THERMO KING

Product Guide Truck & Trailer

2025

TECHNICAL SPECIFICATIONS
FEATURES & OPTIONS





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

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	15 600
Cooling Capacity HSD -20°/30°	W	8 100

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	6 600

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

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

Heating Capacity

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

TECHNICAL DATA

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	12 700

Service Interval

Service Interval		3 000

Weight

Model Standard	kg	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
		460/3/60
Rating	kW	9.3

Noise

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

Refrigerant

Refrigerant Weight		5.65
Refrigerant Type		R-452A
GWP/kg		2 140
Refrigerant GWP (Total)		12 091

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TRAILER - SINGLE TEMPERATURE

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

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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

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	16 200
Cooling Capacity HSD -20°/30°	W	8 300

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	6 700

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

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

Heating Capacity

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

TECHNICAL DATA

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	13 000

Service Interval

Service Interval		3 000

Weight

Model Standard	kg	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		400/3/50 460/3/60
Rating	kW	9.3

Noise

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

Refrigerant

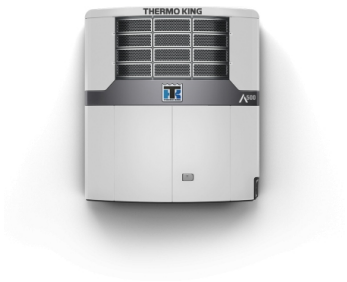
Refrigerant Weight		5.65
Refrigerant Type		R-452A
GWP/kg		2 140
Refrigerant GWP (Total)		12 091

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TRAILER - SINGLE TEMPERATURE

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

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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

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	19 500
Cooling Capacity HSD -20°/30°	W	10 400

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	8 400

Refrigeration Capacity

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

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

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

Heating Capacity

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

TECHNICAL DATA

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	14 600

Service Interval

Service Interval		3 000

Weight

Model Standard	kg	830

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
		460/3/60
Rating	kW	9.3

Noise

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

Refrigerant

Refrigerant Weight		5.65
Refrigerant Type		R-452A
GWP/kg		2 140
Refrigerant GWP (Total)		12 091

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TRAILER - SINGLE TEMPERATURE

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

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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

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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

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	19 500
Cooling Capacity HSD -20°/30°	W	10 400

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	7 600

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
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
Airflow HSD		5 300

Heating Capacity

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

TECHNICAL DATA

Remote Evaporator Capacity

S3A 0/30°C		9 100
S6A 0/30°C		13 650

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	15 400

Generic (Boxlength, Refrigerant, ...)

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

Service Interval

Service Interval		3 000

Weight

Model Standard	kg	840

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
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		400/3/50 460/3/60
Rating	kW	9.3

Noise

Road Mode	dB(A)	67

Refrigerant

Refrigerant Weight		5.5

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TRAILER - MULTI TEMPERATURE

Electric Standby	dB(A)	64
Sound Pressure Level HSD	dB(A)	67

Refrigerant Type		R-452A
GWP/kg		2 140
Refrigerant GWP (Total)		12 091

AVAILABLE EVAP CONFIGURATIONS

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

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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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	8 000

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

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

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

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

PERFORMANCE

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	15 000
Cooling Capacity HSD -20°/30°	W	7 900

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	6 200

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

Airflow

Independent from unit engine speed

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

Heating Capacity

On the road	W	12 000

TECHNICAL DATA

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	11 900

Compressor

Model		X430 C5
Displacement	cm^3	492

Generic (Boxlength, Refrigerant, ...)

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

Service Interval

Service Interval		3 000

Pull down

+20°C to -20°C (min)		150

Weight

Model Standard	kg	740
Model 30	kg	737 (Whisper option + 85 kg)
Model 50	kg	793 (Whisper option + 85 kg)

Unit Dimensions

Height	mm	2 279

Engine

Model		TK 486V

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TRAILER - SINGLE TEMPERATURE

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

Rating	kW	17.9
Maintenance Interval	hrs	3 000

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

Refrigerant		
Refrigerant Weight		5
Refrigerant Type		R-452A
Charge	kg	5
GWP/kg		2 140
Refrigerant GWP (Total)		10 700

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TRAILER - SINGLE TEMPERATURE

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

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

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

PERFORMANCE

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	18 700
Cooling Capacity HSD -20°/30°	W	10 000

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	7 100

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

Airflow

Independent from unit engine speed

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

Heating Capacity

On the road	W	13 300

TECHNICAL DATA

Compressor

Model		X430 C5
Displacement	cm^3	492

Generic (Boxlength, Refrigerant, ...)

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

Service Interval

Service Interval		3 000

Pull down

+20°C to -20°C (min)		120

Weight

Total Unit Weight (30 Model)		740
Total Unit Weight (50 Model)		810
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

Electrical Stand by Motor

Voltage / Phase / Frequency		400 / 3 / 50

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TRAILER - SINGLE TEMPERATURE

Rating	kW	17.9
Maintenance Interval	hrs	3 000

Rating	kW	9.3

Refrigerant		
Refrigerant Weight		5.5
Refrigerant Type		R-452A
Charge	kg	5.5
GWP/kg		2 140
Refrigerant GWP (Total)		12 200

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TRAILER - SINGLE TEMPERATURE

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

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

SLXi Spectrum

Ideal for multi-temperature transport

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

PERFORMANCE

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	15 378
Cooling Capacity HSD -20°/30°	W	8 211

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	5 852

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

Airflow

Independent from unit engine speed

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

Heating Capacity

On the road	W	12 000

TECHNICAL DATA

Compressor

Model		X430 C5
Displacement	cm^3	492

Generic (Boxlength, Refrigerant, ...)

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

Service Interval

Service Interval		3 000

Weight

Total Unit Weight (30 Model)		759
Total Unit Weight (50 Model)		814
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

Engine

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

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TRAILER - MULTI TEMPERATURE

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

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

Refrigerant		
Refrigerant Weight		5
Refrigerant Type		R-452A
Charge	kg	9.5
GWP/kg		2 140
Refrigerant GWP (Total)		10 700

AVAILABLE EVAP CONFIGURATIONS

S-2, S-3, S4.2

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TRAILER - MULTI TEMPERATURE

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

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

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

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 PeaK Mode

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

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

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 - airthrow	m/sec	15

Heating Capacity

On the road	W	12 000

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

AVAILABLE EVAP CONFIGURATIONS

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TRAILER - MULTI TEMPERATURE

S-2, S-3, S4.2

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TRAILER - MULTI TEMPERATURE

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

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

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

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 - airthrow	m/sec	14

Heating Capacity

On the road	W	12 000

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

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

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T-600X

DELIVERING WHAT MATTERS

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

PERFORMANCE

High Speed Diesel Capacity

.

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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	3 140
Cooling Capacity stand-by 0°/30°	W	5 700

Airflow

Independent from unit engine speed

Airflow	m^3/hr	3 230

Heating Capacity

Heating Capacity 18°/-18°	W	3 075
with Water Heater kit	W	6 220

TECHNICAL DATA

Service Interval

Service Interval		2 000

Weight

Total Unit Weight	kg	436

Unit Dimensions

Height	mm	632
Width	mm	1 888
Depth	mm	919

Noise

Sound Power Level HSD	dB(A)	94.5
Sound Pressure Level HSD	dB(A)	67,9
Sound Pressure Level LSD	dB(A)	63,5
Sound Pressure Level Stand-by	dB(A)	59,4
Sound Power Level HSD (Whisper Kit)	dB(A)	93
Sound Pressure Level HSD (Whisper Kit)	dB(A)	66,2
Sound Pressure Level LSD (Whisper Kit)	dB(A)	61,7
Sound Pressure Level Stand-by (Whisper Kit)	dB(A)	57,8

Refrigerant

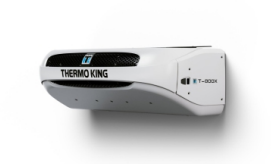
Refrigerant Type		R-452A
Charge	kg	2.9
GWP/kg		2 140
Refrigerant GWP (Total)		6.2

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LARGE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
TK Battery - EnergyOne Silver (Wet Cells 640CCA)	×		
TK Battery - EnergyOne Gold (Wet Cells 760 CCA)		×	
TK Battery - EnergyOne Platinum (AGM 880 CCA)		×	
ServiceWatch maintenance logger	×		
ThermoKare Service contracts			×
Cycle-Sentry start/stop control system	×		
EMI 2000 extended maintenance	×		
2-year warranty coverage	×		
Data capture & communications			
Tracking (tracking and load monitoring)			×
TouchPrint Printer			×
TouchPrint data logger			×
Wintrac (data analysis software)			×
Load Protection			
Standard in-cab display	×		
Premium in-cab display		×	
Water heater & heater bars kit (T-600X/T-800X only)		×	
Low ambient option		×	
Auto phase correction	×		
Door switches		×	×
Diesel/electric auto switching	×		
Customization			
Fuel tank plastic 90L		×	×
Fuel level sensor		×	×
Service support handle		×	×
Whisper noise attenuating kit		×	
Electronic Fuel Capture			×
Remote Status Light and Combination Display			×
Hose management kit		×	
Solar Panel			×
Body mount enclosure			×
Rear remote control		×	
Triple Combo Display			×

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T-800X

DELIVERING WHAT MATTERS

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

PERFORMANCE

High Speed Diesel Capacity

.

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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	3 150
Cooling Capacity stand-by 0°/30°	W	6 610

Airflow

Independent from unit engine speed

Airflow	m^3/hr	3 040

Heating Capacity

Heating Capacity 18°/-18°	W	3 075
with Water Heater kit	W	6 220

TECHNICAL DATA

Service Interval

Service Interval		2 000

Weight

Total Unit Weight	kg	440

Unit Dimensions

Height	mm	632
Width	mm	1 888
Depth	mm	919

Noise

Sound Power Level HSD	dB(A)	94.5
Sound Pressure Level HSD	dB(A)	67,9
Sound Pressure Level LSD	dB(A)	63,5
Sound Pressure Level Stand-by	dB(A)	59,4
Sound Power Level HSD (Whisper Kit)	dB(A)	93
Sound Pressure Level HSD (Whisper Kit)	dB(A)	66,2
Sound Pressure Level LSD (Whisper Kit)	dB(A)	61,7
Sound Pressure Level Stand-by (Whisper Kit)	dB(A)	57,8

Refrigerant

Refrigerant Type		R-452A
Charge	kg	3
GWP/kg		2 140
Refrigerant GWP (Total)		6.4

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LARGE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
TK Battery - EnergyOne Silver (Wet Cells 640CCA)	×		
TK Battery - EnergyOne Gold (Wet Cells 760 CCA)		×	
TK Battery - EnergyOne Platinum (AGM 880 CCA)		×	
ServiceWatch maintenance logger	×		
ThermoKare Service contracts			×
Cycle-Sentry start/stop control system	×		
EMI 2000 extended maintenance	×		
2-year warranty coverage	×		
Data capture & communications			
Tracking (tracking and load monitoring)			×
TouchPrint Printer			×
TouchPrint data logger			×
Wintrac (data analysis software)			×
Load Protection			
Standard in-cab display	×		
Premium in-cab display		×	
Water heater & heater bars kit (T-600X/T-800X only)		×	
Low ambient option		×	
Auto phase correction	×		
Door switches		×	×
Diesel/electric auto switching	×		
Customization			
Fuel tank plastic 90L		×	×
Fuel level sensor		×	×
Service support handle		×	×
Whisper noise attenuating kit		×	
Electronic Fuel Capture			×
Remote Status Light and Combination Display			×
Hose management kit		×	
Solar Panel			×
Body mount enclosure			×
Rear remote control		×	
Triple Combo Display			×

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T-1100X

DELIVERING WHAT MATTERS

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

PERFORMANCE

High Speed Diesel Capacity

.

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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	4 430
Cooling Capacity stand-by 0°/30°	W	8 220

Airflow

Independent from unit engine speed

Airflow	m^3/hr	3 720

Heating Capacity

Heating Capacity 18°/-18°	W	6 000

TECHNICAL DATA

Service Interval

Service Interval		2 000

Weight

Total Unit Weight	kg	473

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)	65,6
Sound Pressure Level Stand-by	dB(A)	62,5
Sound Power Level HSD (Whisper Kit)	dB(A)	95
Sound Pressure Level HSD (Whisper Kit)	dB(A)	68,7
Sound Pressure Level LSD (Whisper Kit)	dB(A)	64,1
Sound Pressure Level Stand-by (Whisper Kit)	dB(A)	62,2

Refrigerant

Refrigerant Type		R-452A
Charge	kg	2.9
GWP/kg		2 140
Refrigerant GWP (Total)		6 206

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LARGE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
TK Battery - EnergyOne Silver (Wet Cells 640CCA)	×		
TK Battery - EnergyOne Gold (Wet Cells 760 CCA)		×	
TK Battery - EnergyOne Platinum (AGM 880 CCA)		×	
ServiceWatch maintenance logger	×		
ThermoKare Service contracts			×
Cycle-Sentry start/stop control system	×		
EMI 2000 extended maintenance	×		
2-year warranty coverage	×		
Data capture & communications			
Tracking (tracking and load monitoring)			×
TouchPrint Printer			×
TouchPrint data logger			×
Wintrac (data analysis software)			×
Load Protection			
Standard in-cab display	×		
Premium in-cab display		×	
Low ambient option		×	
Engine Block Heater (T-1100X/T-1300X ST & MT only)		×	
Auto phase correction	×		
Door switches		×	×
Diesel/electric auto switching	×		
Customization			
Fuel tank plastic 90L		×	×
Fuel level sensor		×	×
Service support handle		×	×
Whisper noise attenuating kit		×	
Electronic Fuel Capture			×
Remote Status Light and Combination Display			×
Hose management kit		×	
Solar Panel			×
Body mount enclosure			×
Rear remote control		×	
Triple Combo Display			×

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T-1300X

DELIVERING WHAT MATTERS

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

PERFORMANCE

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	12 600
Cooling Capacity HSD -20°/30°	W	7 300

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	5 390
Cooling Capacity stand-by 0°/30°	W	10 080

Airflow

Independent from unit engine speed

Airflow	m^3/hr	3 430

Heating Capacity

Heating Capacity 18°/-18°	W	7 800

TECHNICAL DATA

Service Interval

Service Interval		2 000

Weight

Total Unit Weight	kg	476

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)	65,6
Sound Pressure Level Stand-by	dB(A)	62,5
Sound Power Level HSD (Whisper Kit)	dB(A)	95
Sound Pressure Level HSD (Whisper Kit)	dB(A)	68,9
Sound Pressure Level LSD (Whisper Kit)	dB(A)	63,8
Sound Pressure Level Stand-by (Whisper Kit)	dB(A)	60,4

Refrigerant

Refrigerant Type		R-452A
Charge	kg	3.2
GWP/kg		2 140
Refrigerant GWP (Total)		6 848

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LARGE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
TK Battery - EnergyOne Silver (Wet Cells 640CCA)	×		
TK Battery - EnergyOne Gold (Wet Cells 760 CCA)		×	
TK Battery - EnergyOne Platinum (AGM 880 CCA)		×	
ServiceWatch maintenance logger	×		
ThermoKare Service contracts			×
Cycle-Sentry start/stop control system	×		
EMI 2000 extended maintenance	×		
2-year warranty coverage	×		
Data capture & communications			
TouchPrint Printer			×
TouchPrint data logger			×
TracKing? (tracking and load monitoring)			×
Wintrac (data analysis software)			×
Load Protection			
Standard in-cab display	×		
Premium in-cab display		×	
Low ambient option		×	
Engine Block Heater (T-1100X/T-1300X ST & MT only)		×	
Auto phase correction	×		
Door switches		×	×
Diesel/electric auto switching	×		
Customization			
Fuel tank plastic 90L		×	×
Fuel level sensor		×	×
Service support handle		×	×
Whisper noise attenuating kit		×	
Electronic Fuel Capture			×
Remote Status Light and Combination Display			×
Hose management kit		×	
Solar Panel			×
Body mount enclosure			×
Rear remote control		×	
Triple Combo Display			×

