



ADVANCER-S

The landmark in trailer refrigeration

Now with low-GWP refrigerant.



SINGLE AND MULTI-TEMPERATURE TRAILER
REFRIGERATION WITH LOW-GWP REFRIGERANT

Advancer, now with low GWP refrigerant

Thermo King's Advancer platform has made another leap forward. Recognizable by the S of Sustainability, the A-Series architecture has been upgraded and is now compatible with low-GWP refrigerants. Featuring R-454A, the Advancer-S models have a GWP of just 238 – a reduction of nearly 90%.

90% GWP REDUCTION

versus R-452A

SAFE AND SUSTAINABLE

maximize environmental gains
without sacrificing safety

UNTOUCHED PERFORMANCE

keep cooling strengths at Advancer level

GET AHEAD OF REGULATIONS

avoid higher future costs





Advancer, the landmark in trailer refrigeration

- **Fastest pulldown**
Engine-independent airflow for superior performance
- **Fuel efficiency**
Never before seen to keep your costs down
- **Unrivalled temperature control**
To make sure you can deliver every load in perfect condition
- **Operational flexibility**
Available in single and multi-temperature configurations
- **Connectivity as a standard**
2 years free telematics hard- and software included
- **Alternative power sources**
Stay ahead of regulations. All units are compatible with our AxlePower, alternator or battery solutions

ADVANCER-S

All Advancer units will be available as Advancer-S. The range offers Advancer's landmark cooling performance and efficiency while adding the sustainability of a low-GWP refrigerant.

Full-life cycle impact

At Thermo King, every product is backed by independent third-party certification—because true sustainability must be proven, not just promised.

LCA certification shows that up to 96% of a unit's lifetime emissions come from operation, with fuel consumption as the primary driver. Refrigerant, by contrast, typically represents only 10–20% of total life cycle emissions.

That's why, while Advancer-S significantly reduces refrigerant impact, Thermo King goes further—remaining relentlessly focused on radical fuel efficiency to address the biggest source of emissions.

By optimizing the entire system, we help customers achieve lower-GWP performance without compromising fuel economy.

WHAT IS LCA?

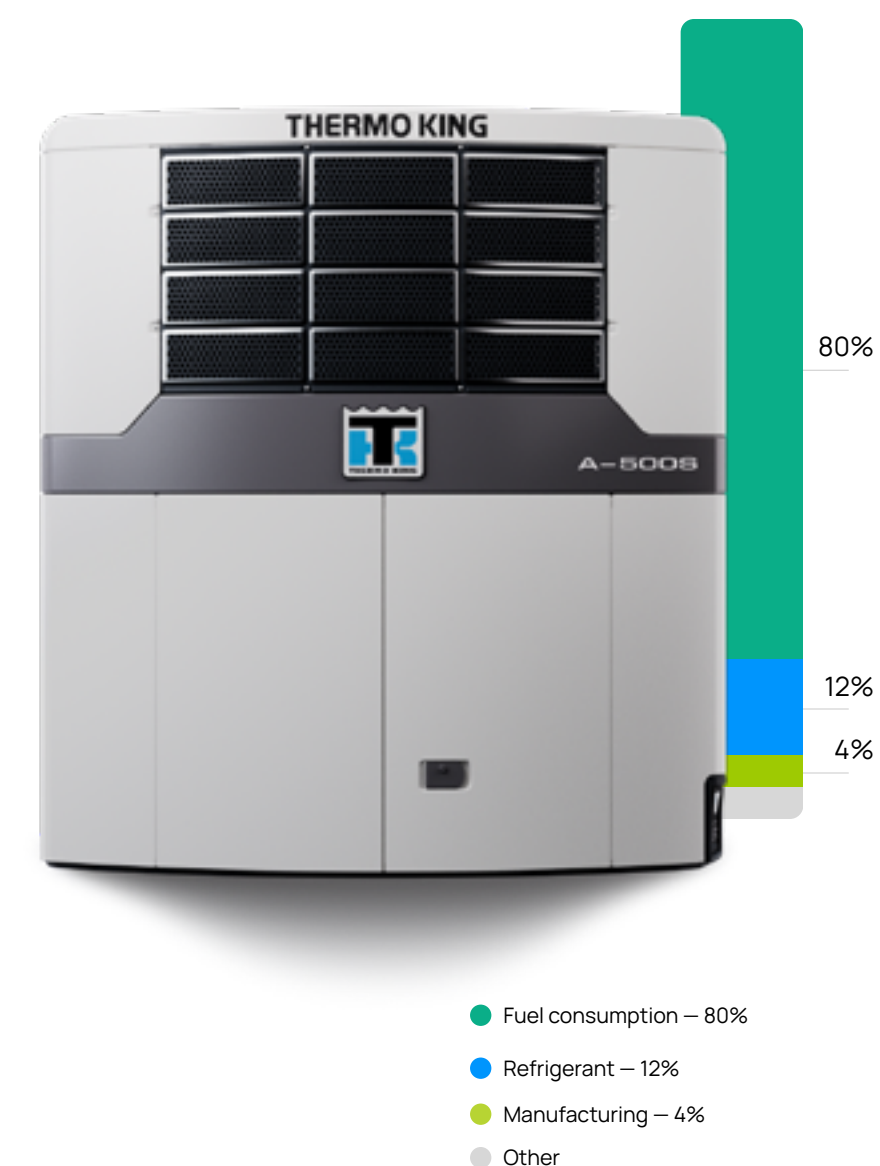
Life Cycle Assessment (LCA) is a standardized way to measure the environmental impact of a product across its entire life cycle, from raw material extraction to usage to disposal.

