



A-360

Entry-level excellence

- Mechanically governed NRMM compliant engine
- 2-year Connectivity contract as Standard
- Flexible airflow
- Fully variable airflow independent of unit engine speed
- Reduced noise levels

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	15 600
Capacity on engine power -20°C	W	8 100
Capacity on electrical stand by 0°C	W	12 700
Capacity on electrical stand by -20°C	W	6 600

Heating Capacity

Capacity on engine power (Outside air temperature: -20°C)	W	10 750
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Airflow

Independent from unit engine speed

Default Airflow Pull Down	m ³ /hr	5 000
Max Airflow Pull Down	m ³ /hr	5 500
Default Airflow Set Point	m ³ /hr	3 400
Max Airflow Set Point	m ³ /hr	5 000

TECHNICAL DATA

Weight

Model Standard	kg	830
Total Unit Weight (50 Model)		830

Unit Dimensions

Height	mm	2 270
Width	mm	2 076
Depth	mm	440

Engine

Maintenance Interval	hrs	3 000
Number of cylinders		4
Capacity	L	2,1

Electrical Stand by Motor

Voltage / Phase / Frequency		400/3/50/46 0/3/60
Rating	kW	9.3

Noise

Road Mode	dB(A)	65
Electric Standby	dB(A)	64

TRAILER - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
Fuel level sensor		x	x
Fuel filtration and priming system		x	x
Premium AGM battery	x		
2-year warranty coverage	x		
EMI 3000: Extended maintenance interval	x		
Data capture & communications			
TrackKing - 2 Years Contract	x		
Trailer Assist EBS Harness		x	x
ServiceLog maintenance logger	x		
ComplianceLog data logger	x		
TouchLog independent data logger		x	x
Wintrac (data analysis software)			x
USB data port	x		
Load Protection			
Adjustable airflow	x		
Air Straightener (from Q4 2020)		x	x
Air Chute (from Q4 2020)		x	x
Discharge Air Control Freeze protection	x		
OptiSet Plus pre-set operating parameters (from Q4 2020)	x		
Door switches		x	x
Diesel/electric auto switching	x		
Customization			
Whisper quiet operation	x		
Solar Panel		x	x
Tail lift battery charger (from Q4 2020)		x	x
Fuel Tank (Plastic 230L or Aluminium 190L)		x	x
Secured 3rd Party accessories power connection (from Q4 2020)	x		
Ease of Use			
Proactive alarm notifications	x		
Triple Combo Display (Fuel, Alarms, Temperature indications)		x	x



A-400

The new standard in trailer refrigeration

- Electronically governed NRMM compliant 3-speed engine
- Fuel consumption monitoring
- Enhanced 2-year Connectivity contract as standard
- Flexible airflow
- Fully variable airflow independent of unit engine speed
- Quietest “standard” unit in the market

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	16 200
Capacity on engine power -20°C	W	8 300
Capacity on electrical stand by 0°C	W	13 000
Capacity on electrical stand by -20°C	W	6 700

Heating Capacity

Capacity on engine power (Outside air temperature: -20°C)	W	10 750
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Airflow

Independent from unit engine speed

Default Airflow Pull Down	m ³ /hr	5 000
Max Airflow Pull Down	m ³ /hr	5 500
Default Airflow Set Point	m ³ /hr	3 400
Max Airflow Set Point	m ³ /hr	5 000

TECHNICAL DATA

Weight

Model Standard	kg	830
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Unit Dimensions

Height	mm	2 270
Width	mm	2 076
Depth	mm	440

Engine

Maintenance Interval	hrs	3 000
Number of cylinders		4
Capacity	L	2,1

Electrical Stand by Motor

Voltage / Phase / Frequency		400/3/50/60 0/3/60
Rating	kW	9.3

Noise

Road Mode	dB(A)	65
Electric Standby	dB(A)	64

TRAILER - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
Fuel consumption monitoring	x		
Fuel level sensor		x	x
Fuel filtration and priming system		x	x
Premium AGM battery	x		
2-year warranty coverage	x		
EMI 3000: Extended maintenance interval	x		
Data capture & communications			
TrackKing - 2 Years Contract	x		
Trailer Assist EBS Harness		x	x
ServiceLog maintenance logger	x		
ComplianceLog data logger	x		
TouchLog independent data logger		x	x
Wintrac (data analysis software)			x
USB data port	x		
Load Protection			
Adjustable airflow	x		
Air Straightener (from Q4 2020)		x	x
Air Chute (from Q4 2020)		x	x
Discharge Air Control Freeze protection	x		
OptiSet Plus pre-set operating parameters (from Q4 2020)	x		
Door switches		x	x
Diesel/Electric Auto Switching + Auto Phase Correction	x		
Customization			
Chrome grille		x	
Whisper quiet operation	x		
Solar Panel		x	x
Tail lift battery charger (from Q4 2020)		x	x
Fuel Tank (Plastic 230L or Aluminium 190L)		x	x
Secured 3rd Party accessories power connection (from Q4 2020)	x		
Ease of Use			
Proactive alarm notifications	x		
Triple Combo Display (Fuel, Alarms, Temperature indications)		x	x



A-500

When your cargo deserves the best of the best

- Electronically governed NRMM compliant 4-speed engine
- Fuel consumption monitoring
- Most accurate temperature control in the market
- Fastest pulldown
- Fully variable airflow independent of unit engine speed
- Quietest high-capacity unit in the Market

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power	W	
Capacity on engine power 0°C	W	19 500
Capacity on engine power -20°C	W	10 400
Capacity on electrical stand by 0°C	W	14 600
Capacity on electrical stand by -20°C	W	8 400

Heating Capacity

Capacity on engine power (Outside air temperature: -20°C)	W	15 900
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Airflow

Independent from unit engine speed

Default Airflow Pull Down	m ³ /hr	5 500
Max Airflow Pull Down	m ³ /hr	6 000
Default Airflow Set Point	m ³ /hr	3 400
Max Airflow Set Point	m ³ /hr	5 500

TECHNICAL DATA

Weight

Model Standard	kg	830
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Unit Dimensions

Height	mm	2 270
Width	mm	2 076
Depth	mm	440

Engine

Maintenance Interval	hrs	3 000
Number of cylinders		4
Displacement		2,1

Electrical Stand by Motor

Voltage / Phase / Frequency		400/3/50/46 0/3/60
Rating	kW	9.3

Noise

Road Mode	dB(A)	67
Electric Standby	dB(A)	64

TRAILER - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
Fuel consumption monitoring	x		
Fuel level sensor		x	x
Fuel filtration and priming system		x	x
Premium AGM battery	x		
2-year warranty coverage	x		
EMI 3000: Extended maintenance interval	x		
Data capture & communications			
TrackKing - 2 Years Contract	x		
Trailer Assist EBS Harness		x	x
ServiceLog maintenance logger	x		
ComplianceLog data logger	x		
TouchLog independent data logger		x	x
Wintrac (data analysis software)			x
USB data port	x		
Load Protection			
Adjustable airflow	x		
Air Straightener (from Q4 2020)		x	x
Air Chute (from Q4 2020)		x	x
Discharge Air Control Freeze protection	x		
OptiSet Plus pre-set operating parameters (from Q4 2020)	x		
Door switches		x	x
Diesel/Electric Auto Switching + Auto Phase Correction	x		
Customization			
Whisper quiet operation	x		
Solar Panel		x	x
Tail lift battery charger (from Q4 2020)		x	x
Fuel Tank (Plastic 230L or Aluminium 190L)		x	x
Secured 3rd Party accessories power connection (from Q4 2020)	x		
Ease of Use			
Proactive alarm notifications	x		
Triple Combo Display (Fuel, Alarms, Temperature indications)		x	x



A-500 Whisper Pro

Enter the city at night

- Compliant with even the most stringent inner city noise regulations
- Electronically governed NRMM compliant 4-speed engine
- Fuel consumption monitoring
- Most accurate temperature control in the market
- Fastest pulldown
- Fully variable airflow independent of unit engine speed
- Quietest high-capacity unit in the Market

PERFORMANCE

Refrigeration Capacity High Speed

Capacity on engine power 0°C	W	18,200
Capacity on engine power -20°C	W	10,000
Capacity on electrical stand by 0°C	W	12,350
Capacity on electrical stand by -20°C	W	8,400

Refrigeration Capacity Peak Mode

Capacity on engine power 0°C		15,900
Capacity on electrical stand by 0°C		13,800
Capacity on electrical stand by -20°C		6,850

Airflow

Independent from unit engine speed

Default Airflow Pull Down	m ³ /hr	5,000
Max Airflow Pull Down	m ³ /hr	5,000
Default Airflow Set Point	m ³ /hr	3,400
Max Airflow Set Point	m ³ /hr	5,000

TECHNICAL DATA

Engine

Maintenance Interval	hrs	3 000
Number of cylinders		4
Capacity	L	2,1

Electrical Stand by Motor

Voltage / Phase / Frequency		400/3/50 460/3/60
Rating	kW	9.3

AVAILABLE EVAP CONFIGURATIONS

S-3, S-6A



A-500 Spectrum

Mastering Multi-temp

- Bespoke multi-temp A-series controller
- Set point accuracy up to 0.5°C
- Up to 20% fuel savings
- Fast temperature recovery

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	18 600
Capacity on engine power -20°C	W	10 000
Capacity on electrical stand by 0°C	W	15 400
Capacity on electrical stand by -20°C	W	7 600

Airflow

Independent from unit engine speed

Default Airflow Pull Down	m ³ /hr	5 300
Default Airflow Set Point	m ³ /hr	3 400

TECHNICAL DATA

Remote Evaporator Capacity

S3A 0/30°C		9 100
S6A 0/30°C		13 650

High Speed Diesel Capacity

Cooling Capacity HSD -20°/30°		10 400
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Generic (Boxlength, Refrigerant, ...)

Boxlength	m	15
Refrigerant		R-452A
Controller		A Series Controller

Weight

Model Standard	kg	840
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Unit Dimensions

Host Unit Height (mm)	mm	2 270
Host Unit Width (mm)	mm	2 076
Host Unit Depth (mm)	mm	440
Evaporator S3A Width (mm)		1 100
Evaporator S3A Depth (mm)		1 000
Evaporator S3A Height (mm)		200

Engine

Maintenance Interval	hrs	3 000
Number of cylinders		4
Displacement		2,1

Electrical Stand by Motor

Voltage / Phase / Frequency		400/3/50/60
		0/3/60
Rating	kW	9.3

Noise

Road Mode	dB(A)	67
Electric Standby	dB(A)	64

AVAILABLE EVAP CONFIGURATIONS

S-3A, S-4, S-6A, S4.2



A-500-e

All electric - All Advancer

Full electric architecture with proven Advancer reliability and reduced maintenance needs Engineless operations Suitable for any journey Compatible with multiple power sources Running fully carbon-neutral

PERFORMANCE

Airflow		
Independent from unit engine speed		
Default Airflow Pull Down	m ³ /hr	4 500
Default Airflow Set Point	m ³ /hr	3 400

TECHNICAL DATA

Cooling Capacity		
@ ambient temperature +37.8°C (100°F)		
Cooling Capacity 0°/30°	Watt	15 100

(Electric) Stand-by Capacity		
Cooling Capacity stand-by -20°/30°		8 000

Generic (Boxlength, Refrigerant, ...)		
Boxlength	m	15
Refrigerant		R-452A
Controller		A Series Controller

Weight		
Model Standard	kg	650

Unit Dimensions		
Height	mm	2076
Width	mm	440
Depth	mm	2 270

Electrical Stand by Motor		
Voltage / Phase / Frequency		400 / 3 / 50
Rating	kW	9.3

Noise		
Electric Standby	dB(A)	63



SLXi-300

The next generation in transport refrigeration

- Reliable operation
- Lowest emissions
- Increased shelf life
- Easier installation
- Lowest noise level
- Proven components
- Optimal data monitoring and management

Condenser Width 2 076 mm x Depth 537.4 mm x Height 2 279 mm

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	15 000
Capacity on engine power -20°C	W	7 900
Capacity on electrical stand by 0°C	W	11 900
Capacity on electrical stand by -20°C	W	6 200

Heating Capacity

On the road	W	12 000
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Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	5 000
Volume in fully loaded trailer	m ³ /hr	4 680
Discharge velocity - airtrow	m/sec	14

TECHNICAL DATA

Compressor

Model		X430 C5
Displacement	cm ³	492

Generic (Boxlength, Refrigerant, ...)

