



Vehicle-Powered Unit TZ-Series

High Efficiency and Reliability



- 0 cube with **100%** box utilization
- High cooling capacity
- High reliability with brushless motor and other sophisticated components
- High efficiency swash plate compressor
- Light weight



TZ-Series

Thermo King's TZ-series is a unique one-piece condenser & evaporator design which delivers the triple benefits of zero intrusion into the load space to allow highly efficient cargo loading, whilst simplifying installation to the vehicle, and reducing the risk of refrigerant connection leaks compared to the separated major components of traditional systems.

The TZ-Series range of models is configured to provide superior cooling performance from lightest in class designs, in a wide variety of small, medium and large refrigerated trucks.

Highest quality components are selected throughout, including centrifugal brushless blowers which provide highly efficient circulation of large air volumes with minimal noise, whilst delivering exceptionally long life up to 25,000 hours.

Thermo King newly launched "TZ Fresh" Series with R-134a system. TZ Fresh provides superior pull down performance, higher reliability, longer life cycle and lower maintenance cost. It is special for fresh cargos. Count on Thermo King, we always deliver what you matters!

Product Model

- TZ-400
- TZ-400 Fresh
- TZ-600
- TZ-600 Fresh
- TZ-800
- TZ-800 Fresh
- TZ-1000
- TZ-1200

TZ-Series Key Features

Unitary design of the condenser and evaporator
Easy installation, maintenance and high loading efficiency

Appearance design
Unique aerodynamic shape design

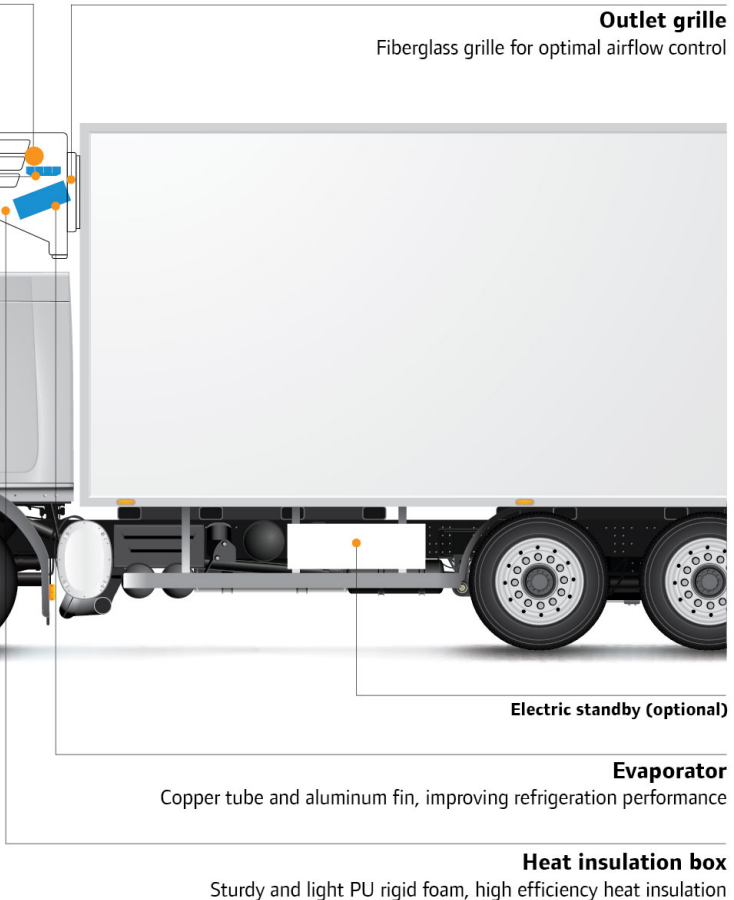
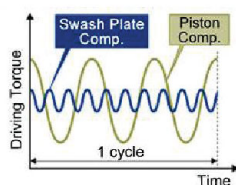
Axial flow fan
High efficiency, low noise, long life, brushless motor

Centrifugal fan
Super mute, long life, brushless motor

PF condenser
Light and high efficiency micro channel aluminum condenser

Control panel
Advanced digital display, simple operation

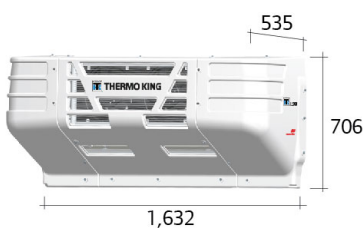
Compressor
Efficient compressor using 10-piston swash plate, reducing engine loading and failure risk on belt, pulley, etc.



