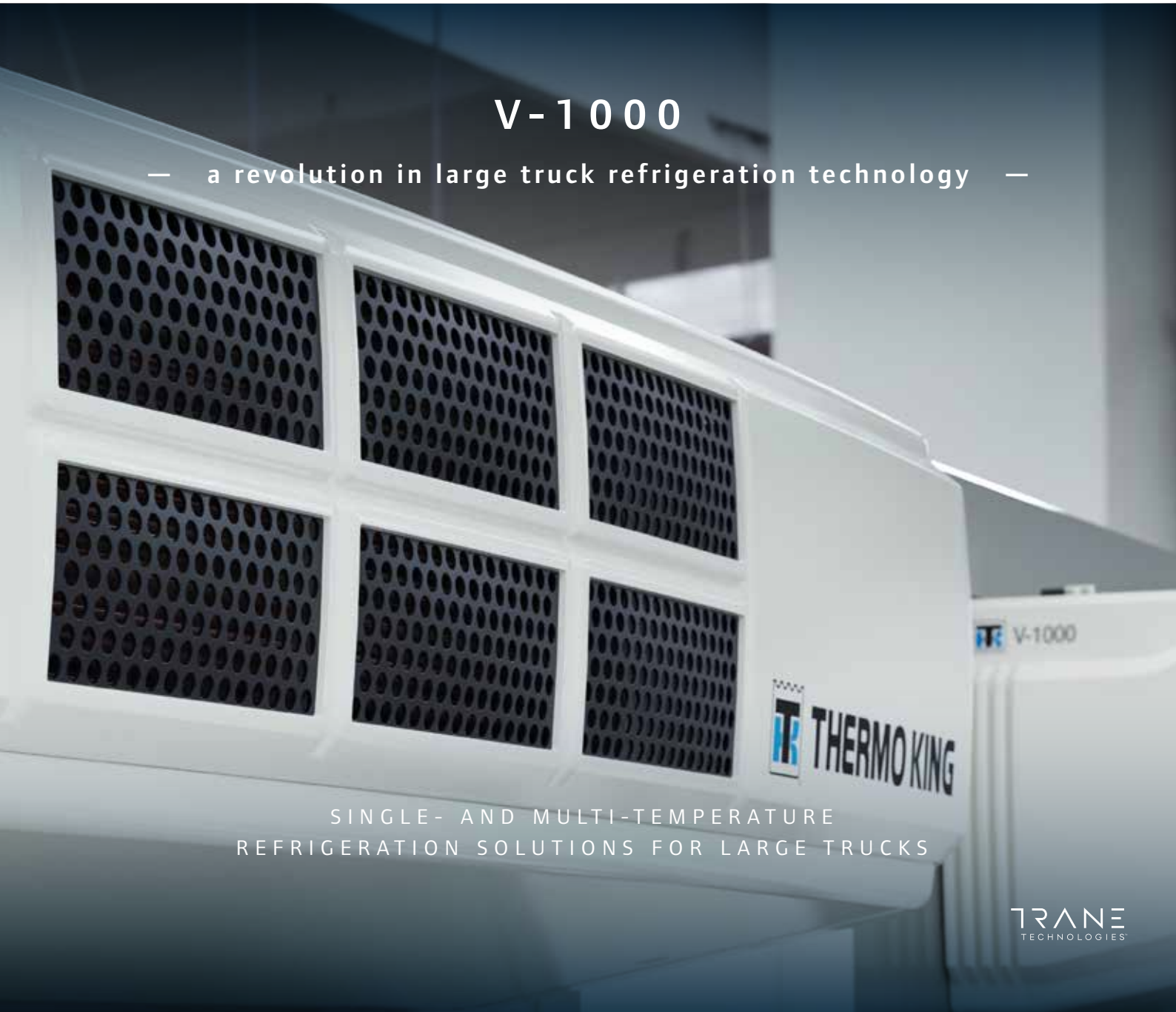
THERMO KING

V-1000

— a revolution in large truck refrigeration technology —



SINGLE- AND MULTI-TEMPERATURE
REFRIGERATION SOLUTIONS FOR LARGE TRUCKS

TRANE TECHNOLOGIES


THERMO KING
TK-V1000

Why V-1000?