Boxlength	m	15
Refrigerant		R-452A
Controller		Smart Reefer 3

Pull down

+20°C to -20°C (min)		150
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Weight

Model 30	kg	737 (Whisper option + 85 kg)
Model 50	kg	793 (Whisper option + 85 kg)

Unit Dimensions

Height	mm	2 279
Width	mm	2 076
Depth	mm	537.4
Condenser Height	mm	2 279
Condenser Width	mm	2 076
Condenser Depth	mm	537.4

Engine

Model		TK 486V
Rating	kW	17.9
Maintenance Interval	hrs	3 000

Electrical Stand by Motor

Voltage / Phase / Frequency		400 / 3 / 50
Rating	kW	9.3

Refrigerant

Charge	kg	5
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TRAILER - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
Fuel level sensor		x	x
Premium AGM battery	x		
2-year warranty coverage	x		
EMI 3000: Extended maintenance interval	x		
Data capture & communications			
TouchPrint Printer			x
ServiceWatch maintenance logger	x		
TouchPrint data logger			x
TrackiNG? (tracking and load monitoring)	x		
Wintrac (data analysis software)			x
USB data port	x		
Load Protection			
Thermo King GDP PharmaSolutions Package		x	x
OptiSet™ Plus	x		
Produce Protection Plus (ETV & Temperature Modulation)	x		
Air Chute		x	x
Discharge Air Control Freeze protection	x		
OptiSet Plus pre-set operating parameters	x		
Door switches		x	x
Diesel/Electric Auto Switching + Auto Phase Correction	x		
Customization			
Snow Kit dealer fitted		x	x
Tail lift battery charger		x	x
Whisper kit acoustic		x	
Protection bars (ships in multiples of 3)			x
Low voltage disconnect	x		
Solar Panel		x	x
Fuel Tank (Plastic 230L or Aluminium 190L)		x	x
Shock Protection Bars			x
Ease of Use			
Kit Drop Down HMI		x	x
Rear remote control SR-3		x	x
Status light			x
Triple Combo Display (Fuel, Alarms, Temperature indications)		x	x
Fuel filtration and priming system		x	x



SLXi-400

The next generation in transport refrigeration

- Reliable operation
- Lowest emissions
- Increased shelf life
- Easier installation
- Lowest noise level
- Proven components
- Optimal data monitoring and management

Condenser Width 2 076 mm x Depth 537.4 mm x Height 2 279 mm

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	18 700
Capacity on engine power -20°C	W	10 000
Capacity on electrical stand by 0°C	W	13 200
Capacity on electrical stand by -20°C	W	7 100

Heating Capacity

On the road	W	13 300
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Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	5 500
Volume in fully loaded trailer	m ³ /hr	5 100
Discharge velocity - airtrow	m/sec	16

TECHNICAL DATA

Compressor

Model		X430 C5
Displacement	cm ³	492

Generic (Boxlength, Refrigerant, ...)

Boxlength	m	16
Refrigerant		R-452A
Controller		Smart Reefer 3

Pull down

+20°C to -20°C (min)		120
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Weight

Model 30	kg	737 (Whisper option + 85 kg)
Model 50	kg	792 (Whisper option + 85 kg)

Unit Dimensions

Height	mm	2 279
Width	mm	2 076
Depth	mm	537.4
Condenser Height	mm	2 279
Condenser Width	mm	2 076
Condenser Depth	mm	537.4

Engine

Model		TK 486V
Rating	kW	17.9
Maintenance Interval	hrs	3 000

Electrical Stand by Motor

Voltage / Phase / Frequency		400 / 3 / 50
Rating	kW	9.3

Refrigerant

Charge	kg	5.5
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TRAILER - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
Fuel level sensor		x	x
Premium AGM battery	x		
2-year warranty coverage	x		
EMI 3000: Extended maintenance interval	x		
Data capture & communications			
TouchPrint Printer			x
ServiceWatch maintenance logger	x		
TouchPrint data logger			x
TrackiNG? (tracking and load monitoring)	x		
Wintrac (data analysis software)			x
USB data port	x		
Load Protection			
Thermo King GDP PharmaSolutions Package		x	x
Produce Protection Plus (ETV & Temperature Modulation)	x		
Air Chute		x	x
Discharge Air Control Freeze protection	x		
OptiSet Plus pre-set operating parameters	x		
Door switches		x	x
Diesel/Electric Auto Switching + Auto Phase Correction	x		
Customization			
Snow Kit dealer fitted		x	x
Tail lift battery charger		x	x
Whisper kit acoustic		x	
Protection bars (ships in multiples of 3)			x
Low voltage disconnect	x		
Solar Panel		x	x
Fuel Tank (Plastic 230L or Aluminium 190L)		x	x
Ease of Use			
Kit Drop Down HMI		x	x
Rear remote control SR-3		x	x
Status light			x
Triple Combo Display (Fuel, Alarms, Temperature indications)		x	x
Fuel filtration and priming system		x	x



SLXi Spectrum

Ideal for multi-temperature transport

- Multi-temperature configuration means greater vehicle utilisation
- Enhanced SR-3 controller
- Reliable operation

Condenser Width 2 076 mm x Depth 537.4 mm x Height 2 279 mm

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	19 100
Capacity on engine power -20°C	W	9 000
Capacity on electrical stand by 0°C	W	11 200
Capacity on electrical stand by -20°C	W	6 100

Heating Capacity

On the road	W	12 000
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Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	5 000
Volume in fully loaded trailer	m ³ /hr	4 680
Discharge velocity - airtrow	m/sec	15

TECHNICAL DATA

Compressor

Model		X430 C5
Displacement	cm ³	492

Generic (Boxlength, Refrigerant, ...)

Boxlength	m	15
Refrigerant		R-452A
Controller		Smart Reefer 3

Weight

Model 30	kg	759 (Whisper option + 85 kg)
Model 50	kg	814 (Whisper option + 85 kg)

Unit Dimensions

Evaporator S2 Height	mm	200
Evaporator S2 Width	mm	760
Evaporator S2 Depth	mm	1 000
Evaporator S3 Height	mm	200
Evaporator S3 Width	mm	1 100
Evaporator S3 Depth	mm	1 000
Height	mm	2 279
Width	mm	2 076
Depth	mm	537.4
Condenser Height	mm	2 279
Condenser Width	mm	2 076
Condenser Depth	mm	537.4

Engine

Model		TK 486V
Rating	kW	17.9
Maintenance Interval	hrs	3 000

Electrical Stand by Motor

Voltage / Phase / Frequency		400 / 3 / 50
Rating	kW	9.3

Refrigerant

Charge	kg	9.5
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TRAILER - MULTI TEMPERATURE

AVAILABLE EVAP CONFIGURATIONS

S-2, S-3, S4.2

TRAILER - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
Precision Temperature Control (PTC)	x		
Fuel level sensor		x	x
Premium AGM battery	x		
2-year warranty coverage	x		
EMI 3000: Extended maintenance interval	x		
Data capture & communications			
TouchPrint Printer			x
ServiceWatch maintenance logger	x		
TouchPrint data logger			x
TrackKing? (tracking and load monitoring)	x		
Wintrac (data analysis software)			x
USB data port	x		
Load Protection			
Host Zone Null	x		
Thermo King GDP PharmaSolutions Package		x	x
Produce Protection Plus (ETV & Temperature Modulation)	x		
Air Chute		x	x
Discharge Air Control Freeze protection	x		
Door switches		x	x
Diesel/Electric Auto Switching + Auto Phase Correction	x		
Customization			
Snow Kit dealer fitted		x	x
Tail lift battery charger		x	x
Whisper kit acoustic		x	
Protection bars (ships in multiples of 3)			x
Low voltage disconnect	x		
Solar Panel		x	x
Fuel Tank (Plastic 230L or Aluminium 190L)		x	x
Evaporator guard		x	x
Ease of Use			
Kit Drop Down HMI		x	x
Rear remote control SR-3		x	x
Status light			x
Triple Combo Display (Fuel, Alarms, Temperature indications)		x	x
Fuel filtration and priming system		x	x



SLXi Spectrum Whisper Pro

Best in class for quiet operation thanks to noise-reduced components

- Complies with the most stringent noise abatement standards
- Requires no manual intervention to activate or deactivate PIEK mode
- Extensive noise containment measures within the unit design

Condenser Width 2 076 mm x Depth 537.4 mm x Height 2 279 mm

PERFORMANCE

Refrigeration Capacity High Speed

Capacity on engine power 0°C	W	18 400
Capacity on engine power -20°C	W	9 000

Refrigeration Capacity

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

Capacity on engine power 0°C	W	18 400
Capacity on engine power -20°C	W	9 000
Capacity on electrical stand by 0°C	W	10 500
Capacity on electrical stand by -20°C	W	6 100

Heating Capacity

On the road	W	12 000
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Refrigeration Capacity Peak Mode

Capacity on engine power 0°C		12 400
Capacity on engine power -20°C		5 800

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	5 000
Volume in fully loaded trailer	m ³ /hr	4 680
Discharge velocity - airtrow	m/sec	15

TECHNICAL DATA

Compressor

Model		X430 C5
Displacement	cm ³	492

Generic (Boxlength, Refrigerant, ...)

Boxlength	m	15
Refrigerant		R-452A
Controller		Smart Reefer 3

Weight

Model 30	kg	844
Model 50	kg	900

Unit Dimensions

Height	mm	2 279
Width	mm	2 076
Depth	mm	537.4
Condenser Height	mm	2 279
Condenser Width	mm	2 076
Condenser Depth	mm	537.4

Engine

Model		TK 486V
Rating	kW	17.9
Maintenance Interval	hrs	3 000

Electrical Stand by Motor

Voltage / Phase / Frequency		400 / 3 / 50
Rating	kW	9.3

Refrigerant

Charge	kg	9.5
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AVAILABLE EVAP CONFIGURATIONS

TRAILER - MULTI TEMPERATURE

S-2, S-3, S4.2

TRAILER - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
Precision Temperature Control (PTC)	x		
Fuel level sensor		x	x
Premium AGM battery	x		
2-year warranty coverage	x		
EMI 3000: Extended maintenance interval	x		
Data capture & communications			
TouchPrint Printer			x
ServiceWatch maintenance logger	x		
TouchPrint data logger			x
TrackKing? (tracking and load monitoring)	x		
Wintrac (data analysis software)			x
USB data port	x		
Load Protection			
Host Zone Null	x		
Thermo King GDP PharmaSolutions Package		x	x
Produce Protection Plus (ETV & Temperature Modulation)	x		
Air Chute		x	x
Discharge Air Control Freeze protection	x		
Door switches		x	x
Diesel/Electric Auto Switching + Auto Phase Correction	x		
Customization			
Snow Kit dealer fitted		x	x
Tail lift battery charger		x	x
Whisper kit acoustic		x	
Protection bars (ships in multiples of 3)			x
Low voltage disconnect	x		
Solar Panel		x	x
Fuel Tank (Plastic 230L or Aluminium 190L)		x	x
Evaporator guard		x	x
Ease of Use			
Kit Drop Down HMI		x	x
Rear remote control SR-3		x	x
Status light			x
Triple Combo Display (Fuel, Alarms, Temperature indications)		x	x
Fuel filtration and priming system		x	x



SLXi-300 Whisper Pro

Europe's first Stage V compliant trailer unit

- Reliable operation
- Lowest emissions
- Increased shelf life
- Easier installation
- Complies with the most stringent noise abatement standards
- Requires no manual intervention to activate or deactivate PIEK mode
- Proven components
- Optimal data monitoring and management

Condenser Width 2 076 mm x Depth 537.4 mm x Height 2 279 mm

PERFORMANCE

Refrigeration Capacity High Speed

Capacity on engine power 0°C	W	16 500
Capacity on engine power -20°C	W	9 400

Refrigeration Capacity Peak Mode

Capacity on engine power 0°C		10 800
Capacity on engine power -20°C		6 500

Refrigeration Capacity

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

Capacity on engine power 0°C	W	16 500
Capacity on engine power -20°C	W	9 400
Capacity on electrical stand by 0°C	W	10 100
Capacity on electrical stand by -20°C	W	5 800

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	5 000
Volume in fully loaded trailer	m ³ /hr	4 680
Discharge velocity - airtrow	m/sec	14

Heating Capacity

On the road	W	12 000
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TECHNICAL DATA

Compressor

Model		X430 C5
Displacement	cm ³	492

Generic (Boxlength, Refrigerant, ...)

Boxlength	m	15
Refrigerant		R-452A
Controller		Smart Reefer 3

Pull down

+20°C to -20°C (min)		130
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Weight

Model 30	kg	822
Model 50	kg	878

Unit Dimensions

Height	mm	2 279
Width	mm	2 076
Depth	mm	537.4
Condenser Height	mm	2 279
Condenser Width	mm	2 076
Condenser Depth	mm	537.4

Engine

Model		TK 486V
Rating	kW	17.9
Maintenance Interval	hrs	3 000

Electrical Stand by Motor

Voltage / Phase / Frequency		400 / 3 / 50
Rating	kW	9.3

Refrigerant

Charge	kg	5
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TRAILER - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
Fuel level sensor		x	x
Premium AGM battery	x		
2-year warranty coverage	x		
EMI 3000: Extended maintenance interval	x		
Data capture & communications			
TouchPrint Printer			x
ServiceWatch maintenance logger	x		
TouchPrint data logger			x
TrackKing? (tracking and load monitoring)	x		
Wintrac (data analysis software)			x
USB data port	x		
Load Protection			
Thermo King GDP PharmaSolutions Package		x	x
OptiSet™ Plus	x		
Produce Protection Plus (ETV & Temperature Modulation)	x		
Air Chute		x	x
Discharge Air Control Freeze protection	x		
OptiSet Plus pre-set operating parameters	x		
Door switches		x	x
Diesel/Electric Auto Switching + Auto Phase Correction	x		
Customization			
Snow Kit dealer fitted		x	x
Tail lift battery charger		x	x
Whisper kit acoustic		x	
Protection bars (ships in multiples of 3)			x
Low voltage disconnect	x		
Solar Panel		x	x
Fuel Tank (Plastic 230L or Aluminium 190L)		x	x
Ease of Use			
Kit Drop Down HMI		x	x
Rear remote control SR-3		x	x
Status light			x
Triple Combo Display (Fuel, Alarms, Temperature indications)		x	x
Fuel filtration and priming system		x	x

T-600X

DELIVERING WHAT MATTERS

- Easy to service - Engine compatible with biofuels - Full tracking connectivity - Low life cycle costs - Low weight

