

TX-SERIES

Delivering what matters.

SINGLE- AND MULTI-TEMPERATURE
SELF-POWERED REFRIGERATION SOLUTIONS FOR TRUCKS



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Delivering what matters.

Introducing the TX-Series: Thermo King’s next generation TX-Series. Designed for small and large trucks, the upgraded series strikes the right balance between system efficiency, fuel consumption, and performance in all ambient temperatures for both fresh and frozen products.

When Thermo King established performance criteria for the TX-Series, high ambient capability was a "must have". Extensive field trials and thousands of running hours have proven the design able to perform in even the harshest of conditions, right up to 55°C. Heating and low ambient options have been especially developed to ensure top performance at low ambients too.

Operation is easy and hassle-free, thanks to the intuitive in-cab controllers. And the connectivity and monitoring tools means the units will deliver optimum performance with maximum efficiency.

For quiet operation in sensitive residential delivery areas, the Whisper option is the ideal solution.

And for even stricter noise requirements, the Whisper™ Pro™ models are PIEK certified under the most stringent noise testing conditions.

The expanded TX-Series offers a model to suit all trucks from the smallest to the largest, running one, two, or three temperature zones.



Introducing the TX-Series.

IMPROVED PERFORMANCE

The TX-Series delivers a significant increase in cooling capacity, up to 17% higher than previous T-Series models. The re-engineered components have improved airflow for even better temperature control.

REDUCED ENVIRONMENTAL IMPACT

The TX-Series is up to 40 kg lighter than its predecessor, to reduce the truck overall transport costs and emissions. GreenTech™ engines exceed all current EU requirements for emissions control. New refrigerant coils and piping design allow to reduce the refrigerant charge and therefore GWP by up to 21%.

REDUCED FUEL CONSUMPTION

The optimized system has improved fuel efficiency by up to 7% compared to T-Series, without compromising the cooling performance. On the T-1300X and T-1300X Spectrum, an Electronic Throttling Valve (ETV) further increases fuel economy and temperature control. Faster pull-down and recovery time between door openings means less overall running time and fuel consumption.

LOWER LIFE CYCLE COSTS

2000h Extended Maintenance Interval (EMI) reduces maintenance costs, while high-quality serviceable components extend unit life. All TX-Series units come with a full-coverage two year warranty.

EASY TO USE, EASY TO SERVICE

The intuitive controller shows critical information and optimizes system management for maximum protection for every type of cargo. Scheduled maintenance reminders can be pre-programmed. ServiceWatch™ records system operation reduces diagnostic time. BlueBox telematics allows to have full visibility over the unit operation and to get direct notifications via apps and email.

UP TO 60% QUIETER OPERATION

TX-Series Whisper™ technology dramatically reduces operating noise to allow access to noise sensitive areas. Whisper™ Pro™ models certified PIEK under the most stringent noise testing regulations in the market.

TOUGH IN EXTREME ENVIRONMENTS

A wide range of single- and multi-temperature units means there is a model to suit all trucks, from the smallest to the largest.

All models have been proven to perform right up to 55°C and in extreme low ambients, the highest benchmark in the industry.



Reliable

With TX-Series, peace of mind is guaranteed.

Sustainable

Powerful and efficient to reduce fuel consumption and emissions.

Quiet

Whisper™ and Whisper™ Pro technology to reduce noise impact on drivers and communities.

Quality you can rely on.

Thermo King's TX-Series has undergone years of extensive researching and testing, ensuring that every unit can provide unmatched reliability, operating economy, and performance, even in the harshest conditions.

