



V-800 Series

The most powerful vehicle powered range



THERMO KING

New swash plate compressor available for ease of installation
Most powerful range in both cooling and heating modes
User friendly and advanced controller Direct Smart Reefer
Environmentally friendly
Low noise
A full range available



V-800 Series

The V-800 Series from Thermo King comprises two-piece split units designed for fresh, frozen and deep frozen applications on trucks. The road compressor is powered by the vehicle's engine and the electric stand-by compressor is powered by an electric motor. The V-800 Series is equipped with a new swash plate compressor for ease of installation and drive kits availability.

- New swash plate compressor available for ease of installation
- Most powerful range in both cooling and heating modes
- Environmentally friendly
- Low noise
- A full range available
- User friendly and advanced controller Direct Smart Reefer

V-800 Series range

- V-800 MAX 10
- V-800 MAX 20
- V-800 MAX 30
- V-800 MAX 50
- V-800 10
- V-800 20

System components

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

Unit Selection Guide

The table below indicates a guide to select the right unit in the V-800 Series that could match your application. These figures are maximum vehicle volumes, calculated on road operation, at 2400 rpm compressor speed and 30°C ambient temperature.

MODEL	AMBIENT TEMPERATURE			
	30°C		40°C	
	m ³			
	+0/2°C	-20°C	+0/2°C	-20°C
V-800 MAX	54	42	38	34
V-800	44	N/A	31	N/A

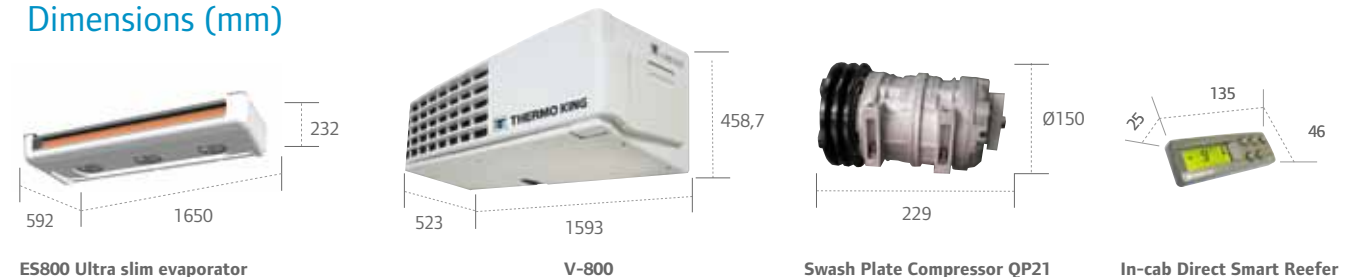
Recommendations are based on precooled loads and K value of 0,35W/m²K is used for frozen goods (-20°C) and 0,5W/m²K for fresh goods (0°C and +6°C) for a distribution of 8 hours. Recommendations are not guarantee of performance as there are many variables to be considered. See your Thermo King dealer for complete information.

Specifications

SPECIFICATIONS		V-800				
REFRIGERATION CAPACITY: SYSTEM NET COOLING CAPACITY AT 30°C AMBIENT UNDER ATP CONDITIONS						
Return air to evaporator		0°C/30°C	-10°C/30°C	-20°C/30°C		
Capacity on engine power - Swash Plate Compressor (2400 rpm) ATP	R-404A (W)	7790	5880	4160		
Capacity on electric stand-by 50HZ ATP	R-404A (W)	7030	5360	3795		
REFRIGERATION CAPACITY: SYSTEM NET COOLING CAPACITY						
Return air to evaporator		0°C/30°C	0°C/40°C	0°C/50°C	12°C/40°C	12°C/50°C
Capacity on engine power - Swash Plate Compressor (2400 rpm)	R-134a* (W)	5176**	4702**	4094**	6489**	5750**
Capacity on electric stand-by 50HZ	R-134a* (W)	4921**	4435**	3858**	6098**	5350**
EVAPORATOR FAN PERFORMANCE		ES800				
Airflow volume ATP	m ³ /h	2680				
WEIGHT						
Condenser without electric stand-by	kg	100				
Condenser with electric stand-by	kg	160				
Evaporator ES800	kg	35				
COMPRESSOR: MAX RECOMMENDED SPEED 3000 RPM						
Model		QP21 - Swash Plate				
Displacement	cc	215				
Number of cylinders		10				
ELECTRIC MOTOR						
dc voltage options		12 Vdc and 24 Vdc				
Electric stand-by options		400V/3 Phase/50 Hz, 230V/3 Phase/50 Hz 400V/3 Phase/60 Hz, 230V/3 Phase/60 Hz				
Total current consumption on the road		12Vdc: 50 A, 24Vdc: 30 A				
Total stand-by current consumption		400V/3 Phase/50 Hz: 11.9 A, 230V/3 Phase/50 Hz: 20.6 A 400V/3 Phase/60 Hz: 13.8 A, 230V/3 Phase/60 Hz: 23.9 A				
REFRIGERANT						
Charge	R-404A kg	10 / 30 versions: 4.7 kg, 20 / 50 versions: 5 kg				
	R-134a kg	10 / 30 versions: 4.55 kg, 20 / 50 versions: 4.85 kg				
HEATING CAPACITY: 18°C / -18°C						
Capacity on engine power - Swash Plate Compressor (2400 rpm)	R-404A (W)	7030				
Capacity on electric stand-by 50HZ	R-404A (W)	6450				
DEFROST						
	R-404A (W)	10 / 20 Versions - Automatic hot gas defrost				
	R-404A (W)	30 / 50 Versions - Reverse Cycle				
	R-134a	Automatic hot gas defrost				

* R-134a units are not ATP certified ** Internal Test Figures

Dimensions (mm)





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For further information please contact:



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