THERMO KING

V-800 Series

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

TRANE TECHNOLOGIES™

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.

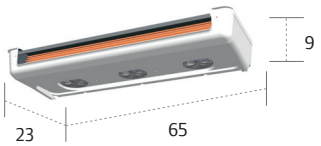
Truck Body Length		
Box Temp	V-800	V-800 MAX
35°F	up to 22′	up to 24′
0°F	up to 12′	up to 20′
-20°F	–	up to 16′

Recommendations are based on precooled loads and K value of 0,35W/m²K is used for frozen goods (-20°C) and 0,5W/m²K 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.

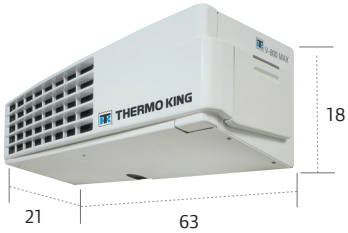
Specifications

SPECIFICATIONS		V-800		
REFRIGERATION CAPACITY: V-800 MAX SYSTEM NET COOLING CAPACITY AT 100°F AMBIENT CONDITIONS (BTU/HR)				
Return air to evaporator		**35°F**	**0°F**	**-20°F**
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
REFRIGERATION CAPACITY: V-800 SYSTEM NET COOLING CAPACITY (BTU/HR)				
Return air to evaporator		**35°F**	**0°F**	**-20°F**
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	-
EVAPORATOR FAN PERFORMANCE		**ES800**		
Airflow volume	CFM	1600		
WEIGHT				
Condenser without electric stand-by	lbs	212		
Condenser with electric stand-by	lbs	352		
Evaporator ES800	lbs	77		
COMPRESSOR: MAX RECOMMENDED SPEED 3000 RPM				
Model		TK-21 - Swash Plate		
Displacement	cc	215		
Number of cylinders		10		
ELECTRIC MOTOR				
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		
REFRIGERANT				
Charge	R-404A lbs	10 version: 10.3, 20 version: 11		
	R-134a lbs	10 version: 10, 20 version: 10.7		
DEFROST				
	R-134a/R-404A	Automatic hot gas defrost		

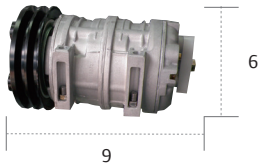
Dimensions (in)



ES800 Ultra slim evaporator



V-800 condenser



Swash Plate Compressor TK-21

In-cab Direct Smart Reefer

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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* or *tranetechnologies.com*.

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