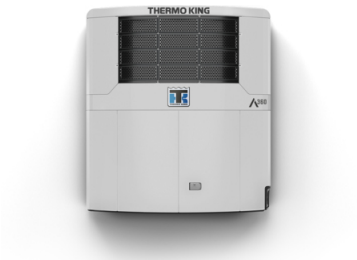


TRUCK & TRAILER PRODUCT GUIDE 2022

TECHNICAL SPECIFICATIONS
FEATURES & OPTIONS

TRAILER - SINGLE TEMPERATURE



UNIT Width 2076 mm x Depth 440 mm x Height 2270 mm

A-360

Entry-level excellence

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

PERFORMANCE			
REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW: INDEPENDENT FROM UNIT ENGINE SPEED	
Capacity on engine power 0°C	15600 W	Airflow volume @ 0 Pa static pressure - Default @ Pull Down	5000 m3/hr
Capacity on engine power -20°C	8100 W	Airflow volume @ 0 Pa static pressure - Max @ Pull Down	5500 m3/hr
Capacity on electrical stand by 0°C	12700 W	Airflow volume @ 0 Pa static pressure - Default @ Set Point	3400 m3/hr
Capacity on electrical stand by -20°C	6600 W	Airflow volume @ 0 Pa static pressure - Max @ Set Point	5000 m3/hr

TECHNICAL DATA			
HEATING CAPACITY: BOX TEMPERATURE +2°C		WEIGHT INCLUDING BATTERY	
Capacity on engine power (Outside air temperature: -20°C)	10750 W	Model Standard	830 kg

ENGINE		ELECTRICAL STAND BY MOTOR	
Maintenance Interval	3000 hrs	Voltage / Phase / Frequency	400/3/50 460/3/60
Number of cylinders	4	Rating	9.3 kW
Capacity	2,1 L		

SOUND PRESSURE LEVEL	
High Speed Diesel	65 dB(A)
Electric Standby	64 dB(A)

TRAILER - SINGLE TEMPERATURE

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

TRAILER - SINGLE TEMPERATURE



UNIT Width 2076 mm x Depth 440 mm x Height 2270 mm

A-400

The new standard in trailer refrigeration

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

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	16200 W
Capacity on engine power -20°C	8300 W
Capacity on electrical stand by 0°C	13000 W
Capacity on electrical stand by -20°C	6700 W

AIRFLOW: INDEPENDENT FROM UNIT ENGINE SPEED

Airflow volume @ 0 Pa static pressure - Default @ Pull Down	5000 m3/hr
Airflow volume @ 0 Pa static pressure - Max @ Pull Down	5500 m3/hr
Airflow volume @ 0 Pa static pressure - Default @ Set Point	3400 m3/hr
Airflow volume @ 0 Pa static pressure - Max @ Set Point	5000 m3/hr

TECHNICAL DATA

HEATING CAPACITY: BOX TEMPERATURE +2 °C

Capacity on engine power (Outside air temperature: -20°C)	10750 W
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WEIGHT

INCLUDING BATTERY

Model Standard	830 kg
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ENGINE

Maintenance Interval	3000 hrs
Number of cylinders	4
Capacity	2,1 L

ELECTRICAL STAND BY MOTOR

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

SOUND PRESSURE LEVEL

High Speed Diesel	65 dB(A)
Electric Standby	64 dB(A)

TRAILER - SINGLE TEMPERATURE

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

TRAILER - SINGLE TEMPERATURE



UNIT Width 2076 mm x Depth 440 mm x Height 2270 mm

A-500

When your cargo deserves the best of the best

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

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	19500 W
Capacity on engine power -20°C	10400 W
Capacity on electrical stand by 0°C	14600 W
Capacity on electrical stand by -20°C	8400 W

AIRFLOW: INDEPENDENT FROM UNIT ENGINE SPEED

Airflow volume @ 0 Pa static pressure - Default @ Pull Down	5500 m3/hr
Airflow volume @ 0 Pa static pressure - Max @ Pull Down	6000 m3/hr
Airflow volume @ 0 Pa static pressure - Default @ Set Point	3400 m3/hr
Airflow volume @ 0 Pa static pressure - Max @ Set Point	5500 m3/hr

TECHNICAL DATA

HEATING CAPACITY: BOX TEMPERATURE +2 °C

Capacity on engine power (Outside air temperature: -20°C)	15900 W
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WEIGHT

INCLUDING BATTERY

Model Standard	835 kg
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ENGINE

Maintenance Interval	3000 hrs
Number of cylinders	4
Displacement	2,1

ELECTRICAL STAND BY MOTOR

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

SOUND PRESSURE LEVEL

High Speed Diesel	67 dB(A)
Electric Standby	64 dB(A)

TRAILER - SINGLE TEMPERATURE

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



A-500 Whisper Pro

Enter the city at night

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

PERFORMANCE

REFRIGERATION CAPACITY HIGH SPEED

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

REFRIGERATION CAPACITY PIEK 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

Airflow volume @ 0 Pa static pressure - Default @ Pull Down	5,000 m3/hr
Airflow volume @ 0 Pa static pressure - Max @ Pull Down	5,000 m3/hr
Airflow volume @ 0 Pa static pressure - Default @ Set Point	3,400 m3/hr
Airflow volume @ 0 Pa static pressure - Max @ Set Point	5,000 m3/hr

TECHNICAL DATA

ENGINE

Maintenance Interval	3000 hrs
Number of cylinders	4
Capacity	2,1 L

ELECTRICAL STAND BY MOTOR

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

TRAILER - SINGLE TEMPERATURE



UNIT Width 2076 mm x Depth 537.4 mm x Height 2279 mm
CONDENSER Width 2076 mm x Depth 537.4 mm x Height 2279 mm

SLXi-200

Choose, connect, care, control

- Lower maintenance cost through longer service intervals
- Quick temperature recovery in all ambient conditions
- Extended application flexibility
- Available as standard with R-452A low GWP refrigerant

PERFORMANCE

REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on engine power 0°C	13500 W	Airflow volume @ 0 pa static pressure	5000 m3/hr
Capacity on engine power -20°C	7500 W	Airflow volume in fully loaded trailer	4680 m3/hr
Capacity on electrical stand by 0°C	10500 W	Discharge velocity - airthrow	14 m/sec
Capacity on electrical stand by -20°C	5900 W		

TECHNICAL DATA

COMPRESSOR		REFRIGERANT CHARGE	
Model	X430 C5	Charge	5 kg
Displacement	492 cm3		
GENERIC (BOXLENGTH, REFRIGERANT, ...)		PULL DOWN	
Boxlength	15 m	+20°C to -20°C (min)	160
Refrigerant	R-452A		
Controller	Smart Reefer 3		
HEATING CAPACITY		WEIGHT INCLUDING BATTERY	
On the road	8000 W	Model 30	737 (Whisper option + 85 kg) kg
		Model 50	793 (Whisper option + 85 kg) kg
ENGINE		ELECTRICAL STAND BY MOTOR	
Model	TK 486V	Voltage / Phase / Frequency	400 / 3 / 50
Rating	17.9 kW	Rating	9.3 kW
Maintenance Interval	3000 hrs		

TRAILER - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
Fuel level sensor		x	x
Premium AGM battery	x		
2-year warranty coverage	x		
EMI 3000: Extended maintenance interval	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint Printer			x
ServiceWatch maintenance logger	x		
TouchPrint data logger			x
TrackKing? (tracking and load monitoring)	x		
Wintrac (data analysis software)			x
USB data port	x		
LOAD PROTECTION			
Air Chute		x	x
Discharge Air Control Freeze protection			x
OptiSet Plus pre-set operating parameters	x		
Door switches		x	x
Diesel/Electric Auto Switching + Auto Phase Correction	x		
CUSTOMIZATION			
Snow Kit dealer fitted		x	x
Tail lift battery charger		x	x
Whisper kit acoustic		x	
Protection bars (ships in multiples of 3)			x
Low voltage disconnect	x		
Solar Panel		x	x
Fuel Tank (Plastic 230L or Aluminium 190L)		x	x
Shock Protection Bars			x
EASE OF USE			
Kit Drop Down HMI		x	x
Rear remote control SR-3		x	x
Status light			x
Triple Combo Display (Fuel, Alarms, Temperature indications)		x	x
Fuel filtration and priming system		x	x

TRAILER - SINGLE TEMPERATURE



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

UNIT Width 2076 mm x Depth 537.4 mm x Height 2279 mm

CONDENSER Width 2076 mm x Depth 537.4 mm x Height 2279 mm

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	15000 W
Capacity on engine power -20°C	7900 W
Capacity on electrical stand by 0°C	11900 W
Capacity on electrical stand by -20°C	6200 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	5000 m3/hr
Airflow volume in fully loaded trailer	4680 m3/hr
Discharge velocity - airthrow	14 m/sec

TECHNICAL DATA

COMPRESSOR

Model	X430 C5
Displacement	492 cm3

REFRIGERANT CHARGE

Charge	5 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

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

PULL DOWN

+20°C to -20°C (min)	150
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HEATING CAPACITY

On the road	12000 W
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WEIGHT

INCLUDING BATTERY

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

ENGINE

Model	TK 486V
Rating	17.9 kW
Maintenance Interval	3000 hrs

ELECTRICAL STAND BY MOTOR

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

TRAILER - SINGLE TEMPERATURE

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

TRAILER - SINGLE TEMPERATURE



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

UNIT Width 2076 mm x Depth 537.4 mm x Height 2279 mm

CONDENSER Width 2076 mm x Depth 537.4 mm x Height 2279 mm

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	18700 W
Capacity on engine power -20°C	10000 W
Capacity on electrical stand by 0°C	13200 W
Capacity on electrical stand by -20°C	7100 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	5500 m3/hr
Airflow volume in fully loaded trailer	5100 m3/hr
Discharge velocity - airthrow	16 m/sec

TECHNICAL DATA

COMPRESSOR

Model	X430 C5
Displacement	492 cm3

REFRIGERANT CHARGE

Charge	5.5 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

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

PULL DOWN

+20°C to -20°C (min)	120
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HEATING CAPACITY

On the road	13300 W
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WEIGHT

INCLUDING BATTERY

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

ENGINE

Model	TK 486V
Rating	17.9 kW
Maintenance Interval	3000 hrs

ELECTRICAL STAND BY MOTOR

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

TRAILER - SINGLE TEMPERATURE

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

TRAILER - MULTI TEMPERATURE



SLXi Spectrum

Ideal for multi-temperature transport

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

UNIT Width 2076 mm x Depth 537.4 mm x Height 2279 mm

CONDENSER Width 2076 mm x Depth 537.4 mm x Height 2279 mm

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	19100 W
Capacity on engine power -20°C	9000 W
Capacity on electrical stand by 0°C	11200 W
Capacity on electrical stand by -20°C	6100 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	5000 m3/hr
Airflow volume in fully loaded trailer	4680 m3/hr
Discharge velocity - airtrow	15 m/sec

TECHNICAL DATA

COMPRESSOR

Model	X430 C5
Displacement	492 cm3

REFRIGERANT CHARGE

Charge	9.5 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

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

HEATING CAPACITY

On the road	12000 W
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WEIGHT

INCLUDING BATTERY

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

ENGINE

Model	TK 486V
Rating	17.9 kW
Maintenance Interval	3000 hrs

ELECTRICAL STAND BY MOTOR

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

TRAILER - MULTI TEMPERATURE

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

TRAILER - MULTI TEMPERATURE



UNIT Width 2076 mm x Depth 537.4 mm x Height 2279 mm
CONDENSER Width 2076 mm x Depth 537.4 mm x Height 2279 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		REFRIGERATION CAPACITY PIEK MODE	
Capacity on engine power 0°C	18400 W	Capacity on engine power 0°C	12400
Capacity on engine power -20°C	9000 W	Capacity on engine power -20°C	5800
REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on engine power 0°C	18400 W	Airflow volume @ 0 pa static pressure	5000 m3/hr
Capacity on engine power -20°C	9000 W	Airflow volume in fully loaded trailer	4680 m3/hr
Capacity on electrical stand by 0°C	10500 W	Discharge velocity - airthrow	15 m/sec
Capacity on electrical stand by -20°C	6100 W		

TECHNICAL DATA

COMPRESSOR		REFRIGERANT CHARGE	
Model	X430 C5	Charge	9.5 kg
Displacement	492 cm3		
GENERIC (BOXLENGTH, REFRIGERANT, ...)		HEATING CAPACITY	
Boxlength	15 m	On the road	12000 W
Refrigerant	R-452A		
Controller	Smart Reefer 3		
WEIGHT INCLUDING BATTERY		ENGINE	
Model 30	844 kg	Model	TK 486V
Model 50	900 kg	Rating	17.9 kW
		Maintenance Interval	3000 hrs
ELECTRICAL STAND BY MOTOR			
Voltage / Phase / Frequency	400 / 3 / 50		
Rating	9.3 kW		

TRAILER - MULTI TEMPERATURE

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

TRAILER - SINGLE TEMPERATURE



UNIT Width 2076 mm x Depth 537.4 mm x Height 2279 mm

CONDENSER Width 2076 mm x Depth 537.4 mm x Height 2279 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		REFRIGERATION CAPACITY PIEK MODE	
Capacity on engine power 0°C	16500 W	Capacity on engine power 0°C	10800
Capacity on engine power -20°C	9400 W	Capacity on engine power -20°C	6500
REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on engine power 0°C	16500 W	Airflow volume @ 0 pa static pressure	5000 m3/hr
Capacity on engine power -20°C	9400 W	Airflow volume in fully loaded trailer	4680 m3/hr
Capacity on electrical stand by 0°C	10100 W	Discharge velocity - airtthrow	14 m/sec
Capacity on electrical stand by -20°C	5800 W		

TECHNICAL DATA

COMPRESSOR		REFRIGERANT CHARGE	
Model	X430 C5	Charge	5 kg
Displacement	492 cm3		
GENERIC (BOXLENGTH, REFRIGERANT, ...)		PULL DOWN	
Boxlength	15 m	+20°C to -20°C (min)	130
Refrigerant	R-452A		
Controller	Smart Reefer 3		
HEATING CAPACITY		WEIGHT INCLUDING BATTERY	
On the road	12000 W	Model 30	822 kg
		Model 50	878 kg
ENGINE		ELECTRICAL STAND BY MOTOR	
Model	TK 486V	Voltage / Phase / Frequency	400 / 3 / 50
Rating	17.9 kW	Rating	9.3 kW
Maintenance Interval	3000 hrs		

TRAILER - SINGLE TEMPERATURE

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

SELF POWERED TRUCK - SINGLE TEMPERATURE



UNIT Width 1676 mm x Depth 926 mm x Height 596 mm
CONDENSER Width 1676 mm x Depth 926 mm x Height 596 mm

T-560R

Enhanced self-powered refrigeration unit for small & medium sized trucks

- Proven performance up to 55 °C
- As tough as the conditions it works in
- Full Thermo King service and parts support
- Ease of use for error-proof operation
- Market leading performance and economy
- Reduced environmental impact
- Frozen, chill or fresh cargo up to 5.5m body
- Stylish new appearance
- Refrigerant: Standard: R-452A / Optional: R-134a

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	6600 W
Capacity on engine power -20°C	3500 W
Capacity on electrical stand by 0°C	4800 W
Capacity on electrical stand by -20°C	2500 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	2150 m3/hr
Discharge velocity - airthrow	5.5 m/sec

TECHNICAL DATA

COMPRESSOR

Model	X214 Deep Sump
Displacement	228 cm3

REFRIGERANT CHARGE

Charge	2.5 kg
--------	--------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Boxlength	4.0 - 5.5 m
Refrigerant	R-452A
Airflow	2150 m3/hr
Controller	Truck Smart Reefer 3

WEIGHT

INCLUDING BATTERY

Model 30	370 (Whisper option +17) kg
Model 50	400 (Whisper option +17) kg

ENGINE

Model	TK 270
Rating	7.5 kW
Maintenance Interval	1000 hrs
no. of cylinders/displacement	TK 270V / 2 / 570 cm3

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60
Rating	4.5 kW

SELF POWERED TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
EMI 2000 extended maintenance	x		
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
Remote Watch	x		
TSR standard in-cab display	x		
LOAD PROTECTION			
Heater Bar Kit			x
Auto phase correction	x		
SafeGuard battery protection kit		x	x
Password protected controller	x		
Door switches		x	x
Diesel/electric auto switching	x		
CUSTOMIZATION			
Whisper noise attenuating kit		x	
Hose management kit		x	
TSR rear remote control		x	
Solar Panel			x
Whisper low noise kit		x	
Body mount enclosure			x
90L fuel tank		x	x
Triple Combo Display			x

SELF POWERED TRUCK - SINGLE TEMPERATURE



UNIT Width 1887 mm x Depth 919 mm x Height 617 mm

CONDENSER Width 919 mm x Depth 1887 mm x Height 617 mm

T-600R

Delivering what matters

- Quiet operation
- Low fuel consumption
- Low life cycle costs
- Easy to use and service
- Reduced emissions and waste

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	7400 W
Capacity on engine power -20°C	4000 W
Capacity on electrical stand by 0°C	5500 W
Capacity on electrical stand by -20°C	2900 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	2800 m3/hr
Discharge velocity - airthrow	5.2 m/sec

TECHNICAL DATA

COMPRESSOR

Model	X214
Displacement	228 cm3

REFRIGERANT CHARGE

Charge	3 kg
--------	------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Boxlength	5.5 - 6 m
Refrigerant	R-452A
Airflow	2700 m3/hr
Controller	Truck Smart Reefer 3

WEIGHT

INCLUDING BATTERY

Model 30	441 kg
Model 50	473 kg

ENGINE

Model	TK 370
Rating	11.2 kW
Maintenance Interval	2000 hrs
no. of cylinders/displacement	TK 370 / 3 / 855 cm3

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60
Rating	4.5 kW

SELF POWERED TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
EMI 2000 extended maintenance	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
ServiceWatch maintenance logger	x		
DAS (Data Acquisition System)		x	
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Heater Bar Kit		x	x
Water Heater		x	
Auto phase correction	x		
SafeGuard battery protection kit		x	x
Door switches		x	x
Diesel/electric auto switching	x		
CUSTOMIZATION			
TSR-3 premium in-cab display		x	
Whisper noise attenuating kit		x	
TSR-3 rear remote control		x	
Electronic Fuel Capture			x
Remote Status Light and Combination Display			x
Hose management kit		x	
Solar Panel			x
Body mount enclosure			x
90L fuel tank		x	x
Triple Combo Display			x

SELF POWERED TRUCK - SINGLE TEMPERATURE



UNIT Width 1887 mm x Depth 919 mm x Height 617 mm

CONDENSER Width 1887 mm x Depth 919 mm x Height 617 mm

T-800R

Delivering what matters

- Quiet operation
- Low fuel consumption
- Low life cycle costs
- Easy to use and service
- Reduced emissions and waste

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	8000 W
Capacity on engine power -20°C	4200 W
Capacity on electrical stand by 0°C	6300 W
Capacity on electrical stand by -20°C	3200 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	2900 m3/hr
Discharge velocity - airthrow	5.2 m/sec

TECHNICAL DATA

COMPRESSOR

Model	X214
Displacement	228 cm3

REFRIGERANT CHARGE

Charge	3.8 kg
--------	--------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Boxlength	6.5 - 7.5 m
Refrigerant	R-452A
Airflow	2700 m3/hr
Controller	Truck Smart Reefer 3

WEIGHT

INCLUDING BATTERY

Model 30	444 (Whisper option +17) kg
Model 50	477 (Whisper option +17) kg

ENGINE

Model	TK 370
Rating	11.2 kW
Maintenance Interval	2000 hrs
no. of cylinders/displacement	TK 370 / 3 / 855 cm3

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60
Rating	4.5 kW

SELF POWERED TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
EMI 2000 extended maintenance	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
ServiceWatch maintenance logger	x		
DAS (Data Acquisition System)		x	
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Heater Bar Kit		x	x
Water Heater		x	
Auto phase correction	x		
SafeGuard battery protection kit		x	x
Door switches		x	x
Diesel/electric auto switching	x		
CUSTOMIZATION			
TSR-3 premium in-cab display		x	
Whisper noise attenuating kit		x	
TSR-3 rear remote control		x	
Electronic Fuel Capture			x
Remote Status Light and Combination Display			x
Hose management kit		x	
Solar Panel			x
Body mount enclosure			x
90L fuel tank		x	x
Triple Combo Display			x

T-1000R

Delivering what matters

- Quiet operation
- Low fuel consumption
- Low life cycle costs
- Easy to use and service
- Reduced emissions and waste

PERFORMANCE			
REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on engine power 0°C	10000 W	Airflow volume @ 0 pa static pressure	3200 m3/hr
Capacity on engine power -20°C	5400 W	Discharge velocity - airthrow	6.2 m/sec
Capacity on electrical stand by 0°C	7100 W		
Capacity on electrical stand by -20°C	4100 W		

TECHNICAL DATA			
COMPRESSOR		REFRIGERANT CHARGE	
Model	X426 C5	Charge	3.4 kg
GENERIC (BOXLENGTH, REFRIGERANT, ...)		WEIGHT INCLUDING BATTERY	
Boxlength	7.5 - 8.5 m	Model 30	457 (Whisper option +17) kg
Refrigerant	R-452A	Model 50	514 (Whisper option +17) kg
Airflow	3200 m3/hr		
Controller	Truck Smart Reefer 3		
ENGINE		ELECTRICAL STAND BY MOTOR	
Model	TK 376	Voltage / Phase / Frequency	400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60
Rating	14.6 kW	Rating	7.5 kW
Maintenance Interval	2000 hrs		
no. of cylinders/displacement	TK 376 / 3 / 1115 cm3		

SELF POWERED TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
EMI 2000 extended maintenance	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
ServiceWatch maintenance logger	x		
DAS (Data Acquisition System)		x	
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Heater Bar Kit		x	x
Auto phase correction	x		
SafeGuard battery protection kit		x	x
Door switches		x	x
Diesel/electric auto switching	x		
CUSTOMIZATION			
TSR-3 premium in-cab display		x	
Whisper noise attenuating kit		x	
TSR-3 rear remote control		x	
Electronic Fuel Capture			x
Remote Status Light and Combination Display			x
Hose management kit		x	
Solar Panel			x
Body mount enclosure			x
90L fuel tank		x	x
Triple Combo Display			x

T-1200R

Delivering what matters

- Quiet operation
- Low fuel consumption
- Low life cycle costs
- Easy to use and service
- Reduced emissions and waste

PERFORMANCE			
REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on engine power 0°C	12500 W	Airflow volume @ 0 pa static pressure	3300 m3/hr
Capacity on engine power -20°C	7100 W	Discharge velocity - airthrow	6.4 m/sec
Capacity on electrical stand by 0°C	9400 W		
Capacity on electrical stand by -20°C	5200 W		

TECHNICAL DATA			
COMPRESSOR		REFRIGERANT CHARGE	
Model	X430 C5	Charge	3.8 kg
GENERIC (BOXLENGTH, REFRIGERANT, ...)		WEIGHT INCLUDING BATTERY	
Boxlength	8.5+ m	Model 30	460 (Whisper option +17) kg
Refrigerant	R-404A/R-452A	Model 50	517 (Whisper option +17) kg
Airflow	3300 m3/hr		
Controller	Truck Smart Reefer 3		
ENGINE		ELECTRICAL STAND BY MOTOR	
Model	TK 376	Voltage / Phase / Frequency	400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60
Rating	14.6 kW	Rating	7.5 kW
Maintenance Interval	2000 hrs		
no. of cylinders/displacement	TK 376 / 3 / 1115 cm3		

SELF POWERED TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
TK Long Life AGM Battery		x	
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
EMI 2000 extended maintenance	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
ServiceWatch maintenance logger	x		
DAS (Data Acquisition System)		x	
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Heater Bar Kit		x	x
Auto phase correction	x		
SafeGuard battery protection kit		x	x
Password protected controller	x		
Door switches		x	x
Diesel/electric auto switching	x		
CUSTOMIZATION			
TSR-3 premium in-cab display		x	
Whisper noise attenuating kit		x	
TSR-3 rear remote control		x	
Remote Status Light and Combination Display	x		
Body mount enclosure			x
90L fuel tank		x	x
Triple Combo Display			x

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 1592 mm x Depth 523 mm x Height 458 mm

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

V-800

The most powerful vehicle powered range

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

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

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	5175 W
Capacity on electrical stand by 0°C	4920 W

TECHNICAL DATA

COMPRESSOR

Model	QP21
Displacement	215 cm ³
Number of cylinders	10

REFRIGERANT CHARGE

Charge	10: 4.55 -- 20: 4.85 kg
--------	-------------------------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	44 m ³
Refrigerant	R-134a
Airflow	2680 m ³ /hr
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

WEIGHT

INCLUDING BATTERY

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

ELECTRICAL STAND BY MOTOR

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



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Door switches		x	

SELF POWERED TRUCK - SINGLE TEMPERATURE



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

V-1000

A revolution in large truck refrigeration technology

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

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	6445 W
Capacity on electrical stand by 0°C	6015 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	3537 m ³ /hr
---------------------------------------	-------------------------

TECHNICAL DATA

COMPRESSOR

Model	QP25
Displacement	250 cm ³
Number of cylinders	10

REFRIGERANT CHARGE

Charge	10: 5.4 // 20: 5.7 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

Refrigerant	R-134a
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

WEIGHT

INCLUDING BATTERY

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

ELECTRICAL STAND BY MOTOR

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

SELF POWERED TRUCK - MULTI TEMPERATURE



UNIT Width 1887 mm x Depth 919 mm x Height 617 mm
CONDENSER Width 1887 mm x Depth 919 mm x Height 617 mm

T-800R Spectrum

T-Series Spectrum: Solutions for multi-temp distribution

With a tireless focus on reducing noise and emissions while maximizing performance, the range of T-Series Spectrum units are designed to meet the grueling demands of Multi-temperature distribution. We also understand that all distribution operations are not the same. That is why all T-Series Spectrum units are available with a choice of two or three blower remote vaporators that can be used in a number of configurations. With the ability to support up to three zones in both compartment and lane applications, we have a solution to match your unique needs. Your Thermo King representative can assist you in selecting the right unit for your operations.

