----------------------------|--------|
|                                                                                                          |                     |                             |        |
| Refrigeration capacity: system net cooling capacity at 30 °C ambient temperature under A.T.P. Conditions |                     |                             |        |
| Return air temperature to evaporator                                                                     | °C                  | 0                           | -20    |
| Capacity on electric power                                                                               | W                   | 15 800                      | 7 800  |
| PeaK Mode                                                                                                | W                   | 15 300                      | 7 800  |
| Airflow: independent from unit engine speed selectable within range @ set point & pull down              |                     |                             |        |
| Airflow volume<br>@ 0 Pa static pressure                                                                 | Default @ Pull Down | m³/h                        | 4 550  |
|                                                                                                          | Default @ Set Point | m³/h                        | 3 400  |
| TECHNICAL DATA                                                                                           |                     |                             |        |
| Weight – including battery                                                                               |                     |                             |        |
| Model Standard                                                                                           | kg                  | 615                         |        |
| Dimensions                                                                                               |                     |                             |        |
| Width x Depth x Height                                                                                   | mm                  | 2 076 x 440 x 2 270         |        |
| Electric stand-by motor                                                                                  |                     |                             |        |
| Voltage / Phase / Frequency                                                                              |                     | 400/3/50<br>460/3/60        |        |
| Rating                                                                                                   | kW                  | 9.3                         |        |
| Sound pressure level (standard unit)                                                                     |                     |                             |        |
| Electric Standby                                                                                         | dB(A)               | 60                          |        |
| Generic                                                                                                  |                     |                             |        |
| Box length                                                                                               | m                   | 15                          |        |
| Refrigerant                                                                                              |                     | R-452A                      |        |
| Controller                                                                                               |                     | A-Series Controller         |        |
| EVAPORATORS                                                                                              |                     |                             |        |
| Capacity 0-30°C                                                                                          |                     | electric standby            | PeaK   |
| S3A                                                                                                      | W                   | 8 500                       | 8 400  |
| S4                                                                                                       | W                   | 10 400                      | 10 300 |
| S6A                                                                                                      | W                   | 12 600                      | 12 400 |
| Dimensions Width x Depth x Height                                                                        |                     |                             |        |
| S3A                                                                                                      | mm                  | 1 100 x 1 000 x 200         |        |
| S4                                                                                                       | mm                  | 2 x (760 x 1 000 x 200)     |        |
| S6A                                                                                                      | mm                  | 2 x (1 100 x 1 000 x 200)   |        |

# Compatible with multiple power sources.

Advancer-e is truly futureproof. The trailer refrigeration unit is fully compatible with conventional and alternative power sources like AxlePower, EnviroDrive and BE-Tech.

Advancer-e is also compatible with future power sources such as hydrogen fuel cells.



## AXLEPOWER

Power your unit with energy recovered and stored by an axle and battery pack

A smart power recovery system that lets you run your cooling unit with recaptured, free, zero-emission, generated by your vehicle's axle.

## A sustainable all-electric fleet.

- **Zero-emission:** Grant your fleet access to ultra-low emission zones without worry. Each unit can reduce your fleet's carbon footprint by up to 10 tons of CO<sub>2</sub> per year (depending on usage profile and ambient conditions).
- **Low noise:** Perform urban and late-night deliveries without making a sound, thanks to the engineless design.

## ENVIRODRIVE

Alternator technology for electrically driven cooling

Run your electric unit via a high-performance and high-efficiency alternator driven by the vehicle's engine. With an operating efficiency of 96% and a constant capacity, EnviroDrive delivers efficient and reliable cooling on the road.



## BE-TECH

Battery-powered innovation for all-electric refrigeration

Ultimate sustainability with 100% electric operations, powered directly by batteries (internal or external) and shore power. No fuel, no emissions. High efficiency means there is a minimum impact on your vehicle's range.

## AXLEPOWER

# Self charging & smart energy recovery.

An Advancer-e equipped with AxlePower doesn't let a single drop of energy go to waste. This trailer-independent energy recovery system lets you **capture energy that would normally be lost**.

While on the road, constant braking, accelerating and rolling produce a lot of energy that can be captured and used to **power your refrigeration unit. In other words: AxlePower gives you zero-emission energy at no additional cost.**

### FLEXIBLE TRAILER COOLING

**Mix and match trailers and tractors** thanks to AxlePower's tractor-independent system. No lengthy hardware adjustments or power source incompatibilities. Since AxlePower operates independently, you can combine it with **any tractor power source**: diesel, LNG, CNG, hydrogen or fully electric vehicles.

### UNLIMITED ACCESS

Hastle-free deliveries in zero-emission areas and noise-regulated zones. Anytime, anywhere.

## Smart Power Management.

Use AxlePower with confidence and ease thanks to its industry-leading Smart Power Management. No buttons to push, and no display to distract drivers on the road. **Simply connect the system and let it operate itself.** It will analyse battery- and road conditions to choose the most efficient mode at any given time, all on its own.

