

Specification Sheet

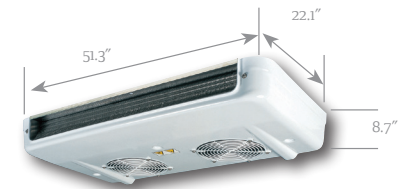
V-520 RT/V-520 RT MAX



ES300



ES500



Thermo King has a Direct Drive unit to meet the needs of your specific application — fresh or frozen!

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



Unit Features

- Engine-driven compressor
- Modular design system
- SmartPower™ electric standby option
- DSR controller
- Jet Lube compressor lubrication
- Jet Cool compressor injection cooling (V-520 RT MAX)
- Automatic hot gas defrost
- Optional heating package
- Installation kit

Engine Mounted Compressor

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

- Double A groove
- Poly V groove



System Performance

V-520 RT 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	3.5 lbs	
Ozone Depletion Potential	Zero	
Chlorine	Zero	

V-520 RT MAX and V-520 RT 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	3.5 lbs		
Ozone Depletion Potential	Zero		
Chlorine	Zero		

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

V-520 RT and V-520 RT MAX System Specifications

Evaporator Airflow Capacity	
ES500	1,415 cfm
ES300	765 cfm
Electric Standby Option	Total Current Consumption
230V/1 Phase/60 Hz	12.7A
230V/3 Phase/60 Hz	14.1A
Hot Gas Heat Option	
BTU	14,000
System Weight	
V-520 RT Condensing Unit	101 lbs
ES500 Evaporator	57 lbs
ES300 Evaporator	40 lbs
Installation Kit	62 lbs
Heating Kit	18 lbs

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