POWERTRAY

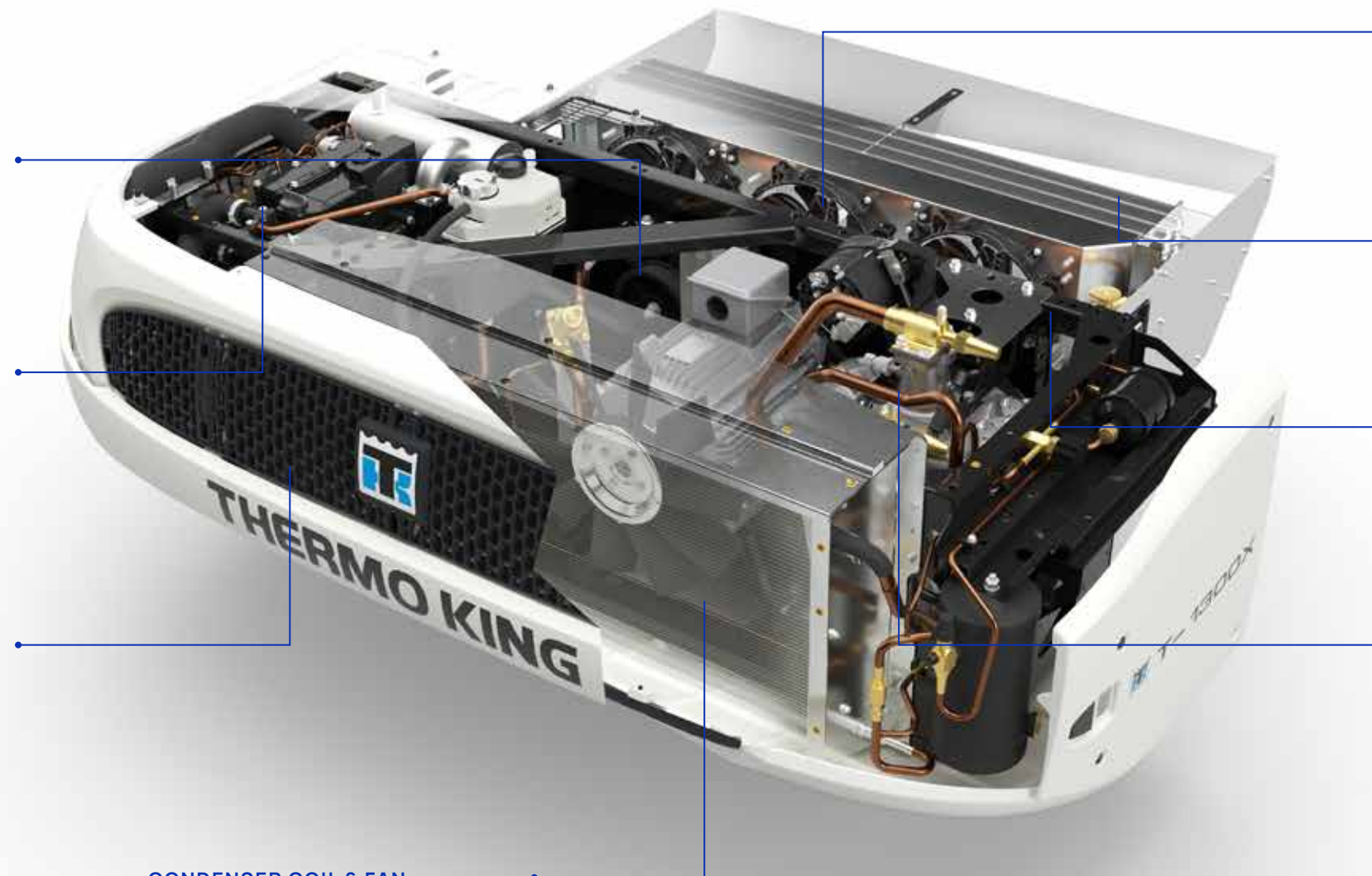
- Poly-V stretch belt system delivers exceptional belt life.
- High quality materials.

GREENTECH ENGINE

- Low emissions and high performance.
- Increased lifespan and reduced maintenance.
- NRMM Stage V compliant.
- HVO/XTL and B100 biofuel compatible.

UNIT GRILLE AND PANELS

- Aerodynamic exterior panels help reduce vehicle fuel consumption.
- Recyclable engineered plastic is impact-resistant.



CONDENSER COIL & FAN

- Micro-channel coil for lower weight and better fuel efficiency.
- Low-noise condenser fan for Whisper quiet operation.

EXTENDED MAINTENANCE INTERVAL

- Up to 2000 hour / 24 month oil change intervals (whichever comes sooner) for reduced maintenance costs.
- Extended engine life with improved, highly efficient oil filtration.

ELECTRONIC THROTTLING VALVE

Installed as standard on the T-1300X (Single Temp, Spectrum and Whisper™ Pro models) Spectrum, ETV reduces engine emissions, increases fuel economy, improves temperature management, product shelf life and delivers faster pull-down.

ELECTRIC EVAPORATOR FANS

- Less moving parts for reduced maintenance.
- Airflow independent from engine speed for optimal temperature control.

ALUMINIUM EVAPORATOR COILS

Upgraded technology for improved fuel efficiency and lower weight.

E-COATED FRAME

Automotive grade immersion electro-coating for total corrosion resistance. Enhances unit life and protects resale value.

THERMO KING RECIPROCATING COMPRESSOR

The industry standard for proven reliability, with over millions of field operating hours. Two and four cylinder compressors for high efficiency and extended lifetime with long-life crankshaft bearings.

UP TO
-21% GWP

NEW REFRIGERATION CIRCUIT

Increase efficiency and reduce refrigerant charge: **Up to -21% GWP reduction** compared to T-Series.

THERMO KING GREENTECH™ ENGINE

Lowest emissions, highest performance.

All TX-Series refrigeration units are fitted with Thermo King's advanced GreenTech engines.

GreenTech engines drastically reduce emissions, waste, and noise pollution, exceeding the most stringent EU standard (NRMM: Stage V compliant).



UP TO
-90%

HVO/XTL reduces CO₂ emissions by up to -90%.

ENGINE LIFE

By reducing the temperatures of both the oil and the coolant, component stress is reduced and wear and tear on the engine is lessened, without compromise on engine power.

HVO/XTL

Hydro-treated vegetable oil (HVO/XTL) is a sustainable alternative for powering Thermo King TX-Series refrigeration units – without the need of engine modification. By using HVO/XTL biofuel instead of traditional diesel, your fleet can immediately reduce its greenhouse gas emissions (GHG) by up to 90%.

B100 BIOFUEL

With the B100 biofuel modification option, T-X Series units are also compatible with EN-14214 certified biofuels. This solution reduces carbon emissions by up to 60% and particulate emissions by up to 80%, without compromising the engine's maintenance interval and costs.

THE TRUSTED CONTROLLERS

Advanced control and intuitive to use.

Powerful and simple to use, the trusted controllers make it quick and easy for drivers to precisely set and adjust the temperature in one, two, or three temperature zones.

The result: the quality of precious cargoes is maintained from loading to unloading.



Standard in-cab display



Premium in-cab display

INTUITIVE INTERFACE

The in-cab displays clearly display critical information and give easy access to key functions. For even greater control, the controller can be upgraded to the Premium in-cab display. The Premium in-cab display is standard on all TX-Series Spectrum multi-temperature models. The simple and logical menus, easy-to-read screen, and 21 languages make this the preferred interface for advanced operators.

FUEL SAVINGS

The controllers include advanced features for even greater fuel savings, including Cycle Sentry™ mode, and electronic door switches input.

IMPROVED DIAGNOSTICS

ServiceWatch™ service data logger enables faster and more accurate fault diagnosis to minimize truck downtime and reduce labour costs.

EASY-TO-READ DISPLAY

The LED display is bright and clear, ensuring better visibility in all light conditions and at all ambient temperatures.

ENHANCED SAFETY AND SECURITY

Designed to protect cargo load: shore power phase correction to safeguard electric components, automatic switch to diesel operation in case of power outage, oil & coolant level alerts for engine protection, set point deviation warnings, protected access levels to avoid operator errors.

SMART SERVICES

EN-12830 CERTIFIED DATA LOGGER

TouchLog datalogger device to provide physical and digital proof to the end customer of the quality of the cold chain.

TELEMATICS TO STAY IN THE KNOW

Bluebox telematics device offered as an option on all models, and standard on Whisper™ Pro models. Tracking online platform allows full visibility on real-time temperature, location and alarms information on the refrigerated fleet. Tracking also offers direct access to TouchLog datalogger data.



TX-SERIES MULTI-TEMPERATURE

Solutions for multi-temperature distribution .

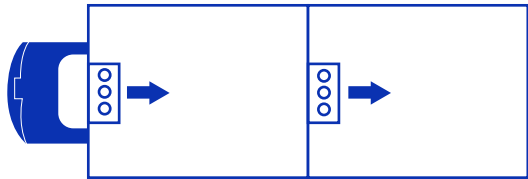
TX-Series Spectrum meets the extreme demands of any multi-temperature distribution operation, thanks to the tireless focus on maximizing performance and improving temperature control.

MAXIMUM PERFORMANCE FOR THE MOST DEMANDING OPERATIONS

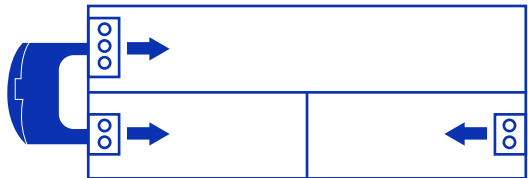
Thanks to its advanced technology TX-Series has a class-leading refrigeration capacity. This ensures that product temperature is always maintained, even in the most severe ambient temperatures and with frequent door opening.

The trusted TSR-3 controller and control software enable the TX-Series Spectrum operator to select from a range of programmable settings to precisely tailor unit performance to the needs of the cargo, balancing temperature management and fuel economy.

Optional door switches minimize temperature fluctuations during multiple delivery drops by automatically switching off the unit each time the doors are opened.



Two zones



Three zones

TX-SERIES WHISPER™ PRO AND WHISPER™

Quieter operation, no compromises.

Noise is a critical consideration for urban distribution. Exhaustive sound analysis at Thermo King's acoustic laboratories have resulted in the redesign of many components to ensure optimum performance while minimizing noise generation.

The TX-Series Whisper™ delivers quieter operation without compromising refrigeration capacity. This is achieved thanks to its larger condensers with micro-channel technology, low noise electric fans, lower operating speeds, and noise absorbing materials.

CLASS-LEADING LOW-NOISE PERFORMANCE

The ultra-quiet T-1300X Whisper™ Pro refrigeration unit for trucks with boxes up to 10 m in length lets you make deliveries to your inner-city customers anytime, whilst keeping your cargo at exactly the right temperature.

Powerful and efficient, the unit uses telematics to automatically switch to low-noise mode whenever you enter low emission zones. And it makes the most of high-speed mode too, with high capacity for fast box temperature pulldown to maximize your uptime on the road.



-2dB(A)

TX-Series Whisper™ is up to 2dB(A) quieter than the standard TX-Series.

-4dB(A)

TX-Series Whisper™ Pro is more than 4dB(A) quieter than the standard TX-Series.



Max your cool.

Don't settle for less, **when you can take it to the max**. With a complete range of smart services and digital solutions, Thermo King helps you maximize uptime, sustainability, savings and control all throughout your operations. Keep your unit performance up, and your worries down. All day, every day:

+ MAX YOUR UPTIME

Uptime is a fleet's gold standard. Keeping you out on the road, that's our standard. With increasingly connected systems and maximum dedication from our uptime experts, you're guaranteed the best and fastest support while out on the road. Ready to maximize your uptime? Discover our smart services and digital solutions .