- Quiet operation
- Low fuel consumption
- Low life cycle costs
- Easy to use and service
- Reduced emissions and waste
- For multi-temperature distribution

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	8000 W
Capacity on engine power -20°C	3850 W
Capacity on electrical stand by 0°C	6200 W
Capacity on electrical stand by -20°C	2800 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	S-2 = 1320, S-3 = 1980 m3/hr
Discharge velocity - airtthrow	9.5 m/sec

TECHNICAL DATA

COMPRESSOR

Model	X214
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REFRIGERANT CHARGE

Charge	R-404A = 4.0; R-452A = 6.0 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

Boxlength	6.5 - 7.5 m
Refrigerant	R-452A
Airflow	S-2 = 1320, S-3 = 1980 m3/hr
Controller	Truck Smart Reefer 3

WEIGHT

INCLUDING BATTERY

Model 30	357 kg
Model 50	389 kg

ENGINE

Model	TK 370
Rating	11.2 kW
Maintenance Interval	2000 hrs
no. of cylinders/displacement	TK 370 / 3 / 855 cm3

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60
Rating	4.5 kW

SELF POWERED TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
EMI 2000 extended maintenance	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
ServiceWatch maintenance logger		x	
DAS (Data Acquisition System)		x	
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Heater Bar Kit		x	x
Auto phase correction	x		
SafeGuard battery protection kit		x	x
Door switches		x	x
Diesel/electric auto switching	x		
CUSTOMIZATION			
Whisper kit acoustic		x	
TSR-3 premium in-cab display		x	
TSR-3 rear remote control		x	
Electronic Fuel Capture			x
Hose management kit		x	
Solar Panel			x
Evaporator guard			x
Body mount enclosure			x
90L fuel tank		x	x
Drain Kit for Transverse Remote Evap			x
Triple Combo Display			x

T-1000R Spectrum

T-Series Spectrum: Solutions for Multi temp distribution

With a tireless focus on reducing noise and emissions while maximizing performance, the new range of T-Series Spectrum units are designed to meet the grueling demands of Multi temperature distribution. We also understand that all distribution operations are not the same. That is why all T-Series Spectrum units are available with a choice of two or three blower remote evaporators that can be used in a number of configurations. With the ability to support up to three zones in both compartment and lane applications, we have a solution to match your unique needs. Your Thermo King representative can assist you in selecting the right unit for your operations.

- Quiet operation
- Low fuel consumption
- Low life cycle costs
- Easy to use and service
- Reduced emissions and waste
- For multi-temperature distribution

PERFORMANCE			
REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on engine power 0°C	10000 W	Airflow volume @ 0 pa static pressure	S-2 = 1320, S-3 = 1980 m3/hr
Capacity on engine power -20°C	5800 W	Discharge velocity - airthrow	9.5 m/sec
Capacity on electrical stand by 0°C	6300 W		
Capacity on electrical stand by -20°C	4000 W		

TECHNICAL DATA			
COMPRESSOR		REFRIGERANT CHARGE	
Model	X426 C5	Charge	R-404A = 5.86; R-452A = 6.1 kg
GENERIC (BOXLENGTH, REFRIGERANT, ...)		WEIGHT INCLUDING BATTERY	
Boxlength	7.5 - 8.5 m	Model 30	373 kg
Refrigerant	R-452A	Model 50	430 kg
Airflow	S-2 = 1320, S-3 = 1980 m3/hr		
Controller	Truck Smart Reefer 3		
ENGINE		ELECTRICAL STAND BY MOTOR	
Model	TK 376	Voltage / Phase / Frequency	400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60
Rating	14,6 kW	Rating	7.5 kW
Maintenance Interval	2000 hrs		
no. of cylinders/displacement	TK 376 / 3 / 1115 cm3		

SELF POWERED TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
EMI 2000 extended maintenance	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
ServiceWatch maintenance logger		x	
DAS (Data Acquisition System)		x	
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Heater Bar Kit		x	x
Auto phase correction	x		
SafeGuard battery protection kit		x	x
Door switches		x	x
Diesel/electric auto switching	x		
CUSTOMIZATION			
Whisper kit acoustic		x	
TSR-3 premium in-cab display		x	
TSR-3 rear remote control		x	
Electronic Fuel Capture			x
Hose management kit		x	
Solar Panel			x
Evaporator guard			x
Body mount enclosure			x
90L fuel tank		x	x
Drain Kit for Transverse Remote Evap			x
Triple Combo Display			x

T-1200R Spectrum

T-Series Spectrum: Solutions for multi-temp distribution

With a tireless focus on reducing noise and emissions while maximizing performance, the new range of T-Series Spectrum units are designed to meet the grueling demands of Multi temperature distribution. We also understand that all distribution operations are not the same. That is why all T-Series Spectrum units are available with a choice of two or three blower remote evaporators that can be used in a number of configurations. With the ability to support up to three zones in both compartment and lane applications, we have a solution to match your unique needs. Your Thermo King representative can assist you in selecting the right unit for your operations.

- Quiet operation Low fuel consumption
- Low life cycle costs
- Easy to use and service
- Reduced emissions and waste
- For multi-temperature distribution

PERFORMANCE			
REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on engine power 0°C	11800 W	Airflow volume @ 0 pa static pressure	S-2 = 1320, S-3 = 1980 m3/hr
Capacity on engine power -20°C	7200 W	Discharge velocity - airthrow	9.5 m/sec
Capacity on electrical stand by 0°C	7500 W		
Capacity on electrical stand by -20°C	5000 W		

TECHNICAL DATA			
COMPRESSOR		REFRIGERANT CHARGE	
Model	X430 C5	Charge	R-404A = 6.2; R-452A = 6.25 kg
GENERIC (BOXLENGTH, REFRIGERANT, ...)		WEIGHT INCLUDING BATTERY	
Boxlength	8.5+ m	Model 30	377 kg
Refrigerant	R-452A	Model 50	436 kg
Airflow	S-2 = 1320, S-3 = 1980 m3/hr		
Controller	Truck Smart Reefer 3		
ENGINE		ELECTRICAL STAND BY MOTOR	
Model	TK 376	Voltage / Phase / Frequency	400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60
Rating	14.6 kW	Rating	7.5 kW
Maintenance Interval	2000 hrs		
no. of cylinders/displacement	TK 376 / 3 / 1115 cm3		

SELF POWERED TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
EMI 2000 extended maintenance	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
ServiceWatch maintenance logger	x		
DAS (Data Acquisition System)		x	
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Heater Bar Kit		x	x
Auto phase correction	x		
SafeGuard battery protection kit		x	x
Door switches		x	x
Diesel/electric auto switching	x		
CUSTOMIZATION			
Whisper kit acoustic		x	
TSR-3 premium in-cab display		x	
TSR-3 rear remote control		x	
Electronic Fuel Capture			x
Remote Status Light and Combination Display	x		
Hose management kit		x	
Solar Panel			x
Evaporator guard			x
Body mount enclosure			x
90L fuel tank		x	x
Drain Kit for Transverse Remote Evap			x
Triple Combo Display			x

DIRECT DRIVE TRUCK - MULTI TEMPERATURE



UNIT Width 1592 mm x Depth 523 mm x Height 458.7 mm
CONDENSER Width 1592 mm x Depth 523 mm x Height 458.7 mm

V-800 MAX Spectrum

Superior temperature control

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

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

PERFORMANCE

REFRIGERATION CAPACITY: INDIVIDUAL COOLING CAPACITY		REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT	
Capacity on engine power ES400 MAX 0°C	5740 W	Capacity on engine power -20°C	4395 W
Capacity on engine power ES400 MAX -20°C	3300 W	Capacity on engine power ES400 MAX+ES400 MAX -20°C	4395 W
Capacity on engine power ES600 MAX 0°C	6765 W	Capacity on engine power ES600 MAX+ES150MAX -20°C	3850 W
Capacity on engine power ES600 MAX -20°C	3460 W	Capacity on engine power ES600 MAX + 2 X ES150MAX -20°C	4300 W
Capacity on engine power ES150 MAX 0°C	3975 W	Capacity on electrical stand by -20°C	3595 W
Capacity on engine power ES150 MAX -20°C	2270 W	Capacity on electrical stand by ES400 MAX+ES400 MAX -20°C	3595 W
Capacity on engine power 2 X ES150 MAX 0°C	5640 W	Capacity on electrical stand by ES600 MAX+ES150MAX -20°C	3385 W
Capacity on engine power 2 X ES150 MAX -20°C	2995 W	Capacity on electrical stand by ES600 MAX + 2 X ES150MAX -20°C	3595 W
Capacity on electrical stand by ES400 MAX 0°C	5300 W		
Capacity on electrical stand by ES400 MAX -20°C	3010 W		
Capacity on electrical stand by ES600 MAX 0°C	6305 W		
Capacity on electrical stand by ES600 MAX -20°C	3110 W		
Capacity on electrical stand by ES150 MAX 0°C	3850 W		
Capacity on electrical stand by ES150 MAX -20°C	2165 W		
Capacity on electrical stand by 2 X ES150 MAX 0°C	5045 W		
Capacity on electrical stand by 2 X ES150 MAX -20°C	2705 W		
AIRFLOW ON HIGH SPEED ENGINE OPERATION			
ES400+ES400	1760x2 m3/hr		
ES600 MAX+ES150MAX	2260+890 m3/hr		
ES600 MAX + 2XES150MAX	2260+(2x890) m3/hr		

TECHNICAL DATA

COMPRESSOR		REFRIGERANT CHARGE	
Model	QP21	Charge	ES400+ES400: 5.2 -- ES600+ES150: 5.0 -- ES600+2XES150: 5.15 kg
Displacement	215 cm3		
Number of cylinders	10		

DIRECT DRIVE TRUCK - MULTI TEMPERATURE

GENERIC (BOXLENGTH, REFRIGERANT, ...)		DEFROST	
Box volume	40 m3	Defrost	Automatic hot gas defrost
Refrigerant	R-404A/R-452A		
Airflow	1760 m3/hr		
Controller	DSR III		
HEATING CAPACITY		WEIGHT INCLUDING BATTERY	
On the road	4500 W	Condenser w/o electric stand-by	100 kg
Electric Stand By Operation	4000 W	Condenser with electric stand-by	160 kg
		Evaporator ES600 MAX	28 kg
		Evaporator ES400 MAX	20 kg
		Evaporator 2 X ES150 MAX	25 kg
		Evaporator ES150 MAX	12.5 kg
		Swash Plate Compressor	8.5 kg
ELECTRICAL STAND BY MOTOR			
Voltage / Phase / Frequency	400/3/50 -- 230/3/50 - -400/3/60 -- 230/3/60		
Rating	8.2 kW		



DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Hose extention 2 m/4 m/6 m		x	
Bumper feet roof mounting	x		
HMI holder	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

V-1000 Spectrum

A revolution in large truck refrigeration technology

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

PERFORMANCE			
REFRIGERATION CAPACITY: INDIVIDUAL COOLING CAPACITY		REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT	
Capacity on engine power ES150 0°C (W)	3995 W	ES600 MAX + ES600MAX	5225 m3/hr
Capacity on engine power ES600 MAX 0°C	8500 W	ES800 MAX + ES300MAX	4830 m3/hr
Capacity on engine power ES600 MAX -20°C	4370 W	Capacity On Engine Power ES800 0°C	8380 W
Capacity on engine power ES150 MAX -20°C	2300 W	Capacity On Engine Power ES800 -20°C	4660 W
Capacity on engine power 2 X ES150 MAX 0°C	5755 W	Capacity On Electrical Standby ES800 MAX 0°C	8125 W
Capacity on engine power 2 X ES150 MAX -20°C	3125 W	Capacity On Electrical Standby ES800 MAX -20°C	4190 W
Capacity on engine power ES300 MAX 0°C	4590 W	Capacity on engine power ES600 MAX+ES150MAX -20°C	4610 W
Capacity on engine power ES300 MAX -20°C	2325 W	Capacity on engine power ES600 MAX + 2 X ES150MAX -20°C	5035 W
Capacity on electrical stand by ES600 MAX 0°C	8100 W	Capacity on electrical stand by ES600 MAX+ES150MAX 0°C	4445 W
Capacity on electrical stand by ES600 MAX -20°C	4045 W	Capacity on electrical stand by ES600 MAX + 2 X ES150MAX -20°C	4610 W
Capacity on electrical stand by ES150 MAX 0°C	3975 W		
Capacity on electrical stand by ES150 MAX -20°C	2040 W		
Capacity on electrical stand by ES300 MAX 0°C	4590 W		
Capacity on electrical stand by ES300 MAX -20°C	2170 W		
AIRFLOW ON HIGH SPEED ENGINE OPERATION			
ES600 MAX + ES600MAX	2491 x 2 m3/hr		
ES800 MAX + ES300 MAX	2730 + 1643 m3/hr		
ES600 MAX+ES150MAX	2491+1396 m3/hr		
ES600 MAX + 2XES150MAX	2491+ (2x1396) m3/hr		

