

## SPECIFICATION SHEET

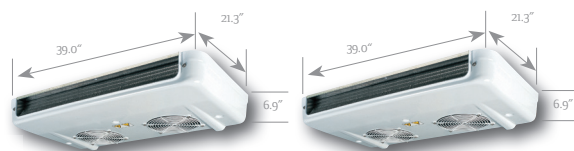
# V-520 RT/V-520 RT MAX

Without SmartPower



With SmartPower

ES300 - SPECTRUM Units



ES500 - Single-Temp Units



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
- Automatic hot gas defrost
- Optional heating package
- Installation kit

## Engine Mounted Compressor

V-520 RT units use a swash plate compressor and it 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 |       |       |

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

### Evaporator Airflow Capacity

|                     |           |
|---------------------|-----------|
| ES500 (Single Temp) | 1,415 cfm |
| ES300 (Multi Temp)  | 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 (MAX Only)

|        |        |
|--------|--------|
| BTU/HR | 14,000 |
|--------|--------|

### System Weight

|  |         |
|--|---------|
| V-520 RT Condensing Unit (w/o SmartPower)        | 101 lbs |
| V-520 RT Condensing Unit (w/SmartPower)          | 190 lbs |
| ES500 Evaporator (Single Temp)                   | 60 lbs  |
| ES300 Evaporator (SPECTRUM Multi Temp [2 req'd]) | 40 lbs  |
| Swashplate Compressor                            | 16 lbs  |
| Install Kit                                      | 10 lbs  |
| Hose Kit   | 16 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: