

 **THERMO KING**

*Direct Drive Unit*  
*KV-500*



 **Ingersoll Rand**  
Climate Control Technologies

# Lower Investment & Operational Cost World Class Service & Support

- Ultra slim evaporator with high airflow for more payload
- Superior airflow volume with high speed face velocity to ensure the goods are protected
- Outstanding pulldown capacity
- Operation in ambient temperature up to 49°C
- Easy access for servicing and maintenance
- In-cab controls with digital LED thermometer
- Automatic hot gas defrost and manual defrost available
- Electric standby capacity more than 92% of On-Road capacity in frozen application

## System components

- Condenser
- Slim Evaporator
- In-Cab Controller
- TM-16 XD Compressor
- Evaporator Drain Heater
- Electric Standby (Optional)

## Evaporator blower performance

- Air flow volume:  
2,500m<sup>3</sup>/hr

## Compressor engine driven

- Number of cylinders: 6
- Displacement: 163 cm<sup>3</sup>
- Maximum recommended speed:  
3,000 rpm

## Dimensions

- Condenser:  
1150mmLx581mmWx430mmH
- Evaporator:  
1331mmLx671mmWx226mmH
- Controller:  
148mmLx87mmWx27mmH
- TM-16 XD Compressor:  
245mmLx135mm (diameter)

## Defrost

- Automatic hot gas defrost/  
manual defrost

## Weights(approximate)

- Condenser(W/O Standby) 58kg
- Condenser(W Standby) 102kg
- Evaporator 37kg
- TM-16 XD Compressor 6.8kg

## Total current consumption on the road

- 12VDC 44A
- 24VDC 23A

## Total standby current consumption

- 380V/3 phase/50Hz 6.5A
- 230V/3 phase/60Hz 11.2A

## Electric motors

- DC voltage option  
12V DC/24V DC
- Electric standby option:  
380V/3 phase/50Hz  
230V/3 phase/60Hz

## Refrigerant

- HFC R-404A  
(2.5kg)



### Digital LED Thermometer;

- provide accurate temperature control



### High Efficient Heat Exchanger:

- Provide high performance under deep frozen condition



### Integrated electric standby/SPR :

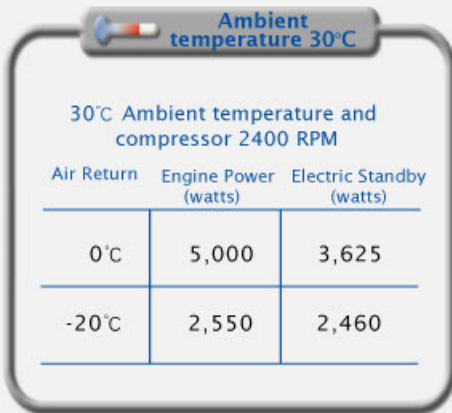
- Save the installation time
- Provide high performance under high ambient temperature



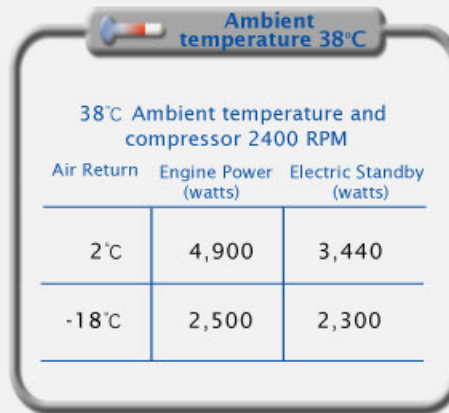
### Condenser PF coil:

- Provide high performance and efficiency

## Refrigeration capacity- European Standard




## Refrigeration capacity- American Standard



## Thermo King is the Green Leader

Thermo King offers industry-leading products and solutions that enable businesses around the world to reduce energy consumption and costs and decrease harmful environmental emissions.

The  symbol indicates a feature that delivers a significant environmental advantage over previous models or the competition.

## 24hour assistance from the best worldwide dealer network



## QUICK SELECTION CHART

Temp.Range(°C / °F)	2°C/35°F	-18°C/0°F
Truck Body size(m)		
4.0		
4.5		
5.0		
5.5		
6.0		
6.5		

- \* Ambient temp 38°C
- \* K Factor=0.5w/(m<sup>2</sup>.°C)
- \* Door Opening 2 times per hour,3minutes per time

## Total Life Cost



## Save energy, save fuel...

You want performance to protect your load and power to accelerate your cycle times. But at what price?

The combination of price together with fuel costs, maintenance costs and resale value defines the equipment's Total Life Cost.

The low fuel consumption, fixed cost maintenance contracts and superior resale value mean you can have the best for less.

- Purchase Price
- Fuel Consumption
- Maintenance cost
- Total Life Cost=Purchase Price+Fuel Consumption+Maintenance cost-Resale Value

## Warranty Summary

Terms of the Thermo King Express Warranty are available on request. The unit and its components are warranted to be free from defects in material and workmanship from date in service according to the terms(in 12 months)as specified in the Thermo King Express Warranty.Manufacturer is not responsible and will not be held liable in contract or tort (including strict liability and negligence) for any special, indirect or consequential damages including but not limited to injury or damage caused to vehicles, contents or persons, by reason of the installation or use of any Thermo King product or its mechanical failure.



Providing equipment and services to manage controlled-temperature environments for food and other perishables, our Climate Control Technologies sector encompasses both transport and stationary refrigeration solutions. Our product brands include Thermo King<sup>®</sup>, a world leader in transport temperature control systems, and Hussmann<sup>®</sup> a manufacturer of refrigeration and food merchandising equipment.

[www.thermoking.com](http://www.thermoking.com)   [www.hussmann.com](http://www.hussmann.com)   [www.ingersollrand.com](http://www.ingersollrand.com)

**Shanghai Headquarter (Asia Pacific)**

9/F, Tower B, City Center of Shanghai,  
#100 Zun Yi Road, Shanghai 200051  
P.R.China  
Tel: +86 021 22081288  
Fax: +86 021 62371991

**Shenzhen Factory**

No.5 District , Chegongmiao  
Industrial Zone  
Shenzhen, Guangdong 518040,  
P.R.China  
Tel: +86 0755 83899801  
Fax: +86 0755 83308216

**Beijing Branch Office**

Tower A-7, Winterless Center,  
No.1 West Dawang Lu,  
Chaoyang District, Beijing 100026,  
P.R.China  
Tel: +86 010 65998888  
Fax: +86 010 65388956

**Hong Kong Office**

Unit A-E, 15/F China Overseas  
Building, 139 Hennessy Road,  
Wanchai, Hong Kong.  
Tel: + 852 2507 9100  
Fax: + 852 2827 5159

**Australia Office**

Unit 1, 171 - 175 Newton Road  
Wetherill Park, NSW 2164, Australia  
Tel: +61 2 96160520  
Fax: +61 2 97253680

**Global Headquarter**

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



**Worldwide Service Organization**

Thermo King backs its equipment and customers with a highly-trained, worldwide service organization. This assures you the support of factory authorized service facilities and a stock of factory parts and factory trained mechanics.

For further information please contact: