

# T-600X

## DELIVERING WHAT MATTERS

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

### PERFORMANCE

#### Airflow

Independent from unit engine speed

Airflow HSD		3 230
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#### Heating Capacity

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

#### Fuel Efficiency

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

#### High Speed Diesel Capacity

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

#### (Electric) Stand-by Capacity

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

#### Fuel Consumption

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

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

Refrigerant		R-452A
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#### Service Interval

Service Interval		2 000
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#### Weight

Total Unit Weight (50 Model)		436
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#### Unit Dimensions

Height	mm	632
Width	mm	1 888
Depth	mm	919

#### Noise

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

#### Refrigerant

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

# T-800X

## DELIVERING WHAT MATTERS

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

### PERFORMANCE

#### Airflow

Independent from unit engine speed

Airflow HSD		3 040
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#### Heating Capacity

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

#### Fuel Efficiency

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

#### High Speed Diesel Capacity

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

#### (Electric) Stand-by Capacity

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

#### Fuel Consumption

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

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

Refrigerant		R-452A
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#### Service Interval

Service Interval		2 000
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#### Weight

Total Unit Weight (50 Model)		440
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#### Unit Dimensions

Height	mm	632
Width	mm	1 888
Depth	mm	919

#### Noise

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

#### Refrigerant

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

# T-1100X

## DELIVERING WHAT MATTERS

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

### PERFORMANCE

#### Airflow

Independent from unit engine speed

Airflow HSD		3 720
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#### Heating Capacity

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

#### Fuel Efficiency

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

#### High Speed Diesel Capacity

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

#### (Electric) Stand-by Capacity

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

#### Fuel Consumption

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

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

Refrigerant		R-452A
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#### Service Interval

Service Interval		2 000
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#### Weight

Total Unit Weight (50 Model)		473
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#### Unit Dimensions

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

#### Noise

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

#### Refrigerant

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

# T-1100X Spectrum

## DELIVERING WHAT MATTERS

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

### PERFORMANCE

#### Airflow

Independent from unit engine speed

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

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

#### Fuel Efficiency

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

#### (Electric) Stand-by Capacity

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

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

Refrigerant		R-452A
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#### Weight

Total Unit Weight (50 Model)		430
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#### Noise

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

#### High Speed Diesel Capacity

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

#### Fuel Consumption

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

#### Service Interval

Service Interval		2 000
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#### Unit Dimensions

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

#### Refrigerant

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

# T-1300X

## DELIVERING WHAT MATTERS

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

### PERFORMANCE

#### Airflow

Independent from unit engine speed

Airflow HSD		3 430
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#### Heating Capacity

Heating Capacity HSD 20°/-18°		7 800
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### TECHNICAL DATA

#### Fuel Efficiency

Fuel Efficiency HSD 0°/30°		3.67
Fuel Efficiency HSD -20°/30°		2.55

#### High Speed Diesel Capacity

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

#### (Electric) Stand-by Capacity

Cooling Capacity stand-by -20°/30°		5 390
Individual Evaporator Capacity Stand-by 0°/30°		10 080

#### Fuel Consumption

Fuel Consumption HSD 0°/30°		3.43
Fuel Consumption HSD -20°/30°		2.86

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

Refrigerant		R-452A
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#### Service Interval

Service Interval		2 000
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#### Weight

Total Unit Weight (50 Model)		476
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#### Unit Dimensions

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

#### Noise

Sound Power Level HSD dB(A)		97
Sound Pressure Level HS dB(A)		71.7
Sound Pressure Level LSD dB(A)		65.6
Sound Pressure Level Stand-by dB(A)		62.5

#### Refrigerant

Refrigerant Weight		3.2
GWP/kg		2 140
Refrigerant GWP (Total)		6 848

# T-1300X Spectrum Whisper Pro

## DELIVERING WHAT MATTERS

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

PERFORMANCE		
<b>Airflow</b>		
Independent from unit engine speed		
Airflow HSD		1230/1785/266/2334
<b>Heating Capacity</b>		
Heating Capacity HSD 20°/-18°		7790/9190/9680/9770