TECHNICAL DATA			
COMPRESSOR		REFRIGERANT CHARGE	
Model	QP25	Charge	30: 5.9 50: 6.2 kg
Displacement	250 cm3		
Number of cylinders	10		
GENERIC (BOXLENGTH, REFRIGERANT, ...)		DEFROST	
Refrigerant	R-404A/R-452A	Defrost	Automatic hot gas defrost
Controller	DSR III		
HEATING CAPACITY		WEIGHT INCLUDING BATTERY	
On the road	5000 W	Evaporator ES800 MAX	35 kg
Electric Stand By Operation	5000 W	Condenser w/o electric stand-by	96 kg
		Condenser with electric stand-by	205 kg
		Evaporator ES600 MAX	28 kg
		Evaporator ES300 MAX	18 kg
		Evaporator 2 X ES150 MAX	25 kg



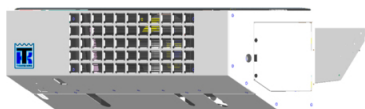
SELF POWERED TRUCK - MULTI TEMPERATURE

Evaporator ES150 MAX

12.5 kg

ELECTRICAL STAND BY MOTOR	
Voltage / Phase / Frequency	400/3/50 - 230/3/50 - 400/3/60 - 230/3/60
Rating	8.8 kW

SELF POWERED TRUCK - INTERMODAL



UNIT Width 1880 mm x Depth 735 mm x Height 630 mm
CONDENSER Width 1880 mm x Depth 735 mm x Height 630 mm

RT-800R

Purpose-designed solutions for Intermodal applications

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

PERFORMANCE

REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on engine power 0°C	7800 W	Airflow volume @ 0 pa static pressure	2700 m3/hr
Capacity on engine power -20°C	4200 W	Discharge velocity - airthrow	5.2 m/sec

TECHNICAL DATA

COMPRESSOR		GENERIC (BOXLENGTH, REFRIGERANT, ...)	
Model	X214	Boxlength	6.5 - 7.5 m
		Refrigerant	R-404A/R-452A
		Airflow	2700 m3/hr
		Controller	Truck Smart Reefer 3
WEIGHT INCLUDING BATTERY		ENGINE	
Model 30	451 kg	Model	TK 370
Model 50	484 kg	Maintenance Interval	2000 hrs
		no. of cylinders/displacement	TK 370 / 3 / 855 cm3
ELECTRICAL STAND BY MOTOR			
Voltage / Phase / Frequency	400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60		
Rating	5.4 kW		

T-1200R Intermodal

Purpose-designed solutions for Intermodal applications

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

PERFORMANCE			
REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on engine power 0°C	12500 W	Airflow volume @ 0 pa static pressure	3300 m3/hr
Capacity on engine power -20°C	6800 W	Discharge velocity - airthrow	6.4 m/sec

TECHNICAL DATA			
COMPRESSOR		GENERIC (BOXLENGTH, REFRIGERANT, ...)	
Model	X430 C5	Boxlength	13.6 m
		Refrigerant	R-404A/R-452A
		Airflow	3300 m3/hr
		Controller	Truck Smart Reefer 3

WEIGHT INCLUDING BATTERY		ENGINE	
Model 50	517 kg	Model	TK 376
		Maintenance Interval	2000 hrs
		no. of cylinders/displacement	TK 376 / 3 / 1115 cm3

ELECTRICAL STAND BY MOTOR	
Voltage / Phase / Frequency	400 / 3 / 50 -- 230 / 3 / 50 -- 230 / 3 / 60
Rating	7.5 kW

SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE



UT-800 / ES-800

The benchmark in Undermount Refrigeration

CONDENSER Width 1797 mm x Depth 713 mm x Height 628 mm

- Whisper-quiet operation
- Low fuel consumption
- Smaller and lighter
- Easy, low-cost installation
- Easier service accessibility
- Advanced TSR-3 controller

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	9300 W
Capacity on engine power -20°C	5300 W
Capacity on electrical stand by 0°C	7500 W
Capacity on electrical stand by -20°C	4500 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	2640 m3/hr
Discharge velocity - airthrow	6.5 m/sec

TECHNICAL DATA

COMPRESSOR

Model	TK 06 Scroll
Displacement	98 cm3

REFRIGERANT CHARGE

Charge	4 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

Boxlength	6.5 - 7.5 m
Refrigerant	R-452A
Controller	Truck Smart Reefer 3

WEIGHT

INCLUDING BATTERY

Model 50	493 kg
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ENGINE

Model	TK 376
Rating	14.6 kW
Maintenance Interval	2000 hrs
no. of cylinders/displacement	TK 376U / 3 / 1115 cm3

ELECTRICAL STAND BY MOTOR

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

SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ServiceWatch maintenance logger		x	
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
EMI 2000 extended maintenance	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
DAS (Data Acquisition System)		x	
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Auto phase correction	x		
SafeGuard battery protection kit			x
Door switches		x	
Diesel/electric auto switching	x		
CUSTOMIZATION			
TSR-3 premium in-cab display		x	
TSR-3 rear remote control		x	
Flexible hoses			x
Electronic Fuel Capture			x
Remote Status Light and Combination Display			x
Evaporator guard			x
Body mount enclosure			x
90L fuel tank		x	x
Triple Combo Display			x

SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE



UNIT Width 1797 mm x Depth 713 mm x Height 628 mm

CONDENSER Width 1797 mm x Depth 713 mm x Height 628 mm

UT-1200 E-EVAP

The benchmark in Undermount Refrigeration

- Whisper-quiet operation
- Low fuel consumption
- Smaller and lighter
- Easy, low-cost installation
- Easier service accessibility
- Advanced TSR-3 controller

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	11400 W
Capacity on engine power -20°C	6600 W
Capacity on electrical stand by 0°C	8300 W
Capacity on electrical stand by -20°C	5200 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	3350 m3/hr
Discharge velocity - airthrow	6.6 m/sec

TECHNICAL DATA

COMPRESSOR

Model	TK 06 Scroll
Displacement	98 cm3

REFRIGERANT CHARGE

Charge	4.6 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

Boxlength	7.5 - 9+ m
Refrigerant	R-452A
Airflow	3350 m3/hr
Controller	Truck Smart Reefer 3

WEIGHT

INCLUDING BATTERY

Model 50	495 kg
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ENGINE

Model	TK 376
Rating	14.6 kW
Maintenance Interval	2000 hrs
no. of cylinders/displacement	TK 376U / 3 / 1115 cm3

ELECTRICAL STAND BY MOTOR

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

SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
EMI 2000 extended maintenance	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
ServiceWatch maintenance logger		x	
DAS (Data Acquisition System)		x	
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Auto phase correction	x		
SafeGuard battery protection kit			x
Door switches		x	
Diesel/electric auto switching	x		
CUSTOMIZATION			
TSR-3 premium in-cab display		x	
TSR-3 rear remote control		x	
Flexible hoses			x
Electronic Fuel Capture			x
Remote Status Light and Combination Display			x
Evaporator guard			x
Body mount enclosure			x
90L fuel tank		x	x
Triple Combo Display			x

SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE



UNIT Width 1797 mm x Depth 713 mm x Height 628 mm

CONDENSER Width 1797 mm x Depth 713 mm x Height 628 mm

UT-1200 S-3 + S-3

The benchmark in Undermount Refrigeration

- Whisper-quiet operation
- Low fuel consumption
- Smaller and lighter
- Easy, low-cost installation
- Easier service accessibility
- Advanced TSR-3 controller

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	11200 W
Capacity on engine power -20°C	6600 W
Capacity on electrical stand by 0°C	8000 W
Capacity on electrical stand by -20°C	5100 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	4000 m3/hr
Discharge velocity - airthrow	9.5 m/sec

TECHNICAL DATA

COMPRESSOR

Model	TK 06 Scroll
Displacement	98 cm3

REFRIGERANT CHARGE

Charge	4.5 kg
--------	--------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Boxlength	7.5 - 9+ m
Refrigerant	R-452A
Airflow	4000 m3/hr
Controller	Truck Smart Reefer 3

WEIGHT

INCLUDING BATTERY

Model 50	495 kg
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ENGINE

Model	TK 376
Rating	14.6 kW
Maintenance Interval	2000 hrs
no. of cylinders/displacement	TK 376U / 3 / 1115 cm3

ELECTRICAL STAND BY MOTOR

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

SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
EMI 2000 extended maintenance	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
ServiceWatch maintenance logger		x	
DAS (Data Acquisition System)		x	
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Auto phase correction	x		
SafeGuard battery protection kit			x
Door switches		x	
Diesel/electric auto switching	x		
CUSTOMIZATION			
TSR-3 premium in-cab display		x	
TSR-3 rear remote control		x	
Flexible hoses			x
Electronic Fuel Capture			x
Remote Status Light and Combination Display			x
Evaporator guard			x
Body mount enclosure			x
90L fuel tank		x	x
Triple Combo Display			x

SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE



UNIT Width 1797 mm x Depth 713 mm x Height 628 mm

CONDENSER Width 1797 mm x Depth 713 mm x Height 628 mm

UT XTREME HIGH Ambient

The benchmark in Undermount Refrigeration

- Whisper-quiet operation
- Low fuel consumption
- Smaller and lighter
- Easy, low-cost installation
- Easier service accessibility
- Advanced TSR-3 controller

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	7500 W
Capacity on electrical stand-by 0°C	6000 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	E-evap = 3350 / S3 + S3 = 3960 m ³ /hr
Discharge velocity - airthrow	E-evap = 6.6 / S3 + S3 = 9.3 m/sec

TECHNICAL DATA

REFRIGERATION CAPACITY HIGH AMBIENT TEMPERATURE (55°C)

Capacity on engine power 0°C	6700 W
Capacity on engine power 20°C	11500 W
Capacity on electrical stand-by 0°C	5000 W
Capacity on electrical stand-by 20°C	8500 W

COMPRESSOR

Model	TK 06
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

Boxlength	5 - 7.5 m
Refrigerant	R-134a

WEIGHT

INCLUDING BATTERY

Condenser	E-evap = 580 / S-3 + S-3 = 597 kg
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ENGINE

Model	TK 376
Rating	14.6 kW
Maintenance Interval	2000 hrs

ELECTRICAL STAND BY MOTOR

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

SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ServiceWatch maintenance logger		x	
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Auto phase correction	x		
Door switches		x	
Diesel/electric auto switching	x		
CUSTOMIZATION			
TSR-3 premium in-cab display		x	
TSR-3 rear remote control		x	
Flexible hoses			x
Electronic Fuel Capture			x
Remote Status Light and Combination Display			x
TherMax system	x		
Evaporator guard			x
Body mount enclosure			x
90L fuel tank		x	x
Safeguard - dealer fitted			x
Triple Combo Display			x

SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE



UT Spectrum

The benchmark in Undermount Refrigeration

UNIT Width 1797 mm x Depth 713 mm x Height 628 mm

CONDENSER Width 1797 mm x Depth 713 mm x Height 628 mm

- Whisper-quiet operation
- Low fuel consumption
- Smaller and lighter
- Easy, low-cost installation
- Easier service accessibility
- Advanced TSR-3 controller

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	S-3 + S-3 = 10550 / S-3 + S-3 + S-2 = 10400 W
Capacity on engine power -20°C	S-3 + S-3 = 5750 / S-3 + S-3 + S-2 = 6050 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	S-2: 1420 S-3: 2350 S-4.2: 2550 m3/hr
---------------------------------------	---------------------------------------

TECHNICAL DATA

COMPRESSOR

Model	TK 06 Scroll	Boxlength	7.5 - 9+ m
		Refrigerant	R-452A
		Airflow	S-3 + S-3 = 1320 / S-3 + S-3 + S-2 = 1980 m3/hr
		Controller	Truck Smart Reefer 3
		Velocity	9.5

WEIGHT

INCLUDING BATTERY

Condenser	S-3 + S-3 = 597 / S-3 + S-3 + S-2 = 633 kg
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ENGINE

Model	TK 376
Rating	14.6 kW
Maintenance Interval	2000 hrs
no. of cylinders/displacement	TK 376U / 3 / 1115 cm3

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	200 / 3 / 60 -- 230 / 3 / 50 -- 230 / 3 / 60 -- 400 / 3 / 50
-----------------------------	--

SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
Cycle-Sentry start/stop control system	x		
Fuel level sensor		x	x
Thermo King high performance battery	x		
Thermo King Energy battery		x	
Premium AGM battery		x	
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data capture			x
TouchPrint Printer			x
ServiceWatch maintenance logger		x	
TrackKing? (tracking and load monitoring)			x
Wintrac (data analysis software)			x
LOAD PROTECTION			
TSR-3 standard in-cab display	x		
Auto phase correction	x		
Door switches		x	
Diesel/electric auto switching	x		
CUSTOMIZATION			
TSR-3 premium in-cab display		x	
TSR-3 rear remote control		x	
Flexible hoses			x
Electronic Fuel Capture			x
Remote Status Light and Combination Display			x
Solar Panel			x
Evaporator guard			x
Body mount enclosure			x
90L fuel tank		x	x
Safeguard - dealer fitted			x
Triple Combo Display			x

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



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

B-100

All-electric temperature control for chilled, frozen and pharma products

- Total load protection with low operating costs
- Direct Smart Reefer technology puts you in control
- Go-anywhere tracking and monitoring
- Rapid and cost-effective service and maintenance
- Easy installation keeps costs to a minimum
- Good Distribution Practice (GDP) qualified

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on Battery power 0°C	1013 W
Capacity on Battery power -20°C	312 W
Capacity on electrical stand by 0°C	981 W
Capacity on electrical stand by -20°C	302 W

TECHNICAL DATA

CONTROLLER

General

DSR-III

COMPRESSOR

Model

C-206Y

Displacement

48 cm³

Number of cylinders

2

REFRIGERANT CHARGE

Charge

0.85 kg

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Refrigerant

R-134a

Airflow

2080 m³/hr

Controller

DSR III

WEIGHT

INCLUDING BATTERY

Model 30

47 kg

Model 50

59 kg

Evaporator

9 kg

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency

230V/ 1 Phase/ 50 Hz

Rating

0.750 kW

SOUND PRESSURE LEVEL

High Speed Diesel

83 dB(A)



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data logger			x
TrackKing? (tracking and load monitoring)		x	x
Wintrac (data analysis software)			x
LOAD PROTECTION			
Thermo King GDP PharmaSolutions Package		x	x
Din Adapter		x	
Hose Cover		x	
Snow Cover (kit deflector Small)		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 789 mm x Depth 500 mm x Height 227 mm
CONDENSER Width 789 mm x Depth 500 mm x Height 227 mm

C-150e

Quality and performance from a global market leader

The Ce-Series provides the ideal solution for operators delivering temperature sensitive cargo in small vehicles. There are four road-only models to suit vehicle bodies up to 34 m³.