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T-800X Spectrum

DELIVERING WHAT MATTERS

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

PERFORMANCE

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	7 840
Cooling Capacity HSD -20°/30°	W	3 620

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	2 740
Cooling Capacity stand-by 0°/30°	W	6 280

Airflow

Independent from unit engine speed

Airflow S-2 (@ 0 Pa static pressure)	m^3/hr	1 230
Airflow S-3 (@ 0 Pa static pressure)	m^3/hr	1 785

Heating Capacity

Heating Capacity 18°/-18° S-2	W	4 800
Heating Capacity 18°/-18° S-3	W	8 050

TECHNICAL DATA

Service Interval

Service Interval		2 000

Weight

Total Unit Weight	kg	389
Evaporator S-2	kg	36
Evaporator S-3	kg	51

Unit Dimensions

Height	mm	632
Width	mm	1 888
Depth	mm	919
Evaporator S-2 (width x depth x height)	mm	760 x 1 000 x 200
Evaporator S-3 (width x depth x height)	mm	1 100 x 1 000 x 200

Noise

Sound Pressure Level HSD	dB(A)	67,9
Sound Pressure Level LSD	dB(A)	63,5
Sound Pressure Level Stand-by	dB(A)	59,4
Sound Power Level HSD (Whisper Kit)	dB(A)	93
Sound Pressure Level HSD (Whisper Kit)	dB(A)	66,2
Sound Pressure Level LSD (Whisper Kit)	dB(A)	61,7
Sound Pressure Level Stand-by (Whisper Kit)	dB(A)	57,8

Refrigerant

Refrigerant Type		R-452A
Charge	kg	6.25
GWP/kg		2 140
Refrigerant GWP (Total)		13,4

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LARGE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
TK Battery - EnergyOne Silver (Wet Cells 640CCA)	×		
TK Battery - EnergyOne Gold (Wet Cells 760 CCA)		×	
TK Battery - EnergyOne Platinum (AGM 880 CCA)		×	
ServiceWatch maintenance logger	×		
ThermoKare Service contracts			×
Cycle-Sentry start/stop control system	×		
EMI 2000 extended maintenance	×		
2-year warranty coverage	×		
Data capture & communications			
TouchPrint Printer			×
TouchPrint data logger			×
TracKing? (tracking and load monitoring)			×
Wintrac (data analysis software)			×
Load Protection			
Premium in-cab display	×		
Low ambient option		×	
Engine Block Heater (T-1100X/T-1300X ST & MT only)		×	
Auto phase correction	×		
Door switches		×	×
Diesel/electric auto switching	×		
Customization			
Fuel tank plastic 90L		×	×
Fuel level sensor		×	×
Drain kit			×
Service support handle		×	×
Whisper noise attenuating kit		×	
Electronic Fuel Capture			×
Remote Status Light and Combination Display			×
Hose management kit		×	
Solar Panel			×
Evaporator guard			×
Body mount enclosure			×
Rear remote control		×	
Triple Combo Display			×

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T-1100X Spectrum

DELIVERING WHAT MATTERS

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

PERFORMANCE

High Speed Diesel Capacity

.

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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	4 720
Cooling Capacity stand-by 0°/30°	W	7 970

Airflow

Independent from unit engine speed

Airflow S-2 (@ 0 Pa static pressure)	m^3/hr	1 230
Airflow S-3 (@ 0 Pa static pressure)	m^3/hr	1 785
Airflow S-4.2 (@ 0 Pa static pressure)	m^3/hr	2 266
Airflow S-4 (@ 0 Pa static pressure)	m^3/hr	2 367

Heating Capacity

Heating Capacity 18°/-18° S-2	W	4 800
Heating Capacity 18°/-18° S-3	W	8 050
Heating Capacity 18°/-18° S-4.2	W	8 750
Heating Capacity 18°/-18° S-4	W	8 950

TECHNICAL DATA

Service Interval

Service Interval		2 000

Weight

Total Unit Weight	kg	430
Evaporator S-2	kg	36
Evaporator S-3	kg	51
Evaporator S-4.2	kg	54
Evaporator S-4	kg	72

Unit Dimensions

Height	mm	692/704
Width	mm	1 888
Depth	mm	919
Evaporator S-2 (width x depth x height)	mm	760 x 1 000 x 200
Evaporator S-3 (width x depth x height)	mm	1 100 x 1 000 x 200
Evaporator S-4.2 (width x depth x height)	mm	1 250 x 988 x 152
Evaporator S-4 (width x depth x height)	mm	2 x 760 x 1 000 x 200

Noise

Sound Power Level HSD	dB(A)	97
Sound Pressure Level HSD	dB(A)	71,7
Sound Pressure Level LSD	dB(A)	65,6
Sound Pressure Level Stand-by	dB(A)	62,5
Sound Power Level HSD (Whisper Kit)	dB(A)	95
Sound Pressure Level HSD (Whisper Kit)	dB(A)	68,7
Sound Pressure Level LSD (Whisper Kit)	dB(A)	64,1
Sound Pressure Level Stand-by (Whisper Kit)	dB(A)	62,2

Refrigerant

Refrigerant Type		R-452A
Charge	kg	6.25
GWP/kg		2 140
Refrigerant GWP (Total)		13 375

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LARGE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
TK Battery - EnergyOne Silver (Wet Cells 640CCA)	×		
TK Battery - EnergyOne Gold (Wet Cells 760 CCA)		×	
TK Battery - EnergyOne Platinum (AGM 880 CCA)		×	
ServiceWatch maintenance logger	×		
ThermoKare Service contracts			×
Cycle-Sentry start/stop control system	×		
EMI 2000 extended maintenance	×		
2-year warranty coverage	×		
Data capture & communications			
Tracking (tracking and load monitoring)			×
TouchPrint Printer			×
TouchPrint data logger			×
Wintrac (data analysis software)			×
Load Protection			
Premium in-cab display	×		
Low ambient option		×	
Engine Block Heater (T-1100X/T-1300X ST & MT only)		×	
Auto phase correction	×		
Door switches		×	×
Diesel/electric auto switching	×		
Customization			
Fuel tank plastic 90L		×	×
Fuel level sensor		×	×
Drain kit			×
Service support handle		×	×
Whisper noise attenuating kit		×	
Electronic Fuel Capture			×
Remote Status Light and Combination Display			×
Hose management kit		×	
Solar Panel			×
Evaporator guard			×
Body mount enclosure			×
Rear remote control		×	
Triple Combo Display			×

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T-1300X Spectrum

DELIVERING WHAT MATTERS

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

PERFORMANCE

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	12 470
Cooling Capacity HSD -20°/30°	W	8 570

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	5 030
Cooling Capacity stand-by 0°/30°	W	10 770

Airflow

Independent from unit engine speed

Airflow S-2 (@ 0 Pa static pressure)	m^3/hr	1 230
Airflow S-3 (@ 0 Pa static pressure)	m^3/hr	1 785
Airflow S-4.2 (@ 0 Pa static pressure)	m^3/hr	2 266
Airflow S-4 (@ 0 Pa static pressure)	m^3/hr	2 334

Heating Capacity

Heating Capacity 18°/-18° S-2	W	4 800
Heating Capacity 18°/-18° S-3	W	8 050
Heating Capacity 18°/-18° S-4.2	W	8 750
Heating Capacity 18°/-18° S-4	W	8 950