PERFORMANCE		
Airflow		
Independent from unit engine speed		
Airflow HSD		3 230
Heating Capacity		
Heating Capacity HSD 20°/-18°		6 220
TECHNICAL DATA		
Fuel Efficiency		
Fuel Efficiency HSD 0°/30°		3.86
Fuel Efficiency HSD -20°/30°		2.25
(Electric) Stand-by Capacity		
Cooling Capacity stand-by -20°/30°		3 140
Individual Evaporator Capacity Stand-by 0°/30°		5 700
Generic (Boxlength, Refrigerant, ...)		
Refrigerant		R-452A
Weight		
Total Unit Weight (50 Model)		436
Noise		
Sound Power Level HSD dB(A)		94.5
Sound Pressure Level HS dB(A)		66.2
Sound Pressure Level LSD dB(A)		61.7
Sound Pressure Level Stand-by dB(A)		57.8
High Speed Diesel Capacity		
Cooling Capacity HSD 0°/30°		7 610
Cooling Capacity HSD -20°/30°		3 960
Fuel Consumption		
Fuel Consumption HSD 0°/30°		1.97
Fuel Consumption HSD -20°/30°		1.76
Service Interval		
Service Interval		2 000
Unit Dimensions		
Height	mm	632
Width	mm	1 888
Depth	mm	919
Refrigerant		
Refrigerant Weight		2.9
GWP/kg		2 140
Refrigerant GWP (Total)		6 206

T-800X

DELIVERING WHAT MATTERS

- Green Tech Engine - Optimal temperature control -
- Alternative power sources - Engine compatible with biofuels -
- Easy to service

PERFORMANCE

Airflow

Independent from unit engine speed

Airflow HSD		3 040
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Heating Capacity

Heating Capacity HSD 20°/-18°		6 220
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TECHNICAL DATA

Fuel Efficiency

Fuel Efficiency HSD 0°/30°		4.10
Fuel Efficiency HSD -20°/30°		2.13

High Speed Diesel Capacity

Cooling Capacity HSD 0°/30°		8 610
Cooling Capacity HSD -20°/30°		4 080

(Electric) Stand-by Capacity

Cooling Capacity stand-by -20°/30°		3 150
Individual Evaporator Capacity Stand-by 0°/30°		6 610

Fuel Consumption

Fuel Consumption HSD 0°/30°		2.1
Fuel Consumption HSD -20°/30°		1.92

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A
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Service Interval

Service Interval		2 000
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Weight

Total Unit Weight (50 Model)		440
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Unit Dimensions

Height	mm	632
Width	mm	1 888
Depth	mm	919

Noise

Sound Power Level HSD dB(A)		94.5
Sound Pressure Level HS dB(A)		67.90
Sound Pressure Level LSD dB(A)		63.50
Sound Pressure Level Stand-by dB(A)		59.40

Refrigerant

Refrigerant Weight		3
GWP/kg		2 140
Refrigerant GWP (Total)		6 420

T-1100X

DELIVERING WHAT MATTERS

- High Cooling Capacity - Engine compatible with biofuels -
Extended Maintenance Intervall - Sustainable - Full Tracking
Connectivity

PERFORMANCE

Airflow

Independent from unit engine speed

Airflow HSD		3 720
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Heating Capacity

Heating Capacity HSD 20°/-18°		6 000
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TECHNICAL DATA

Fuel Efficiency

Fuel Efficiency HSD 0°/30°		3.51
Fuel Efficiency HSD -20°/30°		2.20

High Speed Diesel Capacity

Cooling Capacity HSD 0°/30°		11 090
Cooling Capacity HSD -20°/30°		5 900

(Electric) Stand-by Capacity

Cooling Capacity stand-by -20°/30°		4 430
Individual Evaporator Capacity Stand-by 0°/30°		8 220

Fuel Consumption

Fuel Consumption HSD 0°/30°		3.16
Fuel Consumption HSD -20°/30°		2.72

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A
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Service Interval

Service Interval		2 000
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Weight

Total Unit Weight (50 Model)		473
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Unit Dimensions

Height	mm	692/704
Width	mm	1 888
Depth	mm	919

Noise

Sound Power Level HSD dB(A)		97
Sound Pressure Level HSD dB(A)		71.7
Sound Pressure Level LSD dB(A)		65.60
Sound Pressure Level Stand-by dB(A)		62.50

Refrigerant

Refrigerant Weight		2.9
GWP/kg		2 140
Refrigerant GWP (Total)		6 206

T-1100X Spectrum

DELIVERING WHAT MATTERS

- High Cooling Capacity - Extended Maintenance Interval -
- Low weight - Engine compatible with biofuels - Sustainable

PERFORMANCE

Airflow

Independent from unit engine speed

Airflow HSD		1230/1785/2 266/2367
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Heating Capacity

Heating Capacity HSD w/ Water Heat 20°/-18°		7790/9190/ 9680/9770
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TECHNICAL DATA

Fuel Efficiency

Fuel Efficiency HSD 0°/30°		3,81
Fuel Efficiency HSD -20°/30°		2,46

High Speed Diesel Capacity

Cooling Capacity HSD 0°/30°		12 310
Cooling Capacity HSD -20°/30°		6 790

(Electric) Stand-by Capacity

Cooling Capacity stand-by -20°/30°		4 720
Individual Evaporator Capacity Stand-by 0°/30°		7 970

Fuel Consumption

Fuel Consumption HSD 0°/30°		3,23
Fuel Consumption HSD -20°/30°		2,76

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A
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Service Interval

Service Interval		2 000
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Weight

Total Unit Weight (50 Model)		430
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Unit Dimensions

Height	mm	692/704
Width	mm	1 888
Depth	mm	919

Noise

Sound Power Level HSD dB(A)		97
Sound Pressure Level HS dB(A)		71,7
Sound Pressure Level LSD dB(A)		65,6
Sound Pressure Level Stand-by dB(A)		62,5

Refrigerant

Refrigerant Weight		6.25
GWP/kg		2 140
Refrigerant GWP (Total)		13 375

T-1300X

DELIVERING WHAT MATTERS

- High Cooling Capacity - Green Tech Engine - Full Tracking Connectivity - Easy to service - Alternative power sources

PERFORMANCE		
Airflow		
Independent from unit engine speed		
Airflow HSD		3 430
Heating Capacity		
Heating Capacity HSD 20°/-18°		7 800
TECHNICAL DATA		
Fuel Efficiency		
Fuel Efficiency HSD 0°/30°		3.67
Fuel Efficiency HSD -20°/30°		2.55
(Electric) Stand-by Capacity		
Cooling Capacity stand-by -20°/30°		5 390
Individual Evaporator Capacity Stand-by 0°/30°		10 080
Generic (Boxlength, Refrigerant, ...)		
Refrigerant		R-452A
Weight		
Total Unit Weight (50 Model)		476
Noise		
Sound Power Level HSD dB(A)		97
Sound Pressure Level HS dB(A)		71.7
Sound Pressure Level LSD dB(A)		65.6
Sound Pressure Level Stand-by dB(A)		62.5
High Speed Diesel Capacity		
Cooling Capacity HSD 0°/30°		12 600
Cooling Capacity HSD -20°/30°		7 300
Fuel Consumption		
Fuel Consumption HSD 0°/30°		3.43
Fuel Consumption HSD -20°/30°		2.86
Service Interval		
Service Interval		2 000
Unit Dimensions		
Height	mm	692/704
Width	mm	1 888
Depth	mm	919
Refrigerant		
Refrigerant Weight		3.2
GWP/kg		2 140
Refrigerant GWP (Total)		6 848

T-1300X Spectrum Whisper Pro

DELIVERING WHAT MATTERS

- Extended Maintenance Intervall - High Cooling Capacity -
 Engine compatible with biofuels - Up to 60% further noise
 reduction - PIEK Certified

PERFORMANCE

Airflow

Independent from unit engine speed

Airflow HSD		1230/1785/2 266/2334
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Heating Capacity

Heating Capacity HSD 20°/-18°		7790/9190/ 9680/9770
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TECHNICAL DATA

Fuel Efficiency

Fuel Efficiency HSD 0°/30°		3,47
Fuel Efficiency HSD -20°/30°		2,44

High Speed Diesel Capacity

Cooling Capacity HSD 0°/30°		11 480
Cooling Capacity HSD -20°/30°		6 920

(Electric) Stand-by Capacity

Cooling Capacity stand-by -20°/30°		4 760
Individual Evaporator Capacity Stand-by 0°/30°		7 390

Fuel Consumption

Fuel Consumption HSD 0°/30°		3,31
Fuel Consumption HSD -20°/30°		2,84

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A
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Service Interval

Service Interval		2 000
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Weight

Total Unit Weight (50 Model)		450
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Unit Dimensions

Height	mm	704
Width	mm	1 888
Depth	mm	919

Noise

Sound Power Level HSD dB(A)		92,6
Sound Pressure Level HS dB(A)		64,4
Sound Pressure Level LSD dB(A)		56
Sound Pressure Level Stand-by dB(A)		59,3

Refrigerant

Refrigerant Weight		6,25
GWP/kg		2 140
Refrigerant GWP (Total)		13 375

E-1200e (E-2 + E-2)

The electric unit your truck can't resist

Full electric refrigeration units for Large Trucks

- 100% electric, 100% compatible
- Lean design with lower maintenance
- City Center Accessibility
- Real-time connectivity

PERFORMANCE

Refrigeration Capacity

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

Model	W	Capacity
Cooling Capacity High Speed 0°/30°	W	10 030
Cooling Capacity High Speed -20°/30°	W	6 150
Cooling Capacity High Speed 0°/30° - Whisper Pro	W	8 500
Cooling Capacity High Speed -20°/30° - Whisper Pro	W	5 100
Cooling Capacity Whisper Pro -20°/30°	W	5 100
Cooling Capacity Whisper Pro 0°/30°	W	8 500

Heating Capacity

Heating Capacity 18°/-18°	W	7 200
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Airflow

Independent from unit engine speed

Airflow	m ³ /hr	2 670
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TECHNICAL DATA

Weight

Total Unit Weight (30 Model)		293
Total Unit Weight (50 Model)		293
Total unit weight without electric stand-by	kg	258
Alternator (engine driven vehicles only)	kg	60

Noise

Sound Pressure Level HS dB(A)		63.9
Sound power level HS/Stand-by	dB(A)	91
Sound power level Whisper Pro	dB(A)	62
Sound pressure level Whisper Pro	dB(A)	62

Unit Dimensions

Height	mm	612
Width	mm	2 142
Depth	mm	563

Refrigerant

Refrigerant Type		R-452A
Charge	kg	4,2
GWP/kg		1 945

LARGE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Data capture & communications			
TrackKing - 2 Years Contract	x		
TouchLog independent data logger			x
Customization			
Extended harnesses		x	

E-1600e (E-3 + E-3)

The electric unit your truck can't resist

Full electric refrigeration units for Large Truck

- 100% electric, 100% compatible
- Sustainable
- Highly efficient
- PeaK compliant

PERFORMANCE

Refrigeration Capacity

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

Cooling Capacity High Speed 0°/30°	W	13 600
Cooling Capacity High Speed -20°/30°	W	8 270
Cooling Capacity High Speed 0°/30° - Whisper Pro	W	11 000
Cooling Capacity High Speed -20°/30° - Whisper Pro	W	6 900
Cooling Capacity Whisper Pro -20°/30°	W	6 900
Cooling Capacity Whisper Pro 0°/30°	W	11 000

Heating Capacity

Heating Capacity 18°/-18°	W	12 000
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Airflow

Independent from unit engine speed

Airflow	m ³ /hr	4 240
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TECHNICAL DATA

Weight

Total Unit Weight (30 Model)		315
Total Unit Weight (50 Model)		315
Total unit weight without electric stand-by	kg	280
Alternator (engine driven vehicles only)	kg	60

Noise

Sound Pressure Level HS dB(A)		63.9
Sound power level HS/Stand-by	dB(A)	91
Sound power level Whisper Pro	dB(A)	62
Sound pressure level Whisper Pro	dB(A)	62

Unit Dimensions

Height	mm	612
Width	mm	2 142
Depth	mm	563

Refrigerant

Refrigerant Type		R-452A
Charge	kg	4,5
GWP/kg		1 945

AVAILABLE EVAP CONFIGURATIONS

E-3 + E-3

LARGE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Data capture & communications			
TrackKing - 2 Years Contract	x		
TouchLog independent data logger			x
Customization			
Extended harnesses		x	

T-600X

DELIVERING WHAT MATTERS

- Easy to service - Engine compatible with biofuels - Full tracking connectivity - Low life cycle costs - Low weight

PERFORMANCE

Airflow

Independent from unit engine speed

Airflow HSD		3 230
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Heating Capacity

Heating Capacity HSD 20°/-18°		6 220
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TECHNICAL DATA

Fuel Efficiency

Fuel Efficiency HSD 0°/30°		3.86
Fuel Efficiency HSD -20°/30°		2.25

High Speed Diesel Capacity

Cooling Capacity HSD 0°/30°		7 610
Cooling Capacity HSD -20°/30°		3 960

(Electric) Stand-by Capacity

Cooling Capacity stand-by -20°/30°		3 140
Individual Evaporator Capacity Stand-by 0°/30°		5 700

Fuel Consumption

Fuel Consumption HSD 0°/30°		1.97
Fuel Consumption HSD -20°/30°		1.76

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A
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Service Interval

Service Interval		2 000
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Weight

Total Unit Weight (50 Model)		436
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Unit Dimensions

Height	mm	632
Width	mm	1 888
Depth	mm	919

Noise

Sound Power Level HSD dB(A)		94.5
Sound Pressure Level HS dB(A)		66.2
Sound Pressure Level LSD dB(A)		61.7
Sound Pressure Level Stand-by dB(A)		57.8

Refrigerant

Refrigerant Weight		2.9
GWP/kg		2 140
Refrigerant GWP (Total)		6 206

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



Condenser Width 1592 mm x Depth 523 mm x Height 458.7 mm

V-800

The most powerful vehicle powered range

The V-800 Series from Thermo King comprises two-piece split units designed for fresh, frozen and deep frozen applications on trucks. The road compressor is powered by the vehicle's engine and the electric stand-by compressor is powered by an electric motor. The V-800 Series is equipped with a new swash plate compressor and range of drive kits for ease of installation.

