

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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	1 970

Refrigeration Capacity

System net cooling capacity under A.T.P. conditions at 30 °C ambient

Capacity on engine power 0°C	W	4 244
Capacity on engine power -20°C	W	2 162
Capacity on electrical stand by 0°C	W	3 206
Capacity on electrical stand by -20°C	W	1 970

Airflow

Independent from unit engine speed

Airflow	m^3/hr	1 480
Airflow HSD		1 480
Volume @ 0 Pa static pressure	m^3/hr	1 480

Heating Capacity

Heating Capacity 18°/-18° (2400rpm)		3 570

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	1 480

Weight

Total Unit Weight (30 Model)		25
Total Unit Weight (50 Model)		75
Model 50	kg	75

Refrigerant

Refrigerant Weight		1.9
Refrigerant Type		R-452A

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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

(Electric) Stand-by Capacity

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Cooling Capacity stand-by -20°/30°	W	2 033

Refrigeration Capacity

System net cooling capacity under A.T.P. conditions at 30 °C ambient

Capacity on engine power 0°C	W	5 235
Capacity on engine power -20°C	W	2 826
Capacity on electrical stand by 0°C	W	4 130
Capacity on electrical stand by -20°C	W	2 033

Airflow

Independent from unit engine speed

Airflow	m^3/hr	1 990
Airflow HSD		1 990
Volume @ 0 Pa static pressure	m^3/hr	1 990

Heating Capacity

Heating Capacity 18°/-18° (2400rpm)		4 360

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	1 990

Weight

Total Unit Weight (30 Model)		53
Total Unit Weight (50 Model)		125
Model 50	kg	125

Refrigerant

Refrigerant Weight		2.3
Refrigerant Type		R-452A
GWP/kg		2 140
Refrigerant GWP (Total)		4 922

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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

Capacity on electrical stand by ES100 MAX 0°C	W	2 195
Capacity on electrical stand by ES100 MAX -20°C	W	1 125

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	1 110

Refrigeration Capacity

System net cooling capacity under A.T.P. conditions at 30 °C ambient

Capacity on engine power -20°C	W	1 750
Capacity on electrical stand by -20°C	W	1 170
Capacity on electrical stand by ES100 MAX+ES100 MAX -20°C	W	1 170

Airflow

Independent from unit engine speed

Airflow	m^3/hr	1 172
Volume @ 0 Pa static pressure	m^3/hr	1 172
ES100+ES100	m^3/hr	695

Heating Capacity

Heating Capacity 18°/-18° (2400rpm)		2 800
On the road	W	2 800
Electric Stand By Operation	W	2 050

TECHNICAL DATA

Compressor

Model		QP13
Displacement	cm^3	131
Number of cylinders		6

Generic (Boxlength, Refrigerant, ...)

Box volume	m^3	12
Refrigerant		R-452A
Airflow	m^3/hr	695
Controller		DSR III

Weight

Total Unit Weight (30 Model)		25
Total Unit Weight (50 Model)		75
Installation kit	kg	24
Condenser w/o electric stand-by	kg	25
Condenser with electric stand-by	kg	72
Swash Plate Compressor	kg	6.9
Evaporator ES100 MAX	kg	9

Defrost

Defrost		Automatic hot gas defrost

Unit Dimensions

Height	mm	221
Width	mm	1 180
Depth	mm	535

Electrical Stand by Motor

Voltage / Phase / Frequency		230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 --

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Condenser w/o electric stand-by Height	mm	242
Condenser w/o electric stand-by Width	mm	789
Condenser w/o electric stand-by Depth	mm	500
Condenser with electric stand-by Height	mm	221
Condenser with electric stand-by Width	mm	1 180
Condenser with electric stand-by Depth	mm	535
In-cab Controls Height	mm	46
In-cab Controls Width	mm	135
In-cab Controls Depth	mm	25
Evaporator ES100 MAX Depth	mm	490
Evaporator ES100 MAX Height	mm	187
Evaporator ES100 MAX Width	mm	608

		230/3/60
Rating	kW	3.8

Noise		
Road Mode	dB(A)	85

Refrigerant		
Refrigerant Weight		1.35
Refrigerant Type		R-452A
Charge	kg	1.35
GWP/kg		3 922
Refrigerant GWP (Total)		5 295

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DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
ThermoKare Service contracts			×
Data capture & communications			
USB Datalogger			×
TouchPrint data logger			×
Wintrac (data analysis software)			×
Datalogger Jr			×
Load Protection			
Hose extention 2 m/4 m/6 m		×	
Bumper feet roof mounting	×		
HMI holder	×		
Kit swivel manifold (upgrade)	×		
Din Adapter		×	
Hose Cover		×	
Muffler kit		×	
Snow Cover (kit deflector Small)		×	
Harness Extension 2m/4m/6m		×	
Door switches		×	