WHY IS IT IMPORTANT?

- **Sustainability leadership**
The LCA certification demonstrates a complete view of your emissions.
- **Actionable proof**
Turn lifecycle data into clear insights that show exactly where to act and how to reduce emissions.
- **Sustainable innovation**
LCA highlights opportunities for more sustainable innovation and better product design.

How to lower your life cycle emissions

- **Low GWP refrigerants**
All recent models use A2L refrigerants or are ready to operate with them, reducing environmental impact from the start.
- **Full-electric refrigeration units**
A constant cooling capacity, optimum pulldown speed and precise temperature control for maximum load integrity.
- **ECO-mode**
Maximise fuel efficiency on Advancer models with intelligent ECO-mode activation at the touch of a button.
- **Energy and fuel-saving accessories**
Upgrade your vehicle and cooling system to reduce energy use, improve efficiency, and move closer to net-zero operations.



Performance-enhancing services & solutions



+ 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.

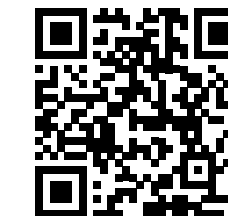
+ MAXIMIZE YOUR CONTROL

Monitor and maintain critical cargo quality at every step of your journey.

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.

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)**

ADVANCER-S

R-454A is classified as a mildly flammable refrigerant and requires extra care during installation. To get your fleet back on the road as soon as possible, we've ensured our workshop teams are fully trained, qualified, and equipped to handle R-454A installations safely, quickly, and cost-effectively. With the right expertise and processes in place, we ensure reliable service support with minimal disruption to customer operations.



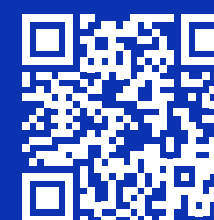
24/7 support wherever you need us

Thermo King's dealer network
- where complete coverage
meets expert insight:

- Over **500** authorized **service points** in **75 countries**
- **1,400** fully trained and certified **technicians** with Gold, Silver and Bronze Certi-Tech expertise certifications
- Open and available **every day of the year**

MORE DEALER SERVICES

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



Find the support that's closest to you
with our online dealer locator:
dealers.thermoking.com

Technical specifications

ADVANCER-S MODELS			A-400S		A-500S	
PERFORMANCE						
Refrigeration capacity: system net cooling capacity at 30 °C ambient temperature under A.T.P. Conditions						
Return air temperature to evaporator	@ Nominal Airflow (Default @ Pull Down)	°C	0	-20	0	-20
Capacity on engine power		W	16 200	8 300	19 500	10 400
Capacity on electric standby		W	13 000	6 700	14 600	8 400
Heating capacity: box temperature +2 °C						
Capacity on engine power	Outside air temperature: -20°C	W	10 750		15 900	
Airflow: independent from unit engine speed selectable within range @ set point & pull down						
Airflow volume @ 0 Pa static pressure	Default @ Pull Down	m³/h	5 000		5 500	
	Default @ Set Point	m³/h	3 400		3 400	
TECHNICAL DATA						
Weight – including battery						
Model Standard		kg	830		830	
Dimensions						
Width x Depth x Height		mm	2 076 x 440 x 2 270		2 076 x 440 x 2 270	
Engine						
Maintenance Interval		hrs	3 000		3 000	
Number of cylinders			4		4	
Capacity		l	2.1		2.1	
Sound pressure level						
High Speed Diesel		dB(A)	65		65	
Electric Standby		dB(A)	64		64	





A-Series

Advancer-S

The low-GWP landmark in trailer refrigeration

COOLED BY A SUSTAINABLE A2L-REFRIGERANT

90% GWP reduction versus R-452A

SAFE AND SUSTAINABLE

Maximize environmental gains
without sacrificing safety

ADVANCER PERFORMANCE

Boost sustainable, keep Advancer's
landmark performance

GET AHEAD OF REGULATIONS

Upgrade now and avoid higher future costs

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
europe.thermoking.com

Find your nearest dealer on
dealers.thermoking.com

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