



### V-200 MAX Spectrum

**Superior temperature control**

The V-200 MAX Spectrum is the smallest unit in the V-Series Spectrum platform, created for vans or trucks up to 12 m3. It is available with an ES100+ES100 configuration, the smallest evaporators in the range in order to properly address the size limitation of the smallest vans in the market.

- Complete multi-temp range
- More flexible system for fresh, frozen and deep frozen applications
- Transversal and longitudinal compartments
- Temperature accuracy
- Superior performance
- Ease of installation

Dimensions	Unit	Condenser
Height	221 mm	
Width	1180 mm	
Depth	535 mm	

## Specifications

Refrigeration Capacity	
<b>System net cooling capacity under A.T.P. conditions at 30 °C ambient</b>	
Capacity on engine power -20°C	1750 W
Capacity on engine power ES100 MAX+ES100 MAX -20°C	1750 W
Capacity on electrical stand by -20°C	1170 W
Capacity on electrical stand by ES100 MAX+ES100 MAX -20°C	1170 W
Refrigeration Capacity: Individual Cooling Capacity	
Capacity on engine power ES100 MAX 0°C	2670 W
Capacity on engine power ES100 MAX -20°C	1450 W
Capacity on electrical stand by ES100 MAX 0°C	2195 W
Capacity on electrical stand by ES100 MAX -20°C	1125 W
Heating Capacity	
On the road	2800 W
Electric Stand By Operation	2050 W
Airflow	
<b>on high speed engine operation</b>	
ES100+ES100	695 m3/hr
Weight	
<b>including battery</b>	
Condenser w/o electric stand-by	25 kg
Condenser with electric stand-by	75 kg
Swash Plate Compressor	6.9 kg
Evaporator ES100 MAX	9 kg
Compressor	
Model	QP13
Displacement	131 cm3
Number of cylinders	6
Electrical Stand by Motor	
Voltage / Phase / Frequency	230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Rating	3.8 kW
Refrigerant Charge	
Charge	1.35 kg
Generic (Boxlength, Refrigerant, ...)	
Box volume	12 m3
Refrigerant	R-404A/R-452A
Airflow	695 m3/hr
Controller	DSR III
Defrost	
Defrost	Automatic hot gas defrost

## Features and Options

Life cost management	
ThermoKare Service contracts	<input checked="" type="checkbox"/>
Data capture & communications	
USB Datalogger	<input checked="" type="checkbox"/>
TouchPrint data logger	<input checked="" type="checkbox"/>
Wintrac? (data analysis software)	<input checked="" type="checkbox"/>
Datalogger Jr	<input checked="" type="checkbox"/>
Load Protection	
Bumper feet roof mounting	<input checked="" type="checkbox"/>
HMI holder	<input checked="" type="checkbox"/>
Kit swivel manifold (upgrade)	<input checked="" type="checkbox"/>
Door switches	<input type="checkbox"/>
Din Adapter	<input type="checkbox"/>
Hose Cover	<input type="checkbox"/>
Muffler kit	<input type="checkbox"/>
Snow Cover (kit deflector Small)	<input type="checkbox"/>
Snow Cover (kit deflector Big)	<input type="checkbox"/>
Harness Extension 2m/4m/6m	<input type="checkbox"/>
<input type="radio"/> Not Available <input checked="" type="radio"/> Standard Feature	
<input type="checkbox"/> Option: Factory Supplied <input checked="" type="checkbox"/> Option: Dealer Supplied	



### V-300 MAX Spectrum

**Superior temperature control**

The V300 MAX Spectrum unit is capable of cooling vans and trucks up to 16 m<sup>3</sup> and can be configured with three evaporator options (ES150 + ES150, ES200 + ES100, and ES150 + ES100), increasing the flexibility for customers to adapt most efficiently to their transport needs.

- Superior temperature control
- User friendly Direct Smart Reefer
- Flexibility
- Improved reliability of electrical components
- Ease of maintenance and service
- Ease of installation