Traditionally, companies operating larger rigid trucks look at self-powered diesel units. This tradition is about to change. The all-new V-1000 unit from Thermo King easily matches the performance of the leading diesel offerings while delivering the low cost, low weight and compact size of a vehicle-powered unit. If you think that's too good to be true, prepare to be surprised.

THERE'S A CHANGE COMING

The V-1000 uses a compressor exclusively developed for Thermo King which, when driven by the truck engine produces performance previously unattainable in units of this type. This makes it a competitive initial investment compared to diesel powered unit with equivalent performance. High cooling capacity and high airflow guarantee load protection under the most arduous conditions. Total costs of ownership are driven down by low maintenance costs and low fuel consumption.

— INTRODUCING V-1000: MORE CAPACITY MORE FLEXIBILITY

The all-new V-1000 is uniquely positioned to satisfy the needs of large truck operators with the benefits of advanced vehicle drive technology when it comes to sustainability, cost control, load protection and productivity.

SUSTAINABILITY

Transport solutions not only need to do the job, but do it in a way that minimises environmental impact. The V-1000 is an exceptionally "low-touch" performer, leaving diesel units out of sight when it comes to protecting the world we live in.

These are just some of the key environmental benefits of this remarkable system:

- No diesel emissions from the unit
- No CO_2 emissions from the unit
- Low noise when in operation
- Less additional weight on the vehicle
- More cargo carried per journey
- Easily installed on progressive fleets using LNG/CNG or bio-diesel.

COST CONTROL

The V-1000 positively impacts Total Cost of Operation (TCO) in these key areas:

- Fuel consumption, the principal cost of operating a refrigeration unit, is at least 54% less than an equivalent self-powered system.
- Maintenance costs including both parts and labour are cut by up to 33% thanks to the absence of a diesel engine.

LOAD PROTECTION

Savings and productivity while vital are meaningless if there are any doubts about load protection. The V-1000 features **exceptional performance** which is why it can compete directly with self-powered units and in many cases, even **outperform** them.

PRODUCTIVITY

You want units in your fleet that pull their weight when it comes to the key measure of productivity. The V-1000 is an exceptional performer when compared with an equivalent diesel unit:

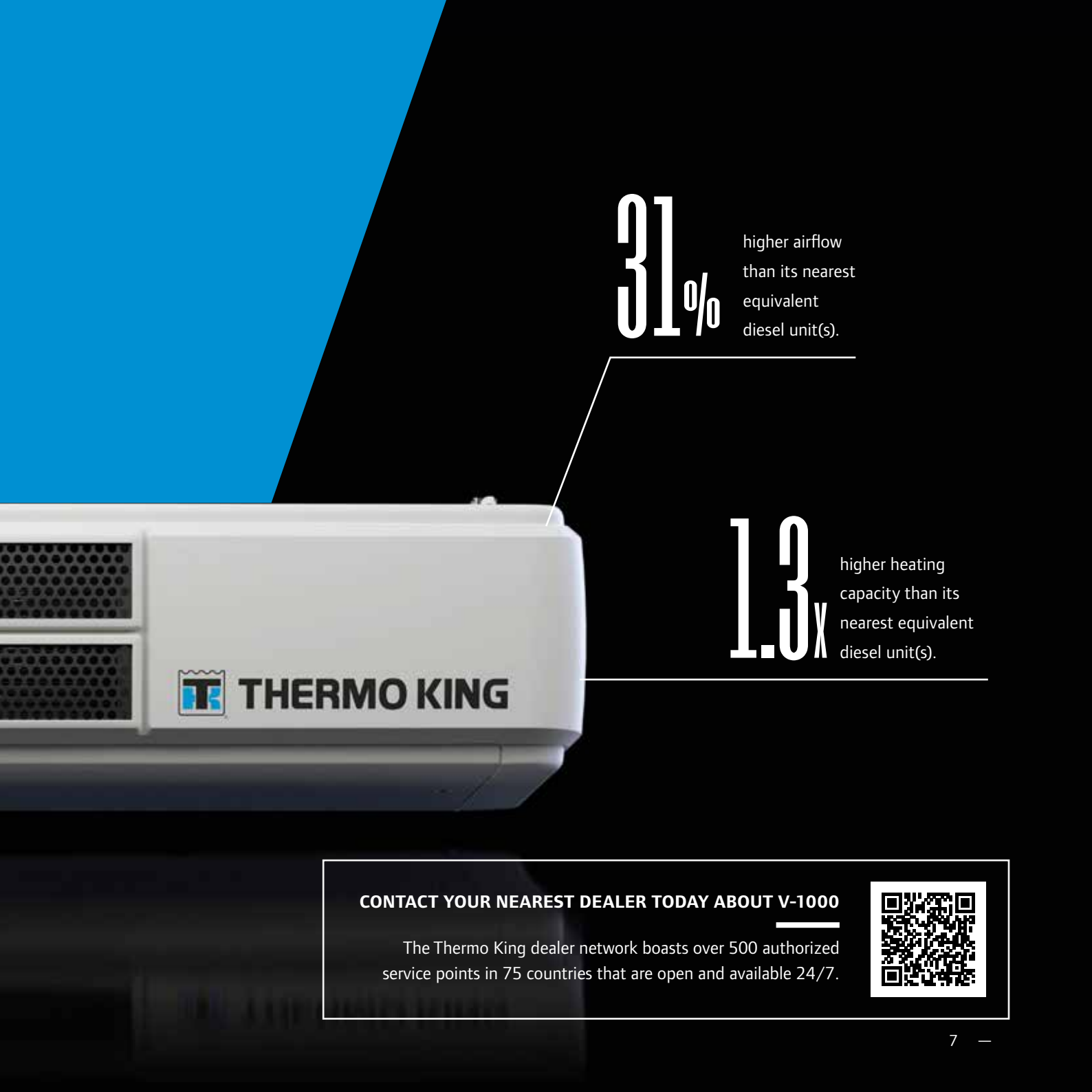
- Weight is less than half of an equivalent unit, giving savings of 250 kg without standby and 150 kg with standby. This means much more carrying capacity for the vehicle and more revenue for your operation.
- Flexibility is exceptional. The V-1000 comes in single or various multi-temperature configurations. Its compact profile make it ideal for high cabs and it´s equally at home with multiple vehicle types including CNG, LNG or Biodiesel. Available in both 12 V or 24 V making it your perfect fit for trucks that range all the way from 3.5 Tn to 25 Tn depending on your application needs.

— V-1000 IMPRESSIVE FACTS AND FIGURES:

- 10,055 W @ 0/30 °C of cooling capacity at high speed position it almost 25% more powerful than its nearest diesel equivalent unit(s).
- Even low speed capacity comes close to matching diesel units while standby capacity is a massive 57% higher.
- Airflow, vital for total load protection, is 3,537 m^3/hr. That's a impressive 31% higher than its nearest diesel equivalent unit(s).
- Heating capacity is 1.3 times higher than its nearest equivalent diesel unit(s).

25% more powerful than its nearest diesel equivalent unit(s).

57% higher standby capacity than its nearest diesel equivalent unit(s).



31% higher airflow than its nearest equivalent diesel unit(s).

1.3x higher heating capacity than its nearest equivalent diesel unit(s).

CONTACT YOUR NEAREST DEALER TODAY ABOUT V-1000

The Thermo King dealer network boasts over 500 authorized service points in 75 countries that are open and available 24/7.

— SPECIFICATIONS
SINGLE TEMPERATURE

		V-1000		V-1000 MAX 10/20		V-1000 MAX 30/50	
REFRIGERATION CAPACITY: AT 30°C AMBIENT							
Return Air To Evaporator	°C	0 °C	-20 °C	0 °C	-20 °C	0 °C	-20 °C
Capacity On Engine Power	W	6455	-	10055	5050	9970	4805
Capacity On Electrical Standby 50hz	W	6015	-	9310	4650	9395	4485
HEATING CAPACITY: AT -18°C AMBIENT/2400 RPM							
On The Road	W	-		-		8000	
Electric Standby Operation	W	-		-		8000	
AIRFLOW							
Airflow Volume @ 0 Pa Static Pressure	m^3/h	3537					
WEIGHT							
Condenser Without Electric Standby	kg	96		96		111	
Condenser With Electric Standby	kg	205		205		220	
Evaporator	kg	50					
Swash Plate Compressor	kg	8.7					
COMPRESSOR							
Model		QP25					
Displacement	cc	250					
Number of cylinders		10					
ELECTRIC STANDBY MOTOR							
Voltage / Phase / Frequency		400/3/50 - 230/3/50 - 400/3/60 - 230/3/60					
Rating	kW	8.8					
REFRIGERANT CHARGE							
Charge	kg	10: 5.4 20: 5.7		10: 5.9 20: 6.2		30: 5.9 50: 6.2	
GENERIC							
Refrigerant		R-134a		R-404A / R-452A			
Controller		DSR III					
DEFROST							
Defrost		Automatic hot gas defrost				Reverse cycle	