TECHNICAL DATA		
<b>Fuel Efficiency</b>		
Fuel Efficiency HSD 0°/30°		3,47
Fuel Efficiency HSD -20°/30°		2,44
<b>(Electric) Stand-by Capacity</b>		
Cooling Capacity stand-by -20°/30°		4 760
Individual Evaporator Capacity Stand-by 0°/30°		7 390
<b>Generic (Boxlength, Refrigerant, ...)</b>		
Refrigerant		R-452A
<b>Weight</b>		
Total Unit Weight (50 Model)		450
<b>High Speed Diesel Capacity</b>		
Cooling Capacity HSD 0°/30°		11 480
Cooling Capacity HSD -20°/30°		6 920
<b>Fuel Consumption</b>		
Fuel Consumption HSD 0°/30°		3,31
Fuel Consumption HSD -20°/30°		2,84
<b>Service Interval</b>		
Service Interval		2 000
<b>Unit Dimensions</b>		
Height	mm	704
Width	mm	1 888
Depth	mm	919
<b>Noise</b>		
Sound Power Level HSD dB(A)		92,6
Sound Pressure Level HS dB(A)		64,4
Sound Pressure Level LSD dB(A)		56
Sound Pressure Level Stand-by dB(A)		59,3
<b>Refrigerant</b>		
Refrigerant Weight		6,25
GWP/kg		2 140
Refrigerant GWP (Total)		13 375

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

## The electric unit your truck can't resist

Full electric refrigeration units for Large Trucks

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

### PERFORMANCE

#### Refrigeration Capacity

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

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

#### Heating Capacity

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

Independent from unit engine speed

Airflow	m <sup>3</sup> /hr	2 670
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### TECHNICAL DATA

#### Weight

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

#### Noise

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

#### Unit Dimensions

Height	mm	612
Width	mm	2 142
Depth	mm	563

#### Refrigerant

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

## LARGE TRUCK - SINGLE TEMPERATURE

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

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

## The electric unit your truck can't resist

Full electric refrigeration units for Large Truck

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

### PERFORMANCE

#### Refrigeration Capacity

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

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

#### Heating Capacity

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

Independent from unit engine speed

Airflow	m <sup>3</sup> /hr	4 240
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### TECHNICAL DATA

#### Weight

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

#### Noise

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

#### Unit Dimensions

Height	mm	612
Width	mm	2 142
Depth	mm	563

#### Refrigerant

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

### AVAILABLE EVAP CONFIGURATIONS

E-3 + E-3

## LARGE TRUCK - SINGLE TEMPERATURE

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

# T-600X

## DELIVERING WHAT MATTERS

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

### PERFORMANCE

#### Airflow

Independent from unit engine speed

Airflow HSD		3 230
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#### Heating Capacity

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

#### Fuel Efficiency

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

#### High Speed Diesel Capacity

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

#### (Electric) Stand-by Capacity

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

#### Fuel Consumption

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

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

Refrigerant		R-452A
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#### Service Interval

Service Interval		2 000
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#### Weight

Total Unit Weight (50 Model)		436
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#### Unit Dimensions

Height	mm	632
Width	mm	1 888
Depth	mm	919

#### Noise

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

#### Refrigerant

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

## DIRECT DRIVE TRUCK - SINGLE TEMPERATURE



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

# V-800

## The most powerful vehicle powered range

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

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

### PERFORMANCE

#### Refrigeration Capacity

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

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

### TECHNICAL DATA

#### Compressor

Model		QP21
Displacement	cm <sup>3</sup>	215
Number of cylinders		10

#### Weight

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

#### Unit Dimensions

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

#### Refrigerant

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

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

#### Defrost

Defrost		Automatic hot gas defrost
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#### Electrical Stand by Motor

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

## DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

20: 4.85

### AVAILABLE EVAP CONFIGURATIONS

ES150, ES400, ES600, ES800

## DIRECT DRIVE TRUCK - SINGLE TEMPERATURE

	STANDARD FEATURE	OPTION / FACTORY FITTED	OPTION / DEALER FITTED
<b>Life cost management</b>			
ThermoKare Service contracts			x
<b>Data capture &amp; communications</b>			
USB Datalogger			x
TouchPrint data logger			x
Wintrac (data analysis software)			x
Datalogger Jr			x
<b>Load Protection</b>			
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 CO<sub>2</sub> emissions from the unit
- Low noise
- Fuel consumption is less than an equivalent self-powered system
- Lower maintenance costs due to the absence of a diesel engine

### PERFORMANCE

#### Refrigeration Capacity

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

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

#### Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m <sup>3</sup> /hr	3 540
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### TECHNICAL DATA

#### Compressor

Model		QP25
Displacement	cm <sup>3</sup>	250
Number of cylinders		10

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

Refrigerant		R-134a
Controller		DSR III

#### Weight

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

#### Defrost

Defrost		Automatic hot gas defrost
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#### Unit Dimensions

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

#### Electrical Stand by Motor

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

#### Refrigerant

Charge	kg	10: 5.4 // 20: 5.7
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## SELF POWERED TRUCK - SINGLE TEMPERATURE