Dimensions	Unit	Condenser
Height	221 mm	
Width	1180 mm	
Depth	535 mm	

## Specifications

Refrigeration Capacity	
<b>System net cooling capacity under A.T.P. conditions at 30 °C ambient</b>	
Capacity on engine power ES150 MAX+ES150 MAX -20°C	2150 W
Capacity on engine power ES150 MAX+ES100 MAX -20°C	2150 W
Capacity on engine power ES200 MAX+ES100 MAX -20°C	1870 W
Capacity on electrical stand by ES150 MAX+ES150 MAX -20°C	1380 W
Capacity on electrical stand by ES150 MAX+ES100 MAX -20°C	1415 W
Capacity on electrical stand by ES200 MAX+ES100 MAX -20°C	1315 W
<b>Refrigeration Capacity: Individual Cooling Capacity</b>	
Capacity on engine power ES150 MAX 0°C	2895 W
Capacity on engine power ES150 MAX -20°C	1625 W
Capacity on engine power ES100 MAX 0°C	2685 W
Capacity on engine power ES100 MAX -20°C	1540 W
Capacity on engine power ES200 MAX 0°C	2940 W
Capacity on engine power ES200 MAX -20°C	1585 W
Capacity on electrical stand by ES150 MAX 0°C	2340 W
Capacity on electrical stand by ES150 MAX -20°C	1240 W
Capacity on electrical stand by ES100 MAX 0°C	2205 W
Capacity on electrical stand by ES100 MAX -20°C	1145 W
Capacity on electrical stand by ES200 MAX 0°C	2480 W
Capacity on electrical stand by ES200 MAX -20°C	1180 W
<b>Heating Capacity</b>	
On the road	3100 W
Electric Stand By Operation	2250 W
<b>Airflow</b>	
<b>on high speed engine operation</b>	
ES200+ES100	1210 + 770 m <sup>3</sup> /hr
ES150+ES150	2 x 890 m <sup>3</sup> /hr
ES150+ES100	890 + 765 m <sup>3</sup> /hr
<b>Weight</b>	
<b>including battery</b>	
Model 30	25 kg
Model 50	75 kg
Installation kit	24 kg
Evaporator ES150 MAX	12.5 kg
Swash Plate Compressor	6.8 kg
Evaporator ES100 MAX	9 kg
Evaporator ES200 MAX	15 kg
<b>Compressor</b>	
Model	QP15
Displacement	146.7 cm <sup>3</sup>
Number of cylinders	6
<b>Electrical Stand by Motor</b>	
Voltage / Phase / Frequency	230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Rating	3.8 kW
<b>Refrigerant Charge</b>	
Charge	30: 1.55 -- 50: 1.6 kg
<b>Generic (Boxlength, Refrigerant, ...)</b>	
Box volume	16 m <sup>3</sup>
Refrigerant	R-404A/R-452A
Airflow	890 m <sup>3</sup> /hr
Controller	DSR III
<b>Host Unit Electric Standby</b>	
AC Voltage/Phase/Cycles (system voltage)	230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
<b>Defrost</b>	
Defrost	Automatic hot gas defrost

## Features and Options

Life cost management	
ThermoKare Service contracts	<input checked="" type="checkbox"/>
Data capture & communications	
USB Datalogger	<input checked="" type="checkbox"/>
TouchPrint data logger	<input checked="" type="checkbox"/>
Wintrac? (data analysis software)	<input checked="" type="checkbox"/>
Datalogger Jr	<input checked="" type="checkbox"/>
Load Protection	
Bumper feet roof mounting	<input checked="" type="checkbox"/>
HMI holder	<input checked="" type="checkbox"/>
Kit swivel manifold (upgrade)	<input checked="" type="checkbox"/>
Door switches	<input type="checkbox"/>
Din Adapter	<input type="checkbox"/>
Hose Cover	<input type="checkbox"/>
Muffler kit	<input type="checkbox"/>
Snow Cover (kit deflector Small)	<input type="checkbox"/>
Snow Cover (kit deflector Big)	<input type="checkbox"/>
Harness Extension 2m/4m/6m	<input type="checkbox"/>
<input type="radio"/> Not Available <input checked="" type="radio"/> Standard Feature	
<input type="checkbox"/> Option: Factory Supplied <input checked="" type="checkbox"/> Option: Dealer Supplied	



### V-500 MAX SPECTRUM

#### Superior temperature control

The V500 Max Spectrum unit is designed for medium-sized trucks (four to five metres in length). Offered in four different evaporator configurations (ES300 + ES300, ES300 + 2 x ES150, ES300 + ES150 and 2 x ES150 + 2 x ES150), it optimizes the amount of goods transported in each journey.