- Reliable protection for fresh and frozen cargo
- High volume airflow for boxes up to 34 m³
- Highest cooling capacity in its segment
- New controller for error-free operation
- Full Thermo King service and parts support

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	1665 W
------------------------------	--------

TECHNICAL DATA

COMPRESSOR

Model	QP08N
Displacement	131 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	0.62 kg
--------	---------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	12 m ³
Refrigerant	R-134a
Airflow	745 m ³ /hr
Controller	CSR

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

WEIGHT

INCLUDING BATTERY

Condenser	23 kg
Slimline Evaporator	9 kg
Swash Plate Compressor	6.5 kg



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD	FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT				
ThermoKare Service contracts				x
DATA CAPTURE & COMMUNICATIONS				
USB Datalogger				x
TouchPrint data logger				x
Datalogger Jr				x
LOAD PROTECTION				
Bumper feet roof mounting			x	
HMI holder			x	
Kit hoses large (upgrade)			x	
Kit swivel manifold (upgrade)			x	
Hose Cover			x	
Muffler kit			x	
Snow Cover (kit deflector Small)			x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 789 mm x Depth 500 mm x Height 227 mm
CONDENSER Width 789 mm x Depth 500 mm x Height 227 mm

C-250e

Quality and performance from a global market leader

The Ce-Series provides the ideal solution for operators delivering temperature sensitive cargo in small vehicles. There are four road-only models to suit vehicle bodies up to 34 m³.

- Reliable protection for fresh and frozen cargo
- High volume airflow for boxes up to 34 m³
- Highest cooling capacity in its segment
- New controller for error-free operation
- Full Thermo King service and parts support

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	2255 W
------------------------------	--------

TECHNICAL DATA

COMPRESSOR

Model	QP13
Displacement	131 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	0.95 kg
--------	---------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	18 m ³
Refrigerant	R-134a
Airflow	1100 m ³ /hr
Controller	CSR

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

WEIGHT

INCLUDING BATTERY

Condenser	23 kg
Slimline Evaporator	15 kg
Swash Plate Compressor	6.9 kg



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD	FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT				
ThermoKare Service contracts				x
DATA CAPTURE & COMMUNICATIONS				
USB Datalogger				x
TouchPrint data logger				x
Datalogger Jr				x
LOAD PROTECTION				
Bumper feet roof mounting			x	
HMI holder			x	
Kit hoses large (upgrade)			x	
Kit swivel manifold (upgrade)			x	
Hose Cover			x	
Muffler kit			x	
Snow Cover (kit deflector Small)			x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 789 mm x Depth 500 mm x Height 227 mm
CONDENSER Width 789 mm x Depth 500 mm x Height 227 mm

C-350e

Quality and performance from a global market leader

The Ce-Series provides the ideal solution for operators delivering temperature sensitive cargo in small vehicles. There are four road-only models to suit vehicle bodies up to 34 m³.

- Reliable protection for fresh and frozen cargo
- High volume airflow for boxes up to 34 m³
- Highest cooling capacity in its segment
- New controller for error-free operation
- Full Thermo King service and parts support

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	2965 W
------------------------------	--------

TECHNICAL DATA

COMPRESSOR

Model	QP15
Displacement	146.7 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	1.2 kg
--------	--------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	25 m ³
Refrigerant	R-134a
Airflow	1400 m ³ /hr
Controller	CSR

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

WEIGHT

INCLUDING BATTERY

Condenser	23 kg
Slimline Evaporator	18 kg
Swash Plate Compressor	6.8 kg



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD	FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT				
ThermoKare Service contracts				x
DATA CAPTURE & COMMUNICATIONS				
USB Datalogger				x
TouchPrint data logger				x
Datalogger Jr				x
LOAD PROTECTION				
Bumper feet roof mounting			x	
HMI holder			x	
Kit hoses large (upgrade)			x	
Kit swivel manifold (upgrade)			x	
Hose Cover			x	
Muffler kit			x	
Snow Cover (kit deflector Small)			x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 1180 mm x Depth 485 mm x Height 213 mm

CONDENSER Width 1180 mm x Depth 485 mm x Height 213 mm

C-450e

Quality and performance from a global market leader

The Ce-Series provides the ideal solution for operators delivering temperature sensitive cargo in small vehicles. There are four road-only models to suit vehicle bodies up to 34 m³.

- Reliable protection for fresh and frozen cargo
- High volume airflow for boxes up to 34 m³
- Highest cooling capacity in its segment
- New controller for error-free operation
- Full Thermo King service and parts support

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C

3315 W

TECHNICAL DATA

COMPRESSOR

Model

QP16

Displacement

163 cm³

Number of cylinders

6

REFRIGERANT CHARGE

Charge

1.2 kg

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume

31 m³

Refrigerant

R-134a

Airflow

1650 m³/hr

Controller

CSR

DEFROST

Defrost

Automatic hot gas defrost

WEIGHT

INCLUDING BATTERY

Condenser

31 kg

Slimline Evaporator

18 kg

Swash Plate Compressor

7.1 kg



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data logger			x
USB data port			x
Datalogger Jr			x
LOAD PROTECTION			
Bumper feet roof mounting		x	
HMI holder		x	
Kit hoses large (upgrade)		x	
Kit swivel manifold (upgrade)		x	
Hose Cover		x	
Muffler kit		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 789 mm x Depth 500 mm x Height 227 mm
CONDENSER Width 789 mm x Depth 500 mm x Height 227 mm

C-150e MAX

Quality and performance from global market leader

The Ce-Series provides the ideal solution for operators delivering temperature sensitive cargo in small vehicles. There are four road-only models to suit vehicle bodies up to 34 m³.

- Reliable protection for fresh and frozen cargo
- High volume airflow for boxes up to 34 m³
- Highest cooling capacity in its segment
- New controller for error-free operation
- Full Thermo King service and parts support

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	2080 W
Capacity on engine power -20°C	1090 W

TECHNICAL DATA

COMPRESSOR

Model	QP08N
Displacement	131 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	0.62 kg
--------	---------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	8 - 16 m ³
Refrigerant	R-404A/R-452A
Airflow	745 m ³ /hr
Controller	CSR

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

HEATING CAPACITY

On the road	1900 W
-------------	--------

WEIGHT INCLUDING BATTERY

Condenser	23 kg
Slimline Evaporator	9 kg
Swash Plate Compressor	6.5 kg



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD	FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT				
ThermoKare Service contracts				x
DATA CAPTURE & COMMUNICATIONS				
USB Datalogger				x
TouchPrint data logger				x
Datalogger Jr				x
LOAD PROTECTION				
Bumper feet roof mounting			x	
HMI holder			x	
Kit hoses large (upgrade)			x	
Kit swivel manifold (upgrade)			x	
Hose Cover			x	
Muffler kit			x	
Snow Cover (kit deflector Small)			x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 789 mm x Depth 500 mm x Height 227 mm
CONDENSER Width 789 mm x Depth 500 mm x Height 227 mm

C-250e MAX

Quality and performance from global market leader

The Ce-Series provides the ideal solution for operators delivering temperature sensitive cargo in small vehicles. There are four road-only models to suit vehicle bodies up to 34 m³.

- Reliable protection for fresh and frozen cargo
- High volume airflow for boxes up to 34 m³
- Highest cooling capacity in its segment
- New controller for error-free operation
- Full Thermo King service and parts support

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	2770 W
Capacity on engine power -20°C	1460 W

TECHNICAL DATA

COMPRESSOR

Model	QP13
Displacement	131 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	0.95 kg
--------	---------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	13 - 22 m ³
Refrigerant	R-404A/R-452A
Airflow	1100 m ³ /hr
Controller	CSR

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

HEATING CAPACITY

On the road	2800 W
-------------	--------

WEIGHT INCLUDING BATTERY

Condenser	23 kg
Slimline Evaporator	15 kg
Swash Plate Compressor	6.9 kg



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD	FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT				
ThermoKare Service contracts				x
DATA CAPTURE & COMMUNICATIONS				
USB Datalogger				x
TouchPrint data logger				x
Datalogger Jr				x
LOAD PROTECTION				
Bumper feet roof mounting			x	
HMI holder			x	
Kit hoses large (upgrade)			x	
Kit swivel manifold (upgrade)			x	
Hose Cover			x	
Muffler kit			x	
Snow Cover (kit deflector Big)				x

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 789 mm x Depth 500 mm x Height 227 mm
CONDENSER Width 789 mm x Depth 500 mm x Height 227 mm

C-350e MAX

Quality and performance from a global market leader

The Ce-Series provides the ideal solution for operators delivering temperature sensitive cargo in small vehicles. There are four road-only models to suit vehicle bodies up to 34 m³.

- Reliable protection for fresh and frozen cargo
- High volume airflow for boxes up to 34 m³
- Highest cooling capacity in its segment
- New controller for error-free operation
- Full Thermo King service and parts support

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	3330 W
Capacity on engine power -20°C	1840 W

TECHNICAL DATA

COMPRESSOR

Model	QP15
Displacement	146.7 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	1.2 kg
--------	--------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	17 - 28 m ³
Refrigerant	R-404A/R-452A
Airflow	1400 m ³ /hr
Controller	CSR

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

HEATING CAPACITY

On the road	3100 W
-------------	--------

WEIGHT INCLUDING BATTERY

Condenser	23 kg
Slimline Evaporator	18 kg
Swash Plate Compressor	6.8 kg



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD	FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT				
ThermoKare Service contracts				x
DATA CAPTURE & COMMUNICATIONS				
USB Datalogger				x
TouchPrint data logger				x
Datalogger Jr				x
LOAD PROTECTION				
Bumper feet roof mounting			x	
HMI holder			x	
Kit hoses large (upgrade)			x	
Kit swivel manifold (upgrade)			x	
Hose Cover			x	
Muffler kit			x	
Snow Cover (kit deflector Big)			x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 1180 mm x Depth 485 mm x Height 213 mm

CONDENSER Width 1180 mm x Depth 485 mm x Height 213 mm

C-450e MAX

Quality and performance from
a global market leader

The Ce-Series provides the ideal solution for operators delivering temperature sensitive cargo in small vehicles. There are four road-only models to suit vehicle bodies up to 34 m³.