TECHNICAL DATA

Service Interval

Service Interval		2 000

Weight

Total Unit Weight	kg	436

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)	65,6
Sound Pressure Level Stand-by	dB(A)	62,5
Sound Power Level HSD (Whisper Kit)	dB(A)	95
Sound Pressure Level HSD (Whisper Kit)	dB(A)	68,9
Sound Pressure Level LSD (Whisper Kit)	dB(A)	63,8
Sound Pressure Level Stand-by (Whisper Kit)	dB(A)	60,4

Refrigerant

Refrigerant Weight		6,25
Refrigerant Type		R-452A
GWP/kg		2 140
Refrigerant GWP (Total)		13 375

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LARGE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
TK Battery - EnergyOne Silver (Wet Cells 640CCA)	×		
TK Battery - EnergyOne Gold (Wet Cells 760 CCA)		×	
TK Battery - EnergyOne Platinum (AGM 880 CCA)		×	
ServiceWatch maintenance logger	×		
ThermoKare Service contracts			×
Cycle-Sentry start/stop control system	×		
EMI 2000 extended maintenance	×		
2-year warranty coverage	×		
Data capture & communications			
Tracking (tracking and load monitoring)			×
TouchPrint Printer			×
TouchPrint data logger			×
Wintrac (data analysis software)			×
Load Protection			
Premium in-cab display	×		
Low ambient option		×	
Engine Block Heater (T-1100X/T-1300X ST & MT only)		×	
Auto phase correction	×		
Door switches		×	×
Diesel/electric auto switching	×		
Customization			
Fuel tank plastic 90L		×	×
Fuel level sensor		×	×
Drain kit			×
Service support handle		×	×
Whisper noise attenuating kit		×	
Electronic Fuel Capture			×
Remote Status Light and Combination Display			×
Hose management kit		×	
Solar Panel			×
Evaporator guard			×
Body mount enclosure			×
Rear remote control		×	
Triple Combo Display			×

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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

High Speed Diesel Capacity

.

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

(Electric) Stand-by Capacity

.

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

Airflow

Independent from unit engine speed

Airflow HSD		1230/1785/2266/2334

Heating Capacity

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

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A

Service Interval

Service Interval		2 000

Weight

Total Unit Weight (50 Model)		450

Unit Dimensions

Height	mm	704
Width	mm	1 888
Depth	mm	919

Noise

Sound Power Level HSD	dB(A)	92,6
Sound Pressure Level HSD	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

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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

Cooling Capacity High Speed 0°/30°	W	10 030
Cooling Capacity High Speed -20°/30°	W	6 150
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

Airflow

Independent from unit engine speed

Airflow	m^3/hr	2 670

TECHNICAL DATA

Service Interval

Service Interval		1 year

Weight

Total unit weight with electric stand-by	kg	293
Total unit weight without electric stand-by	kg	258
Alternator (engine driven vehicles only)	kg	60

Unit Dimensions

Height	mm	612
Width	mm	2 142
Depth	mm	563

Noise

Sound Pressure Level LSD	dB(A)	56.2
Sound pressure level High Speed/Stand-by (DIN 8958@7m)	dB(A)	64
Sound pressure level Whisper Pro Mode	dB(A)	62

Refrigerant

Refrigerant Type		R-452A
Charge	kg	4,2
GWP/kg		1 945
Refrigerant GWP (Total)		8 169

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LARGE TRUCK - SINGLE TEMPERATURE

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

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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 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

Airflow

Independent from unit engine speed

Airflow	m^3/hr	4 240

TECHNICAL DATA

Service Interval

Service Interval		1 year

Weight

Total unit weight with electric stand-by	kg	315
Total unit weight without electric stand-by	kg	280
Alternator (engine driven vehicles only)	kg	60

Unit Dimensions

Height	mm	612
Width	mm	2 142
Depth	mm	563

Noise

Sound Pressure Level LSD	dB(A)	56.2
Sound pressure level High Speed/Stand-by (DIN 8958@7m)	dB(A)	64
Sound pressure level Whisper Pro Mode	dB(A)	62

Refrigerant

Refrigerant Type		R-452A
Charge	kg	4,5
GWP/kg		1 945
Refrigerant GWP (Total)		8 752

AVAILABLE EVAP CONFIGURATIONS

E-3 + E-3

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LARGE TRUCK - SINGLE TEMPERATURE

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

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Condenser Width 1 592 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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	Not available

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

Airflow

Independent from unit engine speed

Airflow	m^3/hr	2 730

Heating Capacity

Heating Capacity 18°/-18° (2400rpm)		Not applicable

TECHNICAL DATA

Compressor

Model		QP21
Displacement	cm^3	215
Number of cylinders		10

Generic (Boxlength, Refrigerant, ...)

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

Weight

Total Unit Weight (30 Model)		100
Total Unit Weight (50 Model)		160
Condenser w/o electric stand-by	kg	100
Condenser with electric stand-by	kg	160
Evaporator	kg	35
Swash Plate Compressor	kg	8.5

Defrost

Defrost		Automatic hot gas defrost

Unit Dimensions

Height	mm	458
Width	mm	1 592
Depth	mm	523
Condenser Height	mm	458.7
Condenser Width	mm	1 592
Condenser Depth	mm	523
Evaporator Height	mm	232
Evaporator Width	mm	1 650
Evaporator Depth	mm	592

Electrical Stand by Motor

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

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

In-cab Controls Height	mm	46
In-cab Controls Width	mm	135
In-cab Controls Depth	mm	25

Refrigerant		
Refrigerant Weight		4.85
Refrigerant Type		R-134a
Charge	kg	10: 4.55 -- 20: 4.85
GWP/kg		1 430
Refrigerant GWP (Total)		6 936

AVAILABLE EVAP CONFIGURATIONS

ES150, ES400, ES600, ES800

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
ThermoKare Service contracts			×
Data capture & communications			
USB Datalogger			×
TouchPrint data logger			×
Wintrac (data analysis software)			×
Datalogger Jr			×
Load Protection			
Bumper feet roof mounting	×		
HMI holder	×		
Kit hoses large (upgrade)	×		
Kit swivel manifold (upgrade)	×		
Din Adapter		×	
Hose Cover		×	
Door switches		×	

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Condenser Width 1 864 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

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	6 455

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	Not available

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

Airflow	m^3/hr	3 540
Volume @ 0 Pa static pressure	m^3/hr	3 540

TECHNICAL DATA

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	6 016

Compressor

Model		QP25
Displacement	cm^3	250
Number of cylinders		10

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-134a
Controller		DSR III

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

Defrost

Defrost		Automatic hot gas defrost

Unit Dimensions

ES-1000 width	mm	1 850
ES-1000 height	mm	233
ES-1000 depth	mm	664
ES-800 width	mm	1 650
ES-800 height	mm	232
ES-800 depth	mm	592
Condenser Height	mm	536
Condenser Width	mm	1 864
Condenser Depth	mm	588
Evaporator ES600 MAX Width	mm	1 330.5
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

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SELF POWERED TRUCK - SINGLE TEMPERATURE

Electrical Stand by Motor		
Voltage / Phase / Frequency		400/3/50 - 230/3/50 - 400/3/60 - 230/3/60
Rating	kW	8,8

Refrigerant		
Charge	kg	10: 5.4 // 20: 5.7

AVAILABLE EVAP CONFIGURATIONS

ES1000, ES150, ES300, ES600, ES800

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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

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

Heating 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

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

Service Interval

Service Interval		1 year

Weight

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

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

Sound Pressure Level LSD	dB(A)	56.2
Sound pressure level High Speed/Stand-by (DIN 8958@7m)	dB(A)	64
Sound pressure level Whisper Pro Mode	dB(A)	62

Refrigerant

Refrigerant Type		R-452A
Charge	kg	5
GWP/kg		1 945
Refrigerant GWP (Total)		9 725

