

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
-------------------------------	-------------------------

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
-------------------------------	-------------------------

TECHNICAL DATA

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Airflow

1990 m³/hr

WEIGHT

Model 50

125 kg



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		
UNIT DIMENSIONS		ELECTRICAL STAND BY MOTOR	
Height	221 mm	Voltage / Phase / Frequency	230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Width	1180 mm	Rating	3.8 kW
Depth	535 mm		
Condenser w/o electric stand-by Height	242 mm		
Condenser w/o electric stand-by Width	789 mm		
Condenser w/o electric stand-by Depth	500 mm		
Condenser with electric stand-by Height	221 mm		
Condenser with electric stand-by Width	1180 mm		

DIRECT DRIVE TRUCK - MULTI TEMPERATURE

Condenser with electric stand-by Depth	535 mm
In-cab Controls Height	46 mm
In-cab Controls Width	135 mm
In-cab Controls Depth	25 mm
Evaporator ES100 MAX Depth	490 mm
Evaporator ES100 MAX Height	187 mm
Evaporator ES100 MAX Width	608 mm

NOISE		REFRIGERANT	
Road Mode	85 dB(A)	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



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	UNIT DIMENSIONS

DIRECT DRIVE TRUCK - MULTI TEMPERATURE

Defrost

Automatic hot gas defrost

Height	221 mm
Width	1180 mm
Depth	535 mm
Condenser w/o electric stand-by Height	242 mm
Condenser w/o electric stand-by Width	789 mm
Condenser w/o electric stand-by Depth	500 mm
Condenser with electric stand-by Height	221 mm
Condenser with electric stand-by Width	1180 mm
Condenser with electric stand-by Depth	535 mm
Evaporator ES150 MAX Height	187 mm
Evaporator ES150 MAX Width	755 mm
Evaporator ES150 MAX Depth	540 mm
In-cab Controls Height	46 mm
In-cab Controls Width	135 mm
In-cab Controls Depth	25 mm
Evaporator ES200 MAX Depth	525 mm
Evaporator ES200 MAX Width	985 mm
Evaporator ES200 MAX Height	133 mm
Evaporator ES100 MAX Depth	490 mm
Evaporator ES100 MAX Height	187 mm
Evaporator ES100 MAX Width	608 mm

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

NOISE

Road Mode	85 dB(A)
-----------	----------

REFRIGERANT

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



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		

DIRECT DRIVE TRUCK - MULTI TEMPERATURE

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

UNIT DIMENSIONS		ELECTRICAL STAND BY MOTOR	
Height	448 mm	Voltage / Phase / Frequency	400/3/50 --230/3/50 -- 230/3/60 -- 230/1/50 -- 230/1/60 --380/3/60
Width	475 mm	Rating	6.4 (400/3/50) kW
Depth	1339 mm		
Condenser Height	448 mm		
Condenser Width	1339 mm		
Condenser Depth	475 mm		
Evaporator ES300 MAX Height	178 mm		
Evaporator ES300 MAX Width	985 mm		
Evaporator ES300 MAX Depth	551 mm		
Evaporator ES150 MAX Height	187 mm		
Evaporator ES150 MAX Width	755 mm		
Evaporator ES150 MAX Depth	540 mm		
In-cab Controls Height	46 mm		
In-cab Controls Width	135 mm		
In-cab Controls Depth	25 mm		

REFRIGERANT	
Charge	model 30 = 2.4 kg and model 50 = 2.5 kg 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			
Bumper feet roof mounting	x		
HMI holder	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Door switches		x	