- Reliable protection for fresh and frozen cargo
- High volume airflow for boxes up to 34 m³
- Highest cooling capacity in its segment
- New controller for error-free operation
- Full Thermo King service and parts support

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	4430 W
Capacity on engine power -20°C	2335 W

TECHNICAL DATA

COMPRESSOR

Model	QP16
Displacement	163 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	1.2 kg
--------	--------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	21 - 34 m ³
Refrigerant	R-404A/R-452A
Airflow	1650 m ³ /hr
Controller	CSR

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

HEATING CAPACITY

On the road	3800 W
-------------	--------

WEIGHT INCLUDING BATTERY

Condenser	31 kg
Slimline Evaporator	18 kg
Swash Plate Compressor	7.1 kg



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
TouchPrint data logger			x
USB data port			x
Datalogger Jr			x
LOAD PROTECTION			
Bumper feet roof mounting		x	
HMI holder		x	
Kit hoses large (upgrade)		x	
Kit swivel manifold (upgrade)		x	
Hose Cover		x	
Muffler kit		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



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

V-100

Superior temperature control

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

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

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	1665 W
Capacity on engine power -20°C	680 W
Capacity on electrical stand by 0°C	975 W
Capacity on electrical stand by -20°C	390 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	530 m ³ /hr
---------------------------------------	------------------------

TECHNICAL DATA

COMPRESSOR

Model	QP08
Displacement	82 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	V-100 10: 0.62 -- V-100 20: 0.850 Kg kg
--------	---

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	5 - 12 m ³
Refrigerant	R-134a
Airflow	866 m ³ /hr
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

WEIGHT

INCLUDING BATTERY

Slimline Evaporator	9 kg
Installation kit	24 kg
Condenser w/o electric stand-by	25 kg
Condenser with electric stand-by	43 kg
Swash Plate Compressor	6.5 kg

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	230/1/50
Rating	1.6 kW

SOUND PRESSURE LEVEL

High Speed Diesel	84 dB(A)
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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Hose extention 2 m/4 m/6 m		x	
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 789 mm x Depth 500 mm x Height 242 mm
CONDENSER Width 789 mm x Depth 500 mm x Height 242 mm

V-100 MAX

Superior temperature control

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

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

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	2080 W
Capacity on engine power -20°C	1090 W
Capacity on electrical stand by 0°C	1260 W
Capacity on electrical stand by -20°C	695 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	660 m ³ /hr
---------------------------------------	------------------------

TECHNICAL DATA

COMPRESSOR

Model	QP08N
Displacement	82 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	10/30: 0.62 -- 20: 0.85 -- 50: 1.2 kg
--------	---------------------------------------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	8 - 16 m ³
Refrigerant	R-404A
Airflow	866 m ³ /hr
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

HEATING CAPACITY

On the road	1900 W
Electric Stand By Operation	1100 W

WEIGHT

INCLUDING BATTERY

Installation kit	24 kg
Condenser w/o electric stand-by	25 kg
Condenser with electric stand-by	43 kg
Evaporator	9 kg
Swash Plate Compressor	6.5 kg

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	230/1/50
Rating	1.6 kW

SOUND PRESSURE LEVEL

High Speed Diesel	84 dB(A)
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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Hose extention 2 m/4 m/6 m		x	
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 1180 mm x Depth 485 mm x Height 222 mm

V-200

Superior temperature control

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

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

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	2255 W
Capacity on engine power -20°C	945 W
Capacity on electrical stand by 0°C	1850 W
Capacity on electrical stand by -20°C	685 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	1210 m ³ /hr
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TECHNICAL DATA

COMPRESSOR

Model	QP13
Displacement	131 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	10: 1.0 -- 20: 1.2 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	9 - 18 m ³
Refrigerant	R-134a
Airflow	1241 m ³ /hr
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
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WEIGHT

INCLUDING BATTERY

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

ELECTRICAL STAND BY MOTOR

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

SOUND PRESSURE LEVEL

High Speed Diesel	85 dB(A)
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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Hose extention 2 m/4 m/6 m		x	
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 789 mm x Depth 500 mm x Height 242 mm
CONDENSER Width 789 mm x Depth 500 mm x Height 242 mm

V-200s MAX

Superior temperature control

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

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

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	2410 W
Capacity on engine power -20°C	1180 W
Capacity on electrical stand by 0°C	1500 W
Capacity on electrical stand by -20°C	650 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	1001 m ³ /hr
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TECHNICAL DATA

COMPRESSOR

Model	QP08
Displacement	131 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	1.2 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	10 - 19 m ³
Refrigerant	R-452A
Airflow	1000 m ³ /hr
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
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HEATING CAPACITY

On the road	2200 W
Electric Stand By Operation	1300 W

WEIGHT

INCLUDING BATTERY

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

ENGINE

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

SOUND PRESSURE LEVEL

High Speed Diesel	84 dB(A)
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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 1180 mm x Depth 485 mm x Height 222 mm

V-200 MAX

Superior temperature control

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

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

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	2770 W
Capacity on engine power -20°C	1460 W
Capacity on electrical stand by 0°C	1970 W
Capacity on electrical stand by -20°C	1130 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	1241 m ³ /hr
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TECHNICAL DATA

COMPRESSOR

Model	QP13
Displacement	131 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	10/30: 1.0 -- 20/50: 1.2 kg kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	13 - 22 m ³
Refrigerant	R-404A/R-452A
Airflow	1100 m ³ /hr
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

HEATING CAPACITY

On the road	2800 W
Electric Stand By Operation	2050 W

WEIGHT

INCLUDING BATTERY

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

ELECTRICAL STAND BY MOTOR

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

SOUND PRESSURE LEVEL

High Speed Diesel	85 dB(A)
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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Hose extention 2 m/4 m/6 m		x	
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 1180 mm x Depth 485 mm x Height 222 mm

V-300

Superior Temperature Control

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

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

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	2965 W
Capacity on engine power -20°C	1260 W
Capacity on electrical stand by 0°C	2090 W
Capacity on electrical stand by -20°C	865 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	2033 m ³ /hr
---------------------------------------	-------------------------

TECHNICAL DATA

COMPRESSOR

Model	QP15
Displacement	146.7 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	10: 1.1 -- 20: 1.3 kg
--------	-----------------------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	10 - 25 m ³
Refrigerant	R-134a
Airflow	1400 m ³ /hr
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

WEIGHT

INCLUDING BATTERY

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

ELECTRICAL STAND BY MOTOR

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

SOUND PRESSURE LEVEL

High Speed Diesel	85 dB(A)
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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Hose extention 2 m/4 m/6 m		x	
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 1180 mm x Depth 485 mm x Height 222 mm

V-300 MAX

Superior temperature control

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

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

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	3330 W
Capacity on engine power -20°C	1840 W
Capacity on electrical stand by 0°C	2840 W
Capacity on electrical stand by -20°C	1235 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	1379 m3/hr
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TECHNICAL DATA

COMPRESSOR

Model	QP15
Displacement	146.7 cm3
Number of cylinders	6

REFRIGERANT CHARGE

Charge	10/30: 1.1 -- 20/50: 1.3 kg
--------	-----------------------------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	17 - 28 m3
Refrigerant	R-452A
Airflow	1400 m3/hr
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

HEATING CAPACITY

On the road	3100 W
Electric Stand By Operation	2250 W

WEIGHT

INCLUDING BATTERY

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

ELECTRICAL STAND BY MOTOR

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

SOUND PRESSURE LEVEL

High Speed Diesel	85 dB(A)
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DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Hose extention 2 m/4 m/6 m		x	
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 1339 mm x Depth 475 mm x Height 448 mm

CONDENSER Width 1339 mm x Depth 475 mm x Height 448 mm

V-500

V-500 Series: taking care of all your needs

The enhanced V-500 Series units from Thermo King - a more efficient range of vehicle-powered temperature control units for 3 metre to 6.5 metre rigid trucks hauling fresh or frozen loads, delivering top performance, reliability and ease-of- use. These units also allow users to increase energy efficiency and sustainability.

- More environmentally friendly
- Superior performance
- Enhanced heating capacity
- Guaranteed reliability
- Spectrum versions available

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	3915 W
Capacity on engine power -20°C	1655 W
Capacity on electrical stand by 0°C	3160 W
Capacity on electrical stand by -20°C	1090 W

TECHNICAL DATA

COMPRESSOR

Model	QP16
Displacement	163 cm3
Number of cylinders	6

REFRIGERANT CHARGE

Charge	10: 2.0 -- 20: 2.2 kg
--------	-----------------------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	13 - 30 m3
Refrigerant	R-134a
Airflow	2200 m3/hr
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

WEIGHT

INCLUDING BATTERY

Condenser w/o electric stand-by	53 kg
Condenser with electric stand-by	125 kg
Evaporator	25.5 kg
Swash Plate Compressor	7.1 kg

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	400/3/50 -- 380/3/60 -- 230/3/50 -- 230/3/60 -- 230/1/50 -- 230/1/60
Rating	6.4 kW



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 1339 mm x Depth 475 mm x Height 448 mm
CONDENSER Width 1339 mm x Depth 475 mm x Height 448 mm

V-500 MAX

V-500 Series: taking care of all your needs

The enhanced V-500 Series units from Thermo King - a more efficient range of vehicle-powered temperature control units for 3 metre to 6.5 metre rigid trucks hauling fresh or frozen loads, delivering top performance, reliability and ease-of- use. These units also allow users to increase energy efficiency and sustainability.

- More environmentally friendly
- Superior performance
- Enhanced heating capacity
- Guaranteed reliability
- Spectrum versions available

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	4890 W
Capacity on engine power -20°C	2630 W
Capacity on electrical stand by 0°C	4215 W
Capacity on electrical stand by -20°C	1830 W

TECHNICAL DATA

COMPRESSOR

Model	QP16
Displacement	163 cm3
Number of cylinders	6

REFRIGERANT CHARGE

Charge	10: 2.1 -- 20/30: 2.2 -- 50: 2.3 kg
--------	-------------------------------------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	25 - 42 m3
Refrigerant	R-404A/R-452A
Airflow	2200 m3/hr
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
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HEATING CAPACITY

On the road	3600 W
Electric Stand By Operation	3120 W

WEIGHT INCLUDING BATTERY

Condenser w/o electric stand-by	53 kg
Condenser with electric stand-by	125 kg
Evaporator	25.5 kg
Swash Plate Compressor	7.1 kg

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	400/3/50 -- 380/3/60 -- 230/3/50 -- 230/3/60 -- 230/1/50 -- 230/1/60
Rating	6.4 kW



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 1339 mm x Depth 475 mm x Height 448 mm
CONDENSER Width 1339 mm x Depth 475 mm x Height 448 mm

V-600

V-600 Series: taking care of all your needs

The enhanced V-600 Series units from Thermo King are a more efficient range of vehicle-powered temperature control units for 3 metre to 6.5 metre rigid trucks hauling fresh or frozen loads, delivering top performance, reliability and ease-of-use. These units also allow users to increase energy efficiency and sustainability. These units also allow users to increase energy efficiency and sustainability.

- More environmentally friendly
- Superior performance
- Enhanced heating capacity
- Guaranteed reliability
- Spectrum versions available

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	5910 W
Capacity on engine power -20°C	3280 W
Capacity on electrical stand by 0°C	4970 W
Capacity on electrical stand by -20°C	2550 W

TECHNICAL DATA

COMPRESSOR

Model	TM16
Displacement	163 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	2.3 Kg kg
--------	-----------

GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	30 - 48 m ³
Refrigerant	R-404A/R-452A
Airflow	2580 m ³ /hr
Controller	DSR III
Weight Electric Control Module	125 kg

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

HEATING CAPACITY

On the road	4000 W
Electric Stand By Operation	3200 W

WEIGHT INCLUDING BATTERY

Condenser w/o electric stand-by	53 kg
Condenser with electric stand-by	125 kg
Evaporator ES600 MAX	28 kg

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	400 V / 3 ph / 50 Hz, 380 V / 3 ph / 60 Hz, 230 V / 3 ph / 50 Hz, 230 V / 3 ph / 60 Hz, 230 V / 1 ph / 50 Hz, 230 V / 1 ph / 60 Hz
Rating	6.4 kW



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



UNIT Width 1339 mm x Depth 475 mm x Height 448 mm
CONDENSER Width 1339 mm x Depth 475 mm x Height 448 mm

V-600 MAX

Enhanced product positioning to address non-diesel trend

The V-600 MAX Series from Thermo King comprises two-piece split units designed for fresh, frozen and deep frozen applications on trucks. The V-600 MAX Series range delivers increased performance more efficiently. A more efficient evaporator and an all-aluminium condenser coil - also used in the V-500 MAX Series - bring significant life cycle benefits and create less environmental impact. The V-600 MAX Series is equipped with the TM16 swash plate compressor for ease of installation and drive kit availability.