+ MAX YOUR CONTROL

Transporting precious or perishable goods requires constant supervision. We're here to give you the visibility and protection you need.

From industry-leading telematics with real-time insights to digital platforms and specialized service packages. We leave nothing to chance to keep your cargo safe, and your journeys smooth.

+ MAX YOUR SUSTAINABILITY

Customers and regulations demand more conscious and eco-friendly operations, so we'll help you deliver. From handy emission-saving solutions to fleet-wide integrated systems, find everything you need to make smarter, more sustainable solutions – and reach tangible ESG results.

+ MAX YOUR SAVING

Stop wasting, start saving. Explore our smart services and digital solutions that help you optimize profits, improve your bottom line, and increase the residual value of your units.

Also, by increasingly connecting all of our systems and granting you easy digital access, it's never been more efficient to spot, and realize concrete savings.

Upgrades overview.

FEATURES & OPTIONS	SINGLE TEMPERATURE T-600X/T-800X/ T-1100X/T-1300X	MULTI TEMPERATURE T-800X/T-1100X/ T-1300X SPECTRUM
LIFE COST MANAGEMENT		
ThermoKare service contracts	■	■
Two year warranty coverage	●	●
Cycle-Sentry start/stop control system	●	●
ServiceWatch maintenance logger	●	●
EMI (Extended Maintenance Interval) 2000 hour	●	●
TK Battery - EnergyOne Silver (Wet Cells 640 CCA)	●	●
TK Battery - EnergyOne Gold (Wet Cells 760 CCA)	□	□
TK Battery - EnergyOne Platinum (AGM 880 CCA)	□	□
DATA CAPTURE & COMMUNICATIONS		
TouchLog data logger	■	■
TouchPrint printer	■	■
TracKing (tracking and load monitoring)	■	■
Wintrac (data analysis software)	■	■
LOAD PROTECTION		
Auto phase correction	●	●
Diesel/electric auto-switching	●	●
Door switches	□■	□■
Standard in-cab display	●	○
Premium in-cab display	□	●
Water heater & heater bars kit (T-600X/T-800X only)	□	○
Low ambient option	□	□
Engine block heater (T-1100X/T-1300X ST & MT only)	□	□
CUSTOMIZATION		
Whisper™ noise attenuating kit	□	□
Evaporator guard	○	■
Rear remote control	□	□
Triple combo display	■	■
Remote status light and combination display	■	■
Body mount enclosure	■	■
Fuel tank plastic 90L	□■	□■
Fuel level sensor	□■	□■
Electronic fuel capture	■	■
Drain kit	○	■
Hose management kit	□	□
ThermoLite™ solar panel	■	■
Service support handle	□■	□■

○ NOT AVAILABLE ● STANDARD FEATURE □ OPTION: FACTORY SUPPLIED ■ OPTION: DEALER SUPPLIED

WARRANTY CONDITIONS

Thermo King warrants the new product delivered will be free of defects in material and workmanship for the period of time specified in the applicable warranties. Specific terms of the Thermo King warranty are available on request.

Upgrades.

THERMOKARE™ SERVICE CONTRACTS

- ThermoKare offers a complete selection of service contract solutions to manage maintenance costs and hence total life cost of a unit.

CYCLE-SENTRY

- This stops the engine when refrigeration is not needed and restarts it when refrigeration or battery charge is needed.
- Fuel & CO₂ savings of up to 80% & reduced maintenance costs

THERMO KING ENERGYONE BATTERY

- **SILVER:** silver-calcium technology for 20% longer service life compared to conventional batteries
- **GOLD:** 760 CCA wet cell battery for grater power in colder climate conditions
- **PLATINUM:** 880 CCA Absorbed Glass Mat (AGM) battery for extreme cold ambient conditions and service life up to 8 years

ENGINE BLOCK HEATER

- Pre-heats the engine for easier start-up in colder climates, increasing battery life and fuel efficiency

LOW AMBIENT KIT

- Upgraded engine oil and coolant from factory to improve engine operation at very low ambient temperature.