AVAILABLE EVAP CONFIGURATIONS

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

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LARGE TRUCK - MULTI TEMPERATURE

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

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

Heating 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		
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

Service Interval		
Service Interval		1 year

Weight		
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		
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		
Sound Pressure Level LSD	dB(A)	56.2
Sound pressure level High Speed/Stand-by (DIN 8958@7m)	dB(A)	65
Sound pressure level Whisper Pro Mode	dB(A)	62

Refrigerant		
Refrigerant Type		R-452A
Charge	kg	6
GWP/kg		1 945
Refrigerant GWP (Total)		11 670

AVAILABLE EVAP CONFIGURATIONS

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

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LARGE TRUCK - MULTI TEMPERATURE

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

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T-800X Spectrum

DELIVERING WHAT MATTERS

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

PERFORMANCE

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	7 840
Cooling Capacity HSD -20°/30°	W	3 620

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	2 740
Cooling Capacity stand-by 0°/30°	W	6 280

Airflow

Independent from unit engine speed

Airflow S-2 (@ 0 Pa static pressure)	m^3/hr	1 230
Airflow S-3 (@ 0 Pa static pressure)	m^3/hr	1 785

Heating Capacity

Heating Capacity 18°/-18° S-2	W	4 800
Heating Capacity 18°/-18° S-3	W	8 050

TECHNICAL DATA

Service Interval

Service Interval		2 000

Weight

Total Unit Weight	kg	389
Evaporator S-2	kg	36
Evaporator S-3	kg	51

Unit Dimensions

Height	mm	632
Width	mm	1 888
Depth	mm	919
Evaporator S-2 (width x depth x height)	mm	760 x 1 000 x 200
Evaporator S-3 (width x depth x height)	mm	1 100 x 1 000 x 200

Noise

Sound Pressure Level HSD	dB(A)	67,9
Sound Pressure Level LSD	dB(A)	63,5
Sound Pressure Level Stand-by	dB(A)	59,4
Sound Power Level HSD (Whisper Kit)	dB(A)	93
Sound Pressure Level HSD (Whisper Kit)	dB(A)	66,2
Sound Pressure Level LSD (Whisper Kit)	dB(A)	61,7
Sound Pressure Level Stand-by (Whisper Kit)	dB(A)	57,8

Refrigerant

Refrigerant Type		R-452A
Charge	kg	6.25
GWP/kg		2 140
Refrigerant GWP (Total)		13,4

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LARGE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
Life cost management			
TK Battery - EnergyOne Silver (Wet Cells 640CCA)	×		
TK Battery - EnergyOne Gold (Wet Cells 760 CCA)		×	
TK Battery - EnergyOne Platinum (AGM 880 CCA)		×	
ServiceWatch maintenance logger	×		
ThermoKare Service contracts			×
Cycle-Sentry start/stop control system	×		
EMI 2000 extended maintenance	×		
2-year warranty coverage	×		
Data capture & communications			
TouchPrint Printer			×
TouchPrint data logger			×
TracKing? (tracking and load monitoring)			×
Wintrac (data analysis software)			×
Load Protection			
Premium in-cab display	×		
Low ambient option		×	
Engine Block Heater (T-1100X/T-1300X ST & MT only)		×	
Auto phase correction	×		
Door switches		×	×
Diesel/electric auto switching	×		
Customization			
Fuel tank plastic 90L		×	×
Fuel level sensor		×	×
Drain kit			×
Service support handle		×	×
Whisper noise attenuating kit		×	
Electronic Fuel Capture			×
Remote Status Light and Combination Display			×
Hose management kit		×	
Solar Panel			×
Evaporator guard			×
Body mount enclosure			×
Rear remote control		×	
Triple Combo Display			×

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Condenser Width 1 608 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

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	11 300
Cooling Capacity HSD -20°/30°	W	6 400

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	4 500
Individual Evaporator Capacity Stand-by 0°/30°	W	10 300

Refrigeration Capacity

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

Capacity on engine power 0°C	W	11 300
Capacity on engine power -20°C	W	6 400
Capacity on electrical stand by 0°C	W	10 300
Capacity on electrical stand by -20°C	W	4 500

Airflow

Independent from unit engine speed

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

TECHNICAL DATA

Features

Noise level		101 dB(A) guaranteed sound power level

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	10 300

Controller

General		TSR-3

Compressor

Model		X430 C5
Displacement	cm^3	489
Number of cylinders		4

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A

Service Interval

Service Interval		2 000

Weight

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

Defrost

Defrost		Automatic hot gas defrost

Unit Dimensions

Evaporator S2 Height	mm	200
Evaporator S2 Width	mm	760

Engine

Model		TK 376
Rating	kW	14.6

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SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE

Evaporator S2 Depth	mm	1 000
Evaporator S3 Height	mm	200
Evaporator S3 Width	mm	1 100
Evaporator S3 Depth	mm	1 000
Condenser Height	mm	636
Condenser Width	mm	1 608
Condenser Depth	mm	721
Evaporator Height	mm	S-4.2: 152
Evaporator Width	mm	S-4.2: 1250
Evaporator Depth	mm	S-4.2: 988

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
Sound Power Level HSD	dB(A)	100
Sound Pressure Level HSD	dB(A)	73.4
Sound Pressure Level LSD	dB(A)	66.7
Sound Pressure Level Stand-by	dB(A)	63.4

Refrigerant		
Refrigerant Weight		8.5
Refrigerant Type		R-452A
Charge	kg	8.5
GWP/kg		2 140
Refrigerant GWP (Total)		18 190

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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

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

Controller

General		TSR-3

Compressor

Model		X430 C5
Displacement	cm^3	489
Number of cylinders		4

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A

Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	63.5

Defrost

Defrost		Automatic hot gas defrost

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 1 592 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

(Electric) Stand-by Capacity		
Cooling Capacity stand-by -20°/30°	W	3 519
Individual Evaporator Capacity Stand-by 0°/30°	W	5 300

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

Airflow Independent from unit engine speed		
Airflow	m^3/hr	2 x 1837
ES400+ES400	m^3/hr	1760x2
ES600 MAX+ES150MAX	m^3/hr	2260+890
ES600 MAX + 2XES150MAX	m^3/hr	2260+(2x890)

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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		
Heating Capacity 18°/-18° (2400rpm)		4 500
On the road	W	4 500
Electric Stand By Operation	W	4 000

TECHNICAL DATA

Compressor		
Model		QP21
Displacement	cm^3	215
Number of cylinders		10

Generic (Boxlength, Refrigerant, ...)		
Box volume	m^3	40
Refrigerant		R-404A/R-452A
Airflow	m^3/hr	1 760
Controller		DSR III

Weight		
Total Unit Weight (30 Model)		100
Total Unit Weight (50 Model)		160
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

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		
Refrigerant Weight		5.2
Refrigerant Type		R-452A
Charge	kg	ES400+ES400: 5.2 -- ES600+ES150: 5.0 -- ES600+2XES150: 5.15
GWP/kg		3 922

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DIRECT DRIVE TRUCK - MULTI TEMPERATURE

Refrigerant GWP (Total)		20 394

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DIRECT DRIVE TRUCK - MULTI TEMPERATURE

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

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SELF POWERED TRUCK - MULTI TEMPERATURE



Condenser Width 1 864 mm x Depth 588 mm x Height 536 mm

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-404A
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

Unit Dimensions

Electrical Stand by Motor

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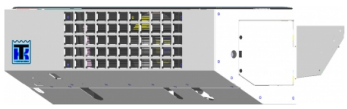
SELF POWERED TRUCK - MULTI TEMPERATURE

ES-1000 width	mm	1 850
ES-1000 height	mm	233
ES-1000 depth	mm	664
ES-800 width	mm	1 650
ES-800 height	mm	232
ES-800 depth	mm	592
Condenser Height	mm	536
Condenser Width	mm	1 864
Condenser Depth	mm	588
Evaporator ES600 MAX Height	mm	240
Evaporator ES600 MAX Width	mm	1 330.5
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

Voltage / Phase / Frequency		400/3/50 - 230/3/50 - 400/3/60 - 230/3/60
Rating	kW	8.8

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RT-800X

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

High Speed Diesel Capacity

.