### AVAILABLE EVAP CONFIGURATIONS

ES1000, ES150, ES300, ES600, ES800

# E-1200e SPECTRUM

## The electric unit your truck can't resist

Full electric refrigeration units for Large Trucks

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

### PERFORMANCE

#### Refrigeration Capacity

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

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

#### Heating Capacity

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

#### Airflow

Independent from unit engine speed

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

### TECHNICAL DATA

#### Weight

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

#### Noise

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

#### Unit Dimensions

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

#### Refrigerant

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

### AVAILABLE EVAP CONFIGURATIONS

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

## LARGE TRUCK - MULTI TEMPERATURE

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

# E-1600e SPECTRUM

## The electric unit your truck can't resist

Full electric refrigeration units for Large Trucks

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

### PERFORMANCE

#### Refrigeration Capacity

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

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

#### Heating Capacity

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

#### Airflow

Independent from unit engine speed

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

### TECHNICAL DATA

#### Weight

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

#### Unit Dimensions

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

#### Noise

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

#### Refrigerant

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

### AVAILABLE EVAP CONFIGURATIONS

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

## LARGE TRUCK - MULTI TEMPERATURE

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

# SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE



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

## UT-R Spectrum

Ideal for multi-temperature urban distribution

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

### PERFORMANCE

#### Refrigeration Capacity

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

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

#### Airflow

INDEPENDENT FROM UNIT ENGINE SPEED

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

#### Features

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

General	TSR-3
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#### (Electric) Stand-by Capacity

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

Model	X430 C5
Displacement	489 cm <sup>3</sup>
Number of cylinders	4

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

Refrigerant	R-452A
-------------	--------

#### Weight

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

#### Defrost

Defrost	Automatic hot gas defrost
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#### Unit Dimensions

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

## SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE

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

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

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



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

## UT-R Extreme

### For truck and highloader undermount applications at extreme ambients

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

#### PERFORMANCE

##### Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m <sup>3</sup> /hr	3 350
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#### TECHNICAL DATA

##### Refrigeration Capacity High Ambient Temperature (55°C)

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

##### Features

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

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

##### Compressor

Model		X430 C5
Displacement	cm <sup>3</sup>	489
Number of cylinders		4

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

Refrigerant		R-452A
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##### Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	63.5

##### Defrost

Defrost		Automatic hot gas defrost
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##### Unit Dimensions

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

##### Engine

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

##### Electrical Stand by Motor

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

##### Noise

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

##### Refrigerant

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

# V-800 MAX Spectrum

## Superior temperature control

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

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

### PERFORMANCE

#### Refrigeration Capacity: Individual Cooling Capacity

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

#### Airflow

Independent from unit engine speed

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

#### Refrigeration Capacity

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

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

#### Heating Capacity

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

### TECHNICAL DATA

#### Compressor

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

Box volume	m <sup>3</sup>	40
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## DIRECT DRIVE TRUCK - MULTI TEMPERATURE

Displacement	cm <sup>3</sup>	215
Number of cylinders		10

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

### Weight

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

### Defrost

Defrost		Automatic hot gas defrost
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### Unit Dimensions

Height	mm	458.7
Width	mm	1 592
Depth	mm	523
Condenser Height	mm	458.7
Condenser Width	mm	1 592
Condenser Depth	mm	523
Evaporator ES600 MAX Height	mm	240
Evaporator ES600 MAX Width	mm	1 330.5
Evaporator ES600 MAX Depth	mm	592
Evaporator ES400 MAX Height	mm	236
Evaporator ES400 MAX Width	mm	1 080
Evaporator ES400 MAX Depth	mm	592
Evaporator ES150 MAX Height	mm	187
Evaporator ES150 MAX Width	mm	755
Evaporator ES150 MAX Depth	mm	540
In-cab Controls Height	mm	46
In-cab Controls Width	mm	135
In-cab Controls Depth	mm	25

### Electrical Stand by Motor

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

### Refrigerant

Charge	kg	ES400+ES400: 5.2 -- ES600+ES150: 5.0 -- ES600+2XE S150: 5.15
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## DIRECT DRIVE TRUCK - MULTI TEMPERATURE

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

# V-1000 Spectrum

## A revolution in large truck refrigeration technology

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

### PERFORMANCE

#### Refrigeration Capacity: Individual Cooling Capacity

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

#### Refrigeration Capacity

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

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

#### Airflow

Independent from unit engine speed

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

#### Heating Capacity

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

### TECHNICAL DATA

#### Compressor

Model		QP25
Displacement	cm <sup>3</sup>	250
Number of cylinders		10

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

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

#### Weight

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

#### Defrost

Defrost		Automatic hot gas defrost
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#### Unit Dimensions