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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

Capacity on engine power ES150 MAX 0°C	W	2 895
Capacity on engine power ES150 MAX -20°C	W	1 625
Capacity on electrical stand by ES150 MAX 0°C	W	2 340
Capacity on electrical stand by ES150 MAX -20°C	W	1 240
Capacity on electrical stand by ES100 MAX 0°C	W	2 205
Capacity on electrical stand by ES100 MAX -20°C	W	1 145
Capacity on electrical stand by ES200 MAX 0°C	W	2 480
Capacity on electrical stand by ES200 MAX -20°C	W	1 180

(Electric) Stand-by Capacity

.

AC Voltage/Phase/Cycles (system voltage)		230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Cooling Capacity stand-by -20°/30°	W	1 454

Refrigeration Capacity

System net cooling capacity under A.T.P. conditions at 30 °C ambient

Capacity on engine power ES150 MAX+ES150 MAX -20°C	W	2 150
Capacity on engine power ES150 MAX+ES100 MAX -20°C	W	2 150
Capacity on engine power ES200 MAX+ES100 MAX -20°C	W	1 870
Capacity on electrical stand by ES150 MAX+ES150 MAX -20°C	W	1 380
Capacity on electrical stand by ES150 MAX+ES100 MAX -20°C	W	1 415
Capacity on electrical stand by ES200 MAX+ES100 MAX -20°C	W	1 315

Airflow

Independent from unit engine speed

Airflow	m^3/hr	2 x 890
ES200+ES100	m^3/hr	1210 + 770
ES150+ES150	m^3/hr	2 x 890
ES150+ES100	m^3/hr	890 + 765

Heating Capacity

Heating Capacity 18°/-18° (2400rpm)		3 100
On the road	W	3 100
Electric Stand By Operation	W	2 250

TECHNICAL DATA

Compressor

Model		QP15
Displacement	cm^3	146.7
Number of cylinders		6

Generic (Boxlength, Refrigerant, ...)

Box volume	m^3	16
Refrigerant		R-452A
Airflow	m^3/hr	890
Controller		DSR III

Weight

Defrost

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Total Unit Weight (30 Model)		25
Total Unit Weight (50 Model)		75
Model 30	kg	25
Model 50	kg	75
Installation kit	kg	24
Condenser w/o electric stand-by	kg	25
Condenser with electric stand-by	kg	72
Evaporator ES150 MAX	kg	12.5
Swash Plate Compressor	kg	6.8
Evaporator ES100 MAX	kg	9
Evaporator ES200 MAX	kg	15

Defrost		Automatic hot gas defrost

Unit Dimensions

Height	mm	221
Width	mm	1 180
Depth	mm	535
Condenser w/o electric stand-by Height	mm	242
Condenser w/o electric stand-by Width	mm	789
Condenser w/o electric stand-by Depth	mm	500
Condenser with electric stand-by Height	mm	221
Condenser with electric stand-by Width	mm	1 180
Condenser with electric stand-by Depth	mm	535
Evaporator ES150 MAX Height	mm	187
Evaporator ES150 MAX Width	mm	755
Evaporator ES150 MAX Depth	mm	540
In-cab Controls Height	mm	46
In-cab Controls Width	mm	135
In-cab Controls Depth	mm	25
Evaporator ES200 MAX Depth	mm	525
Evaporator ES200 MAX Width	mm	985
Evaporator ES200 MAX Height	mm	133
Evaporator ES100 MAX Depth	mm	490
Evaporator ES100 MAX Height	mm	187
Evaporator ES100 MAX Width	mm	608

Electrical Stand by Motor

Voltage / Phase / Frequency		230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Rating	kW	3.8

Noise

Road Mode	dB(A)	85

Refrigerant

Refrigerant Weight		1.6
Refrigerant Type		R-452A
Charge	kg	30: 1.55 -- 50: 1.85
GWP/kg		3 922
Refrigerant GWP (Total)		6 275

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DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
ThermoKare Service contracts			×
Data capture & communications			
USB Datalogger			×
TouchPrint data logger			×
Wintrac (data analysis software)			×
Datalogger Jr			×
Load Protection			
Hose extention 2 m/4 m/6 m		×	
Bumper feet roof mounting	×		
HMI holder	×		
Kit swivel manifold (upgrade)	×		
Din Adapter		×	
Hose Cover		×	
Muffler kit		×	
Snow Cover (kit deflector Small)		×	
Harness Extension 2m/4m/6m		×	
Door switches		×	

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