THERMO KING

T-80 Series

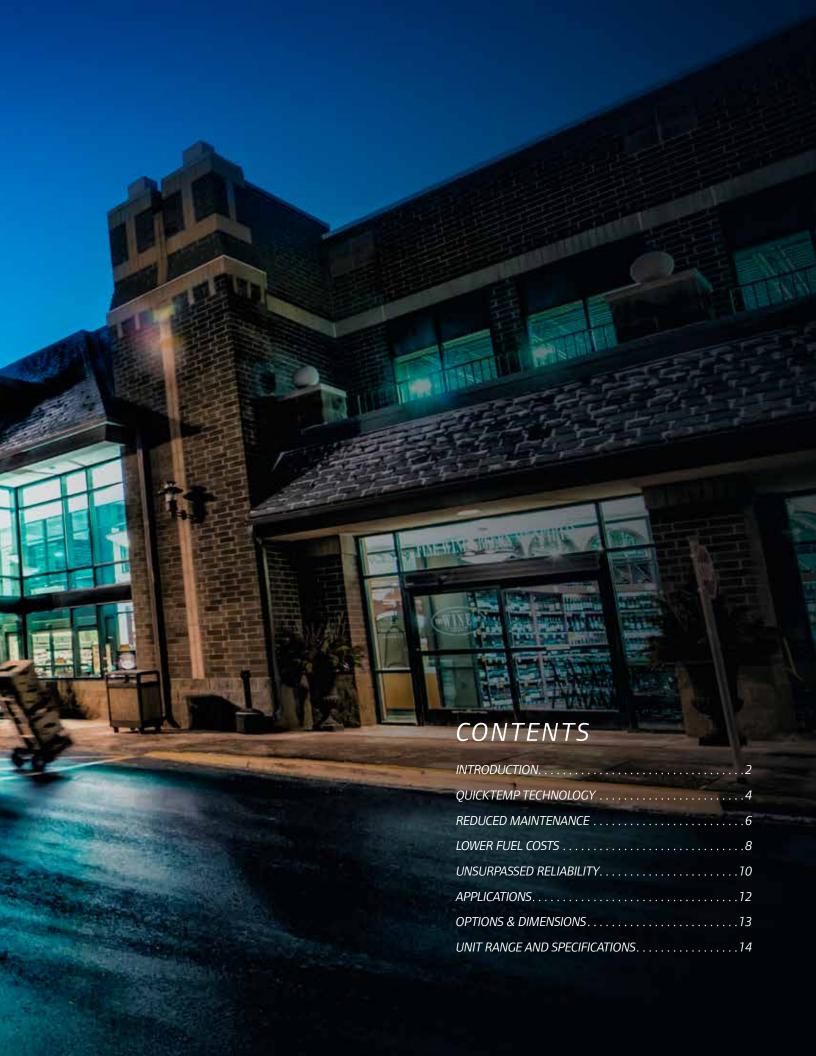
A complete line of self-powered truck units that deliver a lower cost of ownership through lower maintenance costs, improved fuel economy and unmatched reliability.



MEET THE T-80 SERIES

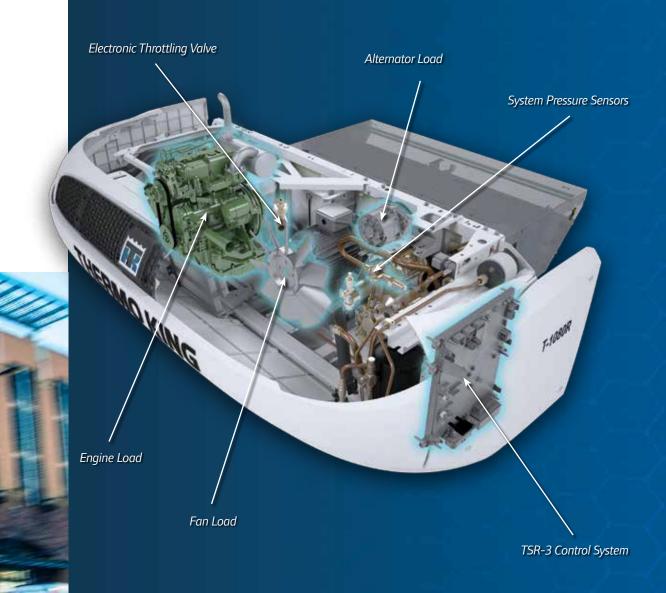
In designing the T-80 Series of transport refrigeration units for straight trucks, compliance with the latest emissions requirements was just the beginning. Building on the industry-leading T-Series, we challenged ourselves to offer lower maintenance costs and better fuel efficiency while continuing to improve on the quality and reliability that has been the foundation of Thermo King for 75 years. See how the T-80 Series can lower your operating costs from day one.





