

V-400X MAX SPECTRUM



High performance, sustainable refrigeration with precise temperature control

The in-cab controller enables single- and multi-temperature control within 1°C. Low noise, zero exhaust emissions, and no engine reduce the ecological footprint of the VX-Series. The ultra-light and compact units enable you to maximize your payload. The future-proof aerodynamic design has been developed to meet the needs of daily operations.

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	4244 W
Capacity on engine power -20°C	2162 W
Capacity on electrical stand by 0°C	3206 W
Capacity on electrical stand by -20°C	1970 W

AIRFLOW

INDEPENDENT FROM UNIT ENGINE SPEED

Volume @ 0 Pa static pressure	1480 m ³ /hr
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TECHNICAL DATA

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Airflow

1480 m³/hr

WEIGHT

Model 50

75 kg

V-600X MAX SPECTRUM



High performance, sustainable refrigeration with precise temperature control

The in-cab controller enables single- and multi-temperature control within 1°C. Low noise, zero exhaust emissions, and no engine reduce the ecological footprint of the VX-Series. The ultra-light and compact units enable you to maximize your payload. The future-proof aerodynamic design has been developed to meet the needs of daily operations.

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	5235 W
Capacity on engine power -20°C	2826 W
Capacity on electrical stand by 0°C	4130 W
Capacity on electrical stand by -20°C	2033 W

AIRFLOW

INDEPENDENT FROM UNIT ENGINE SPEED

Volume @ 0 Pa static pressure	1990 m ³ /hr
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TECHNICAL DATA

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Airflow

1990 m³/hr

WEIGHT

Model 50

125 kg

DIRECT DRIVE TRUCK - MULTI TEMPERATURE



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
AIRFLOW INDEPENDENT FROM UNIT ENGINE SPEED		HEATING CAPACITY	
Volume @ 0 Pa static pressure	1172 m ³ /hr	On the road	2800 W
ES100+ES100	695 m ³ /hr	Electric Stand By Operation	2050 W

TECHNICAL DATA

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

DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	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	

DIRECT DRIVE TRUCK - MULTI TEMPERATURE



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		

AIRFLOW INDEPENDENT FROM UNIT ENGINE SPEED		HEATING CAPACITY	
ES200+ES100	1210 + 770 m ³ /hr	On the road	3100 W
ES150+ES150	2 x 890 m ³ /hr	Electric Stand By Operation	2250 W
ES150+ES100	890 + 765 m ³ /hr		

TECHNICAL DATA

(ELECTRIC) STAND-BY CAPACITY		COMPRESSOR	
AC Voltage/Phase/Cycles (system voltage)	230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60	Model	QP15
		Displacement	146.7 cm ³
		Number of cylinders	6

GENERIC (BOXLENGTH, REFRIGERANT, ...)		WEIGHT	
Box volume	16 m ³	Model 30	25 kg
Refrigerant	R-452A	Model 50	75 kg
Airflow	890 m ³ /hr	Installation kit	24 kg
Controller	DSR III	Condenser w/o electric stand-by	25 kg
		Condenser with electric stand-by	72 kg
		Evaporator ES150 MAX	12.5 kg
		Swash Plate Compressor	6.8 kg
		Evaporator ES100 MAX	9 kg
		Evaporator ES200 MAX	15 kg

DEFROST		ELECTRICAL STAND BY MOTOR	
Defrost	Automatic hot gas defrost	Voltage / Phase / Frequency	230/1/50 -- 230/1/60 --

DIRECT DRIVE TRUCK - MULTI TEMPERATURE

			400/3/50 -- 230/3/50 -- 230/3/60
		Rating	3.8 kW
NOISE		REFRIGERANT	
Road Mode	85 dB(A)	Charge	30: 1.55 -- 50: 1.85 kg

DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	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	

DIRECT DRIVE TRUCK - MULTI TEMPERATURE



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		
AIRFLOW INDEPENDENT FROM UNIT ENGINE SPEED		HEATING CAPACITY	
ES300 + 2XES150	1185+(2x700) m ³ /hr	On the road	3600 W
ES300+ES150	1185+700 m ³ /hr	Electric Stand By Operation	3120 W
ES300+ES300	2x1185 m ³ /hr		

TECHNICAL DATA

COMPRESSOR		GENERIC (BOXLENGTH, REFRIGERANT, ...)	
Model	QP16	Box volume	22 m ³
Displacement	163 cm ³	Refrigerant	R-404A/R-452A
Number of cylinders	6	Airflow	1185 m ³ /hr
		Controller	DSR III
WEIGHT		DEFROST	
Condenser w/o electric stand-by	53 kg	Defrost	Automatic hot gas defrost
Condenser with electric stand-by	125 kg		
Evaporator ES500 MAX	25.5 kg		

DIRECT DRIVE TRUCK - MULTI TEMPERATURE

Evaporator ES300 MAX	18 kg
Evaporator ES150 MAX	12.5 kg
Swash Plate Compressor	7.1 kg
Evaporator ES100 MAX	8.5 (ES100n) kg

ELECTRICAL STAND BY MOTOR		REFRIGERANT	
Voltage / Phase / Frequency	400/3/50 --230/3/50 -- 230/3/60 -- 230/1/50 -- 230/1/60 --380/3/60	Charge	model 30 = 2.4 kg and model 50 = 2.5 kg kg
Rating	6.4 (400/3/50) kW		

DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	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	