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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

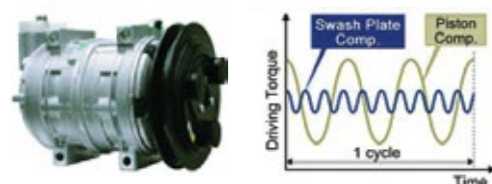
Axial flow fan
High efficiency, low noise, long life, brushless motor

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.



Outlet grille
Fiberglass grille for optimal airflow control



Electric standby (optional)

Evaporator
Copper tube and aluminum fin, improving refrigeration performance

Heat insulation box
Sturdy and light PU rigid foam, high efficiency heat insulation

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 & Charge(kg)	R-404A	R-134a	R-404A	R-134a	R-404A	R-134a	R-404A	R-404A
	1.3	1.3	1.7	1.7	1.7	1.7	3.5	1.7x2
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
	-18°C	2,330	—	2,910	—	3,370	—	4,300
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
	-18°C	1,280	—	1,610	—	1,870	—	2,380
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
	-20°C	2,400	—	2,990	—	3,470	—	4,430
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
	-20°C	1,320	—	1,660	—	1,920	—	2,450
Compressor								
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		120		140		200	220
With electric standby(kg)	170		233		253		334	446
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)

