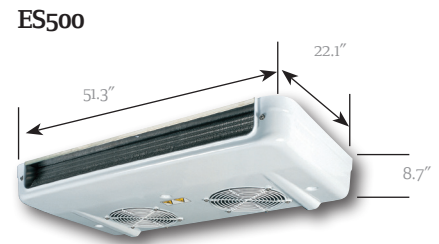
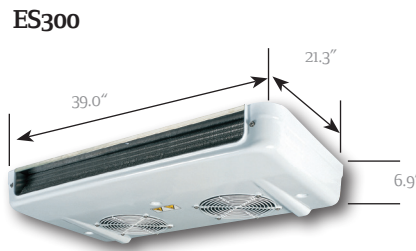
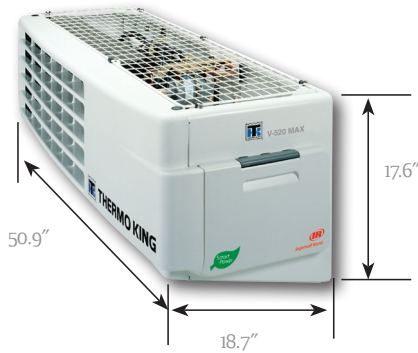


Specification Sheet

V-520/V-520 MAX



Thermo King has a Direct Drive unit to meet the needs of your specific application

Unit Features

- Engine-driven compressor
- Multi-temp configuration possible (V-520 MAX)
- SmartPower™ electric standby option
- DSR microprocessor controller
- Jet Lube compressor lubrication
- Jet Cool compressor injection cooling (V-520 MAX)
- Automatic hot gas defrost
- Optional heating package
- Unit includes installation kit
- Electronic thermostat

R-134a Refrigerant for Fresh Applications

- Lower pressure refrigerant means a longer unit lifespan
- More reliable with better temp management for fresh loads

R-404A Refrigerant for Frozen Applications

- Greater cooling capacity
- Better temp management for frozen loads

Swash Plate Compressor



The TM 16 is typically the appropriate compressor and is available with the following belt configurations:

- Double A groove
- Variable groove
- Poly V groove

Swash Plate Compressor

Model	TM 16
Cylinders	6
Displacement	9.9 inches ³

Reciprocating Compressor



The TK-312R reciprocating compressor has the life of 5 swash plate compressors.

Reciprocating Compressor

Model	TK-312R
Cylinders	3
Displacement	11.4 inches ³



System Performance

V-520 Refrigeration Capacity

(System net cooling capacity at 100°F ambient and 2,400 RPM engine operation)

	35°F	0°F
Engine Power Swash Plate (BTU/hr)	12,200	5,000
Engine Power Recip. Comp. (BTU/hr)	13,700	5,410
Smart Power Electric Standby (BTU/hr)	10,000	3,500
Refrigerant	R-134a	
Charge	7.9 lbs	
Ozone Depletion Potential	Zero	
Chlorine	Zero	

V-520 MAX and V-520 SPECTRUM™ Refrigeration Capacity

(System net cooling capacity at 100°F ambient and 2,400 RPM engine operation)

	35°F	0°F	-20°F
Engine Power Swash Plate (BTU/hr)	15,500	8,200	5,000
Engine Power Recip. Comp. (BTU/hr)	16,600	8,700	5,300
Smart Power Electric Standby (BTU/hr)	10,400	6,600	3,500
Refrigerant	R-404A		
Charge	8.2 lbs		
Ozone Depletion Potential	Zero		
Chlorine	Zero		

(The V-520 SPECTRUM is the multitemp unit and it has the same capacity as the V-520 MAX)

V-520 and V-520 MAX System Specifications

Evaporator Airflow Capacity	
ES500	1,415 cfm
ES300	765 cfm
Electric Standby Options	Total Current Consumption
230V/1 Phase/60 Hz	12.7A
230V/3 Phase/60 Hz	14.1A
460V/3 Phase/60 Hz	8.1A
Heating Capacity (Optional)	BTU/hr
Engine Coolant Heat	17,000
Electric Heater Strips	14,000
System Weight	
V-520 Condensing Unit	146 lbs
ES500 Evaporator	57 lbs
ES300 Evaporator	40 lbs
Installation Kit	62 lbs
Heating Kit	10 lbs

All Thermo King equipment is backed by the Thermo King dealer service network, with over 200 locations across North America.



Contact your Local Thermo King Dealer at: