



## 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	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

Volume @ 0 Pa static pressure	m <sup>3</sup> /hr	1 480
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#### TECHNICAL DATA

##### Generic (Boxlength, Refrigerant, ...)

Airflow	m <sup>3</sup> /hr	1 480
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##### Weight

Model 50	kg	75
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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

##### 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

Volume @ 0 Pa static pressure	m <sup>3</sup> /hr	1 990
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#### TECHNICAL DATA

##### Generic (Boxlength, Refrigerant, ...)

Airflow	m <sup>3</sup> /hr	1 990
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##### Weight

Model 50	kg	125
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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

##### 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

Volume @ 0 Pa static pressure	m <sup>3</sup> /hr	1 172
ES100+ES100	m <sup>3</sup> /hr	695

##### Heating Capacity

On the road	W	2 800
Electric Stand By Operation	W	2 050

#### TECHNICAL DATA

##### Compressor

Model		QP13
Displacement	cm <sup>3</sup>	131
Number of cylinders		6

##### Generic (Boxlength, Refrigerant, ...)

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

##### Weight

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
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##### 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
In-cab Controls Height	mm	46

##### 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

## DIRECT DRIVE TRUCK - MULTI TEMPERATURE

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

### Noise

Road Mode	dB(A)	85
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### Refrigerant

Charge	kg	1.35
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## DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
<b>Life cost management</b>			
ThermoKare Service contracts			x
<b>Data capture &amp; communications</b>			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
<b>Load Protection</b>			
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	



# 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

### 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

#### 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

ES200+ES100	m <sup>3</sup> /hr	1210 + 770
ES150+ES150	m <sup>3</sup> /hr	2 x 890
ES150+ES100	m <sup>3</sup> /hr	890 + 765

#### Heating Capacity

On the road	W	3 100
Electric Stand By Operation	W	2 250

### TECHNICAL DATA

#### (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
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#### Compressor

Model		QP15
Displacement	cm <sup>3</sup>	146.7
Number of cylinders		6

#### Generic (Boxlength, Refrigerant, ...)

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

#### Weight

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

## DIRECT DRIVE TRUCK - MULTI TEMPERATURE

Defrost		
Defrost		Automatic hot gas defrost

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

Refrigerant		
Charge	kg	30: 1.55 -- 50: 1.85

Evaporator ES200 MAX	kg	15
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Unit Dimensions		
Height	mm	221
Width	mm	1180
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	1180
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

Noise		
Road Mode	dB(A)	85

## DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
<b>Life cost management</b>			
ThermoKare Service contracts			x
<b>Data capture &amp; communications</b>			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
<b>Load Protection</b>			
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	