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

(Electric) Stand-by Capacity

.

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

Airflow

Independent from unit engine speed

Airflow HSD		3 040

Heating Capacity

Heating Capacity HSD 20°/-18°		6 220

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A

Service Interval

Service Interval		2 000

Weight

Total Unit Weight (50 Model)		440

Unit Dimensions

Height	mm	632
Width	mm	1 888
Depth	mm	735

Noise

Sound Power Level HSD	dB(A)	94,5
Sound Pressure Level HSD	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

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SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE



UT-1000R

PERFORMANCE

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	9 700
Cooling Capacity HSD -20°/30°	W	5 300

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	4 500
Individual Evaporator Capacity Stand-by 0°/30°	W	8 400

Airflow

Independent from unit engine speed

Airflow	m^3/hr	2 640

TECHNICAL DATA

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	8 400

Fuel Efficiency

Fuel Efficiency HSD 0°/30°		3.60
Fuel Efficiency HSD -20°/30°		2.27

Service Interval

Service Interval		2 000

Noise

Sound Power Level HSD	dB(A)	98
Sound Pressure Level HSD	dB(A)	70.7
Sound Pressure Level LSD	dB(A)	66.7
Sound Pressure Level Stand-by	dB(A)	63.4

Refrigerant

Refrigerant Weight		3.9
Refrigerant Type		R-452A
GWP/kg		2 140
Refrigerant GWP (Total)		8 346

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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

TECHNICAL DATA

Features

Noise level		101 dB(A) guaranteed sound power level

Controller

General		TSR-3

Compressor

Model		X430 C5
Displacement	cm^3	489
Number of cylinders		4

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A

Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	104

Defrost

Defrost		Automatic hot gas defrost

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 safetey 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

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	13 100
Cooling Capacity HSD -20°/30°	W	7 100

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	5 300
Individual Evaporator Capacity Stand-by 0°/30°	W	10 400

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

Airflow

Independent from unit engine speed

Airflow	m^3/hr	3 350
Volume @ 0 Pa static pressure	m^3/hr	3 350

Heating Capacity

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

TECHNICAL DATA

Features

Noise level		101 dB(A) guaranteed sound power level

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	10 400

Controller

General		TSR-3

Fuel Efficiency

Fuel Efficiency HSD 0°/30°		4.06
Fuel Efficiency HSD -20°/30°		2.66

Compressor

Model		X430 C5
Displacement	cm^3	489
Number of cylinders		4

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A

Service Interval

Service Interval		2 000

Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	63.5

Defrost

Defrost		Automatic hot gas defrost

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

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SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE

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
Sound Power Level HSD	dB(A)	100
Sound Pressure Level HSD	dB(A)	73.4
Sound Pressure Level LSD	dB(A)	66.7
Sound Pressure Level Stand-by	dB(A)	63.4

Refrigerant		
Refrigerant Weight		4.6
Refrigerant Type		R-452A
Charge	kg	4.6
GWP/kg		2 140
Refrigerant GWP (Total)		9 844

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Condenser Width 1 608 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

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	11 300
Cooling Capacity HSD -20°/30°	W	6 400

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	4 500
Individual Evaporator Capacity Stand-by 0°/30°	W	10 300

Refrigeration Capacity

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

Capacity on engine power 0°C	W	11 300
Capacity on engine power -20°C	W	6 400
Capacity on electrical stand by 0°C	W	10 300
Capacity on electrical stand by -20°C	W	4 500

Airflow

Independent from unit engine speed

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

TECHNICAL DATA

Features

Noise level		101 dB(A) guaranteed sound power level

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	10 300

Controller

General		TSR-3

Compressor

Model		X430 C5
Displacement	cm^3	489
Number of cylinders		4

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A

Service Interval

Service Interval		2 000

Weight

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

Defrost

Defrost		Automatic hot gas defrost

Unit Dimensions

Evaporator S2 Height	mm	200
Evaporator S2 Width	mm	760

Engine

Model		TK 376
Rating	kW	14.6

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SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE

Evaporator S2 Depth	mm	1 000
Evaporator S3 Height	mm	200
Evaporator S3 Width	mm	1 100
Evaporator S3 Depth	mm	1 000
Condenser Height	mm	636
Condenser Width	mm	1 608
Condenser Depth	mm	721
Evaporator Height	mm	S-4.2: 152
Evaporator Width	mm	S-4.2: 1250
Evaporator Depth	mm	S-4.2: 988

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
Sound Power Level HSD	dB(A)	100
Sound Pressure Level HSD	dB(A)	73.4
Sound Pressure Level LSD	dB(A)	66.7
Sound Pressure Level Stand-by	dB(A)	63.4

Refrigerant		
Refrigerant Weight		8.5
Refrigerant Type		R-452A
Charge	kg	8.5
GWP/kg		2 140
Refrigerant GWP (Total)		18 190

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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

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

Controller

General		TSR-3

Compressor

Model		X430 C5
Displacement	cm^3	489
Number of cylinders		4

Generic (Boxlength, Refrigerant, ...)

Refrigerant		R-452A

Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	63.5

Defrost

Defrost		Automatic hot gas defrost

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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	365

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

Airflow	m^3/hr	745
Volume @ 0 Pa static pressure	m^3/hr	745

TECHNICAL DATA

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	910

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	745

Weight

Total Unit Weight (30 Model)		23
Model 50	kg	23

Refrigerant

Refrigerant Weight		0.62
Refrigerant Type		R-134a
GWP/kg		1 430
Refrigerant GWP (Total)		887

AVAILABLE EVAP CONFIGURATIONS

ES100

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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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	770

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

Airflow	m^3/hr	1 100
Volume @ 0 Pa static pressure	m^3/hr	1 100

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	1 100

Weight

Total Unit Weight (30 Model)		23
Model 50	kg	23

Refrigerant

Refrigerant Weight		0.95
Refrigerant Type		R-134a
GWP/kg		1 430
Refrigerant GWP (Total)		1 359

AVAILABLE EVAP CONFIGURATIONS

ES200

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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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	845

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

Airflow	m^3/hr	1 400
Volume @ 0 Pa static pressure	m^3/hr	1 400

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	1 400

Weight

Total Unit Weight (30 Model)		23
Model 50	kg	23

Refrigerant

Refrigerant Weight		1.2
Refrigerant Type		R-134a
GWP/kg		1 430
Refrigerant GWP (Total)		1 716

AVAILABLE EVAP CONFIGURATIONS

ES300

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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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	Not available

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

Airflow	m^3/hr	1 650
Volume @ 0 Pa static pressure	m^3/hr	1 650

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	1 650

Weight

Total Unit Weight (30 Model)		31
Model 50	kg	31

Refrigerant

Refrigerant Weight		1.2
Refrigerant Type		R-134a
GWP/kg		1 430
Refrigerant GWP (Total)		1 716

AVAILABLE EVAP CONFIGURATIONS

ES300

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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)

PERFORMANCE

(Electric) Stand-by Capacity .		
Cooling Capacity stand-by -20°/30°	W	Not available

Airflow Independent from unit engine speed		
Airflow	m^3/hr	1 650

TECHNICAL DATA

Weight		
Total Unit Weight (30 Model)		31

Refrigerant		
Refrigerant Weight		1.3
Refrigerant Type		R-134a
GWP/kg		1 430
Refrigerant GWP (Total)		1 859

AVAILABLE EVAP CONFIGURATIONS

ES400

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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)

PERFORMANCE

(Electric) Stand-by Capacity .		
Cooling Capacity stand-by -20°/30°	W	Not available