IMPROVED EFFICIENCY ACROSS THE ENTIRE T-80 RANGE OF UNITS





HOW QUICKTEMP WORKS

QuickTemp is a patent-pending refrigeration control system that measures engine loading conditions in real time and adjusts refrigeration output to maximize performance and optimize engine operation. The SR-3 controller monitors engine speed, system pressures and alternator loading to find an optimal electronic throttling valve position for the conditions.

BENEFITS OF QUICKTEMP

BETTER CONTROL

Improves temperature recovery and provides more consistent temperature, keeping the load fresh.

TIME SAVINGS

Pulldown is up to 65% faster, saving operators time on the front end of trips.

LOWER COSTS

Because saving money is crucial, QuickTemp reduces operating costs by reducing fuel consumption and required maintenance.

LONGER LIFE

Because it reduces the high speed run time required, QuickTemp will make your Thermo King unit last longer.

DOUBLE-DIGIT MAINTENANCE SAVINGS



Maintenance means a couple of negative things for your business – units that are out of service and the costs associated with maintenance and repair. Because the T-80 Series has been designed and refined with these things in mind, you'll see a couple of results you'll like a lot more – less maintenance downtime and lower maintenance costs.

- Double-digit maintenance savings for a real impact on your bottom line
- EMI (extended maintenance interval) of 2000 hours is the longest in the industry, lowering downtime and maintenance costs
- Scroll compressor requires less maintenance with 87% fewer moving parts than traditional compressors





REDUCE MAINTENANCE COSTS AND WASTE WITH EMI-2000 EXTENDED MAINTENANCE INTERVAL

- Reduces clean up and disposal costs
- Reduces environmental impact with less spillage and less waste
- · Extends engine life

- Lower maintenance costs than competitive models
- More uptime with less time in the shop

QUICKTEMP BRINGS YOUR LOAD TO SETPOINT FASTER, WHICH MEANS LESS RUNTIME ON YOUR UNIT AND LESS MAINTENANCE

- · Faster pull down at start up, faster recovery after door openings
- Reduces run time by up to 20% over current model
- Extends calendar time between routine maintenance
- · Extends the life of critical components

UP TO 20% LOWER FUEL COSTS

Because fuel expenses make up a large part of your budget, the T-80 Series was developed to take advantage of the latest fuel-saving technologies to deliver better fuel economy than ever before.



SmartPower ELECTRIC STANDBY

The SmartPower electric standby option allows the units to operate on electric power in addition to being powered by the standard diesel engine, which saves fuel, reduces engine wear and cuts emissions.

- Reduced operating costs of up to 75%
- · Reduced diesel emissions
- · Reduced noise
- · Lower maintenance costs
- · Less waste generated
- · Reduced life cycle cost
- · Extended reefer lifespan
- A technology refined for over 50 years by Thermo King





THE TSR-3 CONTROL SYSTEM EASY TO USE. HARD TO BEAT.

Powerful and simple to use, the TSR-3 Control System makes it easy for your drivers to accurately manage the temperature in the truck, no matter what you're hauling. Step-by-step instructions, depicted in symbolic form, make precisely setting and adjusting the reefer quick and easy, helping your drivers, your customers and, ultimately, your bottom line.

SYMBOLIC INTERFACE

No language required, so it's easy-to-understand and use, no matter what language the driver speaks. Designed to greatly reduce operator errors.

FUEL SAVINGS

The TSR-3 features several improved fuel-saving features, including CYCLE-SENTRY mode, Fuel Saver II technology and electronic door switch input.

ENHANCED LOAD MANAGEMENT

QuickTemp provides optimum unit capacity over the full range of ambient and cargo temperatures, effectively managing the load on the engine.

IMPROVED DIAGNOSING WITH ServiceWatch™

Better diagnostics make it easier for drivers to understand and respond to potential problems, the first line of defense in transport refrigeration.

EASY-TO-READ LED DISPLAY

LED (Light Emitting Diode) display is bright and clear for better visibility in all light conditions and functions perfectly in all temperature conditions.

ENHANCED SAFETY AND SECURITY

At the end of the day, protecting your load is what it's all about. The TSR-3 was designed to make that job easier and even more effective with a range of security and safety features and warning systems.

(Note: T-580R comes with TSR control system)





PROVEN ENGINE TECHNOLOGY

All T-80 Series engines meet California Air Resources Board (CARB) and EPA Tier 4 Final Compliance with Not To Exceed (NTE) and Altitude emissions requirements. Built on a proven, indirect injection design, the T-80 Series engine is designed for long life and cleaner operation.

Since its introduction, T-Series units have proven themselves to be the most reliable in the industry. And with the introduction of the T-80 Series, we've set the bar for quality and reliability even higher to deliver you the most reliable, most effective solution possible for your business. And in addition to engineering and building the finest temperature control systems in the world, Thermo King offers you peace-of-mind through unmatched service and support.

- Extensive product qualification, including thousands of hours of lab and field testing, for enhanced quality, reliability and performance
- Built on the proven, industry-benchmark T-Series, with over 20,000 units in service
- Better components and smarter design for an unequaled 2000-hour maintenance interval
- The largest dealer service network, with over 200 locations across North America
- · Factory-trained technicians at every location deliver expert service when and where you need it
- Thermo Gard™ guaranteed maintenance plans reduce costs and and optimize the efficiency of your fleet
- Access to the complete line of Genuine Thermo King parts for maximum uptime
- 24/7 mobile service available at many dealer loacations

AND SUPPORT





EXPERT SERVICE AND SUPPORT ARE AS CLOSE AS THIS SIGN.

Enjoy the support of the Thermo King Dealer Network. Over 200 factory-authorized service centers nationwide-find one nearby at www.thermoking.

THERMO GARD™ ASSURANCE

Guaranteed maintenance program includes set programs and a wide variety of coverage options to fit the needs of your business.



APPLICATIONS CHART



Box Size 14'

35°F	T-580R T-680R
0°F	T-680R T-680S
-20°F	T-1080F T-880S



Box Size 16'

35°F	T-580R T-680R
0°F	T-680R T-680S
-20°F	T-1080R T-1080S



Box Size 18'

35°F	T-580R T-680R
0°F	T-680R T-680S
-20°F	T-1080



Box Size 20'

35°F	T-680R T-680S		
0°F	T-680R T-680S		
-20°F	T-1080I		



Box Size 22'

35°F	T-680R T-680S
0°F	T-880R T-880S
-20°F	T-1080R T-1080S



Box Size 24'

35°F	T-680R T-680S
0°F	T-1080R T-1080S
-20°F	T-1080S



Box Size 26'

35°F	T-680R T-680S
0°F	T-1080R T-1080S
-20°F	Contact Your Local Thermo King Dealer



Box Size 28'

35°F	T-880R T-880S
0°F	T-1080R T-1080S
-20°F	Contact Your Local Thermo King Deale

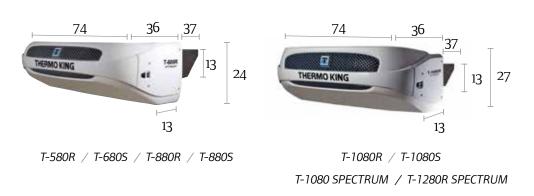
Assuming 3" of insulation for 35°F, 0°F and 4" for -20°F; ten door openings per day; box dimensions of 96"W and 96"H on trucks 10' and over in length. Unit selection may vary. Consult your Thermo King dealer for a detailed analysis of your requirements.

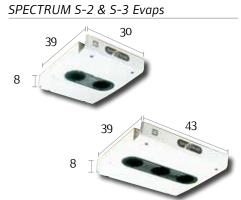
T-80 SERIES OPTIONS

	T-580R	T-680R	T-880R	T-1080R	T-680S	T-880S	T-1080S	T-1080 SPECTRUM	T-1280R SPECTRUM
Controls and Information	_		_						
Premium Display	-								
Body Mount Enclosure for HMI									
Rear Remote Control (flushmount)	-								
Remote Status Indicator Lights									
Engine, Fuel & Refrigeration									
SmartPower (230v/3 phase/60Hz)									
SmartPower 460/3/60 (400/3/50)									
Battery Box									
Heat (electric - SmartPower units only)									
Engine Block Heater									
Fuel Tank (30 gallon aluminum side fill)									
Quick Oil Drain Kit (ext. Mount, quick connect)									
Telematics & Sensors	•	•	•	•		•			1
DAS (Data Acquisition System)									
Door Switch									
Remote Download Port									
TracKing									
Appearance, Noise & Protection									
Whisper™ Plus Sound Kit									
Top Cover and Screen									
Evap Side Screens									
Snow Cover									
Chrome Grills									
Hose Management Channel									

■ Available option ■ Not available

DIMENSIONS (INCHES)





A COMPLETE RANGE WITH

RELIABLE RECIPROCATING COMPRESSORS

The industry standard for proven reliability and easy service.

