



DIRECT DRIVE TRUCK - MULTI TEMPERATURE

## V-400X MAX SPECTRUM



DIRECT DRIVE TRUCK - MULTI TEMPERATURE

## V-600X MAX SPECTRUM

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UNIT Width 1180 mm x Depth 535 mm x Height 221 mm

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

PERFORMANCE			
REFRIGERATION CAPACITY: INDIVIDUAL COOLING CAPACITY		REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT	
Capacity on electrical stand by ES100 MAX 0°C	2195 W	Capacity on engine power -20°C	1750 W
Capacity on electrical stand by ES100 MAX -20°C	1125 W	Capacity on electrical stand by -20°C	1170 W
		Capacity on electrical stand by ES100 MAX+ES100 MAX -20°C	1170 W
HEATING CAPACITY		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
On the road	2800 W	Airflow volume @ 0 pa static pressure	1172 m³/hr
Electric Stand By Operation	2050 W	ES100+ES100	695 m³/hr

TECHNICAL DATA			
COMPRESSOR		REFRIGERANT CHARGE	
Model	QP13	Charge	1.35 kg
Displacement	131 cm³		
Number of cylinders	6		
GENERIC (BOXLENGTH, REFRIGERANT, ...)		DEFROST	
Box volume	12 m³	Defrost	Automatic hot gas defrost
Refrigerant	R-452A		
Airflow	695 m³/hr		
Controller	DSR III		
WEIGHT INCLUDING BATTERY		ELECTRICAL STAND BY MOTOR	
Installation kit	24 kg	Voltage / Phase / Frequency	230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Condenser w/o electric stand-by	25 kg		
Condenser with electric stand-by	72 kg	Rating	3.8 kW
Swash Plate Compressor	6.9 kg		
Evaporator ES100 MAX	9 kg		
SOUND PRESSURE LEVEL			
High Speed Diesel	85 dB(A)		



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	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Hose extention 2 m/4 m/6 m		x	
Bumper feet roof mounting	x		
HMI holder	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

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UNIT Width 1180 mm x Depth 535 mm x Height 221 mm

V-300 MAX Spectrum

Superior temperature control

The V300 MAX Spectrum unit is capable of cooling vans and trucks up to 16 m3 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

PERFORMANCE			
REFRIGERATION CAPACITY: INDIVIDUAL COOLING CAPACITY		REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT	
Capacity on engine power ES150 MAX 0°C	2895 W	Capacity on engine power ES150 MAX+ES150 MAX -20°C	2150 W
Capacity on engine power ES150 MAX -20°C	1625 W	Capacity on engine power ES150 MAX+ES100 MAX -20°C	2150 W
Capacity on electrical stand by ES150 MAX 0°C	2340 W	Capacity on engine power ES200 MAX+ES100 MAX -20°C	1870 W
Capacity on electrical stand by ES150 MAX -20°C	1240 W	Capacity on electrical stand by ES150 MAX+ES150 MAX -20°C	1380 W
Capacity on electrical stand by ES100 MAX 0°C	2205 W	Capacity on electrical stand by ES150 MAX+ES100 MAX -20°C	1415 W
Capacity on electrical stand by ES100 MAX -20°C	1145 W	Capacity on electrical stand by ES200 MAX+ES100 MAX -20°C	1315 W
Capacity on electrical stand by ES200 MAX 0°C	2480 W		
Capacity on electrical stand by ES200 MAX -20°C	1180 W		
HEATING CAPACITY		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
On the road	3100 W	ES200+ES100	1210 + 770 m³/hr
Electric Stand By Operation	2250 W	ES150+ES150	2 x 890 m³/hr
		ES150+ES100	890 + 765 m³/hr

