



E-Volution, E-Series for Large Truck

The electric unit your truck can't resist



ALL-ELECTRIC, SINGLE- AND MULTI-TEMPERATURE
REFRIGERATION UNITS FOR LARGE TRUCK TRANSPORT

TRANE
TECHNOLOGIES

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E-VOLUTION

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The Electric Edge expands

With a wide range of large truck refrigeration systems, the E-Series covers city & intercity distribution. The entire range is specifically designed to support your fleet's electric transition. And now, these new models **bring the best electric performance to any large truck type**, battery electric or engine-driven vehicles.

It's why we say **E-Volution gives you the Electric Edge**. It's knowing you stay ahead of the curve, with **purpose-built technology** that makes zero compromise on power, efficiency or reliability. Not just a step, but a leap forward for your refrigerated fleet.

ELECTRIC COOLING YOUR TRUCK CAN'T RESIST

- **Efficient electric power**
All-electric cooling at the lowest possible energy use.
- **Lean design with lower maintenance**
A unique, lean design unlocks lower costs and easier access.
- **Sustainable by nature**
Reduce and report on your total environmental impact.
- **Real-time connectivity**
Real-time insights into your refrigeration unit.





100% electric, 100% compatible

Match a wide range of both electric and engine-driven large trucks.

HIGH-VOLTAGE DC FOR FULL-ELECTRIC TRUCKS

Draw direct power from your BEV's high-voltage battery, ensuring the most efficient power connection without losing energy to an AC conversion.

ALTERNATOR FOR ENGINE-DRIVEN TRUCKS

Not ready to go all-electric? On your ICE trucks, an alternator solution is used so you still save fuel while maintaining the ideal temperature.

E-COOLPAC BATTERY PACK FOR INDEPENDENT OPERATION

Regardless of your truck type, E-Series for Large Truck can be powered by our E-COOLPAC battery pack to work independently from your truck.



The efficient way to use electric power

Lose no energy to an AC conversion.

LOOKING TO MATCH YOUR TRUCK WITH AN ALL-ELECTRIC COOLING UNIT?

E-Volution and **E-Volution SPECTRUM** deliver high cooling capacity, **multi-temperature capabilities**, and **energy efficiency** at 100% electric power, ensuring the lowest possible impact on battery range, operating costs, and energy consumption.

RENOWNED INVERTER TECHNOLOGY
variable speed architecture allows you to adjust power on demand, leading to high system energy efficiency.

FAST PULLDOWN
quickly bring interior temperature back to its setpoint, even with frequent stops and door openings.

DIRECT BATTERY CONNECTION
get your power straight from the source and avoid energy losses, no matter your type of truck.

SOLUTIONS FOR MULTI-TEMPERATURE DISTRIBUTION
E-Volution SPECTRUM meets the extreme demands of any multi-temperature distribution operation, thanks to the tireless focus on maximizing performance and improving multi-temperature control



Control your controller

E-Volution features a brand new controller with

- user-friendly and intuitive color-screen display,
- customizable button functions,
- alarms, notifications and insights at your fingertips.



Leaner design, lower maintenance

Keep your trucks on the road for longer and reduce maintenance costs. E-Volution's full-electric design trades fuel-related parts for easier serviceability and lower wear and tear.

- Eliminating belts, pulleys and filters results in **minimal maintenance**⁽¹⁾.
- Best-in-class reliability and service support lead to **higher uptime**.

⁽¹⁾ The only belt in the system is the alternator belt on the engine vehicle applications

SLIMLINE DESIGN FOR GREATER CITY ACCESS

The low truck height design of the unit is uniquely shaped to allow **easier access to low-height places** at distribution points, underground parkings, or below low-hanging bridges.

Alternatively, you could **increase cabin height to the benefit of your drivers' comfort**.

- Complement low-height truck designs.
- Smoother cabin tilt.
- Easily access urban areas with height restrictions.
- Higher cabins increase driver comfort.

Silent Sustainable Measurable

E-Volution's full-electric nature comes with **extra low CO₂ and noise emissions**. This means worry-free entry into noise-restricted areas, zero-emission zones (ZEZ), diesel-ban areas, and more.

In addition, our **telematics grant you the much-needed visibility across your fleet**, with energy consumption reports to measure your sustainability & BEV range impact.



VARIABLE SPEED FOR MAXIMUM NOISE CONTROL

Inter- and inner-city deliveries mean strict noise regulations. E-Volution **automatically reduces speed in line with cooling needs, eliminating unnecessary noise**. Thanks to geofencing, **Whisper Pro mode activates automatically in noise controlled areas** for Peak certified operation - but drivers stay in full control with a **manual low-noise command**. Wherever your fleet needs to go, E-Volution makes sure it goes there quietly.