- Increased performance both on the road and in stand-by operation
- Swash plate compressor for ease of installation
- User friendly and advanced Direct Smart Reefer controller
- More environmentally friendly
- Superior performance
- A full range available

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power 0°C	5910 W
Capacity on engine power -20°C	3280 W
Capacity on electrical stand by 0°C	4970 W
Capacity on electrical stand by -20°C	2550 W

TECHNICAL DATA

COMPRESSOR

Model	QP16
Displacement	163 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	10: 2.2 -- 20/30: 2.3 -- 50: 2.4 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

Box volume	30 - 48 m ³
Refrigerant	R-404A/R-452A
Airflow	2580 m ³ /hr
Controller	DSR III

DEFROST

Defrost	Automatic hot gas defrost
---------	---------------------------

HEATING CAPACITY

On the road	4000 W
Electric Stand By Operation	3200 W

WEIGHT INCLUDING BATTERY

Condenser w/o electric stand-by	53 kg
Condenser with electric stand-by	125 kg
Evaporator ES600 MAX	28 kg
Swash Plate Compressor	7.1 kg

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	230/1/50 -- 230/1/60 -- 400/3/50 -- 380/3/60 -- 230/3/50 -- 230/3/60
Rating	6.4 kW



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TKDL Datalogger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



CONDENSER Width 1180 mm x Depth 535 mm x Height 221 mm

E-200

Charge into the era of all-electric transport refrigeration

- Compliant with sound regulations for urban access
- An extra smart charger to manage different power sources (including the additional battery pack)
- A variable speed compressor for precise temperature control, decreased energy consumption, and enhanced reliability
- A tailor-made inverter for constant capacity and exceptional operating efficiency, independent of the vehicle
- A stand out controller with power management intelligence to optimize the supply and demand of power
- Embedded telematics to track and monitor the condition of each unit in your transport fleet

PERFORMANCE

REFRIGERATION CAPACITY: INDIVIDUAL COOLING CAPACITY		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on engine power ES150 0°C (W)	1507 W	ES150	800 m3/hr
Capacity on engine power ES200 0°C (W)	1414 W	ES200	1012 m3/hr
Capacity on electrical stand by ES150 0°C (W)	1511 W		
Capacity on electrical stand by ES200 0°C (W)	1413 W		

TECHNICAL DATA

CONSUMPTION		REFRIGERANT CHARGE	
ES 150 - Max Power Capacity	1958 W / 114 A (W) /Current (A)	Charge	1.31 kg
ES 200 - Max Power Capacity	1744 W / 120 A (W) /Current (A)		
ES 100N x ES100N - Capacity	1578 W / 120 A (W) /Current (A)		
ES 150 - Min Power Capacity	1259 W / 71 A (W) /Current (A)		
ES 200 - Min Power Capacity	1121 W / 75 A (W) /Current (A)		
ES 100N x ES100N - Min Power Capacity	1014 W / 75 A (W) /Current (A)		
GENERIC (BOXLENGTH, REFRIGERANT, ...)		DEFROST	
Refrigerant	R-134a	Defrost	Automatic hot gas defrost
Controller	DSR-IV		
WEIGHT INCLUDING BATTERY		ELECTRICAL STAND BY MOTOR	
Condenser	54 kg	Voltage / Phase / Frequency	1 ph / 230V / 50Hz, 1 ph / 230V / 60Hz, 1 ph / 115V / 60Hz
Evaporator ES150 MAX	14 kg		
Evaporator ES200 MAX	15 kg		
SOUND PRESSURE LEVEL			
High Speed Diesel	88 dB(A)		



DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
Tracking (tracking and load monitoring)		x	x
USB Datalogger	x		
LOAD PROTECTION			
Hold-over functionality	x		
Start/Stop and Increased Idle Speed Functionality	x		
Variable Speed Compressor	x		
Tailor Made Inverter	x		
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)		x	
Din Adapter		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



CONDENSER Width 1180 mm x Depth 535 mm x Height 221 mm

E-200 MAX

Charge into the era of all-electric transport refrigeration

- Compliant with sound regulations for urban access
- An extra smart charger to manage different power sources (including the additional battery pack)
- A variable speed compressor for precise temperature control, decreased energy consumption, and enhanced reliability
- A tailor-made inverter for constant capacity and exceptional operating efficiency, independent of the vehicle
- A stand out controller with power management intelligence to optimize the supply and demand of power
- Embedded telematics to track and monitor the condition of each unit in your transport fleet

PERFORMANCE

REFRIGERATION CAPACITY: INDIVIDUAL COOLING CAPACITY		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on engine power ES150 MAX 0°C	1958 W	ES150	800 m3/hr
Capacity on engine power ES150 MAX -20°C	1071 W	ES200	1012 m3/hr
Capacity on engine power ES200 MAX 0°C	1744 W		
Capacity on engine power ES200 MAX -20°C	932 W		
Capacity on electrical stand by ES150 MAX 0°C	1947 W		
Capacity on electrical stand by ES150 MAX -20°C	1074 W		
Capacity on electrical stand by ES200 MAX 0°C	1780 W		
Capacity on electrical stand by ES200 MAX -20°C	921 W		

TECHNICAL DATA

CONSUMPTION		REFRIGERANT CHARGE	
ES 150 - Max Power Capacity	1958 W / 114 A (W) /Current (A)	Charge	1.2 kg
ES 200 - Max Power Capacity	1744 W / 120 A (W) /Current (A)		
ES 150 - Min Power Capacity	1259 W / 71 A (W) /Current (A)		
ES 200 - Min Power Capacity	1121 W / 75 A (W) /Current (A)		

GENERIC (BOXLENGTH, REFRIGERANT, ...)		HEATING CAPACITY	
Refrigerant	R-452A	Capacity on Electrical Stand-By power -18°C	1300 W
Controller	DSR-IV	Capacity on engine power -18°C	1300 W

WEIGHT INCLUDING BATTERY		ELECTRICAL STAND BY MOTOR	
Condenser	39 kg	Voltage / Phase / Frequency	1 ph / 230V / 50Hz 1 ph / 230V / 60Hz 1 ph / 115V / 60Hz
Evaporator ES150 MAX	14 kg		
Evaporator ES200 MAX	15 kg		

SOUND PRESSURE LEVEL	
High Speed Diesel	88 dB(A)

DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
Tracking (tracking and load monitoring)		x	x
USB Datalogger	x		
LOAD PROTECTION			
Hold-over functionality	x		
Start/Stop and Increased Idle Speed Functionality	x		
Variable Speed Compressor	x		
Tailor Made Inverter	x		
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)		x	
Din Adapter		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

DIRECT DRIVE TRUCK - MULTI TEMPERATURE



CONDENSER Width 1180 mm x Depth 535 mm x Height 221 mm

E-200 Spectrum

Charge into the era of all-electric transport refrigeration

- Compliant with sound regulations for urban access
- An extra smart charger to manage different power sources (including the additional battery pack)
- A variable speed compressor for precise temperature control, decreased energy consumption, and enhanced reliability
- A tailor-made inverter for constant capacity and exceptional operating efficiency, independent of the vehicle
- A stand out controller with power management intelligence to optimize the supply and demand of power
- Embedded telematics to track and monitor the condition of each unit in your transport fleet

PERFORMANCE

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power ES100N MAX+ES100N MAX -20°C	820 W
Capacity on electrical stand by ES100N MAX+ES100N MAX -20°C	825 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

ES100N	580 m3/hr
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TECHNICAL DATA

CONSUMPTION

ES 100N x ES100N - Capacity	1578 W / 120 A (W) /Current (A)
ES 100N x ES100N - Min Power Capacity	1014 W / 75 A (W) /Current (A)

REFRIGERANT CHARGE

Charge	1.59 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

Refrigerant	R-452A
Controller	DSR-IV

HEATING CAPACITY

Capacity on Electrical Stand-By power -18°C	1300 W
Capacity on engine power -18°C	1300 W

WEIGHT

INCLUDING BATTERY

Evaporator 2 x ES100N MAX	18 kg
Condenser	54 kg

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	1 ph / 230V / 50Hz, 1 ph / 230V / 60Hz, 1 ph / 115V / 60Hz
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DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
2-year warranty coverage	x		
DATA CAPTURE & COMMUNICATIONS			
Tracking (tracking and load monitoring)		x	x
USB Datalogger	x		
LOAD PROTECTION			
Hold-over functionality	x		
Start/Stop and Increased Idle Speed Functionality	x		
Variable Speed Compressor	x		
Tailor Made Inverter	x		
Bumper feet roof mounting	x		
HMI holder	x		
Kit hoses large (upgrade)		x	
Din Adapter		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

DIRECT DRIVE TRUCK - MULTI TEMPERATURE



UNIT Width 1180 mm x Depth 535 mm x Height 221 mm

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 engine power ES100 MAX 0°C	2670 W
Capacity on engine power ES100 MAX -20°C	1450 W
Capacity on electrical stand by ES100 MAX 0°C	2195 W
Capacity on electrical stand by ES100 MAX -20°C	1125 W

REFRIGERATION CAPACITY

SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT

Capacity on engine power -20°C	1750 W
Capacity on engine power ES100 MAX+ES100 MAX -20°C	1750 W
Capacity on electrical stand by -20°C	1170 W
Capacity on electrical stand by ES100 MAX+ES100 MAX -20°C	1170 W

AIRFLOW

ON HIGH SPEED ENGINE OPERATION

Airflow volume @ 0 pa static pressure	1172 m ³ /hr
ES100+ES100	695 m ³ /hr

TECHNICAL DATA

COMPRESSOR

Model	QP13
Displacement	131 cm ³
Number of cylinders	6

REFRIGERANT CHARGE

Charge	1.35 kg
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GENERIC (BOXLENGTH, REFRIGERANT, ...)

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

DEFROST

Defrost	Automatic hot gas defrost
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HEATING CAPACITY

On the road	2800 W
Electric Stand By Operation	2050 W

WEIGHT

INCLUDING BATTERY

Installation kit	24 kg
Condenser w/o electric stand-by	25 kg
Condenser with electric stand-by	72 kg
Swash Plate Compressor	6.9 kg
Evaporator ES100 MAX	9 kg

ELECTRICAL STAND BY MOTOR

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

SOUND PRESSURE LEVEL

High Speed Diesel	85 dB(A)
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DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Hose extention 2 m/4 m/6 m		x	
Bumper feet roof mounting	x		
HMI holder	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

DIRECT DRIVE TRUCK - MULTI TEMPERATURE



UNIT Width 1180 mm x Depth 535 mm x Height 221 mm

V-300 MAX Spectrum

Superior temperature control

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

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

PERFORMANCE

REFRIGERATION CAPACITY: INDIVIDUAL COOLING CAPACITY		REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT	
Capacity on engine power ES150 MAX 0°C	2895 W	Capacity on engine power ES150 MAX+ES150 MAX -20°C	2150 W
Capacity on engine power ES150 MAX -20°C	1625 W	Capacity on engine power ES150 MAX+ES100 MAX -20°C	2150 W
Capacity on engine power ES100 MAX 0°C	2685 W	Capacity on engine power ES200 MAX+ES100 MAX -20°C	1870 W
Capacity on engine power ES100 MAX -20°C	1540 W	Capacity on electrical stand by ES150 MAX+ES150 MAX -20°C	1380 W
Capacity on engine power ES200 MAX 0°C	2940 W	Capacity on electrical stand by ES150 MAX+ES100 MAX -20°C	1415 W
Capacity on engine power ES200 MAX -20°C	1585 W	Capacity on electrical stand by ES200 MAX+ES100 MAX -20°C	1315 W
Capacity on electrical stand by ES150 MAX 0°C	2340 W		
Capacity on electrical stand by ES150 MAX -20°C	1240 W		
Capacity on electrical stand by ES100 MAX 0°C	2205 W		
Capacity on electrical stand by ES100 MAX -20°C	1145 W		
Capacity on electrical stand by ES200 MAX 0°C	2480 W		
Capacity on electrical stand by ES200 MAX -20°C	1180 W		
AIRFLOW ON HIGH SPEED ENGINE OPERATION			
ES200+ES100	1210 + 770 m ³ /hr		
ES150+ES150	2 x 890 m ³ /hr		
ES150+ES100	890 + 765 m ³ /hr		

TECHNICAL DATA

COMPRESSOR		REFRIGERANT CHARGE	
Model	QP15	Charge	30: 1.55 -- 50: 1.85 kg
Displacement	146.7 cm ³		
Number of cylinders	6		
GENERIC (BOXLENGTH, REFRIGERANT, ...)		HOST UNIT ELECTRIC STANDBY	
Box volume	16 m ³	AC Voltage/Phase/Cycles (system voltage)	230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Refrigerant	R-452A		
Airflow	890 m ³ /hr		
Controller	DSR III		
DEFROST		HEATING CAPACITY	
Defrost	Automatic hot gas defrost	On the road	3100 W
		Electric Stand By Operation	2250 W



DIRECT DRIVE TRUCK - MULTI TEMPERATURE

WEIGHT INCLUDING BATTERY		ELECTRICAL STAND BY MOTOR	
Model 30	25 kg	Voltage / Phase / Frequency	230/1/50 -- 230/1/60 -- 400/3/50 -- 230/3/50 -- 230/3/60
Model 50	75 kg		
Installation kit	24 kg	Rating	3.8 kW
Condenser w/o electric stand-by	25 kg		
Condenser with electric stand-by	72 kg		
Evaporator ES150 MAX	12.5 kg		
Swash Plate Compressor	6.8 kg		
Evaporator ES100 MAX	9 kg		
Evaporator ES200 MAX	15 kg		
SOUND PRESSURE LEVEL			
High Speed Diesel	85 dB(A)		



DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Hose extention 2 m/4 m/6 m		x	
Bumper feet roof mounting	x		
HMI holder	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Muffler kit		x	
Snow Cover (kit deflector Small)		x	
Harness Extension 2m/4m/6m		x	
Door switches		x	

DIRECT DRIVE TRUCK - MULTI TEMPERATURE



UNIT Width 475 mm x Depth 1339 mm x Height 448 mm
CONDENSER Width 1339 mm x Depth 475 mm x Height 448 mm

V-500 MAX SPECTRUM

Superior temperature control

The V500 Max Spectrum unit is designed for medium-sized trucks (four to five metres in length). Offered in four different evaporator configurations (ES300 + ES300, ES300 + 2 x ES150, ES300 + ES150 and 2 x ES150 + 2 x ES150), it optimizes the amount of goods transported in each journey.