- New swash plate compressor for ease of installation
- Most powerful range in both cooling and heating modes
- User friendly and advanced controller: Direct Smart Reefer
- Environmentally friendly
- Superior performance
- A full range available

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	5 175
Capacity on electrical stand by 0°C	W	4 920

TECHNICAL DATA

Compressor

Model		QP21
Displacement	cm ³	215
Number of cylinders		10

Weight

Condenser w/o electric stand-by	kg	100
Condenser with electric stand-by	kg	160
Evaporator	kg	35
Swash Plate Compressor	kg	8.5

Unit Dimensions

Height	mm	458
Width	mm	1592
Depth	mm	523
Condenser Height	mm	458.7
Condenser Width	mm	1592
Condenser Depth	mm	523
Evaporator Height	mm	232
Evaporator Width	mm	1650
Evaporator Depth	mm	592
In-cab Controls Height	mm	46
In-cab Controls Width	mm	135
In-cab Controls Depth	mm	25

Refrigerant

Charge	kg	10: 4.55 --
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Generic (Boxlength, Refrigerant, ...)

Box volume	m ³	44
Refrigerant		R-134a
Airflow	m ³ /hr	2 680
Controller		DSR III

Defrost

Defrost		Automatic hot gas defrost
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Electrical Stand by Motor

Voltage / Phase / Frequency		400/3/50 -- 400/3/60 -- 230/3/50 -- 230/3/60
Rating	kW	8.2

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

20: 4.85

AVAILABLE EVAP CONFIGURATIONS

ES150, ES400, ES600, ES800

DIRECT DRIVE TRUCK - SINGLE 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 hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Door switches		x	

SELF POWERED TRUCK - SINGLE TEMPERATURE



Condenser Width 1864 mm x Depth 588 mm x Height 536 mm

V-1000

A revolution in large truck refrigeration technology

- Advanced vehicle drive technology
- No diesel and CO₂ emissions from the unit
- Low noise
- Fuel consumption is less than an equivalent self-powered system
- Lower maintenance costs due to the absence of a diesel engine

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	6 445
Capacity on electrical stand by 0°C	W	6 015

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	3 540
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TECHNICAL DATA

Compressor

Model		QP25
Displacement	cm ³	250
Number of cylinders		10

Weight

Condenser w/o electric stand-by	kg	96
Condenser with electric stand-by	kg	205
Evaporator	kg	50
Swash Plate Compressor	kg	8.7

Unit Dimensions

ES-1000 width	mm	1850
ES-1000 height	mm	233
ES-1000 depth	mm	664
ES-800 width	mm	1650
ES-800 height	mm	232
ES-800 depth	mm	592
Condenser Height	mm	536
Condenser Width	mm	1864
Condenser Depth	mm	588
Evaporator ES600 MAX Width	mm	1330.5
Evaporator ES600 MAX Depth	mm	592
Evaporator ES500 MAX Height	mm	240
Evaporator ES300 MAX Height	mm	178
Evaporator ES300 MAX Width	mm	985
Evaporator ES300 MAX Depth	mm	551
Evaporator ES150 MAX Height	mm	187
Evaporator ES150 MAX Width	mm	755
Evaporator ES150 MAX Depth	mm	540

Refrigerant

Charge	kg	10: 5.4 // 20: 5.7
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Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-134a
Controller		DSR III

Defrost

Defrost		Automatic hot gas defrost
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Electrical Stand by Motor

Voltage / Phase / Frequency		400/3/50 - 230/3/50 - 400/3/60 - 230/3/60
Rating	kW	8,8

SELF POWERED TRUCK - SINGLE TEMPERATURE

AVAILABLE EVAP CONFIGURATIONS

ES1000, ES150, ES300, ES600, ES800

E-1200e SPECTRUM

The electric unit your truck can't resist

Full electric refrigeration units for Large Trucks

- Full electric multitemperature distribution
- Low weight for reduced fuel consumption
- Lean design with lower maintenance
- Real-time connectivity

PERFORMANCE

Refrigeration Capacity

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

Configuration	W	Capacity (W)
Cooling Capacity High Speed 0°/30°	W	11 700
Cooling Capacity High Speed -20°/30°	W	6 750
Cooling Capacity High Speed 0°/30° - Whisper Pro	W	9 600
Cooling Capacity High Speed -20°/30° - Whisper Pro	W	5 300
Cooling Capacity Whisper Pro -20°/30°	W	5 300
Cooling Capacity Whisper Pro 0°/30°	W	9 600

Heating Capacity

Configuration	W	Capacity (W)
Heating Capacity 18°/-18° E-2	W	3 600
Heating Capacity 18°/-18° E-3	W	6 000
Heating Capacity 18°/-18° E-4 (E-2 + E-2)	W	7 200

Airflow

Independent from unit engine speed

Configuration	Unit	Value
Airflow E-2 (@ 0 Pa static pressure)	m ³ /hr	1 350
Airflow E-3 (@ 0 Pa static pressure)	m ³ /hr	2 150
Airflow E-4 (E-2+E-2) (@ 0 Pa static pressure)	m ³ /hr	2 670

TECHNICAL DATA

Weight

Configuration	Unit	Weight (kg)
Total Unit Weight (30 Model)		235
Total Unit Weight (50 Model)		235
Total unit weight without electric stand-by	kg	200
Alternator (engine driven vehicles only)	kg	60
Evaporator E-2	kg	29
Evaporator E-3	kg	40
Evaporator E 4 (E-2 + E-2)	kg	58

Noise

Configuration	Unit	Value (dB(A))
Sound Pressure Level HS		63.9
Sound power level HS/Stand-by	dB(A)	91
Sound power level Whisper Pro	dB(A)	62
Sound pressure level Whisper Pro	dB(A)	62

Unit Dimensions

Configuration	Unit	Value
Height	mm	612
Width	mm	2 142
Depth	mm	563
Evaporator E-2 (width x depth x height)	mm	700x995x195
Evaporator E-3 (width x depth x height)	mm	1095x995x195
Evaporator E-4 (E-2 + E-2) (width x depth x height)	mm	1450x995x195

Refrigerant

Configuration	Unit	Value
Refrigerant Type		R-452A
Charge	kg	5
GWP/kg		1 945

AVAILABLE EVAP CONFIGURATIONS

E-2, E-3, E-4 (E-2+E-2)

LARGE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Data capture & communications			
TrackIng - 2 Years Contract	x		
TouchLog independent data logger			x
Customization			
Extended harnesses		x	

E-1600e SPECTRUM

The electric unit your truck can't resist

Full electric refrigeration units for Large Trucks

- 100% electric, 100% compatible
- Multi-Temp Distribution
- Inverter technology for variable speed and fast pulldown
- Lean design with lower maintenance
- Real-time connectivity

PERFORMANCE

Refrigeration Capacity

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

Configuration	W	Capacity
Cooling Capacity High Speed 0°/30°	W	15 430
Cooling Capacity High Speed -20°/30°	W	9 470
Cooling Capacity High Speed 0°/30° - Whisper Pro	W	11 200
Cooling Capacity High Speed -20°/30° - Whisper Pro	W	7 300
Cooling Capacity Whisper Pro -20°/30°	W	7 300
Cooling Capacity Whisper Pro 0°/30°	W	11 200

Heating Capacity

Configuration	W	Capacity
Heating Capacity 18°/-18° E-2	W	3 600
Heating Capacity 18°/-18° E-3	W	6 000
Heating Capacity 18°/-18° E-4 (E-2 + E-2)	W	7 200

Airflow

Independent from unit engine speed

Configuration	Unit	Value
Airflow E-2 (@ 0 Pa static pressure)	m ³ /hr	1 350
Airflow E-3 (@ 0 Pa static pressure)	m ³ /hr	2 150
Airflow E-4 (E-2+E-2) (@ 0 Pa static pressure)	m ³ /hr	2 670

TECHNICAL DATA

Weight

Configuration	Unit	Weight
Total Unit Weight (30 Model)		235
Total unit weight with electric stand-by	kg	235
Total unit weight without electric stand-by	kg	200
Alternator (engine driven vehicles only)	kg	60
Evaporator E-2	kg	29
Evaporator E-3	kg	40
Evaporator E 4 (E-2 + E-2)	kg	58

Unit Dimensions

Configuration	Unit	Value
Height	mm	612
Width	mm	2 142
Depth	mm	563
Evaporator E-2 (width x depth x height)	mm	700x995x195
Evaporator E-3 (width x depth x height)	mm	1095x995x195
Evaporator E-4 (E-2 + E-2) (width x depth x height)	mm	1450x995x195

Noise

Configuration	Unit	Value
Sound power level HS/Stand-by	dB(A)	93
Sound power level Whisper Pro	dB(A)	62
Sound pressure level Whisper Pro	dB(A)	62

Refrigerant

Configuration	Unit	Value
Refrigerant Type		R-452A
Charge	kg	6
GWP/kg		1 945

AVAILABLE EVAP CONFIGURATIONS

E-2, E-3, E-4 (E-2+E-2)

LARGE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Data capture & communications			
TrackIng - 2 Years Contract	x		
TouchLog independent data logger			x
Customization			
Extended harnesses		x	

SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE



CONDENSER Width 1608 mm x Depth 721 mm x Height 636 mm

UT-R Spectrum

Ideal for multi-temperature urban distribution

Benchmark reliability in tough distribution operations The ability to carry products at three different temperatures in one vehicle Fast pull-down and temperature recovery Full two-year warranty Advanced TSR-3 controller Low fuel consumption Whisper-quiet operation for urban access R-452A refrigerant delivers reduced Global Warming Potential (GWP) for a 45% reduction in environmental impact Multi-temperature configuration means greater vehicle utilisation and therefore fewer vehicles on the road Clean, dependable GreenTech™ engine cuts exhaust emissions Bio-fuel and HVO compatibility

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	11300 W
Capacity on engine power -20°C	6400 W
Capacity on electrical stand by 0°C	10300 W
Capacity on electrical stand by -20°C	4500 W

Airflow

INDEPENDENT FROM UNIT ENGINE SPEED

Volume @ 0 Pa static pressure	S-2: 1420 / S-3: 2350 / S-4.2: 2550 / S-4: 2840 m ³ /hr
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TECHNICAL DATA

Features

Noise level	101 dB(A) guaranteed sound power level
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Controller

General	TSR-3
---------	-------

(Electric) Stand-by Capacity

Individual Evaporator Capacity Stand-by 0°/30°	10300
--	-------

Compressor

Model	X430 C5
Displacement	489 cm ³
Number of cylinders	4

Generic (Boxlength, Refrigerant, ...)

Refrigerant	R-452A
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Weight

Condenser	479 kg
Installation kit	10.8 kg
Evaporator	S-2: 43 / S-3: 52 / S-4.2: 54 kg

Defrost

Defrost	Automatic hot gas defrost
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Unit Dimensions

Evaporator S2 Height	200 mm
Evaporator S2 Width	760 mm
Evaporator S2 Depth	1000 mm
Evaporator S3 Height	200 mm
Evaporator S3 Width	1100 mm
Evaporator S3 Depth	1000 mm
Condenser Height	636 mm
Condenser Width	1608 mm

SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE

Condenser Depth	721 mm
Evaporator Height	S-4.2: 152 mm
Evaporator Width	S-4.2: 1250 mm
Evaporator Depth	S-4.2: 988 mm

Engine		Electrical Stand by Motor	
Model	TK 376	Voltage / Phase / Frequency	230-400V / 3 Ph / 50-60Hz
Rating	14.6 kW	Rating	7.5 kW
Maintenance Interval	2000 hrs		
Number of cylinders	3		
Displacement	1116		

Noise		Refrigerant	
Road Mode	73.4 dB(A)	Charge	8.5 kg
Electric Standby	63.4 dB(A)		



Condenser Width 1 608 mm x Depth 721 mm x Height 636 mm

UT-R Extreme

For truck and highloader undermount applications at extreme ambients

Benchmark reliability in the high ambient environments
 Proven fresh performance at up to 55°C and beyond Faster full-down and temperature recovery Full two-year warranty
 Market leading service and accessibility Easy, low-cost installation Advanced TSR-3 controller Low fuel consumption
 R-134a refrigerant delivering positive environmental impact increased over 60% with reduced GWP (Global Warming Potential)
 Low fuel consumption Low engine emissions with GreenTech™ engine Reduced R-134a refrigerant charge
 Whisper-quiet operation Bio-fuel and HVO compatibility

PERFORMANCE

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	3 350
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TECHNICAL DATA

Refrigeration Capacity High Ambient Temperature (55°C)

Capacity on engine power 0°C	W	7 100
Capacity on engine power 20°C	W	12 900

Features

Noise level		101 dB(A) guaranteed sound power level
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Controller

General		TSR-3
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Compressor

Model		X430 C5
Displacement	cm ³	489
Number of cylinders		4

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A
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Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	63.5

Defrost

Defrost		Automatic hot gas defrost
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Unit Dimensions

E-type Evaporator height	mm	302
E-type Evaporator width	mm	1 615
E-type Evaporator depth	mm	638
Condenser Height	mm	636
Condenser Width	mm	1 608
Condenser Depth	mm	721

Engine

Model		TK 376
Rating	kW	14.6
Maintenance Interval	hrs	2 000
Number of cylinders		3
Displacement		1 116

Electrical Stand by Motor

Voltage / Phase / Frequency		230-400V / 3 Ph / 50-60Hz
Rating	kW	7.5

Noise

Road Mode	dB(A)	73.4
Electric Standby	dB(A)	63.4

Refrigerant

Charge	kg	4.6
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Condenser Width 1592 mm x Depth 523 mm x Height 458.7 mm

V-800 MAX Spectrum

Superior temperature control

This V-800 MAX Spectrum unit completes the Thermo King multi-temp application offering. It is the most powerful unit in the V-Series Spectrum platform and it is appropriate for trucks up to seven metres long. It offers a choice of three different evaporator configurations (ES400 + ES400, ES600 + 2 x ES150 and ES600 + ES150) to address a variety of customer application and to meet the requirements of two big compartment boxes, be it transversal or longitudinal configurations alike. The V-800 MAX Spectrum is the right alternative for city distribution in big trucks up to 7 metres body lengths.