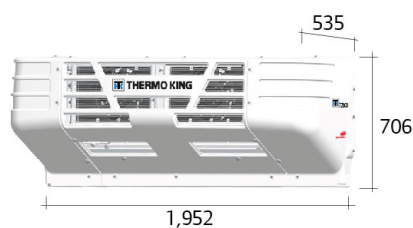
Specifications

		TZ-400	TZ-400 Fresh	TZ-600	TZ-600 Fresh	TZ-800	TZ-800 Fresh	TZ-1000	TZ-1200	
Temp. range		-25°C~30°C		-25°C~30°C		-25°C~30°C		-25°C~30°C	-25°C~30°C	
Refrigerant		R-404A	R-134a	R-404A	R-134a	R-404A	R-134a	R-404A	R-404A	
		1.3kg	1.3kg	1.7kg	1.7kg	1.7kg	1.7kg	Charge:3.5kg	Charge:1.7kg×2	
Cooling capacity (W)		J.I.S. Japan Standard @35°C(Ambient), compressor @ 1,800RPM								
Engine power		10°C	—	3,720	—	5,170	—	5,800	—	—
		0°C	4,190	2,910	5,120	3,900	6,630	4,200	7,560	9,880
		-18°C	2,330	—	2,910	—	3,370	—	4,300	6,160
Electric standby (60Hz)		10°C	—	2,420	—	3,100	—	3,480	—	—
		0°C	2,310	1,890	2,840	2,340	3,670	2,520	4,190	5,470
		-18°C	1,280	—	1,610	—	1,870	—	2,380	3,410
Cooling capacity (W)		A.T.P. ,U.N. Standard @30°C(Ambient), compressor @ 1,800RPM								
Engine power		10°C	—	3,930	—	5,450	—	6,120	—	—
		0°C	4,310	3,070	5,270	4,110	6,820	4,430	7,780	10,170
		-20°C	2,400	—	2,990	—	3,470	—	4,430	6,340
Electric standby (60Hz)		10°C	—	2,550	—	3,270	—	3,670	—	—
		0°C	2,370	2,000	2,920	2,470	3,780	2,660	4,310	5,630
		-20°C	1,320	—	1,660	—	1,920	—	2,450	3,510
Compressor		In both 12V and 24V system								
Model		TK21		TK21		TK21		TK21		TK21*2
Displacement(cm ³)		215		215		215		215		215
Airflow										
Evaporator flow rate(m ³ /h)		1,400		2,000		2,300		3,200		3,200
Blower number		2		3		4		4		4
Condenser flow rate(m ³ /h)		2,600		2,600		2,600		5,200		5,200
Blower number		2		2		2		4		4
Power(W)		In both 12V and 24V system								
Power(W)		471		569		665		953		1,000
Weight (approximate)										
Without electric standby(kg)		95		135		140		220		240
With electric standby(kg)		170		248		253		354		466
Electric standby										
Voltage/Phase/Frequency/Current		200V/3PH/60Hz/8.9A		200V/3PH/60Hz/9.7A		200V/3PH/60Hz/9.7A		200V/3PH/60Hz/9.7A		200V/3PH/60Hz/9.7A
Compressor type		Semi-hermetic SF20A		Semi-hermetic SF20B		Semi-hermetic SF20B		Semi-hermetic SF20B		Semi-hermetic SF20B
Defrost										
Defrost mode		R-404A:Hot-gas defrost; R-134a: off-cycle defrost								
Note: TZ-1200 units are more reliable for two separate refrigeration system integrated in one unit.										

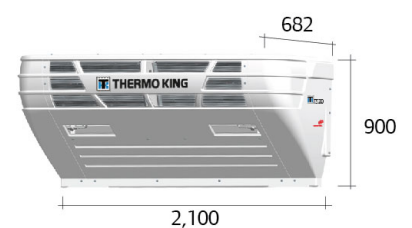
Dimension(mm)



TZ-400/TZ-400 Fresh



TZ-600/TZ-600 Fresh
TZ-800/TZ-800 Fresh



TZ-1000/TZ-1200



Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands — including Club Car®, Ingersoll Rand®, Thermo King® and Trane® — work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a \$12 billion global business committed to a world of sustainable progress and enduring results.



www.ap.thermoking.com

www.ingersollrand.com

Asia Pacific Headquarters & China Office

8-12F, L'Avenue Shanghai,
99Xianxia Road, Shanghai, 200051, P.R.C
Tel: +86 21 2221 5000
Fax: +86 21 2221 5409

Global Headquarter

314 West 90th Street
Minneapolis, Minnesota, 55420, U.S.A.
Tel: +1 952 887 2200
Fax: +1 952 887 2529