#### Electrical Stand by Motor

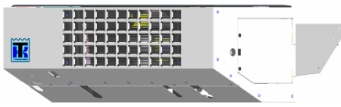
## SELF POWERED TRUCK - MULTI TEMPERATURE

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

### Refrigerant

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



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

# RT-800R

## Purpose-designed solutions for Intermodal applications

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

### PERFORMANCE

#### Refrigeration Capacity

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

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

#### Airflow

Independent from unit engine speed

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

### TECHNICAL DATA

#### Compressor

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

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

#### Weight

Model 30	kg	451
Model 50	kg	484

#### Unit Dimensions

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

#### Engine

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

#### Electrical Stand by Motor

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

# T-1200R Intermodal

## Purpose-designed solutions for Intermodal applications

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

### PERFORMANCE

#### Refrigeration Capacity

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

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

#### Airflow

Independent from unit engine speed

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

### TECHNICAL DATA

#### Compressor

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

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

#### Weight

Model 50	kg	517
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#### Unit Dimensions

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

#### Engine

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

#### Electrical Stand by Motor

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



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

## UT-R Spectrum

Ideal for multi-temperature urban distribution

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

### PERFORMANCE

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

### TECHNICAL DATA

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

## SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE

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

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

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

# UT-1000R

## TECHNICAL DATA

### (Electric) Stand-by Capacity

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

## UT-1200 E

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

## UT-R Spectrum

Ideal for multi-temperature urban distribution

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

### PERFORMANCE

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

### TECHNICAL DATA

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

## SELF POWERED TRUCK - UNDERMOUNT MULTI TEMPERATURE

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

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

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



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

## UT-R Extreme

### For truck and highloader undermount applications at extreme ambients

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

#### PERFORMANCE

##### Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m <sup>3</sup> /hr	3 350
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#### TECHNICAL DATA

##### Refrigeration Capacity High Ambient Temperature (55°C)

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

##### Features

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

General		TSR-3
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##### Compressor

Model		X430 C5
Displacement	cm <sup>3</sup>	489
Number of cylinders		4

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

Refrigerant		R-452A
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##### Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	63.5

##### Defrost

Defrost		Automatic hot gas defrost
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##### Unit Dimensions

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

##### Engine

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

##### Electrical Stand by Motor

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

##### Noise

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

##### Refrigerant

Charge	kg	4.6
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SELF POWERED TRUCK - UNDERMOUNT SINGLE TEMPERATURE



# UT-1400R S-3 + S-3

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

## PERFORMANCE

### Refrigeration Capacity

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

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

### Heating Capacity

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

### Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m <sup>3</sup> /hr	4 450
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## TECHNICAL DATA

### Features

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

General		TSR-3
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### Compressor

Model		X430 C5
Displacement	cm <sup>3</sup>	489
Number of cylinders		4

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

Refrigerant		R-452A
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### Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	104

### Defrost

Defrost		Automatic hot gas defrost
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### Unit Dimensions

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

### Engine

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

### Electrical Stand by Motor

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

### Noise

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

### Refrigerant

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

# UT-1400R E-Evap

## Takes undermount refrigeration to a new level

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

### PERFORMANCE

#### Refrigeration Capacity

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

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

#### Heating Capacity

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

#### Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m <sup>3</sup> /hr	3 350
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### TECHNICAL DATA

#### Features

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

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

Refrigerant		R-452A
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#### Defrost

Defrost		Automatic hot gas defrost
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#### Engine

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

#### Controller

General		TSR-3
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#### Compressor

Model		X430 C5
Displacement	cm <sup>3</sup>	489
Number of cylinders		4

#### Weight

Condenser	kg	479
Installation kit	kg	10.8
Evaporator	kg	63.5

#### Unit Dimensions

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

#### Electrical Stand by Motor

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

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

Refrigerant		
Charge	kg	4.6

AVAILABLE EVAP CONFIGURATIONS

E-3		E-3 + E-3	
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## UT-R Extreme

### For truck and highloader undermount applications at extreme ambients

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

#### PERFORMANCE

##### Airflow

Independent from unit engine speed

Volume @ 0 Pa static pressure	m <sup>3</sup> /hr	3 350
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#### TECHNICAL DATA

##### Refrigeration Capacity High Ambient Temperature (55°C)

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

##### Features

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

General		TSR-3
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##### Compressor

Model		X430 C5
Displacement	cm <sup>3</sup>	489
Number of cylinders		4

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

Refrigerant		R-452A
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##### Weight

Condenser	kg	479
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##### Defrost

Defrost		Automatic hot gas defrost
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Model		TK 376
Rating	kW	14.6
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Rating	kW	7.5

##### Noise

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

##### Refrigerant

Charge	kg	4.6
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