- New swash plate compressor for ease of installation
- Most powerful range in both cooling and heating modes
- User friendly and advanced controller: Direct Smart Reefer
- Environmentally friendly
- Superior performance
- A full range available
- For multi-temperature distribution

PERFORMANCE

Refrigeration Capacity: Individual Cooling Capacity

Capacity on engine power ES400 MAX 0°C	W	5 740
Capacity on engine power ES400 MAX -20°C	W	3 300
Capacity on engine power ES600 MAX 0°C	W	6 765
Capacity on engine power ES600 MAX -20°C	W	3 460
Capacity on engine power ES150 MAX 0°C	W	3 975
Capacity on engine power ES150 MAX -20°C	W	2 270
Capacity on engine power 2 X ES150 MAX 0°C	W	5 640
Capacity on engine power 2 X ES150 MAX -20°C	W	2 995
Capacity on electrical stand by ES400 MAX 0°C	W	5 300
Capacity on electrical stand by ES400 MAX -20°C	W	3 010
Capacity on electrical stand by ES600 MAX 0°C	W	6 305
Capacity on electrical stand by ES600 MAX -20°C	W	3 110
Capacity on electrical stand by ES150 MAX 0°C	W	3 850
Capacity on electrical stand by ES150 MAX -20°C	W	2 165
Capacity on electrical stand by 2 X ES150 MAX 0°C	W	5 045
Capacity on electrical stand by 2 X ES150 MAX -20°C	W	2 705

Airflow

Independent from unit engine speed

ES400+ES400	m ³ /hr	1760x2
ES600 MAX+ES150MAX	m ³ /hr	2260+890
ES600 MAX + 2XES150MAX	m ³ /hr	2260+(2x890)

Refrigeration Capacity

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

Capacity on engine power -20°C	W	4 395
Capacity on engine power ES400 MAX+ES400 MAX -20°C	W	4 395
Capacity on engine power ES600 MAX+ES150MAX -20°C	W	3 850
Capacity on engine power ES600 MAX + 2 X ES150MAX -20°C	W	4 300
Capacity on electrical stand by -20°C	W	3 595
Capacity on electrical stand by ES400 MAX+ES400 MAX -20°C	W	3 595
Capacity on electrical stand by ES600 MAX+ES150MAX -20°C	W	3 385
Capacity on electrical stand by ES600 MAX + 2 X ES150MAX -20°C	W	3 595

Heating Capacity

On the road	W	4 500
Electric Stand By Operation	W	4 000

TECHNICAL DATA

Compressor

Model	QP21
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Generic (Boxlength, Refrigerant, ...)

Box volume	m ³	40
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DIRECT DRIVE TRUCK - MULTI TEMPERATURE

Displacement	cm ³	215
Number of cylinders		10

Refrigerant		R-404A/R-452A
Airflow	m ³ /hr	1 760
Controller		DSR III

Weight

Condenser w/o electric stand-by	kg	100
Condenser with electric stand-by	kg	160
Evaporator ES600 MAX	kg	28
Evaporator ES400 MAX	kg	20
Evaporator 2 X ES150 MAX	kg	25
Evaporator ES150 MAX	kg	12.5
Swash Plate Compressor	kg	8.5

Defrost

Defrost		Automatic hot gas defrost
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Unit Dimensions

Height	mm	458.7
Width	mm	1 592
Depth	mm	523
Condenser Height	mm	458.7
Condenser Width	mm	1 592
Condenser Depth	mm	523
Evaporator ES600 MAX Height	mm	240
Evaporator ES600 MAX Width	mm	1 330.5
Evaporator ES600 MAX Depth	mm	592
Evaporator ES400 MAX Height	mm	236
Evaporator ES400 MAX Width	mm	1 080
Evaporator ES400 MAX Depth	mm	592
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

Electrical Stand by Motor

Voltage / Phase / Frequency		400/3/50 -- 230/3/50 -- -400/3/60 - -230/3/60
Rating	kW	8.2

Refrigerant

Charge	kg	ES400+ES400: 5.2 -- ES600+ES150: 5.0 -- ES600+2XE S150: 5.15
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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	
Harness Extension 2m/4m/6m		x	
Door switches		x	

V-1000 Spectrum

A revolution in large truck refrigeration technology

- Advanced vehicle drive technology
- No diesel and CO2 emissions from the unit
- Low noise
- Fuel consumption is less than an equivalent self-powered system
- Lower maintenance costs due to the absence of a diesel engine

PERFORMANCE

Refrigeration Capacity: Individual Cooling Capacity

Capacity on engine power ES150 0°C	W	3 995
Capacity on engine power ES600 MAX 0°C	W	8 500
Capacity on engine power ES600 MAX -20°C	W	4 370
Capacity on engine power ES150 MAX -20°C	W	2 300
Capacity on engine power 2 X ES150 MAX 0°C	W	5 755
Capacity on engine power 2 X ES150 MAX -20°C	W	3 125
Capacity on electrical stand by ES600 MAX 0°C	W	8 100
Capacity on electrical stand by ES600 MAX -20°C	W	4 045
Capacity on electrical stand by ES150 MAX 0°C	W	3 975
Capacity on electrical stand by ES150 MAX -20°C	W	2 040
Capacity on electrical stand by ES300 MAX 0°C	W	4 590
Capacity on electrical stand by ES300 MAX -20°C	W	2 170

Refrigeration Capacity

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

ES600 MAX + ES600MAX	m ³ /hr	5 225
ES800 MAX + ES300MAX	m ³ /hr	4 830
Capacity On Engine Power ES800 0°C	W	8 380
Capacity On Engine Power ES800 -20°C	W	4 660
Capacity On Electrical Standby ES800 MAX 0°C	W	8 125
Capacity On Electrical Standby ES800 MAX -20°C	W	4 190
Capacity on engine power ES600 MAX+ES150MAX -20°C	W	4 610
Capacity on engine power ES600 MAX + 2 X ES150MAX -20°C	W	5 035
Capacity on electrical stand by ES600 MAX+ES150MAX 0°C	W	4 445
Capacity on electrical stand by ES600 MAX + 2 X ES150MAX -20°C	W	4 610

Airflow

Independent from unit engine speed

ES600 MAX + ES600MAX	m ³ /hr	2491 x 2
ES800 MAX + ES300 MAX	m ³ /hr	2730 + 1643
ES600 MAX+ES150MAX	m ³ /hr	2491+1396
ES600 MAX + 2XES150MAX	m ³ /hr	2491+ (2x1396)

Heating Capacity

On the road	W	5 000
Electric Stand By Operation	W	5 000

TECHNICAL DATA

Compressor

Model		QP25
Displacement	cm ³	250
Number of cylinders		10

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-404A/R-452A
Controller		DSR III

Weight

Evaporator ES800 MAX	kg	35
Condenser w/o electric stand-by	kg	96
Condenser with electric stand-by	kg	205
Evaporator ES600 MAX	kg	28
Evaporator ES300 MAX	kg	18
Evaporator 2 X ES150 MAX	kg	25
Evaporator ES150 MAX	kg	12.5

Defrost

Defrost		Automatic hot gas defrost
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Unit Dimensions

Electrical Stand by Motor

SELF POWERED TRUCK - MULTI TEMPERATURE

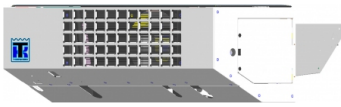
ES-1000 width	mm	1850
ES-1000 height	mm	233
ES-1000 depth	mm	664
ES-800 width	mm	1650
ES-800 height	mm	232
ES-800 depth	mm	592
Condenser Height	mm	536
Condenser Width	mm	1864
Condenser Depth	mm	588
Evaporator ES600 MAX Height	mm	240
Evaporator ES600 MAX Width	mm	1330.5
Evaporator ES600 MAX Depth	mm	592
Evaporator ES300 MAX Height	mm	178
Evaporator ES300 MAX Width	mm	985
Evaporator ES300 MAX Depth	mm	551
Evaporator ES150 MAX Height	mm	187
Evaporator ES150 MAX Width	mm	755
Evaporator ES150 MAX Depth	mm	540

Refrigerant

Charge	kg	30: 5.9 50: 6.2
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Voltage / Phase / Frequency		400/3/50 - 230/3/50 - 400/3/60 - 230/3/60
Rating	kW	8.8

SELF POWERED TRUCK - INTERMODAL



Condenser Width 1880 mm x Depth 735 mm x Height 630 mm

RT-800R

Purpose-designed solutions for Intermodal applications

- The ability to move temperature sensitive cargo in the same reefer box by sea, rail and road
- High performance diesel engines are supported by electric standby for use on board ship or overnight, giving seamless autonomous operation

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	7 800
Capacity on engine power -20°C	W	4 200

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	2 700
Discharge velocity - airthrow	m/sec	5.2

TECHNICAL DATA

Compressor

Model		X214
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Generic (Boxlength, Refrigerant, ...)

Boxlength	m	6.5 - 7.5
Refrigerant		R-404A/R-452A
Airflow	m ³ /hr	2 700
Controller		Truck Smart Reefer 3

Weight

Model 30	kg	451
Model 50	kg	484

Unit Dimensions

Height	mm	630
Width	mm	1 880
Depth	mm	735
Condenser Height	mm	630
Condenser Width	mm	1 880
Condenser Depth	mm	735

Engine

Model		TK 370
Maintenance Interval	hrs	2 000
no. of cylinders/displacement	cm ³	TK 370 / 3 / 855

Electrical Stand by Motor

Voltage / Phase / Frequency		400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60
Rating	kW	5.4

T-1200R Intermodal

Purpose-designed solutions for Intermodal applications

- The ability to move temperature sensitive cargo in the same reefer box by sea, rail and road
- High performance diesel engines are supported by electric standby for use on board ship or overnight, giving seamless autonomous operation

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	12 500
Capacity on engine power -20°C	W	6 800

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	3 300
Discharge velocity - airtrow	m/sec	6.4

TECHNICAL DATA

Compressor

Model		X430 C5
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Generic (Boxlength, Refrigerant, ...)

Boxlength	m	13.6
Refrigerant		R-404A/R-452A
Airflow	m ³ /hr	3 300
Controller		Truck Smart Reefer 3

Weight

Model 50	kg	517
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Unit Dimensions

Height	mm	688
Width	mm	1 887
Depth	mm	919
Condenser Height	mm	688 (Whisper option 704)
Condenser Width	mm	1 887
Condenser Depth	mm	919

Engine

Model		TK 376
Maintenance Interval	hrs	2 000
no. of cylinders/displacement	cm ³	TK 376 / 3 / 1115

Electrical Stand by Motor

Voltage / Phase / Frequency		400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60
Rating	kW	7.5

SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE



CONDENSER Width 1608 mm x Depth 721 mm x Height 636 mm

UT-R Spectrum

Ideal for multi-temperature urban distribution

Benchmark reliability in tough distribution operations The ability to carry products at three different temperatures in one vehicle Fast pull-down and temperature recovery Full two-year warranty Advanced TSR-3 controller Low fuel consumption Whisper-quiet operation for urban access R-452A refrigerant delivers reduced Global Warming Potential (GWP) for a 45% reduction in environmental impact Multi-temperature configuration means greater vehicle utilisation and therefore fewer vehicles on the road Clean, dependable GreenTech™ engine cuts exhaust emissions Bio-fuel and HVO compatibility

PERFORMANCE

Refrigeration Capacity		Airflow	
System net cooling capacity under A.T.P. conditions at 30 °C ambient		INDEPENDENT FROM UNIT ENGINE SPEED	
Capacity on engine power 0°C	11300 W	Volume @ 0 Pa static pressure	S-2: 1420 / S-3: 2350 / S-4.2: 2550 / S-4: 2840 m ³ /hr
Capacity on engine power -20°C	6400 W		
Capacity on electrical stand by 0°C	10300 W		
Capacity on electrical stand by -20°C	4500 W		

TECHNICAL DATA

Features		Controller	
Noise level	101 dB(A) guaranteed sound power level	General	TSR-3
(Electric) Stand-by Capacity		Compressor	
Individual Evaporator Capacity Stand-by 0°/30°	10300	Model	X430 C5
		Displacement	489 cm ³
		Number of cylinders	4
Generic (Boxlength, Refrigerant, ...)		Weight	
Refrigerant	R-452A	Condenser	479 kg
		Installation kit	10.8 kg
		Evaporator	S-2: 43 / S-3: 52 / S-4.2: 54 kg
Defrost		Unit Dimensions	
Defrost	Automatic hot gas defrost	Evaporator S2 Height	200 mm
		Evaporator S2 Width	760 mm
		Evaporator S2 Depth	1000 mm
		Evaporator S3 Height	200 mm
		Evaporator S3 Width	1100 mm
		Evaporator S3 Depth	1000 mm
		Condenser Height	636 mm
		Condenser Width	1608 mm

SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE

Condenser Depth	721 mm
Evaporator Height	S-4.2: 152 mm
Evaporator Width	S-4.2: 1250 mm
Evaporator Depth	S-4.2: 988 mm

Engine		Electrical Stand by Motor	
Model	TK 376	Voltage / Phase / Frequency	230-400V / 3 Ph / 50-60Hz
Rating	14.6 kW	Rating	7.5 kW
Maintenance Interval	2000 hrs		
Number of cylinders	3		
Displacement	1116		

Noise		Refrigerant	
Road Mode	73.4 dB(A)	Charge	8.5 kg
Electric Standby	63.4 dB(A)		

UT-1000R

TECHNICAL DATA

(Electric) Stand-by Capacity

Individual Evaporator Capacity Stand-by 0°/30°		8 400
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SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE

UT-1200 E

SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE



CONDENSER Width 1608 mm x Depth 721 mm x Height 636 mm

UT-R Spectrum

Ideal for multi-temperature urban distribution

Benchmark reliability in tough distribution operations The ability to carry products at three different temperatures in one vehicle Fast pull-down and temperature recovery Full two-year warranty Advanced TSR-3 controller Low fuel consumption Whisper-quiet operation for urban access R-452A refrigerant delivers reduced Global Warming Potential (GWP) for a 45% reduction in environmental impact Multi-temperature configuration means greater vehicle utilisation and therefore fewer vehicles on the road Clean, dependable GreenTech™ engine cuts exhaust emissions Bio-fuel and HVO compatibility

PERFORMANCE

Refrigeration Capacity		Airflow	
System net cooling capacity under A.T.P. conditions at 30 °C ambient		INDEPENDENT FROM UNIT ENGINE SPEED	
Capacity on engine power 0°C	11300 W	Volume @ 0 Pa static pressure	S-2: 1420 / S-3: 2350 / S-4.2: 2550 / S-4: 2840 m ³ /hr
Capacity on engine power -20°C	6400 W		
Capacity on electrical stand by 0°C	10300 W		
Capacity on electrical stand by -20°C	4500 W		

TECHNICAL DATA

Features		Controller	
Noise level	101 dB(A) guaranteed sound power level	General	TSR-3
(Electric) Stand-by Capacity		Compressor	
Individual Evaporator Capacity Stand-by 0°/30°	10300	Model	X430 C5
		Displacement	489 cm ³
		Number of cylinders	4
Generic (Boxlength, Refrigerant, ...)		Weight	
Refrigerant	R-452A	Condenser	479 kg
		Installation kit	10.8 kg
		Evaporator	S-2: 43 / S-3: 52 / S-4.2: 54 kg
Defrost		Unit Dimensions	
Defrost	Automatic hot gas defrost	Evaporator S2 Height	200 mm
		Evaporator S2 Width	760 mm
		Evaporator S2 Depth	1000 mm
		Evaporator S3 Height	200 mm
		Evaporator S3 Width	1100 mm
		Evaporator S3 Depth	1000 mm
		Condenser Height	636 mm
		Condenser Width	1608 mm

SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE

Condenser Depth	721 mm
Evaporator Height	S-4.2: 152 mm
Evaporator Width	S-4.2: 1250 mm
Evaporator Depth	S-4.2: 988 mm

Engine		Electrical Stand by Motor	
Model	TK 376	Voltage / Phase / Frequency	230-400V / 3 Ph / 50-60Hz
Rating	14.6 kW	Rating	7.5 kW
Maintenance Interval	2000 hrs		
Number of cylinders	3		
Displacement	1116		

Noise		Refrigerant	
Road Mode	73.4 dB(A)	Charge	8.5 kg
Electric Standby	63.4 dB(A)		



Condenser Width 1 608 mm x Depth 721 mm x Height 636 mm

UT-R Extreme

For truck and highloader undermount applications at extreme ambients

Benchmark reliability in the high ambient environments
 Proven fresh performance at up to 55°C and beyond Faster full-down and temperature recovery Full two-year warranty
 Market leading service and accessibility Easy, low-cost installation Advanced TSR-3 controller Low fuel consumption
 R-134a refrigerant delivering positive environmental impact increased over 60% with reduced GWP (Global Warming Potential)
 Low fuel consumption Low engine emissions with GreenTech™ engine Reduced R-134a refrigerant charge
 Whisper-quiet operation Bio-fuel and HVO compatibility

PERFORMANCE

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	3 350
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TECHNICAL DATA

Refrigeration Capacity High Ambient Temperature (55°C)

Capacity on engine power 0°C	W	7 100
Capacity on engine power 20°C	W	12 900

Features

Noise level		101 dB(A) guaranteed sound power level
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Controller

General		TSR-3
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Compressor

Model		X430 C5
Displacement	cm ³	489
Number of cylinders		4

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A
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Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	63.5

Defrost

Defrost		Automatic hot gas defrost
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Unit Dimensions

E-type Evaporator height	mm	302
E-type Evaporator width	mm	1 615
E-type Evaporator depth	mm	638
Condenser Height	mm	636
Condenser Width	mm	1 608
Condenser Depth	mm	721

Engine

Model		TK 376
Rating	kW	14.6
Maintenance Interval	hrs	2 000
Number of cylinders		3
Displacement		1 116

Electrical Stand by Motor

Voltage / Phase / Frequency		230-400V / 3 Ph / 50-60Hz
Rating	kW	7.5

Noise

Road Mode	dB(A)	73.4
Electric Standby	dB(A)	63.4

Refrigerant

Charge	kg	4.6
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SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE



UT-1400R S-3 + S-3

Condenser Width 1 608 mm x Depth 721 mm x Height 636 mm

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	12 200
Capacity on engine power -20°C	W	6 600
Capacity on electrical stand by 0°C	W	9 900
Capacity on electrical stand by -20°C	W	4 900

Heating Capacity

Capacity on engine power -18°C	W	4400 (+18C box)
Capacity on Electrical Stand-By power -18°C	W	3200 (+18C box)

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	4 450
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TECHNICAL DATA

Features

Noise level		101 dB(A) guaranteed sound power level
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Controller

General		TSR-3
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Compressor

Model		X430 C5
Displacement	cm ³	489
Number of cylinders		4

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A
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Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	104

Defrost

Defrost		Automatic hot gas defrost
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Unit Dimensions

Condenser Height	mm	636
Condenser Width	mm	1 608
Condenser Depth	mm	721
Evaporator Height	mm	200
Evaporator Width	mm	2 200
Evaporator Depth	mm	1 000

Engine

Model		TK 376
Rating	kW	14.6
Maintenance Interval	hrs	2 000
Number of cylinders		3
Displacement		1 116

Electrical Stand by Motor

Voltage / Phase / Frequency		230-400V / 3 Ph / 50-60Hz
Rating	kW	7.5

Noise

Road Mode	dB(A)	73.4
Electric Standby	dB(A)	63.4

Refrigerant

Charge	kg	4.85
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Condenser Width 1 608 mm x Depth 721 mm x Height 636 mm

UT-1400R E-Evap

Takes undermount refrigeration to a new level

Optimized uptime and cargo safety Quieter operations, day and night Best-in-class compressor and new enclosure design dramatically reduces the risk of breakdown and makes the unit much easier to service Space saving design

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	13 100
Capacity on engine power -20°C	W	7 100
Capacity on electrical stand by 0°C	W	10 400
Capacity on electrical stand by -20°C	W	5 300

Heating Capacity

Capacity on engine power -18°C	W	4400 (+18C box)
Capacity on Electrical Stand-By power -18°C	W	3200 (+18C box)

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	3 350
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TECHNICAL DATA

Features

Noise level		101 dB(A) guaranteed sound power level
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(Electric) Stand-by Capacity

Individual Evaporator Capacity Stand-by 0°/30°		10 400
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Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A
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Defrost

Defrost		Automatic hot gas defrost
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Engine

Model		TK 376
Rating	kW	14.6
Maintenance Interval	hrs	2 000
Number of cylinders		3
Displacement		1 116

Controller

General		TSR-3
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Compressor

Model		X430 C5
Displacement	cm ³	489
Number of cylinders		4

Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	63.5

Unit Dimensions

E-type Evaporator height	mm	302
E-type Evaporator width	mm	638
E-type Evaporator depth	mm	1 615
Condenser Height	mm	636
Condenser Width	mm	1 608
Condenser Depth	mm	721

Electrical Stand by Motor

Voltage / Phase / Frequency		230-400V / 3 Ph / 50-60Hz
Rating	kW	7.5

SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE

Noise		
Road Mode	dB(A)	73.4
Electric Standby	dB(A)	63.4

Refrigerant		
Charge	kg	4.6

AVAILABLE EVAP CONFIGURATIONS			
E-3		E-3 + E-3	



Condenser Width 1 608 mm x Depth 721 mm x Height 636 mm

UT-R Extreme

For truck and highloader undermount applications at extreme ambients

Benchmark reliability in the high ambient environments
 Proven fresh performance at up to 55°C and beyond Faster full-down and temperature recovery Full two-year warranty
 Market leading service and accessibility Easy, low-cost installation Advanced TSR-3 controller Low fuel consumption
 R-134a refrigerant delivering positive environmental impact increased over 60% with reduced GWP (Global Warming Potential)
 Low fuel consumption Low engine emissions with GreenTech™ engine Reduced R-134a refrigerant charge
 Whisper-quiet operation Bio-fuel and HVO compatibility

PERFORMANCE

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	3 350
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TECHNICAL DATA

Refrigeration Capacity High Ambient Temperature (55°C)

Capacity on engine power 0°C	W	7 100
Capacity on engine power 20°C	W	12 900

Features

Noise level		101 dB(A) guaranteed sound power level
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Controller

General		TSR-3
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Compressor

Model		X430 C5
Displacement	cm ³	489
Number of cylinders		4

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A
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Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	63.5

Defrost

Defrost		Automatic hot gas defrost
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Unit Dimensions

E-type Evaporator height	mm	302
E-type Evaporator width	mm	1 615
E-type Evaporator depth	mm	638
Condenser Height	mm	636
Condenser Width	mm	1 608
Condenser Depth	mm	721

Engine

Model		TK 376
Rating	kW	14.6
Maintenance Interval	hrs	2 000
Number of cylinders		3
Displacement		1 116

Electrical Stand by Motor

Voltage / Phase / Frequency		230-400V / 3 Ph / 50-60Hz
Rating	kW	7.5

Noise

Road Mode	dB(A)	73.4
Electric Standby	dB(A)	63.4

Refrigerant

Charge	kg	4.6
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C-150

Flexible, protective, and effortless

Quicker temperature pull-down Higher airflow Larger condensing capacity Lightweight and compact design Reduced refrigerant charge Increased efficiency and sustainability Optimized heating performance Suitable for extreme ambient conditions 2-year warranty (unit and parts)

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	1 603
Capacity on engine power -20°C	W	671
Capacity on electrical stand by 0°C	W	910
Capacity on electrical stand by -20°C	W	365

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	745
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TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m ³ /hr	745
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Weight

Model 50	kg	23
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AVAILABLE EVAP CONFIGURATIONS

ES100



C-250

Flexible, protective, and effortless

Quicker temperature pull-down Higher airflow Larger condensing capacity Lightweight and compact design Reduced refrigerant charge Increased efficiency and sustainability Optimized heating performance Suitable for extreme ambient conditions 2-year warranty (unit and parts)

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	2 368
Capacity on engine power -20°C	W	1 001
Capacity on electrical stand by 0°C	W	1 937
Capacity on electrical stand by -20°C	W	770

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	1 100
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TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m ³ /hr	1 100
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Weight

Model 50	kg	23
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AVAILABLE EVAP CONFIGURATIONS

ES200

C-350

Flexible, protective, and effortless

Quicker temperature pull-down Higher airflow Larger condensing capacity Lightweight and compact design Reduced refrigerant charge Increased efficiency and sustainability Optimized heating performance Suitable for extreme ambient conditions 2-year warranty (unit and parts)

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	2 793
Capacity on engine power -20°C	W	1 204
Capacity on electrical stand by 0°C	W	2 140
Capacity on electrical stand by -20°C	W	845

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	1 400
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TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m ³ /hr	1 400
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Weight

Model 50	kg	23
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AVAILABLE EVAP CONFIGURATIONS

ES300



C-450

Flexible, protective, and effortless

Quicker temperature pull-down Higher airflow Larger condensing capacity Lightweight and compact design Reduced refrigerant charge Increased efficiency and sustainability Optimized heating performance Suitable for extreme ambient conditions 2-year warranty (unit and parts)

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	3 201
Capacity on engine power -20°C	W	1 434

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	1 650
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TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m ³ /hr	1 650
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Weight

Model 50	kg	31
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AVAILABLE EVAP CONFIGURATIONS

ES300



C-550

Flexible, protective, and effortless

Quicker temperature pull-down Higher airflow Larger condensing capacity Lightweight and compact design Reduced refrigerant charge Increased efficiency and sustainability Optimized heating performance Suitable for extreme ambient conditions 2-year warranty (unit and parts)

AVAILABLE EVAP CONFIGURATIONS

ES400

C-650

Flexible, protective, and effortless

Quicker temperature pull-down Higher airflow Larger condensing capacity Lightweight and compact design Reduced refrigerant charge Increased efficiency and sustainability Optimized heating performance Suitable for extreme ambient conditions 2-year warranty (unit and parts)

AVAILABLE EVAP CONFIGURATIONS

ES500

C-750

Flexible, protective, and effortless

Quicker temperature pull-down Higher airflow Larger condensing capacity Lightweight and compact design Reduced refrigerant charge Increased efficiency and sustainability Optimized heating performance Suitable for extreme ambient conditions 2-year warranty (unit and parts)

AVAILABLE EVAP CONFIGURATIONS

ES600



V-200

Superior temperature control

The V-100, 200 and 300 series offer the optimal temperature control solution for trucks and vans up to 28m³. This complete range share many common components including the Direct Smart Reefer and has many modular options to fulfill the requirements of every customer with the following benefits:

- Modern compact platform
- User friendly Direct Smart Reefer
- Increased reliability
- Easy maintenance, service and installation

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	2 255
Capacity on engine power -20°C	W	945
Capacity on electrical stand by 0°C	W	1 850
Capacity on electrical stand by -20°C	W	685

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	1 210
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TECHNICAL DATA

Compressor

Model		QP13
Displacement	cm ³	131
Number of cylinders		6

Generic (Boxlength, Refrigerant, ...)