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

PERFORMANCE			
REFRIGERATION CAPACITY: INDIVIDUAL COOLING CAPACITY		REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT	
Capacity on engine power ES500 MAX 0°C	4630 W	Capacity on engine power -20°C	2290 W
Capacity on engine power ES500 MAX -20°C	2380 W	Capacity on engine power ES300 MAX+ES300 MAX -20°C	2290 W
Capacity on engine power ES150 MAX 0°C	2925 W	Capacity on engine power ES300 MAX+ES150 MAX -20°C	2290 W
Capacity on engine power ES150 MAX -20°C	1410 W	Capacity on engine power ES300 MAX + 2xES150 MAX -20°C	2290 W
Capacity on engine power 2 X ES150 MAX 0°C	3974 W	Capacity on electrical stand by -20°C	1920 W
Capacity on engine power 2 X ES150 MAX -20°C	1970 W	Capacity on electrical stand by ES300 MAX+ES300 MAX -20°C	1920 W
Capacity on engine power ES300 MAX 0°C	3585 W	Capacity on electrical stand by ES300 MAX+ES150 MAX -20°C	1920 W
Capacity on engine power ES300 MAX -20°C	1850 W	Capacity on electrical stand by ES300 MAX + 2xES150 MAX -20°C	1920 W
Capacity on engine power ES100 MAX 0°C	2300 (ES100n) W		
Capacity on engine power ES100 MAX -20°C	1290 (ES100n) W		
Capacity on electrical stand by ES500 MAX 0°C	4085 W		
Capacity on electrical stand by engine power ES500 MAX -20°C	2020 W		
Capacity on electrical stand by ES150 MAX 0°C	2579 W		
Capacity on electrical stand by ES150 MAX -20°C	1320 W		
Capacity on electrical stand by 2 X ES150 MAX 0°C	3596 W		
Capacity on electrical stand by 2 X ES150 MAX -20°C	1700 W		
Capacity on electrical stand by ES100 MAX 0°C	2410 (ES100n) W		
Capacity on electrical stand by ES100 MAX -20°C	1075 (ES100n) W		
Capacity on electrical stand by ES300 MAX 0°C	3385 W		
Capacity on electrical stand by ES300 MAX -20°C	1670 W		
AIRFLOW ON HIGH SPEED ENGINE OPERATION			
ES300 + 2XES150	1185+(2x700) m3/hr		
ES300+ES150	1185+700 m3/hr		
ES300+ES300	2x1185 m3/hr		

TECHNICAL DATA			
COMPRESSOR		REFRIGERANT CHARGE	
Model	QP16	Charge	model 30 = 2.4 kg and model 50 = 2.5 kg
Displacement	163 cm3		
Number of cylinders	6		
GENERIC (BOXLENGTH, REFRIGERANT, ...)		DEFROST	



DIRECT DRIVE TRUCK - MULTI TEMPERATURE

Box volume	22 m3
Refrigerant	R-404A/R-452A
Airflow	1185 m3/hr
Controller	DSR III

Defrost	Automatic hot gas defrost
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HEATING CAPACITY		WEIGHT INCLUDING BATTERY	
On the road	3600 W	Condenser w/o electric stand-by	53 kg
Electric Stand By Operation	3120 W	Condenser with electric stand-by	125 kg
		Evaporator ES500 MAX	25.5 kg
		Evaporator ES300 MAX	18 kg
		Evaporator ES150 MAX	12.5 kg
		Swash Plate Compressor	7.1 kg
		Evaporator ES100 MAX	8.5 (ES100n) kg

ELECTRICAL STAND BY MOTOR	
Voltage / Phase / Frequency	400/3/50 --230/3/50 -- 230/3/60 -- 230/1/50 -- 230/1/60 --380/3/60
Rating	6.4 (400/3/50) kW



DIRECT DRIVE TRUCK - MULTI TEMPERATURE

	STANDARD FEATURE	OPTION FACTORY FITTED	OPTION DEALER FITTED
LIFE COST MANAGEMENT			
ThermoKare Service contracts			x
DATA CAPTURE & COMMUNICATIONS			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
LOAD PROTECTION			
Bumper feet roof mounting	x		
HMI holder	x		
Kit swivel manifold (upgrade)	x		
Din Adapter		x	
Hose Cover		x	
Door switches		x	



CT-10

Clean, silent and efficient refrigeration.

- Lowest environmental impact
- Ideal for distribution services
- Extreme low noise: PIEK certified
- Precise temperature control

PERFORMANCE

REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on vehicle power/electric standby S-2 CT 0°C	5800 W	Airflow volume @ 0 pa static pressure S-2 CT	1360 m3/hr
Capacity on vehicle power/electric standby S-2 CT -20°C	5200 W	Airflow volume @ 0 pa static pressure S-3 CT	2040 m3/hr
Capacity on vehicle power/electric standby S-3 CT 0°C	8800 W	Discharge velocity - airtrow S-2 CT	9.1 m3/hr
Capacity on vehicle power/electric standby S-3 CT -20°C	7800 W	Discharge velocity - airtrow S-3 CT	9.1 m3/hr

TECHNICAL DATA

GENERIC (BOXLENGTH, REFRIGERANT, ...)		HOST UNIT ELECTRIC STANDBY	
Boxlength	Up to 9 m	AC Voltage/Phase/Cycles (system voltage)	380/3/50 -- 230/3/50 -- 230/1/60 (12v)
Airflow	1360 - 2040 m3/hr		
Controller	Smart Reefer 3		
Weight Electric Control Module	49 kg		
Weight Tank 330L	171 kg		
Weight Tank 330L + CO2	544 kg		
Weight Tank 430L	207 kg		
Weight Tank 430L + CO2	696 kg		
Heating capacity per evaporator	5650 - 6850 W		
REFRIGERANT: RECYCLED LIQUID CO2, R-744		SAMPLE ZONE CONFIGURATION	
Charge, 330L Tank	Maximum 373 kg	ZONE 1 Evaporator	S-2 CT
Charge, 430L Tank	Maximum 489 kg	ZONE 1 Cooling Capacity	5800 W
		ZONE 1 EVAPORATOR	1360 W



CT-15

Clean, silent and efficient refrigeration.

- Lowest environmental impact
- Ideal for distribution services
- Extreme low noise: PIEK certified
- Precise temperature control

PERFORMANCE

REFRIGERATION CAPACITY		AIRFLOW	
SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		ON HIGH SPEED ENGINE OPERATION	
Capacity on vehicle power/electric standby S-2 CT 0°C	5800 W	Airflow volume @ 0 pa static pressure S-2 CT	1360 m3/hr
Capacity on vehicle power/electric standby S-2 CT -20°C	5200 W	Airflow volume @ 0 pa static pressure S-3 CT	2040 m3/hr
Capacity on vehicle power/electric standby S-3 CT 0°C	8800 W	Discharge velocity - airthrow S-2 CT	9.1 m3/hr
Capacity on vehicle power/electric standby S-3 CT -20°C	7800 W	Discharge velocity - airthrow S-3 CT	9.1 m3/hr

TECHNICAL DATA

GENERIC (BOXLENGTH, REFRIGERANT, ...)		REFRIGERANT: RECYCLED LIQUID CO2, R-744	
Boxlength	Up to 13 m	Charge, 330L Tank	Maximum 373 kg
Airflow	1360 - 2040 m3/hr	Charge, 430L Tank	Maximum 489 kg
Controller	Smart Reefer 3		
Weight Electric Control Module	145 kg		
Weight Tank 330L	171 kg		
Weight Tank 330L + CO2	544 kg		
Weight Tank 430L	207 kg		
Weight Tank 430L + CO2	696 kg		
Heating capacity per evaporator	5650 - 8650 W		



CRYOTECH - SINGLE TEMPERATURE

SAMPLE ZONE CONFIGURATION	
ZONE 1 Evaporator	S-3 CT
ZONE 1 Cooling Capacity	8800 W
ZONE 1 EVAPORATOR	2040 W



CT-10 SPECTRUM

Clean, silent and efficient refrigeration.

- Lowest environmental impact
- Ideal for distribution services
- Extreme low noise: PIEK certified
- Precise temperature control

PERFORMANCE

REFRIGERATION CAPACITY SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		AIRFLOW ON HIGH SPEED ENGINE OPERATION	
Capacity on vehicle power/electric standby S-2 CT 0°C	5800 W	Airflow volume @ 0 pa static pressure S-2 CT	1360 m3/hr
Capacity on vehicle power/electric standby S-2 CT -20°C	5200 W	Airflow volume @ 0 pa static pressure S-3 CT	2040 m3/hr
Capacity on vehicle power/electric standby S-3 CT 0°C	8800 W	Discharge velocity - airtrow S-2 CT	9.1 m3/hr
Capacity on vehicle power/electric standby S-3 CT -20°C	7800 W	Discharge velocity - airtrow S-3 CT	9.1 m3/hr

TECHNICAL DATA

GENERIC (BOXLENGTH, REFRIGERANT, ...)		HOST UNIT ELECTRIC STANDBY	
Boxlength	Up to 9 m	AC Voltage/Phase/Cycles (system voltage)	380/3/50 -- 230/3/50 -- 230/1/60 (12v)
Airflow	1360 - 4080 m3/hr		
Controller	Smart Reefer 3		
Weight Electric Control Module	49 kg		
Weight Tank 330L	171 kg		
Weight Tank 330L + CO2	544 kg		
Weight Tank 430L	207 kg		
Weight Tank 430L + CO2	696 kg		
Heating capacity per evaporator	5650 - 6850 W		

REFRIGERANT: RECYCLED LIQUID CO2, R-744		SAMPLE ZONE CONFIGURATION	
Charge, 330L Tank	Maximum 373 kg	ZONE 1 Evaporator	S-2 CT
Charge, 430L Tank	Maximum 489 kg	ZONE 1 Cooling Capacity	5800 W
		ZONE 1 EVAPORATOR	1360 W
		ZONE 2 Evaporator	S-3 CT
		ZONE 2 Cooling Capacity	8800 W
		ZONE 2 EVAPORATOR	2040 W

ELECTRICAL STAND BY MOTOR

Voltage / Phase / Frequency	400/3/50 -- 230/3/50
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CT-15 SPECTRUM

Clean, silent and efficient refrigeration.

- Lowest environmental impact
- Ideal for distribution services
- Extreme low noise: PIEK certified
- Precise temperature control

PERFORMANCE

REFRIGERATION CAPACITY		AIRFLOW	
SYSTEM NET COOLING CAPACITY UNDER A.T.P. CONDITIONS AT 30 °C AMBIENT		ON HIGH SPEED ENGINE OPERATION	
Capacity on vehicle power/electric standby S-2 CT 0°C	5800 W	Airflow volume @ 0 pa static pressure S-2 CT	1360 m3/hr
Capacity on vehicle power/electric standby S-2 CT -20°C	5200 W	Airflow volume @ 0 pa static pressure S-3 CT	2040 m3/hr
Capacity on vehicle power/electric standby S-3 CT 0°C	8800 W	Discharge velocity - airthrow S-2 CT	9.1 m3/hr
Capacity on vehicle power/electric standby S-3 CT -20°C	7800 W	Discharge velocity - airthrow S-3 CT	9.1 m3/hr

TECHNICAL DATA

GENERIC (BOXLENGTH, REFRIGERANT, ...)		HOST UNIT ELECTRIC STANDBY	
Boxlength	Up to 13 m	AC Voltage/Phase/Cycles (system voltage)	380/3/50 -- 230/3/50 -- 115/1/60 (12v)
Airflow	1360 - 6120 m3/hr		
Controller	Smart Reefer 3		
Weight Electric Control Module	145 kg		
Weight Tank 330L	171 kg		
Weight Tank 330L + CO2	544 kg		
Weight Tank 430L	207 kg		
Weight Tank 430L + CO2	696 kg		
Heating capacity per evaporator	5650 -8650 W		



CRYOTECH - MULTI TEMPERATURE

REFRIGERANT: RECYCLED LIQUID CO2, R-744		SAMPLE ZONE CONFIGURATION	
Charge, 330L Tank	Maximum 373 kg	ZONE 1 Evaporator	S-2 CT
Charge, 430L Tank	Maximum 489 kg	ZONE 1 Cooling Capacity	5800 W
		ZONE 1 EVAPORATOR	1360 W
		ZONE 2 Evaporator	S-3 CT
		ZONE 2 Cooling Capacity	8800 W
		ZONE 2 EVAPORATOR	2040 W
		ZONE 3 Evaporator	S-3 CT
		ZONE 3 Cooling Capacity	8800 W
		ZONE 3 EVAPORATOR	2040 W
ELECTRICAL STAND BY MOTOR			
Voltage / Phase / Frequency		400/3/50 -- 230/3/50	

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 Périissable") and applies to border-crossing long-distance transport.

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

Content

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

OTHER TOPICS IN ATP ARE:

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

Scope

The ATP Agreement applies to:

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

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

Carriage of perishable foodstuffs intended for human consumption

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

Signatories

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

ATP regulations on carrying perishable goods

Classification in ATP

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

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

THIS MEANS:

F = Transport equipment with built in refrigeration machine,

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

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

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

THIS MEANS:

F = Transport equipment with built in refrigeration machine,

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

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

Type test of the refrigeration appliance according to DIN and ATP

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

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

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

ATP regulations on carrying perishable goods

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

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

Chilled foodstuffs

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

ATP Handbook

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

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



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