DIMENSIONS

CONDENSER UNIT

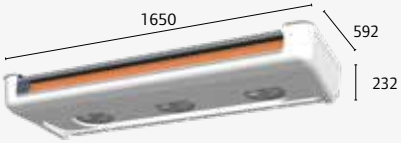
V-1000

EVAPORATORS

ES150 MAX
Ultra Slim

ES300/ ES300 MAX
Ultra Slim

ES600 MAX



ES800
Ultra Slim

ES1000

— SPECIFICATIONS MULTI-TEMPERATURE

		V-1000 SPECTRUM			
REFRIGERATION CAPACITY: AT 30ºC AMBIENT					
		ES600 MAX + ES600 MAX		**ES600 MAX + ES150 MAX**	
Return Air To Evaporator	ºC	-20 ºC		-20 ºC	
Capacity On Engine Power	W	5225		4610	
Capacity On Electrical Standby	W	4695		4445	
REFRIGERATION CAPACITY: INDIVIDUAL COOLING CAPACITY					
		ES600 MAX		**ES150 MAX**	
Return Air To Evaporator	ºC	0 ºC	-20 ºC	0 ºC	-20 ºC
Capacity On Engine Power	W	8500	4370	3995	2300
Capacity On Electrical Standby	W	8100	4045	3975	2040
HEATING CAPACITY					
On The Road	W	5000			
Electric Standby Operation	W	5000			
AIRFLOW					
		ES600 MAX + ES600 MAX		**ES600 MAX + ES150 MAX**	
On High Speed Engine Operation	m^3/h	2491 x 2		2491 + 1396	
ELECTRIC STANDBY MOTOR					
Voltage / Phase / Frequency		400/3/50 - 230/3/50 - 400/3/60 - 230/3/60			
Rating	kW	8.8			
REFRIGERANT CHARGE					
		ES600 MAX + ES600 MAX		**ES600 MAX + ES150 MAX**	
Charge	kg	30: 5.9 50: 6.2			
GENERIC					
Refrigerant		R-404A / R452A			
Controller		DSR III			
DEFROST					
Defrost		Automatic hot gas defrost			
COMPRESSOR					
Model		QP25			
Displacement	cc	250			
Number Of Cylinders		10			
WEIGHT					
Condenser Without Electric Standby	kg	96			
Condenser With Electric Standby	kg	205			
Evaporator ES800 Max	kg	35			
Evaporator ES600 Max	kg	28			
Evaporator 2 x ES150 Max	kg	25			
Evaporator ES300 Max	kg	18			
Evaporator ES150 Max	kg	12.5			

V-1000 SPECTRUM					
ES600 MAX + 2xES150 MAX			**ES800 MAX + ES300 MAX**		
-20 °C			-20 °C		
5035			4835		
4610			4615		
2xES150 MAX		**ES800 MAX**		**ES300 MAX**	
0 °C	-20 °C	0 °C	-20 °C	0 °C	-20 °C
5755	3125	8380	4660	4590	2325
5825	3025	8125	4190	4590	2170
5000					
5000					
ES600 MAX + 2xES150 MAX			**ES800 MAX + ES300 MAX**		
2491 + (2 x 1396)			2730 + 1643		
400/3/50 - 230/3/50 - 400/3/60 - 230/3/60					
8.8					
ES600 MAX + 2xES150 MAX			**ES800 MAX + ES300 MAX**		
30: 5.9 50: 6.2					
R-404A / R452A					
DSR III					
Automatic hot gas defrost					
QP25					
250					
10					

WANT TO DISCOVER THE LATEST ON V-1000?

Scan the QR code to visit europe.thermoking.com or follow us on social media.

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
europe.thermoking.com

Find your nearest dealer on
dealers.thermoking.com

TRANE TECHNOLOGIES

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