- High volumetric efficiency vs. other reciprocating compressors due to more pumping capacity per cubic inch
- · Reliable, time-tested design
- · Field-repairable for easy service
 - No special tools or facilities required
 - Removable and replaceable cast iron cylinder sleeve design



T-580R

ENGINE		ELECTRIC	
Capacity* (BTU/	hr)	Capacity* (BTU	/hr)
35°F	14,500	35°F	13,000
0°F	8,500	0°F	7,100
-20°F	5,000	-20°F	4,800
Heating Capacity	/	Heating Capacit	ty
35°F	10,500	35°F	5,800

Weight** 957 / 1012 lbs.

T-680R

ENGINE		ELECTRIC	
Capacity* (BTU/h	ır)	Capacity* (BTU/	hr)
35°F	18,000	35°F	15,500
0°F	11,000	0°F	10,000
-20°F	7,000	-20°F	6,000
Heating Capacity		Heating Capacity	/
35°F	10,500	35°F	5,800

Weight** 963 / 1018 lbs.

T-880R

ENGINE	ELECTRIC
Capacity* (BTU/hr)	Capacity* (BTU/hr)
35°F22,000	35°F20,000
0°F13,000	0°F11,500
-20°F7,800	-20°F7,000
Heating Capacity	Heating Capacity
35°F10,500	35°F5,800

Weight** 963 / 1018 lbs.

T-1080R

ENGINE		ELECTRIC	
Capacity* (BTU/hr)		Capacity* (BTU/hr)	
35°F	30,500	35°F	26,500
0°F	18,000	0°F	14,500
-20°F	10,500	-20°F	10,000
Heating Capacity		Heating Capacity	
35°F	14,000	35°F	7,700

Weight** 999 / 1108 lbs.

T-1280R SPECTRUM™

ENGINE		ELECTRIC	
Capacity* (BTU/hr)		Capacity* (BTU/hr)	
35°F	34,000	35°F	34,000
0°F	22,000	0°F	17,500
-20°F	13,000	-20°F	10,000
Heating Capacity		Heating Capacity	
35°F	19,000	35°F	13,500

Weight** 790 / 945 lbs.

TWO COMPRESSOR CHOICES:

THE MOST ADVANCED SCROLL COMPRESSORS EVER

The clear choice for peak efficiency and maximum cooling capacity.

- Up to 10% more fuel efficient
- High efficiency and greater capacity
- · Less noise and vibration
- Less maintenance (87% fewer moving parts)
- E nickel-plated Oldham coupling for greater reliability



T-680S

ENGINE		ELECTRIC	
Capacity* (BTU/h	ır)	Capacity* (BTU/hr)	
35°F	20,000	35°F	17,000
0°F	13,000	0°F	12,000
-20°F	7,500	-20°F	6,500
Heating Capacity		Heating Capacity	
35°F	14,000	35°F	8,800

Weight** 985 / 1040 lbs.

T-880S

Capacity* (BTU/hr) Capacity* (BTU/hr) 35°F	ENGINE		ELECTRIC	
0°F 15,000 0°F 12,5 -20°F 9,200 -20°F 7,7 Heating Capacity Heating Capacity	Capacity* (BTU/hr)		Capacity* (BTU/hr)	
-20°F	35°F	24,500	35°F	21,500
Heating Capacity Heating Capacity	0°F	15,000	0°F	12,500
	-20°F	9,200	-20°F	7,700
35°F8,1	Heating Capacity		Heating Capacity	
	35°F	14,000	35°F	8,100

Weight** 985 / 1040 lbs.

T-1080S

Weight** 1012 / 1121 lbs.

ENGINE		ELECTRIC	ELECTRIC	
Capacity* (BTU/hr)		Capacity* (BTU/hr)		
35°F	34,000	35°F	29,000	
0°F	21,000	0°F	18,000	
-20°F	13,000	-20°F	12,000	
Heating Capacity		Heating Capacity		
35°F	20,000	35°F	11,400	

T-1080 SPECTRUM™

ENGINE	ELECTRIC	
Capacity* (BTU/hr)	Capacity* (BTU/hr)	
35°F34,000	35°F29,000	
0°F21,000	0°F18,000	
-20°F13,000	-20°F12,000	
Heating Capacity	Heating Capacity	
35°F16,000	35°F11,000	
Weight** 803 / 958 lbs.		

^{*}Cooling capacities rated at 100°F ambient, heating at 0°F ambient.

^{**} Weights are listed for standard unit/units with SmartPower option



Ingersoll Rand's Climate Solutions sector delivers energy-efficient HVACR solutions for customers globally. Its world class brands include Thermo King, the leader in transport temperature control and Trane, a provider of energy efficient heating, ventilating and air conditioning systems, building and contracting services, parts support and advanced controls for commercial buildings and homes.

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