Box volume	m ³	9 - 18
Refrigerant		R-134a
Airflow	m ³ /hr	1 241
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	43
Evaporator	kg	15
Swash Plate Compressor	kg	6.9

Defrost

Defrost		Automatic hot gas defrost
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Unit Dimensions

Height	mm	222
Width	mm	1 180
Depth	mm	485
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	485
Evaporator Height	mm	133
Evaporator Width	mm	985
Evaporator Depth	mm	525
In-cab Controls Height	mm	46
In-cab Controls Width	mm	135
In-cab Controls Depth	mm	25

Electrical Stand by Motor

Voltage / Phase / Frequency		230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Rating	kW	3.7

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

Noise

Road Mode	dB(A)	85
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Refrigerant

Charge	kg	10: 1.0 -- 20:
		1.2

AVAILABLE EVAP CONFIGURATIONS

ES100, ES100N, ES200

DIRECT DRIVE TRUCK - SINGLE 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 hoses large (upgrade)	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 - SINGLE TEMPERATURE



Condenser Width 789 mm x Depth 500 mm x Height 242 mm

V-200s MAX

Superior temperature control

The V-100, 200 and 300 series offer the optimal temperature control solution for trucks and vans up to 28m³. This complete range share many common components including the Direct Smart Reefer and has many modular options to fulfill the requirements of every customer with the following benefits:

- 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

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

Capacity on engine power 0°C	W	2 410
Capacity on engine power -20°C	W	1 180
Capacity on electrical stand by 0°C	W	1 500
Capacity on electrical stand by -20°C	W	650

Heating Capacity

On the road	W	2 200
Electric Stand By Operation	W	1 300

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	1 001
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TECHNICAL DATA

Compressor

Model		QP08
Displacement	cm ³	131
Number of cylinders		6

Weight

Installation kit	kg	24
Condenser w/o electric stand-by	kg	25
Condenser with electric stand-by	kg	43
Evaporator	kg	14

Unit Dimensions

Height	mm	242
Width	mm	789
Depth	mm	500
Condenser Height	mm	242
Condenser Width	mm	789
Condenser Depth	mm	500
Evaporator Height	mm	187
Evaporator Width	mm	755
Evaporator Depth	mm	540

Noise

Generic (Boxlength, Refrigerant, ...)

Box volume	m ³	10 - 19
Refrigerant		R-452A
Airflow	m ³ /hr	1 000
Controller		DSR III

Defrost

Defrost		Automatic hot gas defrost
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Engine

Rating	kW	1.6
no. of cylinders/displacement	cm ³	6/82

Refrigerant

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

Road Mode	dB(A)	84	Charge	kg	1.2
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DIRECT DRIVE TRUCK - SINGLE 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 hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Door switches		x	



V-200 MAX

Superior temperature control

The V-100, 200 and 300 series offer the optimal temperature control solution for trucks and vans up to 28m³. This complete range share many common components including the Direct Smart Reefer and has many modular options to fulfill the requirements of every customer with the following benefits:

- 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

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

Capacity on engine power 0°C	W	2 770
Capacity on engine power -20°C	W	1 460
Capacity on electrical stand by 0°C	W	1 970
Capacity on electrical stand by -20°C	W	1 130

Heating Capacity

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

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	1 241
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TECHNICAL DATA

Compressor

Model		QP13
Displacement	cm ³	131
Number of cylinders		6

Generic (Boxlength, Refrigerant, ...)

Box volume	m ³	13 - 22
Refrigerant		R-404A/R-452A
Airflow	m ³ /hr	1 100
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	43
Evaporator	kg	15
Swash Plate Compressor	kg	6.9

Defrost

Defrost		Automatic hot gas defrost
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Unit Dimensions

Height	mm	222
Width	mm	1 180
Depth	mm	485
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

Electrical Stand by Motor

Voltage / Phase / Frequency		230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Rating	kW	3.7

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

Condenser with electric stand-by Width	mm	1180
Condenser with electric stand-by Depth	mm	485
Evaporator Height	mm	133
Evaporator Width	mm	985
Evaporator Depth	mm	525
In-cab Controls Height	mm	46
In-cab Controls Width	mm	135
In-cab Controls Depth	mm	25

Noise

Road Mode	dB(A)	85
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Refrigerant

Charge	kg	10/30: 1.0 -- 20/50: 1.2 kg
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DIRECT DRIVE TRUCK - SINGLE 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 hoses large (upgrade)	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

Superior Temperature Control

The V-100, 200 and 300 series offer the optimal temperature control solution for trucks and vans up to 28m³. This complete range share many common components including the Direct Smart Reefer and has many modular options to fulfill the requirements of every customer with the following benefits:

- Modern compact platform
- User friendly Direct Smart Reefer
- Increased reliability
- Easy maintenance, service and installation

PERFORMANCE

Refrigeration Capacity

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

Capacity on engine power 0°C	W	2 965
Capacity on engine power -20°C	W	1 260
Capacity on electrical stand by 0°C	W	2 090
Capacity on electrical stand by -20°C	W	865

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	2 033
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TECHNICAL DATA

Compressor

Model		QP15
Displacement	cm ³	146.7
Number of cylinders		6

Generic (Boxlength, Refrigerant, ...)

Box volume	m ³	10 - 25
Refrigerant		R-134a
Airflow	m ³ /hr	1 400
Controller		DSR III

Weight

Model 30	kg	25
Model 50	kg	75
Installation kit	kg	24
Condenser w/o electric stand-by	kg	30
Condenser with electric stand-by	kg	70
Evaporator	kg	18
Swash Plate Compressor	kg	6.8

Defrost

Defrost		Automatic hot gas defrost
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Unit Dimensions

Height	mm	222
Width	mm	1 180
Depth	mm	485
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	485
Evaporator Height	mm	178
Evaporator Width	mm	985
Evaporator Depth	mm	551
In-cab Controls Height	mm	46
In-cab Controls Width	mm	135
In-cab Controls Depth	mm	25

Electrical Stand by Motor

Voltage / Phase / Frequency		230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Rating	kW	3.7

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

Noise

Road Mode	dB(A)	85
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Refrigerant

Charge	kg	10: 1.1 -- 20: 1.3
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AVAILABLE EVAP CONFIGURATIONS

ES300

DIRECT DRIVE TRUCK - SINGLE 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 hoses large (upgrade)	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

Superior temperature control

The V-100, 200 and 300 series offer the optimal temperature control solution for trucks and vans up to 28m

- 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

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

Capacity on engine power 0°C	W	3 330
Capacity on engine power -20°C	W	1 840
Capacity on electrical stand by 0°C	W	2 840
Capacity on electrical stand by -20°C	W	1 235

Heating Capacity

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

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	1 379
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TECHNICAL DATA

Compressor

Model		QP15
Displacement	cm ³	146.7
Number of cylinders		6

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	70
Evaporator	kg	18
Swash Plate Compressor	kg	6.8

Unit Dimensions

Height	mm	222
Width	mm	1 180
Depth	mm	485
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	485
Evaporator Height	mm	178
Evaporator Width	mm	985
Evaporator Depth	mm	551
In-cab Controls Height	mm	46

Generic (Boxlength, Refrigerant, ...)

Box volume	m ³	17 - 28
Refrigerant		R-452A
Airflow	m ³ /hr	1 400
Controller		DSR III

Defrost

Defrost		Automatic hot gas defrost
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Electrical Stand by Motor

Voltage / Phase / Frequency		230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Rating	kW	3.7

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

In-cab Controls Width	mm	135
In-cab Controls Depth	mm	25

Noise

Road Mode	dB(A)	85
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Refrigerant

Charge	kg	10/30: 1.1 -- 20/50: 1.3
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DIRECT DRIVE TRUCK - SINGLE 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 hoses large (upgrade)	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-400X

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	3 212
Capacity on engine power -20°C	W	Not applicable
Capacity on electrical stand by 0°C	W	2 366
Capacity on electrical stand by -20°C	W	Not applicable

Airflow		
Independent from unit engine speed		
Airflow	m ³ /hr	1 990
Volume @ 0 Pa static pressure	m ³ /hr	1 990

TECHNICAL DATA

High Speed Diesel Capacity		
Cooling Capacity HSD 0°/30°		3 212

Generic (Boxlength, Refrigerant, ...)		
Airflow	m ³ /hr	1 990

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

Refrigerant		
Refrigerant Weight		1.3

AVAILABLE EVAP CONFIGURATIONS

ES100		ES200	
ES300			



V-400X MAX

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	4 082
Capacity on engine power -20°C	W	2 237
Capacity on electrical stand by 0°C	W	3 026
Capacity on electrical stand by -20°C	W	1 496

Airflow		
Independent from unit engine speed		
Volume @ 0 Pa static pressure	m ³ /hr	1 990

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)		
Airflow	m ³ /hr	1 990

Weight		
Model 50	kg	75



Condenser Width 1864 mm x Depth 588 mm x Height 536 mm

V-500X

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	4 190
Capacity on engine power -20°C	W	Not applicable
Capacity on electrical stand by 0°C	W	2 560
Capacity on electrical stand by -20°C	W	Not applicable

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	2 353
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TECHNICAL DATA

Compressor

Model		QP25
Displacement	cm ³	250
Number of cylinders		10

Weight

Total Unit Weight (30 Model)		53
Model 50	kg	125
Condenser w/o electric stand-by	kg	96
Condenser with electric stand-by	kg	205
Evaporator	kg	50
Swash Plate Compressor	kg	8.7

Unit Dimensions

Condenser Height	mm	536
Condenser Width	mm	1864
Condenser Depth	mm	588

Refrigerant

Charge	kg	10: 5.4 // 20: 5.7
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Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-134a
Airflow	m ³ /hr	2 353
Controller		DSR III

Defrost

Defrost		Automatic hot gas defrost
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Electrical Stand by Motor

Voltage / Phase / Frequency		400/3/50 - 230/3/50 - 400/3/60 - 230/3/60
Rating	kW	8,8

AVAILABLE EVAP CONFIGURATIONS

ES500



V-500X MAX

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	5 440
Capacity on engine power -20°C	W	3 030
Capacity on electrical stand by 0°C	W	3 450
Capacity on electrical stand by -20°C	W	1 640

Airflow		
Independent from unit engine speed		
Airflow HSD		2 353
Volume @ 0 Pa static pressure	m ³ /hr	2 353

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)		
Airflow	m ³ /hr	2 353

Weight		
Model 50	kg	125



V-600X MAX

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	6 538
Capacity on engine power -20°C	W	3 473
Capacity on electrical stand by 0°C	W	4 105
Capacity on electrical stand by -20°C	W	1 916

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	2 505
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TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m ³ /hr	2 505
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Weight

Model 50	kg	125
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AVAILABLE EVAP CONFIGURATIONS

ES100N, ES150, ES300, ES500, ES600

E-400e MAX

The electric edge in urban and inner-city delivery

PERFORMANCE

Refrigeration Capacity

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

Capacity on Battery power 0°C	W	3 481
Capacity on Battery power -20°C	W	1 751

Heating Capacity

On the road	W	1 600
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Airflow

Independent from unit engine speed

Airflow	m ³ /hr	1 654
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TECHNICAL DATA

Electricity

Power supply		400V DC
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Defrost

Defrost		Automatic hot gas defrost
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Noise

Road Mode	dB(A)	89
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Weight

Condenser	kg	64
Evaporator ES300 MAX	kg	18

Unit Dimensions

Condenser Width (Nose)	mm	1 253
Condenser Depth (Nose)	mm	631
Condenser Height (Nose)	mm	276
Condenser Width (Roof)	mm	1 312
Condenser Depth (Roof)	mm	825
Condenser Height (Roof)	mm	273
Evaporator ES300 MAX Height	mm	178
Evaporator ES300 MAX Width	mm	985
Evaporator ES300 MAX Depth	mm	551

Refrigerant

Refrigerant Type		R-452A
Charge	kg	2.15

AVAILABLE EVAP CONFIGURATIONS

ES300

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Data capture & communications			
Bluebox Lite	x		
Tracking (tracking and load monitoring)		x	
TouchLog independent data logger			x
Load Protection			
Din Adapter		x	
Snow Cover (kit deflector Big)		x	
Door switches		x	



E-500e MAX

The Electric Edge In Urban And Inner-City Delivery

The E-500e embodies the design philosophy of the E-series. Highly energy efficient, lightweight and adaptable to your needs, it is the solution to all your inner-city delivery challenges, and brings powerful electric cooling to the city center!