- Complete multi-temp range
- More flexible system for fresh, frozen and deep frozen applications
- Transversal and longitudinal compartments
- Temperature accuracy
- Superior performance
- Ease of installation

Dimensions	Unit	Condenser
Height	448 mm	448 mm
Width	475 mm	1339 mm
Depth	1339 mm	475 mm

## Specifications

Refrigeration Capacity	
<b>System net cooling capacity under A.T.P. conditions at 30 °C ambient</b>	
Capacity on engine power -20°C	2290 W
Capacity on engine power ES300 MAX+ES300 MAX -20°C	2290 W
Capacity on engine power ES300 MAX+ES150 MAX -20°C	2290 W
Capacity on engine power ES300 MAX+2xES150 MAX -20°C	2290 W
Capacity on electrical stand by -20°C	1920 W
Capacity on electrical stand by ES300 MAX+ES300 MAX -20°C	1920 W
Capacity on electrical stand by ES300 MAX+ES150 MAX -20°C	1920 W
Capacity on electrical stand by ES300 MAX+2xES150 MAX -20°C	1920 W
Refrigeration Capacity: Individual Cooling Capacity	
Capacity on engine power ES500 MAX 0°C	4630 W
Capacity on engine power ES500 MAX -20°C	2380 W
Capacity on engine power ES150 MAX 0°C	2925 W
Capacity on engine power ES150 MAX -20°C	1410 W
Capacity on engine power 2 X ES150 MAX 0°C	3974 W
Capacity on engine power 2 X ES150 MAX -20°C	1970 W
Capacity on engine power ES300 MAX 0°C	3585 W
Capacity on engine power ES300 MAX -20°C	1850 W
Capacity on engine power ES100 MAX 0°C	2300 (ES100n) W
Capacity on engine power ES100 MAX -20°C	1290 (ES100n) W
Capacity on electrical stand by ES500 MAX 0°C	4085 W
Capacity on electrical stand by engine power ES500 MAX -20°C	2020 W
Capacity on electrical stand by ES150 MAX 0°C	2579 W
Capacity on electrical stand by ES150 MAX -20°C	1320 W
Capacity on electrical stand by 2 X ES150 MAX 0°C	3596 W
Capacity on electrical stand by 2 X ES150 MAX -20°C	1700 W
Capacity on electrical stand by ES100 MAX 0°C	2410 (ES100n) W
Capacity on electrical stand by ES100 MAX -20°C	1075 (ES100n) W
Capacity on electrical stand by ES300 MAX 0°C	3385 W
Capacity on electrical stand by ES300 MAX -20°C	1670 W
Heating Capacity	
On the road	3600 W
Electric Stand By Operation	3120 W
Airflow	
<b>on high speed engine operation</b>	
ES300+2XES150	1185+(2x700) m3/hr
ES300+ES150	1185+700 m3/hr
ES300+ES300	2x1185 m3/hr
Weight	
<b>including battery</b>	
Condenser w/o electric stand-by	53 kg
Condenser with electric stand-by	125 kg
Evaporator ES500 MAX	25.5 kg
Evaporator ES300 MAX	18 kg
Evaporator ES150 MAX	12.5 kg
Swash Plate Compressor	7.1 kg
Evaporator ES100 MAX	8.5 (ES100n) kg
Compressor	
Model	QP16
Displacement	163 cm <sup>3</sup>
Number of cylinders	6
Electrical Stand by Motor	
Voltage / Phase / Frequency	400/3/50 --230/3/50 -- 230/3/60 -- 230/1/50 -- 230/1/60 --380/3/60
Rating	6.4 (400/3/50) kW
Refrigerant Charge	
Charge	model 30 = 2.4 kg and model 50 = 2.5 kg
Generic (Boxlength, Refrigerant, ...)	
Box volume	22 m <sup>3</sup>
Refrigerant	R-404A/R-452A
Airflow	1185 m <sup>3</sup> /hr
Controller	DSR III
Defrost	
Defrost	Automatic hot gas defrost

## Features and Options

Life cost management	
ThermoKare Service contracts	<input type="checkbox"/>
Data capture & communications	
USB Datalogger	<input type="checkbox"/>
TouchPrint data logger	<input type="checkbox"/>
Wintrac? (data analysis software)	<input type="checkbox"/>
Datalogger Jr	<input type="checkbox"/>
Load Protection	
Bumper feet roof mounting	<input checked="" type="checkbox"/>
HMI holder	<input checked="" type="checkbox"/>
Kit swivel manifold (upgrade)	<input checked="" type="checkbox"/>
Door switches	<input type="checkbox"/>
Din Adapter	<input type="checkbox"/>
Hose Cover	<input type="checkbox"/>
Harness Extension 2m/4m/6m	<input type="checkbox"/>
<input type="radio"/> Not Available <input checked="" type="radio"/> Standard Feature	
<input type="checkbox"/> Option: Factory Supplied <input checked="" type="checkbox"/> Option: Dealer Supplied	



### V-800 MAX Spectrum

**Superior temperature control**

This V-800 MAX Spectrum unit completes the Thermo King multi-temp application offering. It is the most powerful unit in the V-Series Spectrum platform and it is appropriate for trucks up to seven metres long. It offers a choice of three different evaporator configurations (ES400 + ES400, ES600 + 2 x ES150 and ES600 + ES150) to address a variety of customer application and to meet the requirements of two big compartment boxes, be it transversal or longitudinal configurations alike. The V-800 MAX Spectrum is the right alternative for city distribution in big trucks up to 7 metres body lengths.