TOUCHLOG DATA LOGGER

- EN-12830 certified, 1 year data memory
- Temperature & Set-point logging
- USB soft copy export & integrated printer for physical printouts

TRACKING

- Complete load and fleet monitoring via the web to reduce operating costs and improve the safety of the cargo
- Collects data from TouchLog datalogger & TSR-3 controller

DOOR SWITCHES

- Reduce load temperature rise and save fuel when doors are opened by switching off the unit.

B100 BIOFUEL OPTION

- Preparation to upgrade units for use with EN-14214 B100 biofuel, for up to 60% reduced carbon emissions and up to 80% reduced particulate emissions.

SERVICE SUPPORT HANDLE

- Handle installed on the TX-Series side door to facilitate technician access to the top of the truck cabin.

WHISPER™ NOISE ATTENUATING KIT

- The Whisper™ low noise kit reduces noise levels of the applied unit significantly over standard TX-Series units.

REAR REMOTE CONTROL

- Allows control of the refrigeration unit from inside the rear of the truck.

BODY MOUNT ENCLOSURE

- Allows external mounting of in-cab displays on truck body (for swap body and draw-bar trailer applications).

THERMOLITE™ SOLAR PANEL (40W OR 110W)

- Reduces fuel consumption and emissions by charging the unit's battery through harnessing solar energy at high efficiency instead of using diesel engine power.
- Slim profile, easy installation and extreme weather resistance.

WATER HEATER & HEATER BARS KIT

- T-600X and T-800X heating capacity on engine power is more than doubled using water heat kit. Incremental heating through heater bars is also provided on electric standby mode.



Technical specifications.

MODEL			T-600X	T-800X	T-1100X	T-1300X	T-1300X WHISPER™ PRO	T-800X SPECTRUM	T-1100X SPECTRUM	T-1300X SPECTRUM	T-1300X SPECTRUM WHISPER™ PRO
PERFORMANCE											
Refrigeration Capacity: System net cooling capacity at 30 °C ambient temperature							Nominal S-6	Nominal S-3 + S-2	Nominal S4+S3+S2	Nominal S-4 + S-3 + S-2	Nominal S-4 + S-3 + S-2
High Speed Diesel - Fresh	+0°C	W	7 610	8 610	11 090	12 600	11 780	7 840	12 310	12 470	11 480
High Speed Diesel - Frozen	-20°C	W	3 960	4 080	5 990	7 300	6 570	3 620	6 790	8 570	6 920
Electric Standby - Fresh	+0°C	W	5 700	6 248	8 220	10 080	8 120	6 280	7 970	10 770	7 390
Electric Standby - Frozen	-20°C	W	3 140	3 150	4 430	5 390	5 200	2 740	4 720	5 030	4 760
Heating Capacity at -18 °C ambient temperature											
Standard Heating Capacity	+18°C	W	3 075	3 075	6 000	7 800	8 950	See Remote evaporators table			
With Water Heater kit	+18°C	W	6 220	6 220							
Airflow											
Airflow		m³/h	3 230	3 040	3 720	3 430	3 580	See Remote evaporators table			
TECHNICAL DATA											
Weight											
Full Unit (Single Temp) & Host Only (Spectrum)		kg	436	440	473	476	552	389	430	436	450
Dimensions - host											
Width x Depth x Height		mm	1 888 x 919 x 632		1 888 x 919 x 692/704 *		1 888 x 919 x 704	1 888 x 919 x 632	1 888 x 919 x 692/704*		1 888 x 919 x 704
Sound power level (2 000-14 EC)											
Standard		dB(A)	94.5	94.5	97	97	92.6	94.5	97	97	92.6
Whisper		dB(A)	93	93	95	95		93	95	95	
Refrigerant											
Type - GWP (AR4: 2140)			R-452A	R-452A	R-452A	R-452A	R-452A	R-452A	R-452A	R-452A	R-452A
Charge		kg	2.9	3	2.9	3.2	4.7	6.25	6.25	6.25	6.25
GWP		Ton CO ₂ -eq	6.2	6.4	6.2	6.8	10.1	13.4	13.4	13.4	13.4