PERFORMANCE

Refrigeration Capacity

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

Capacity on Battery power 0°C	W	4 500
Capacity on Battery power -20°C	W	2 407

Heating Capacity

On the road	W	2 209
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Airflow

Independent from unit engine speed

Airflow	m ³ /hr	2 657
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TECHNICAL DATA

Electricity

Power supply		400V DC
Maximum power draw		3398 W

Defrost

Defrost		Automatic hot gas defrost
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Noise

Road Mode	dB(A)	89
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Weight

Condenser	kg	64
Evaporator ES500 MAX	kg	25.5

Unit Dimensions

Condenser Width (Nose)	mm	1 253
Condenser Depth (Nose)	mm	631
Condenser Height (Nose)	mm	276
Condenser Width (Roof)	mm	1 312
Condenser Depth (Roof)	mm	825
Condenser Height (Roof)	mm	273
Evaporator ES500 MAX Height	mm	226
Evaporator ES500 MAX Width	mm	1 336
Evaporator ES500 MAX Depth	mm	596

Refrigerant

Refrigerant Type		R-452A
Charge	kg	2,4

AVAILABLE EVAP CONFIGURATIONS

ES500

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Data capture & communications			
Bluebox Lite	x		
Tracking (tracking and load monitoring)		x	
TouchLog independent data logger			x
Load Protection			
Din Adapter		x	
Snow Cover (kit deflector Big)		x	
Door switches		x	

E-600 MAX SPECTRUM w 2 x ES300

The electric edge in urban and inner-city delivery

PERFORMANCE

Airflow

Independent from unit engine speed

Airflow	m ³ /hr	1678 + 1678
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TECHNICAL DATA

(Electric) Stand-by Capacity

Cooling Capacity stand-by -20°/30°		2 427
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Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A
Heating Capacity Electric		2 209

Weight

Condenser	kg	64
Evaporator	kg	36

Noise

Road Mode	dB(A)	89
Sound Pressure Level HS dB(A)		89

AVAILABLE EVAP CONFIGURATIONS

ES300

DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Data capture & communications			
Bluebox Lite	x		
Tracking (tracking and load monitoring)		x	

E-600 MAX SPECTRUM w ES300+ES150

The electric edge in urban and inner-city delivery

PERFORMANCE

Refrigeration Capacity

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

Capacity on Battery power -20°C	W	2 427
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Heating Capacity

On the road	W	2 209
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Airflow

Independent from unit engine speed

ES300+ES150	m ³ /hr	1678 + 1038
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TECHNICAL DATA

Electricity

Power supply	400V DC
Maximum power draw	3 412

Defrost

Defrost	Automatic hot gas defrost
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Weight

Condenser	kg	64
Evaporator ES300 MAX	kg	18
Evaporator ES150 MAX	kg	14

Unit Dimensions

Condenser Width (Nose)	mm	1 253
Condenser Depth (Nose)	mm	631
Condenser Height (Nose)	mm	276
Condenser Width (Roof)	mm	1 312
Condenser Depth (Roof)	mm	825
Condenser Height (Roof)	mm	273
Evaporator ES300 MAX Height	mm	178
Evaporator ES300 MAX Width	mm	985
Evaporator ES300 MAX Depth	mm	551
Evaporator ES150 MAX Height	mm	187
Evaporator ES150 MAX Width	mm	755
Evaporator ES150 MAX Depth	mm	540

Noise

Road Mode	dB(A)	89
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Refrigerant

Refrigerant Type	R-452A
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AVAILABLE EVAP CONFIGURATIONS

ES150, ES300

DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Data capture & communications			
Bluebox Lite	x		
Tracking (tracking and load monitoring)		x	
TouchLog independent data logger			x
Load Protection			
Din Adapter		x	
Snow Cover (kit deflector Big)		x	
Door switches		x	



V-400X

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	3 212
Capacity on engine power -20°C	W	Not applicable
Capacity on electrical stand by 0°C	W	2 366
Capacity on electrical stand by -20°C	W	Not applicable

Airflow		
Independent from unit engine speed		
Airflow	m ³ /hr	1 990
Volume @ 0 Pa static pressure	m ³ /hr	1 990

TECHNICAL DATA

High Speed Diesel Capacity		
Cooling Capacity HSD 0°/30°		3 212

Generic (Boxlength, Refrigerant, ...)		
Airflow	m ³ /hr	1 990

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

Refrigerant		
Refrigerant Weight		1.3

AVAILABLE EVAP CONFIGURATIONS

ES100		ES200	
ES300			



V-400X MAX

High performance, sustainable refrigeration with precise temperature control

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PERFORMANCE

Refrigeration Capacity		
System net cooling capacity under A.T.P. conditions at 30 °C ambient		
Capacity on engine power 0°C	W	4 082
Capacity on engine power -20°C	W	2 237
Capacity on electrical stand by 0°C	W	3 026
Capacity on electrical stand by -20°C	W	1 496

Airflow		
Independent from unit engine speed		
Volume @ 0 Pa static pressure	m ³ /hr	1 990

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)		
Airflow	m ³ /hr	1 990

Weight		
Model 50	kg	75



V-400X MAX SPECTRUM

High performance, sustainable refrigeration with precise temperature control

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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 ³ /hr	1 480
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TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m ³ /hr	1 480
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Weight

Model 50	kg	75
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Condenser Width 1864 mm x Depth 588 mm x Height 536 mm

V-500X

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	4 190
Capacity on engine power -20°C	W	Not applicable
Capacity on electrical stand by 0°C	W	2 560
Capacity on electrical stand by -20°C	W	Not applicable

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	2 353
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TECHNICAL DATA

Compressor

Model		QP25
Displacement	cm ³	250
Number of cylinders		10

Weight

Total Unit Weight (30 Model)		53
Model 50	kg	125
Condenser w/o electric stand-by	kg	96
Condenser with electric stand-by	kg	205
Evaporator	kg	50
Swash Plate Compressor	kg	8.7

Unit Dimensions

Condenser Height	mm	536
Condenser Width	mm	1864
Condenser Depth	mm	588

Refrigerant

Charge	kg	10: 5.4 // 20: 5.7
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Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-134a
Airflow	m ³ /hr	2 353
Controller		DSR III

Defrost

Defrost		Automatic hot gas defrost
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Electrical Stand by Motor

Voltage / Phase / Frequency		400/3/50 - 230/3/50 - 400/3/60 - 230/3/60
Rating	kW	8,8

AVAILABLE EVAP CONFIGURATIONS

ES500



V-500X MAX

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	5 440
Capacity on engine power -20°C	W	3 030
Capacity on electrical stand by 0°C	W	3 450
Capacity on electrical stand by -20°C	W	1 640

Airflow		
Independent from unit engine speed		
Airflow HSD		2 353
Volume @ 0 Pa static pressure	m ³ /hr	2 353

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)		
Airflow	m ³ /hr	2 353

Weight		
Model 50	kg	125



V-600X MAX

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	6 538
Capacity on engine power -20°C	W	3 473
Capacity on electrical stand by 0°C	W	4 105
Capacity on electrical stand by -20°C	W	1 916

Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m ³ /hr	2 505
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TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m ³ /hr	2 505
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Weight

Model 50	kg	125
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AVAILABLE EVAP CONFIGURATIONS

ES100N, ES150, ES300, ES500, ES600



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 ³ /hr	1 990

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)		
Airflow	m ³ /hr	1 990

Weight		
Model 50	kg	125



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 ³ /hr	1 480
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TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m ³ /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 ³ /hr	1 990

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)		
Airflow	m ³ /hr	1 990

Weight		
Model 50	kg	125



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 ³ /hr	1 172
ES100+ES100	m ³ /hr	695

Heating Capacity

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

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
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	



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

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 ³ /hr	1210 + 770
ES150+ES150	m ³ /hr	2 x 890
ES150+ES100	m ³ /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 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

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
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	

Nighttime deliveries and PIEK certification



In 1998 the Dutch Government set out standards for noise emission during loading and unloading in retail trade and craft businesses. This resulted in a project called PIEK and in 2004 in the PIEK certification scheme for vehicles and equipment operating under 60dB(A). This is considered the limit for nighttime deliveries without causing noise disturbance to nearby residents.

To achieve the standard, each product is acoustically measured and must function emitting under 60dB(A) at 7.5 metres from the sound source.



The PIEK-standard has been adopted in several countries like the UK, France, Germany and Belgium. The same testing methodology and certification method is used across these countries to obtain the PIEK-certificate, so the PIEK standard developed in the Netherlands is fast becoming the de-facto European standard for noise abatement measurement and certification.

THERMO KING HAS SEVERAL PIEK-COMPLIANT REFRIGERATION UNITS AVAILABLE IN ITS RANGE:

TYPE	UNIT	TECHNOLOGY	APPLICATION
Trailer	A-500 Whisper Pro	Diesel/Hybrid	Single temperature
Trailer	SLXi-300 Whisper Pro	Diesel/Hybrid	Single temperature
Trailer	SLXi Spectrum Whisper Pro	Diesel/Hybrid	Multi-temperature
Trailer	CT 15 Spectrum	CryoTech	Multi-temperature

ATP regulations on carrying perishable goods



ATP stands for Agreement on the International Carriage of Perishable Foodstuffs (“Accord Transport Pêrissable”) and applies to border-crossing long-distance transport.

The ATP regulation and its standards are upheld by the United Nations Economic Commission for Europe (UNECE).

Content

The ATP Agreement contains the technical requirements on refrigerated bodies and defines the temperatures that must be maintained during transport.

OTHER TOPICS IN ATP ARE:

- The grouping of means of transport into classes according to their suitability and equipment for transporting perishable foodstuffs
- The technical requirements for means of transport for perishable foodstuffs and equipment with a refrigeration unit
- The methods for measuring the thermal insulating properties and the efficiency of the cooling or heating appliances
- Temperature conditions to be observed for the carriage of foodstuffs
- The type tests according to the ATP Agreement and the norms DIN 8958 and 8959

Scope

The ATP Agreement applies to:

Border-crossing commercial transport (not to delivery service!)

The place where the goods are unloaded is situated in the territory of a contracting party (see below)

Carriage of perishable foodstuffs intended for human consumption

Carriage by rail, road, or sea (sea carriage only for distances of less than 150 km if the goods are shipped in equipment, e.g., truck, used for the land journey)

Signatories

The ATP Agreement entered effect on 1 September 1970. The signatories are Albania, Andorra, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Ireland, Italy, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Moldova, Monaco, Montenegro, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Sweden, Tajikistan, The former Yugoslav Republic of Macedonia, Tunisia, Turkey, Ukraine, United Kingdom, United States of America, Uzbekistan.

ATP regulations on carrying perishable goods

Classification in ATP

The means of transport are grouped in different classes according to their suitability for carrying perishable foodstuffs.

Transport equipment for **chilled goods** is in class **FNA**, the class in which perishable foodstuffs can be transported as defined by the ATP Agreement.

THIS MEANS:

F = Transport equipment with built in refrigeration machine,

N = Transport equipment with normal heat insulation, mean K value¹ = 0.7 W/m²K

A = Temperature class between +12 °C and +/-0 °C.

Transport equipment for **deep-frozen goods** is in class **FRC**, the class in which perishable foodstuffs can be transported as defined by the ATP Agreement.

THIS MEANS:

F = Transport equipment with built in refrigeration machine,

R = Transport equipment with heavy insulation, mean K value = 0.4 W/m²K

C = Temperature class between +0 °C and -25 °C.

Type test of the refrigeration appliance according to DIN and ATP

A refrigeration machine from a series must be type tested by an approved certification institution. Normally, the test consists of the measurement of the effective refrigeration capacity at an outdoor temperature of +30 °C and at least three different indoor temperatures in accordance with the use of the refrigeration machine (transport of chilled goods 12°C, 6°C, and 0°C).

Because the ATP Agreement applies only to long-distance transport, it is sufficient if the effective refrigeration capacity of the built-in refrigeration machine is at least 1.75 times the heat loss through the insulated body.

1. K value = isothermal factor of the body in Watts per m² x °K (Kelvin).

ATP regulations on carrying perishable goods

Temperature conditions to be observed¹ Quick (deep)-frozen and frozen foodstuffs

TYPE	TEMPERATURE
Ice cream	-20 °C
Frozen or quick (deep)-frozen fish, fish products, molluscs and crustaceans and all other quick (deep)-frozen foodstuffs	-18 °C
All other frozen foodstuffs (except butter)	-12 °C
Butter	-10 °C

Chilled foodstuffs

TYPE	TEMPERATURE
Raw milk	+ 6 °C
Red meat and large game (other than red offal)	+ 7 °C
Meat products, pasteurized milk, butter, fresh dairy products (yoghurt, kefir, cream, and fresh cheese), ready cooked foodstuffs (meat, fish, vegetables), ready to eat prepared raw vegetables and vegetable products, concentrated fruit juice and fish products not listed below	Either at + 6 °C or at temperature indicated on the label and/or on the transport documents
Game (other than large game), poultry and rabbits	+ 4 °C
Red offal	+ 3 °C
Minced meat	Either at +2 °C or at temperature indicated on the label and/or on the transport documents
Untreated fish, molluscs, and crustaceans	On melting ice or at temperature of melting ice

ATP Handbook

Further information on transportation temperatures and testing conditions and methodology can be found in the ATP Handbook, issued by and available from the United Nations Economic Commission for Europe (UNECE) website: <https://unece.org/atp-handbook>

1. The temperature information is provided for example purposes only and may be overridden by the governing body (UNECE). Always refer to the latest version of the ATP Handbook for the most recent updates.

