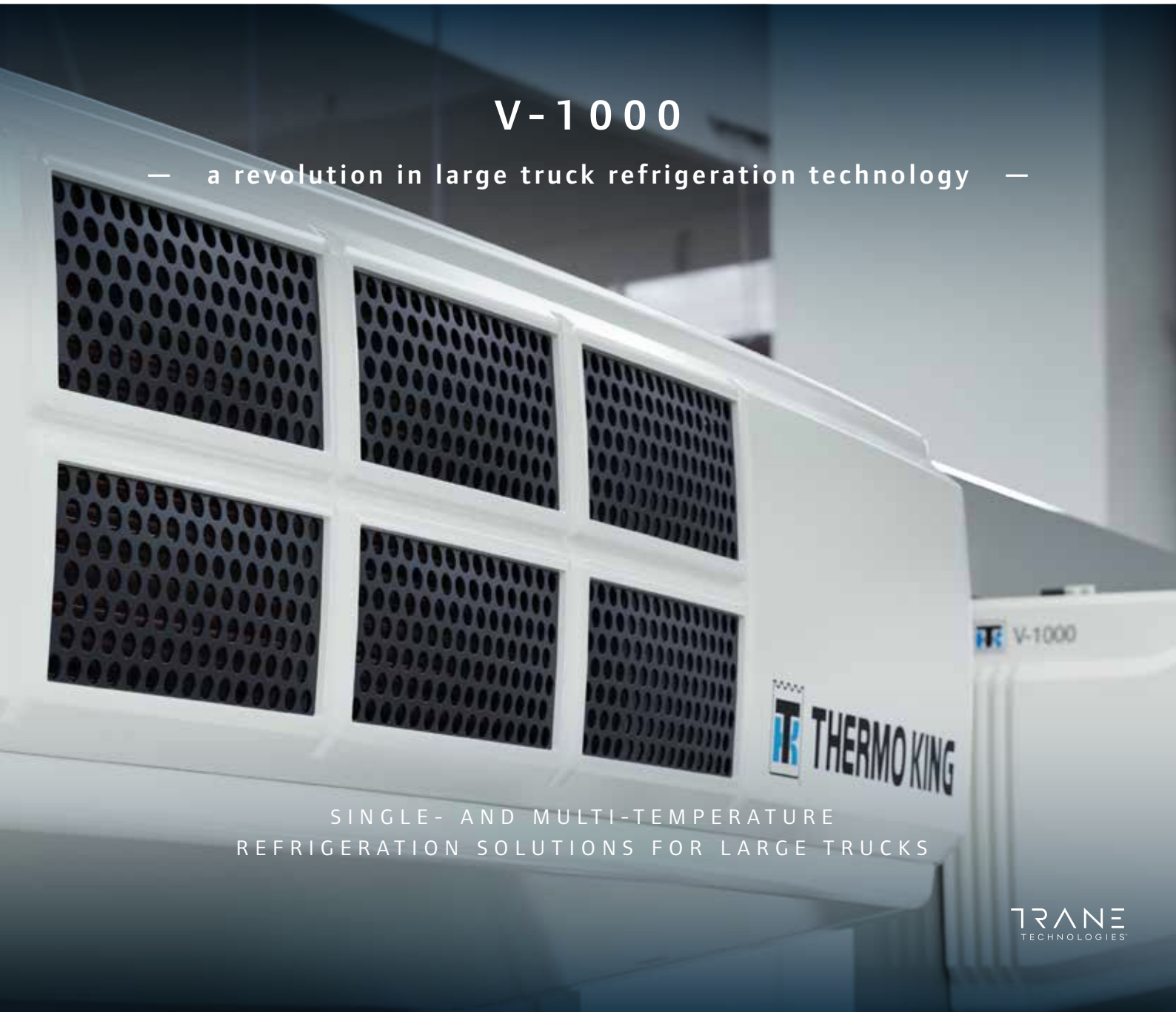


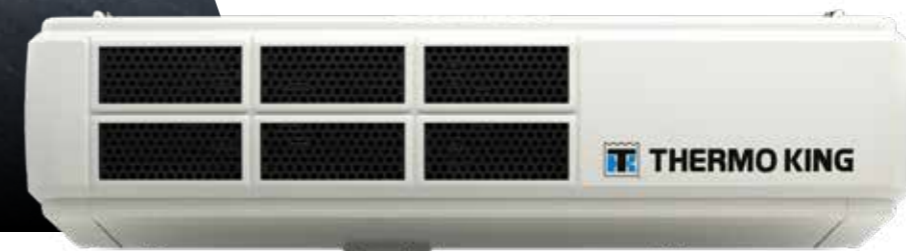


# V-1000

— a revolution in large truck refrigeration technology —



SINGLE- AND MULTI-TEMPERATURE  
REFRIGERATION SOLUTIONS FOR LARGE TRUCKS



## 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<sub>2</sub> 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 up to 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<sup>3</sup>/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%