* Increased height for Whisper model

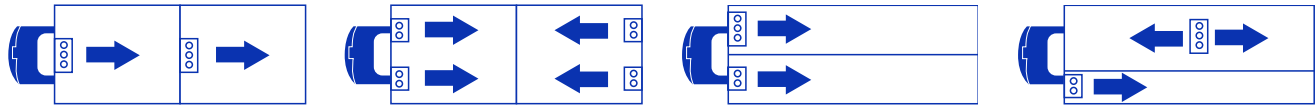
Technical specifications.

REMOTE EVAPORATORS		S-2	S-3	S-4.2	S-4
Heating capacity (individual)	W	4 800	8 050	8 750	8 950
Airflow					
Airflow volume @ 0 Pa static pressure	m³/h	1 230	1 785	2 266	2 334
Weight					
Evaporator	kg	36	51	54	72
Dimensions					
Width x Depth x Height	mm	760 x 1 000 x 200	1 100 x 1 000 x 200	1 250 x 988 x 152	2 x 760 x 1 000 x 200

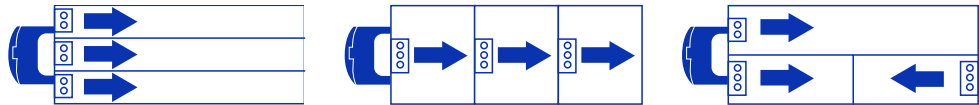
*S-4.2 is Dual discharge airflow
Airflow volume and weight will be cumulative. Capacity will depend on unit model and configuration
S-4 configuration = S-2 + S-2

ZONE PLANS

2 zones



3 zones



Dimensions.



T-600X/T-800X/T-800X SPECTRUM/
T-WHISPER



T-1100X/T-1300X/T-1100X SPECTRUM/
T-1300X SPECTRUM/(T-WHISPER)

Dimensions in mm

Product segmentation.

SINGLE TEMPERATURE				
Box length in meters	5.5 - 6.5	6.5 - 8	7.5 - 9	> 8.5
TX-Series				
	T-600X	T-800X	T-1100X	T-1300X

*Depending on specific application

MULTI-TEMPERATURE			
Box length in meters	6.5 - 8	7.5 - 9	> 8.5
TX-Series Spectrum			
	T-800X Spectrum	T-1100X Spectrum	T-1300X Spectrum

*The above recommendations are for average running conditions and will be affected by operational factors such as ambient temperature and door openings.
To ensure the best selection for your application please contact your Thermo King representative.



TX-SERIES

Delivering what matters.

LOW FUEL CONSUMPTION

Great fuel efficiency, reducing costs and emissions.

LOW LIFE CYCLE COST

Maximum protection for low operating costs.

EASY TO USE, EASY TO SERVICE

The intuitive controller shows critical information while the external panel design improves service access to internal components.

REDUCED ENVIRONMENTAL IMPACT

GreenTech engines exceed all existing EU requirements for emission control.

RELIABLE IN EXTREME TEMPERATURES

Proven to work in the highest and lowest ambient temperatures, ranging from -30°C all the way up to 55°C.



Thermo King – by Trane Technologies (NYSE: TT), a global climate innovator – is a worldwide leader in sustainable transport temperature control solutions. Thermo King has been providing transport temperature control solutions for a variety of applications, including trailers, truck bodies, buses, air, shipboard containers and railway cars since 1938.

For further information
europe.thermoking.com

Find your nearest dealer on
dealers.thermoking.com

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TRANE
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