TECHNICAL DATA			
COMPRESSOR		REFRIGERANT CHARGE	
Model	QP15	Charge	30: 1.55 -- 50: 1.85 kg
Displacement	146.7 cm³		
Number of cylinders	6		
GENERIC (BOXLENGTH, REFRIGERANT, ...)		HOST UNIT ELECTRIC STANDBY	
Box volume	16 m³	AC Voltage/Phase/Cycles (system voltage)	230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Refrigerant	R-452A		
Airflow	890 m³/hr		
Controller	DSR III		
DEFROST		WEIGHT INCLUDING BATTERY	
Defrost	Automatic hot gas defrost	Model 30	25 kg
		Model 50	75 kg
		Installation kit	24 kg
		Condenser w/o electric stand-by	25 kg
		Condenser with electric stand-by	72 kg
		Evaporator ES150 MAX	12.5 kg



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Swash Plate Compressor	6.8 kg
Evaporator ES100 MAX	9 kg
Evaporator ES200 MAX	15 kg

ELECTRICAL STAND BY MOTOR		SOUND PRESSURE LEVEL	
Voltage / Phase / Frequency	230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60	High Speed Diesel	85 dB(A)
Rating	3.8 kW		



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	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Hose extention 2 m/4 m/6 m		x	
Bumper feet roof mounting	x		
HMI holder	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

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**UNIT** Width 475 mm x Depth 1339 mm x Height 448 mm  
**CONDENSER** Width 1339 mm x Depth 475 mm x Height 448 mm

## 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

#### PERFORMANCE

REFRIGERATION CAPACITY: INDIVIDUAL COOLING CAPACITY		REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT	
Capacity on engine power ES500 MAX 0°C	4630 W	Capacity on engine power -20°C	2290 W
Capacity on engine power ES500 MAX -20°C	2380 W	Capacity on engine power ES300 MAX+ES300 MAX -20°C	2290 W
Capacity on engine power ES150 MAX 0°C	2925 W	Capacity on engine power ES300 MAX+ES150 MAX -20°C	2290 W
Capacity on engine power ES150 MAX -20°C	1410 W	Capacity on engine power ES300 MAX + 2xES150 MAX -20°C	2290 W
Capacity on engine power 2 X ES150 MAX 0°C	3974 W	Capacity on electrical stand by -20°C	1920 W
Capacity on engine power 2 X ES150 MAX -20°C	1970 W	Capacity on electrical stand by ES300 MAX+ES300 MAX -20°C	1920 W
Capacity on electrical stand by ES500 MAX 0°C	4085 W	Capacity on electrical stand by ES300 MAX+ES150 MAX -20°C	1920 W
Capacity on electrical stand by engine power ES500 MAX -20°C	2020 W	Capacity on electrical stand by ES300 MAX + 2xES150 MAX -20°C	1920 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		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
On the road	3600 W	ES300 + 2XES150	1185+(2x700) m <sup>3</sup> /hr
Electric Stand By Operation	3120 W	ES300+ES150	1185+700 m <sup>3</sup> /hr
		ES300+ES300	2x1185 m <sup>3</sup> /hr

#### TECHNICAL DATA

COMPRESSOR		REFRIGERANT CHARGE	
Model	QP16	Charge	model 30 = 2.4 kg and model 50 = 2.5 kg kg
Displacement	163 cm <sup>3</sup>		
Number of cylinders	6		
GENERIC (BOXLENGTH, REFRIGERANT, ...)		DEFROST	
Box volume	22 m <sup>3</sup>	Defrost	Automatic hot gas defrost
Refrigerant	R-404A/R-452A		
Airflow	1185 m <sup>3</sup> /hr		
Controller	DSR III		





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WEIGHT INCLUDING BATTERY		ELECTRICAL STAND BY MOTOR	
Condenser w/o electric stand-by	53 kg	Voltage / Phase / Frequency	400/3/50 --230/3/50 -- 230/3/60 -- 230/1/50 -- 230/1/60 --380/3/60
Condenser with electric stand-by	125 kg	Rating	6.4 (400/3/50) kW
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		



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	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Bumper feet roof mounting	x		
HMI holder	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Door switches		x	