CATEGORY-FIRST SUSTAINABILITY LIFE CYCLE ASSESSMENT (LCA)

Third-party certified comparative LCA shows E-Volution can reduce emissions of your engine-drive vehicles by up to 45% over the unit's lifetime, compared to traditional diesel cooling units.

LOWER WEIGHT = LOWER FUEL AND POWER CONSUMPTION

30% lighter than traditional diesel and electric cooling units.



Real-time connectivity all the time

Stay on top of unit performance & health status.

Integrated telematics let you log temperature and monitor your assets around the clock.

Through alarms and recommended actions, both your team and our technicians can perform predictive maintenance, making your fleet's uptime a top priority.

- Standard **2-year telematics** contract included.
- Accurate **temperature logging** (EN12830) through optional TouchLog.
- **Stay on top of E-Volution's energy reports on TrackKing.**

Technical specifications.

E-SERIES MODELS			E-1200e (E-2+E-2)	E-1600e (E-3+E-3)	E-1200e SPECTRUM	E-1600e SPECTRUM
APPLICATION			SINGLE TEMP.	SINGLE TEMP.	MULTI TEMP.	MULTI TEMP.
Cooling Capacity					Nominal	Nominal
High Speed / Stand-by - Fresh	Amb 30C / +0C Box	W	10,030	13,600	11,700	15,430
High Speed / Stand-by - Frozen	Amb 30C / -20C Box	W	6,150	8,270	6,750	9,470
Whisper Pro mode - Fresh	Amb 30C / +0C Box	W	8,500	11,000	9,600	11,200
Whisper Pro mode - Frozen	Amb 30C / -20C Box	W	5,100	6,900	5,300	7,300
Heating Capacity	Amb -18C / +18C Box	W	7,200	12,000	See Remote evaporators table	
Airflow		m³/h	2,670	4,200		
Weight						
Full Unit (Single Temp) & Host Only (SPECTRUM)	With electric standby	kg	293	315	235	235
	Without electric standby	kg	258	280	200	200
Alternator (Engine-driven vehicles only)		kg	60	60	60	60
Dimensions - host						
Width x Depth x Heigth		mm	2,142 x 563 x 612			
Sound Level (Note: maximum levels - sound reduces with box cooling needs)						
High speed / Stand-by	Sound pressure level (DIN 8958 @7m)	dB(A)	64	64	64	65
Whisper Pro mode	Sound pressure level (PeaK)	dB(A)	62	62	62	62
Low speed	Sound pressure level (DIN 8958 @7m)	dB(A)	56	56	56	56
Refrigerant						
Type			R-452A	R-452A	R-452A	R-452A
Charge ⁽¹⁾		kg	4,2	4,5	5	6
GWP (IPCC AR5 classification: 1,945 TonCO ₂ eq/kg)		TonCO ₂ eq	8,2	8,8	9,7	11,7

REMOTE EVAPORATORS		E-2	E-3	E-4 ⁽²⁾
Heating capacity (individual)	W	3,600	6,000	7,200
Airflow volume (@ 0 Pa static pressure) ⁽³⁾	m³/h	1,350	2,150	2,670
Dimensions (Widt x Depth x Height)	mm	700 x 995 x 195	1,095 x 995 x 195	1,450 x 995 x 195
Weight	kg	29	40	58

⁽¹⁾ Effective refrigerant charge depends on remote evaporators configuration
⁽²⁾ E-4 configuration = E-2 + E-2
⁽³⁾ Airflow volume and weight will be cumulative. Capacity will depend on unit model and configuration.

Your cargo, your way

Complete control over your cargo, thanks to flexible zone configurations. Create the perfect layout, every time.

SINGLE TEMP

2 ZONES

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.

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

- + **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.



MONITOR YOUR UNIT PERFORMANCE WITH 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 E-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 & 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**.

E-VOLUTION

All-electric refrigeration units for large truck transport

REAL-TIME CONNECTIVITY, ALL THE TIME

Integrated telematics let you keep a constant eye on your electric units and vehicles, with critical focus on battery and power data.

LEANER DESIGN, LOWER MAINTENANCE

Fewer components, a unique design, and a reduction in maintenance needs get you to your destinations faster and with fewer costs involved.

THE EFFICIENT WAY TO USE ELECTRIC POWER

Purpose-built technology gives you high cooling capacity and temperature control accuracy for the lowest possible impact on battery range, operating costs and energy consumption.

SUSTAINABLE BY NATURE

Reduce noise and CO₂ emissions during deliveries, and accelerate the move to electrification.



Head to
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

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