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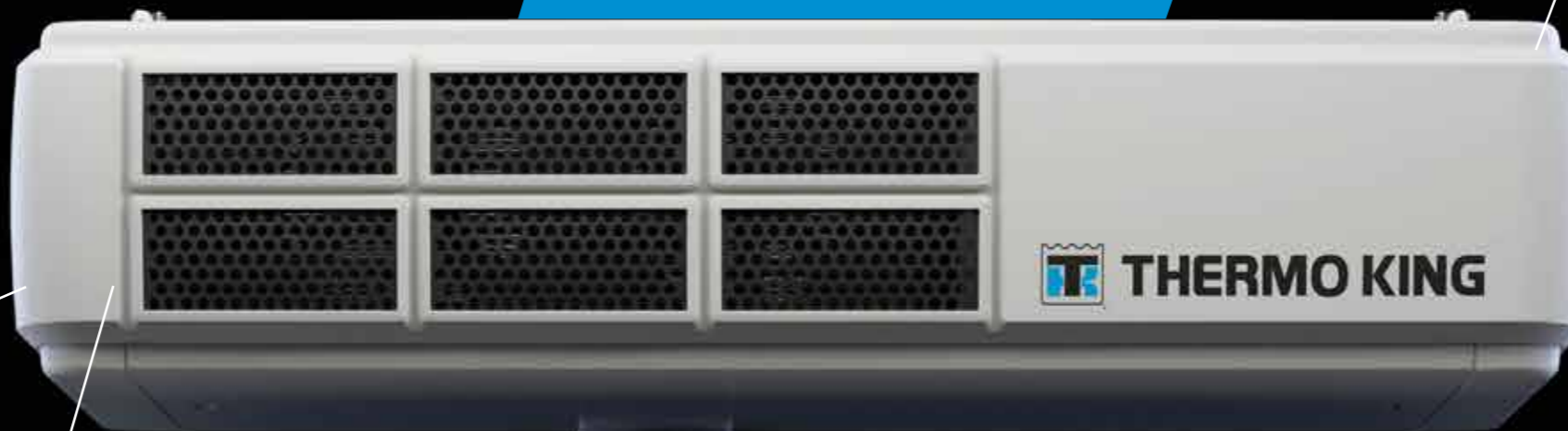
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CONTACT YOUR NEAREST DEALER TODAY ABOUT V-1000

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



		V-1000	V-1000 MAX 10/20	V-1000 MAX 30/50
<b>REFRIGERATION CAPACITY: AT 30°C AMBIENT</b>				
Return Air To Evaporator	°C	0 °C	-20 °C	0 °C
Capacity On Engine Power	W	6455	-	10055
Capacity On Electrical Standby 50hz	W	6015	-	9310
<b>HEATING CAPACITY: AT -18°C AMBIENT/2400 RPM</b>				
On The Road	W	-	-	8000
Electric Standby Operation	W	-	-	8000
<b>AIRFLOW</b>				
Airflow Volume @ 0 Pa Static Pressure	m³/h	3537		
<b>WEIGHT</b>				
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		
<b>COMPRESSOR</b>				
Model		QP25		
Displacement	cc	250		
Number of cylinders		10		
<b>ELECTRIC STANDBY MOTOR</b>				
Voltage / Phase / Frequency		400/3/50 - 230/3/50 - 400/3/60 - 230/3/60		
Rating	kW	8.8		
<b>REFRIGERANT CHARGE</b>				
Charge	kg	10: 5.4 20: 5.7	10: 5.9 20: 6.2	30: 5.9 50: 6.2
<b>GENERIC</b>				
Refrigerant		R-134a	R-404A / R-452A	
Controller		DSR III		
<b>DEFROST</b>				
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

V-1000 SPECTRUM

REFRIGERATION CAPACITY: AT 30°C AMBIENT

		ES600 MAX + ES600 MAX	ES600 MAX + ES150 MAX
Return Air To Evaporator	°C	-20 °C	-20 °C
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	°C	0 °C	-20 °C	0 °C	-20 °C
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	m³/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
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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			
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QP25			
250			
10			



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V-1000

## 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.

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