### RECUPERATION MODE

Recover energy when the tractor is braking or going downhill, charging up the battery and providing you with **zero-emission energy to power the unit**.

### PASSIVE MODE

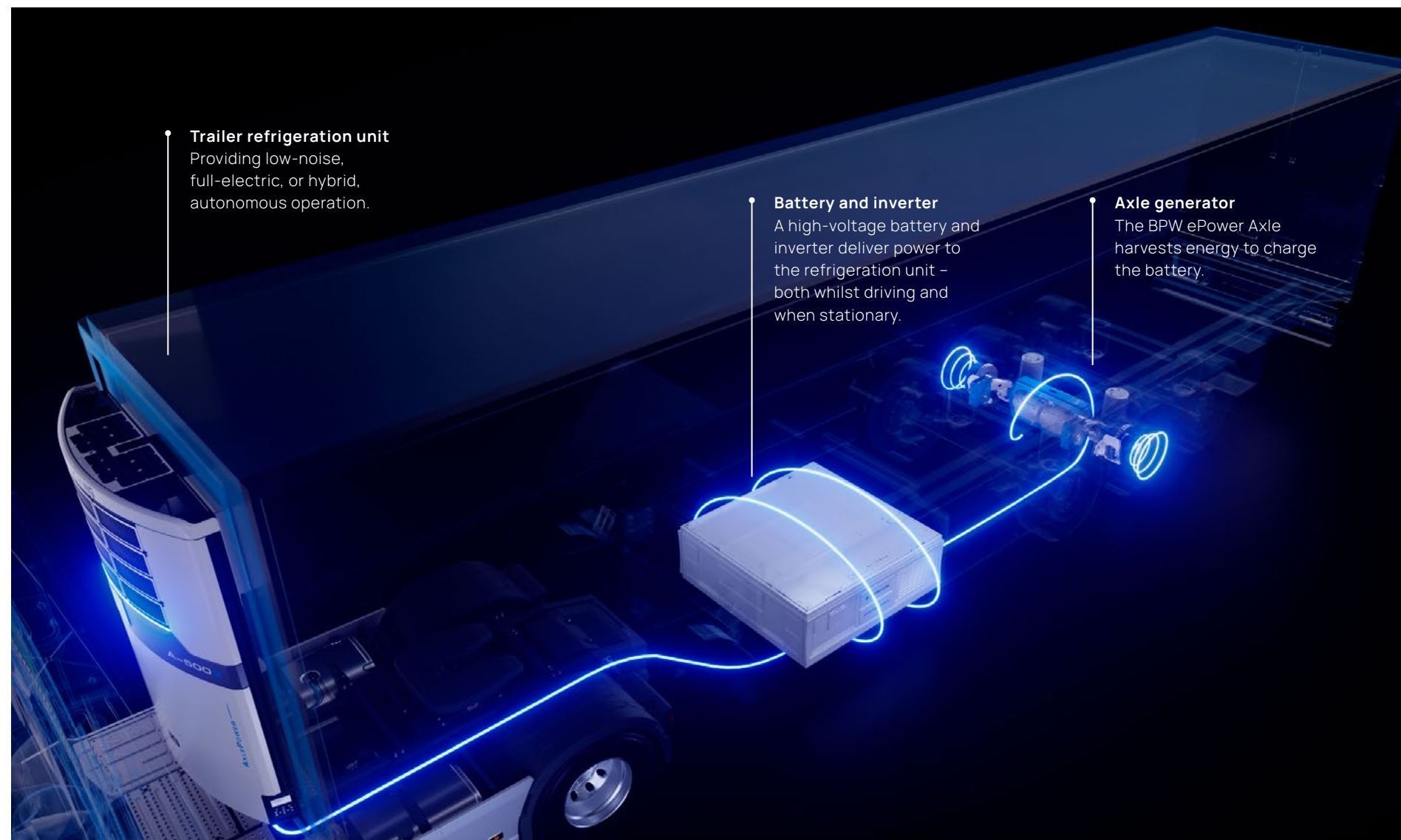
When there is ample battery charge or when the refrigeration vehicle is transporting non-temperature sensitive products.

### ACTIVE MODE

When there is insufficient battery charge and energy generation to power the unit. The engine pulls a little harder, so the activated axle generators can maintain speed and **harvest enough power**.

### ACTIVE FAST CHARGE MODE

Adapted to more demanding usage profiles, with a less favorable [distance traveled/ stationary time] ratio, ensuring the availability of maximum autonomy before each stationary operation phase.



**70-100%**

Fuel saving per refrigeration unit

**100%**

Electrical use of your refrigeration unit

**No range anxiety**

Break away from the charging infrastructure and stay on the road

BE-TECH

# Battery-powered innovation.

Go all out in your goal to combine sustainability and performance, with fully-electric refrigeration units. Reduce your fuel consumption while upping your sustainability - without compromising on reliability.