Dimensions	Unit	Condenser
Height	458.7 mm	458.7 mm
Width	1592 mm	1592 mm
Depth	523 mm	523 mm

### Specifications

Refrigeration Capacity	
<b>System net cooling capacity under A.T.P. conditions at 30 °C ambient</b>	
Capacity on engine power -20°C	4395 W
Capacity on engine power ES400 MAX+ES400 MAX -20°C	4395 W
Capacity on engine power ES600 MAX+ES150MAX -20°C	3850 W
Capacity on engine power ES600 MAX+2 X ES150MAX -20°C	4300 W
Capacity on electrical stand by -20°C	3595 W
Capacity on electrical stand by ES400 MAX+ES400 MAX -20°C	3595 W
Capacity on electrical stand by ES600 MAX+ES150MAX -20°C	3385 W
Capacity on electrical stand by ES600 MAX+2 X ES150MAX -20°C	3595 W
Refrigeration Capacity: Individual Cooling Capacity	
Capacity on engine power ES400 MAX 0°C	5740 W
Capacity on engine power ES400 MAX -20°C	3300 W
Capacity on engine power ES600 MAX 0°C	6765 W
Capacity on engine power ES600 MAX -20°C	3460 W
Capacity on engine power ES150 MAX 0°C	3975 W
Capacity on engine power ES150 MAX -20°C	2270 W
Capacity on engine power 2 X ES150 MAX 0°C	5640 W
Capacity on engine power 2 X ES150 MAX -20°C	2995 W
Capacity on electrical stand by ES400 MAX 0°C	5300 W
Capacity on electrical stand by ES400 MAX -20°C	3010 W
Capacity on electrical stand by ES600 MAX 0°C	6305 W
Capacity on electrical stand by ES600 MAX -20°C	3110 W
Capacity on electrical stand by ES150 MAX 0°C	3850 W
Capacity on electrical stand by ES150 MAX -20°C	2165 W
Capacity on electrical stand by 2 X ES150 MAX 0°C	5045 W
Capacity on electrical stand by 2 X ES150 MAX -20°C	2705 W
Heating Capacity	
On the road	4500 W
Electric Stand By Operation	4000 W
Airflow	
<b>on high speed engine operation</b>	
ES400+ES400	1760x2 m3/hr
ES600 MAX+ES150MAX	2260+890 m3/hr
ES600 MAX++2XES150MAX	2260+(2x890) m3/hr
Weight	
<b>including battery</b>	
Condenser w/o electric stand-by	100 kg
Condenser with electric stand-by	160 kg
Evaporator ES600 MAX	28 kg
Evaporator ES400 MAX	20 kg
Evaporator 2 X ES150 MAX	25 kg
Evaporator ES150 MAX	12.5 kg
Swash Plate Compressor	8.5 kg
Compressor	
Model	QP21
Displacement	215 cm3
Number of cylinders	10
Electrical Stand by Motor	
Voltage / Phase / Frequency	400/3/50 -- 230/3/50 --400/3/60 -- 230/3/60
Rating	8.2 kW
Refrigerant Charge	
Charge	ES400+ES400: 5.2 -- ES600+ES150: 5.0 -- ES600+2XES150: 5.15 kg
Generic (Boxlength, Refrigerant, ...)	
Box volume	40 m3
Refrigerant	R-404A/R-452A
Airflow	1760 m3/hr
Controller	DSR III
Defrost	
Defrost	Automatic hot gas defrost

### Features and Options

Life cost management	
ThermoKare Service contracts	<input checked="" type="checkbox"/>
Data capture & communications	
USB Datalogger	<input checked="" type="checkbox"/>
TouchPrint data logger	<input checked="" type="checkbox"/>
Wintrac? (data analysis software)	<input checked="" type="checkbox"/>
Datalogger Jr	<input checked="" type="checkbox"/>
Load Protection	
Bumper feet roof mounting	<input checked="" type="checkbox"/>
HMI holder	<input checked="" type="checkbox"/>
Kit swivel manifold (upgrade)	<input checked="" type="checkbox"/>
Door switches	<input type="checkbox"/>
Din Adapter	<input type="checkbox"/>
Hose Cover	<input type="checkbox"/>
<input type="checkbox"/> Not Available <input checked="" type="checkbox"/> Standard Feature <input type="checkbox"/> Option: Factory Supplied <input checked="" type="checkbox"/> Option: Dealer Supplied	