Airflow Independent from unit engine speed		
Airflow	m^3/hr	1 650

TECHNICAL DATA

Weight		
Total Unit Weight (30 Model)		31

Refrigerant		
Refrigerant Weight		1.6
Refrigerant Type		R-134a
GWP/kg		1 430
Refrigerant GWP (Total)		2 288

AVAILABLE EVAP CONFIGURATIONS

ES500

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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)

PERFORMANCE

(Electric) Stand-by Capacity .		
Cooling Capacity stand-by -20°/30°	W	Not available

Airflow Independent from unit engine speed		
Airflow	m^3/hr	1 650

TECHNICAL DATA

Weight		
Total Unit Weight (30 Model)		31

Refrigerant		
Refrigerant Weight		1.9
Refrigerant Type		R-404a/R-452a
GWP/kg		2 140
Refrigerant GWP (Total)		4 066

AVAILABLE EVAP CONFIGURATIONS

ES600

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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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	770

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

TECHNICAL DATA

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	1 937

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

Total Unit Weight (30 Model)		25
Total Unit Weight (50 Model)		75
Model 30	kg	25
Model 50	kg	75
Installation kit	kg	24
Condenser w/o electric stand-by	kg	25
Condenser with electric stand-by	kg	43
Evaporator	kg	15
Swash Plate Compressor	kg	6.9

Defrost

Defrost		Automatic hot gas defrost

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

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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

Noise		
Road Mode	dB(A)	85

Refrigerant		
Refrigerant Weight		1
Refrigerant Type		R-134a
Charge	kg	10: 1.0 -- 20: 1.2
GWP/kg		1 430
Refrigerant GWP (Total)		1 430

AVAILABLE EVAP CONFIGURATIONS

ES100, ES100N, ES200

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

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

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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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	670

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

Airflow

Independent from unit engine speed

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

Heating Capacity

Heating Capacity 18°/-18° (2400rpm)		2 200
On the road	W	2 200
Electric Stand By Operation	W	1 300

TECHNICAL DATA

Compressor

Model		QP08
Displacement	cm^3	131
Number of cylinders		6

Generic (Boxlength, Refrigerant, ...)

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

Weight

Total Unit Weight (30 Model)		25
Total Unit Weight (50 Model)		43
Installation kit	kg	24
Condenser w/o electric stand-by	kg	25
Condenser with electric stand-by	kg	43
Evaporator	kg	14

Defrost

Defrost		Automatic hot gas defrost

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

Engine

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

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Evaporator Depth	mm	540

Noise		
Road Mode	dB(A)	84

Refrigerant		
Refrigerant Weight		1.1
Refrigerant Type		R-452A
Charge	kg	1.2
GWP/kg		2 140
Refrigerant GWP (Total)		2 354

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

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

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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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	1 161

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

Airflow

Independent from unit engine speed

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

Heating Capacity

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

TECHNICAL DATA

Compressor

Model		QP13
Displacement	cm^3	131
Number of cylinders		6

Generic (Boxlength, Refrigerant, ...)

Box volume	m^3	13 - 22
Refrigerant		R-404A/R-452A
Airflow	m^3/hr	1 100
Controller		DSR III

Weight

Total Unit Weight (30 Model)		25
Total Unit Weight (50 Model)		75
Model 30	kg	25
Model 50	kg	75
Installation kit	kg	24
Condenser w/o electric stand-by	kg	25
Condenser with electric stand-by	kg	43
Evaporator	kg	15
Swash Plate Compressor	kg	6.9

Defrost

Defrost		Automatic hot gas defrost

Unit Dimensions

Height	mm	222
Width	mm	1 180
Depth	mm	485
Condenser w/o electric stand-by Height	mm	242

Electrical Stand by Motor

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

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

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

Rating	kW	3.7

Noise		
Road Mode	dB(A)	85

Refrigerant		
Refrigerant Weight		1
Refrigerant Type		R-452A
Charge	kg	10/30: 1.0 -- 20/50: 1.2 kg
GWP/kg		2 140
Refrigerant GWP (Total)		2 140

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

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

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V-300

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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	845

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

Airflow	m^3/hr	2 033
Volume @ 0 Pa static pressure	m^3/hr	2 033

TECHNICAL DATA

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	2 140

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

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

Defrost

Defrost		Automatic hot gas defrost

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

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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

Noise		
Road Mode	dB(A)	85

Refrigerant		
Refrigerant Weight		1.3
Refrigerant Type		R-134a
Charge	kg	10: 1.1 -- 20: 1.3
GWP/kg		1 430
Refrigerant GWP (Total)		1 859

AVAILABLE EVAP CONFIGURATIONS

ES300

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

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

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V-300 MAX

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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	1 435

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

Airflow

Independent from unit engine speed

Airflow	m^3/hr	1 379
Volume @ 0 Pa static pressure	m^3/hr	1 379

Heating Capacity

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

TECHNICAL DATA

Compressor

Model		QP15
Displacement	cm^3	146.7
Number of cylinders		6

Generic (Boxlength, Refrigerant, ...)

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

Weight

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

Defrost

Defrost		Automatic hot gas defrost

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

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

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

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

Noise		
Road Mode	dB(A)	85

Refrigerant		
Refrigerant Weight		1.3
Refrigerant Type		R-452A
Charge	kg	10/30: 1.1 -- 20/50: 1.3
GWP/kg		2 140
Refrigerant GWP (Total)		2 782

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

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

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V-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

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	3 212

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	Not Applicable

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

TECHNICAL DATA

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
Refrigerant Type		R-134a
GWP/kg		1 430
Refrigerant GWP (Total)		1 859

AVAILABLE EVAP CONFIGURATIONS

ES100, ES200, ES300

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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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	1 496

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

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

Heating Capacity

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

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	1 990

Weight

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

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Condenser Width 1 864 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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	Not Applicable

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

Airflow	m^3/hr	2 353
Airflow HSD		2 353
Volume @ 0 Pa static pressure	m^3/hr	2 353

TECHNICAL DATA

Compressor

Model		QP25
Displacement	cm^3	250
Number of cylinders		10

Generic (Boxlength, Refrigerant, ...)

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

Weight

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

Defrost

Defrost		Automatic hot gas defrost

Unit Dimensions

Condenser Height	mm	536
Condenser Width	mm	1 864
Condenser Depth	mm	588

Electrical Stand by Motor

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

Refrigerant

Charge	kg	10: 5.4 // 20: 5.7

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

AVAILABLE EVAP CONFIGURATIONS
ES500

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V-500X MAX

High performance, sustainable refrigeration with precise temperature control

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PERFORMANCE

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	1 640

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	m^3/hr	2 353
Airflow HSD		2 353
Volume @ 0 Pa static pressure	m^3/hr	2 353

Heating Capacity

Heating Capacity 18°/-18° (2400rpm)		2 830

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	2 353

Weight

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

Refrigerant

Refrigerant Weight		2
Refrigerant Type		R-452a
GWP/kg		2 140
Refrigerant GWP (Total)		4 280

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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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	1 916

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

Airflow	m^3/hr	2 505
Airflow HSD		2 505
Volume @ 0 Pa static pressure	m^3/hr	2 505

Heating Capacity

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

TECHNICAL DATA

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	4 105

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	2 505

Weight

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

Refrigerant

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

AVAILABLE EVAP CONFIGURATIONS

ES100N, ES150, ES300, ES500, ES600

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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

Airflow

Independent from unit engine speed

Airflow	m^3/hr	1 654

TECHNICAL DATA

Electricity

Power supply		400V DC

Defrost

Defrost		Automatic hot gas defrost

Noise

Road Mode	dB(A)	89

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

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

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

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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

Airflow

Independent from unit engine speed

Airflow	m^3/hr	2 657

TECHNICAL DATA

Electricity

Power supply		400V DC
Maximum power draw		3398 W

Defrost

Defrost		Automatic hot gas defrost

Noise

Road Mode	dB(A)	89

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

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

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

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E-600 MAX SPECTRUM w 2 x ES300

The electric edge in urban and inner-city delivery

PERFORMANCE

(Electric) Stand-by Capacity .		
Cooling Capacity stand-by -20°/30°	W	2 427

Airflow Independent from unit engine speed		
Airflow	m^3/hr	1678 + 1678

TECHNICAL DATA

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 HSD	dB(A)	89

AVAILABLE EVAP CONFIGURATIONS

ES300

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DIRECT DRIVE TRUCK - MULTI TEMPERATURE

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

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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

Heating Capacity

On the road	W	2 209

Airflow
Independent from unit engine speed

ES300+ES150	m^3/hr	1678 + 1038

TECHNICAL DATA

Electricity

Power supply		400V DC
Maximum power draw		3 412

Defrost

Defrost		Automatic hot gas defrost

Noise

Road Mode	dB(A)	89

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

Refrigerant

Refrigerant Type		R-452A

AVAILABLE EVAP CONFIGURATIONS

ES150, ES300

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DIRECT DRIVE TRUCK - MULTI TEMPERATURE

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

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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

High Speed Diesel Capacity

.

