

V-800 Series

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



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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

V-800 Series range

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

- Fresh or frozen configurations
- User-friendly Direct Smart Reefer controller

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		
35ºF	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.



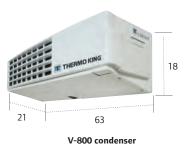
Specifications

SPECIFICATIONS	V-800				
REFRIGERATION CAPACITY: V-800 SYSTEM NET CO	OOLING CAPACITY	AT 100°F AMB	IENT CONDITIONS (BTU/HR)	
Return air to evaporator		35°F	٥°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 MAX SYSTEM N	NET COOLING CAP	ACITY (BTU/HF	8)		
Return air to evaporator		35°F	o°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 RF	PM				
Model		TK-21 - Swash Plate			
Displacement	СС	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







Swash Plate Compressor TK-21

In-cab Direct Smart Reefer



Ingersoll Rand's Climate Solutions sector delivers energy-efficient HVACR solutions for customers globally. Its world class brands include Thermo King, the leader in transport temperature control and Trane, a provider of energy efficient heating, ventilating and air conditioning systems, building and contracting services, parts support and advanced controls for commercial buildings and homes.

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