



## V-800 Series

*The most powerful vehicle-powered solution for medium and large truck applications.*





# V-800 Series

The V-800 Series from Thermo King is a two-piece, split design for fresh, frozen and deep frozen applications on medium to large-sized trucks. The road compressor is powered by the vehicle's engine and the electric stand-by compressor is powered by an electric motor located in the unit.

The V-800 Series is equipped with an industry standard swash plate compressor, which uses a wide range of drive kits for ease of installation.

- Standard swash plate compressor for ease of installation
- Highest cooling and heating capacity on the market
- Greener footprint than self-powered units
- Low noise
- Fresh or frozen configurations
- User-friendly Direct Smart Reefer controller

## V-800 Series range

- V-800 MAX 10
- V-800 MAX 20
- V-800 10
- V-800 20

## System components

- Condenser
- ES800 evaporator
- Swash plate road compressor
- Installation kit
- In-cab controller

10 = road compressor only; 20 = road compressor plus standby power

## Unit Selection Guide

The table below indicates a guide to select the right unit in the V-800 Series to match your application based on truck body length and box temperature at an ambient temperature of 100°F. Please consult your Thermo King dealer to determine the right configuration for your application.

Truck Body Length		
Box Temp	V-800	V-800 MAX
35°F	up to 22'	up to 24'
0°F	up to 12'	up to 20'
-20°F	-	up to 16'

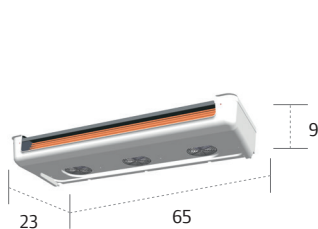
Recommendations are based on precooled loads and K value of 0,35W/m<sup>2</sup>K is used for frozen goods (-20°C) and 0,5W/m<sup>2</sup>K for fresh goods (0°C and +6°C) for a distribution cycle of 8 hours. Recommendations are not a guarantee of performance as there are many variables to be considered. See your Thermo King dealer for complete information.



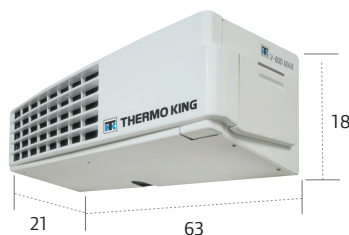
# Specifications

SPECIFICATIONS		V-800		
<b>REFRIGERATION CAPACITY: V-800 MAX SYSTEM NET COOLING CAPACITY AT 100°F AMBIENT CONDITIONS (BTU/HR)</b>				
<b>Return air to evaporator</b>		<b>35°F</b>	<b>0°F</b>	<b>-20°F</b>
Capacity on engine power - Swash Plate Compressor (2400 rpm)	R-404A	20,500	9,500	6,000
Capacity on electric standby (60HZ)	R-40 4A (Btu/hr)	21,000	11,000	6,200
<b>REFRIGERATION CAPACITY: V-800 SYSTEM NET COOLING CAPACITY (BTU/HR)</b>				
<b>Return air to evaporator</b>		<b>35°F</b>	<b>0°F</b>	<b>-20°F</b>
Capacity on engine power - Swash Plate Compressor (2400 rpm)	R-134a (W)	16,400	6,175	-
Capacity on electric standby (60HZ)	R-134a (W)	16,500	7,700	-
<b>EVAPORATOR FAN PERFORMANCE</b>			<b>ES800</b>	
Airflow volume	CFM	1600		
<b>WEIGHT</b>				
Condenser without electric stand-by	lbs	212		
Condenser with electric stand-by	lbs	352		
Evaporator ES800	lbs	77		
<b>COMPRESSOR: MAX RECOMMENDED SPEED 3000 RPM</b>				
Model		TK-21 - Swash Plate		
Displacement	cc	215		
Number of cylinders		10		
<b>ELECTRIC MOTOR</b>				
dc voltage options		12 Vdc and 24 Vdc		
Electric stand-by option		230V/3 Phase/60 Hz		
Total current consumption on the road		12Vdc: 50 A, 24Vdc: 30 A		
Total stand-by current consumption		230V/3 Phase/60 Hz: 23.9 A		
<b>REFRIGERANT</b>				
Charge	R-404A lbs	10 version: 10.3, 20 version: 11		
	R-134a lbs	10 version: 10, 20 version: 10.7		
<b>DEFROST</b>				
	R-134a/R-404A	Automatic hot gas defrost		

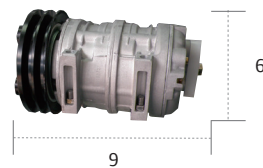
## Dimensions (in)



ES800 Ultra slim evaporator



V-800 condenser



Swash Plate Compressor TK-21



In-cab Direct Smart Reefer



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 more information, visit [thermoking.com](http://thermoking.com) or [tranetechnologies.com](http://tranetechnologies.com).