This technology plugs directly into your BEV's vehicles or connects to an external battery for 100% emission-free cooling, with limited impact on your (e-)vehicle range.

- FUTURE-READY**  
Meet urban access regulations both day and night.
- PLUG-AND-PLAY**  
Quick and easy installation.
- HIGH EFFICIENCY**  
lowest impact on (vehicle) battery autonomy.
- MODULAR**  
Fit your exact needs from 19-105 KW.



- 100%**  
Electric operations: emission-free refrigeration
- 24/7**  
Access to the last mile



ENVIRODRIVE

# Alternator technology for electrically-driven cooling.

Power Advancer-e with EnviroDrive, Frigoblock's alternator technology. The unit runs electrically via a high-performance and high-efficiency alternator and inverter, driven by the vehicle's engine.

- CONSTANT CAPACITY**  
Variable speed control enables consistent compressor and fan speed.
- ALTERNATOR**  
Highly efficient power conversation for minimal power loss.
- FULLY ELECTRIC**  
Cut back on fuel usage with 100% electric operations of the unit.
- LOWER EMISSIONS**  
Emissionless cooling for ULEZ-access.

- 96%**  
Operating efficiency
- Up to 50%**  
Reduction in emissions

# Performance-enhancing services & solutions



Don't settle for less, when you can take it to the max. With a complete range of smart services and digital solutions, Thermo King helps you maximize uptime, sustainability, savings and control all throughout your operations. Keep your unit performance up, and your worries down. All day, every day.

- + **MAXIMIZE YOUR UPTIME**  
Avoid costly downtime and keep your units going and earning for longer.
- + **MAXIMIZE YOUR SUSTAINABILITY**  
Limit your fleet's footprint and save smart on energy.
- + **MAXIMIZE YOUR SAVINGS**  
Reduce service and maintenance costs, and maximize your units' residual value.
- + **MAXIMIZE YOUR CONTROL**  
Monitor and maintain critical cargo quality at every step of your journey.

## LOOKING FOR YOUR MAX?

Thermo King's certified dealers are at your service 24/7 and our network is available all across Europe. Visit our website to locate your closest dealer.



Get your max at  
[europe.thermoking.com/  
max-your-cool](https://europe.thermoking.com/max-your-cool)



## GAIN MAXIMUM INSIGHT WITH TRACKING TELEMATICS

Keep an eye on your unit while it's out on the road. With Thermo King's TrackKing, part of our **Connected Solutions** portfolio, you stay updated on every aspect of your unit, in real-time. Track performance, keep an eye on temperatures and get immediate notification in the case of problems. **Two-way communication** allows you to respond quickly and remotely change settings when needed.

Every A-Series unit includes a **free two-year subscription** to our Connected Solutions service. Included in the purchase price are all the hardware and software needed to get the service up and running from day one.

## Mix and max.

With a complete range of smart services and digital solutions, Thermo King helps you **maximize your uptime, sustainability, savings, and control** throughout your operations. From industry-leading telematics to customizable service agreements and performance-enhancing upgrades. **Explore the building blocks of our integrated portfolio right below.**

 **CONNECTED SOLUTIONS**  
Proactively **manage** your fleet and **monitor** your unit and cargo conditions from any location.

 **UPGRADES**  
**Enhance fleet performance** with a vast array of original Thermo King upgrades.

 **SERVICE CONTRACTS**  
Maximize **uptime** with quality maintenance, fast response times and 24/7 dealer support.

 **GENUINE PARTS**  
Avoid the costs of poor repairs and insist on **genuine replacement** and **remanufactured parts**.

ADVANCER-e

# Electric refrigeration, advanced

## MADE FOR THE ALL-ELECTRIC FUTURE

Get your fleet ready for tomorrow.

## COMPATIBLE WITH ALTERNATIVE POWER SOURCES

Stay ahead of regulations.

## PROVEN ADVANCER PERFORMANCE

All benefits of the Advancer, now fuel-free.

## ENHANCE UNIT PERFORMANCE

Benefit from 2 years Connected Solutions as a standard.

## SINGLE & MULTI-TEMPERATURE FLEXIBILITY

Go further with fully engineless,  
multi-temperature refrigeration.



Head to  
[europe.thermoking.com](https://europe.thermoking.com)  
to find out more!



**THERMO KING**

Thermo King – by Trane Technologies (NYSE: TT), a global climate innovator – is a worldwide leader in sustainable transport climate control solutions. We engineer and provide cutting-edge technology and solutions with sustainability, reliability, and the customer experience in mind. Thermo King has provided transport temperature control solutions for various applications, including trailers, truck bodies, buses, air, shipboard containers, and railway cars since 1938.

For further information  
[europe.thermoking.com](https://europe.thermoking.com)

Find your nearest dealer on  
[dealers.thermoking.com](https://dealers.thermoking.com)