Cooling Capacity HSD 0°/30°	W	3 212

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	Not Applicable

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

TECHNICAL DATA

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
Refrigerant Type		R-134a
GWP/kg		1 430
Refrigerant GWP (Total)		1 859

AVAILABLE EVAP CONFIGURATIONS

ES100, ES200, ES300

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V-400X MAX

High performance, sustainable refrigeration with precise temperature control

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PERFORMANCE

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	1 496

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

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

Heating Capacity

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

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	1 990

Weight

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

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V-400X MAX SPECTRUM

High performance, sustainable refrigeration with precise temperature control

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PERFORMANCE

(Electric) Stand-by Capacity

.

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

Refrigeration Capacity

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

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

Airflow

Independent from unit engine speed

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

Heating Capacity

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

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	1 480

Weight

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

Refrigerant

Refrigerant Weight		1.9
Refrigerant Type		R-452A

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Condenser Width 1 864 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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	Not Applicable

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

Airflow	m^3/hr	2 353
Airflow HSD		2 353
Volume @ 0 Pa static pressure	m^3/hr	2 353

TECHNICAL DATA

Compressor

Model		QP25
Displacement	cm^3	250
Number of cylinders		10

Generic (Boxlength, Refrigerant, ...)

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

Weight

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

Defrost

Defrost		Automatic hot gas defrost

Unit Dimensions

Condenser Height	mm	536
Condenser Width	mm	1 864
Condenser Depth	mm	588

Electrical Stand by Motor

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

Refrigerant

Charge	kg	10: 5.4 // 20: 5.7

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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

AVAILABLE EVAP CONFIGURATIONS
ES500

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V-500X MAX

High performance, sustainable refrigeration with precise temperature control

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PERFORMANCE

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	1 640

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	m^3/hr	2 353
Airflow HSD		2 353
Volume @ 0 Pa static pressure	m^3/hr	2 353

Heating Capacity

Heating Capacity 18°/-18° (2400rpm)		2 830

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	2 353

Weight

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

Refrigerant

Refrigerant Weight		2
Refrigerant Type		R-452a
GWP/kg		2 140
Refrigerant GWP (Total)		4 280

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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

(Electric) Stand-by Capacity

.

Cooling Capacity stand-by -20°/30°	W	1 916

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

Airflow	m^3/hr	2 505
Airflow HSD		2 505
Volume @ 0 Pa static pressure	m^3/hr	2 505

Heating Capacity

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

TECHNICAL DATA

Cooling Capacity

@ ambient temperature +37.8°C (100°F)

Cooling Capacity 0°/30°	Watt	4 105

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	2 505

Weight

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

Refrigerant

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

AVAILABLE EVAP CONFIGURATIONS

ES100N, ES150, ES300, ES500, ES600

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V-600X MAX SPECTRUM

High performance, sustainable refrigeration with precise temperature control

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

PERFORMANCE

(Electric) Stand-by Capacity

.

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

Refrigeration Capacity

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

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

Airflow

Independent from unit engine speed

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

Heating Capacity

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

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	1 990

Weight

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

Refrigerant

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

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V-400X MAX SPECTRUM

High performance, sustainable refrigeration with precise temperature control

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

PERFORMANCE

(Electric) Stand-by Capacity

.

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

Refrigeration Capacity

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

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

Airflow

Independent from unit engine speed

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

Heating Capacity

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

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	1 480

Weight

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

Refrigerant

Refrigerant Weight		1.9
Refrigerant Type		R-452A

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V-600X MAX SPECTRUM

High performance, sustainable refrigeration with precise temperature control

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

PERFORMANCE

(Electric) Stand-by Capacity

.

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

Refrigeration Capacity

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

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

Airflow

Independent from unit engine speed

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

Heating Capacity

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

TECHNICAL DATA

Generic (Boxlength, Refrigerant, ...)

Airflow	m^3/hr	1 990

Weight

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

Refrigerant

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

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V-200 MAX SPECTRUM

Superior temperature control

The V-200 MAX Spectrum is the smallest unit in the V-Series Spectrum platform, created for vans or trucks up to 12 m3. It is available with an ES100+ES100 configuration, the smallest evaporators in the range in order to properly address the size limitation of the smallest vans in the market.

- Complete multi-temp range
- More flexible system for fresh, frozen and deep frozen applications
- Transversal and longitudinal compartments
- Temperature accuracy
- Superior performance
- Ease of installation

PERFORMANCE

Refrigeration Capacity: Individual Cooling Capacity

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

(Electric) Stand-by Capacity

.

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

Refrigeration Capacity

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

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

Airflow

Independent from unit engine speed

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

Heating Capacity

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

TECHNICAL DATA

Compressor

Model		QP13
Displacement	cm^3	131
Number of cylinders		6

Generic (Boxlength, Refrigerant, ...)

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

Weight

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

Defrost

Defrost		Automatic hot gas defrost

Unit Dimensions

Height	mm	221
Width	mm	1 180
Depth	mm	535

Electrical Stand by Motor

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

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

		230/3/60
Rating	kW	3.8

Noise		
Road Mode	dB(A)	85

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

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DIRECT DRIVE TRUCK - MULTI TEMPERATURE

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

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V-300 MAX Spectrum

Superior temperature control

The V300 MAX Spectrum unit is capable of cooling vans and trucks up to 16 m3 and can be configured with three evaporator options (ES150 + ES150, ES200 + ES100, and ES150 + ES100), increasing the flexibility for customers to adapt most efficiently to their transport needs.

- Superior temperature control
- User friendly Direct Smart Reefer
- Flexibility
- Improved reliability of electrical components
- Ease of maintenance and service
- Ease of installation

PERFORMANCE

Refrigeration Capacity: Individual Cooling Capacity

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

(Electric) Stand-by Capacity

.

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

Refrigeration Capacity

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

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

Airflow

Independent from unit engine speed

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

Heating Capacity

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

TECHNICAL DATA

Compressor

Model		QP15
Displacement	cm^3	146.7
Number of cylinders		6

Generic (Boxlength, Refrigerant, ...)

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

Weight

Defrost

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

Defrost		Automatic hot gas defrost

Unit Dimensions

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

Electrical Stand by Motor

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

Noise

Road Mode	dB(A)	85

Refrigerant

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

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DIRECT DRIVE TRUCK - MULTI TEMPERATURE

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

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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 Périssable”) 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 value[1] = 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 observed[1]

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.

THERMO KING

Thermo King – by Trane Technologies (NYSE: TT), a global climate innovator – is a worldwide leader in sustainable transport climate control solutions.

We engineer and provide cutting-edge technology and solutions with sustainability, reliability, and the customer experience in mind. Thermo King has provided transport temperature control solutions for various applications, including trailers, truck bodies, buses, air, shipboard containers, and railway cars since 1938.

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