



**TRANSPORT  
REFRIGERATION UNIT**

**EKL-360-E48**

**KINGTEC GROUP CO., LTD.**

# EKL360-E48

# Buy No Regret!

## DESCRIPTION

Kingtec EKL360-E48 all-electric refrigeration unit is specifically designed for refrigerated trucks that have a capacity of 15-25 cubic meters, and it is battery-powered which eliminates the need for an engine-driven compressor to operate. This results in fuel and engine maintenance cost savings. It is more energy-efficient, environmentally friendly, and economical, which makes it a global development trend.

The refrigeration unit utilizes a DC48V power supply system with its own battery, enabling independent power supply. This eliminates the need for power supply considerations when installing the unit in a vehicle. The DC48V power supply system uses a custom-designed lithium iron phosphate battery module integrated with an intelligent BMS. This system possesses greater advantages over other power supply systems in terms of safety, cycle life, energy density, temperature range, and environmental protection. Made with a 10-year lifespan in mind, this system ensures stable performance that is safe, reliable, and maintenance-free, with national support.

## SYSTEM COMPONENTS

- Condenser assembly
- Evaporator assembly
- Electric Scroll Compressor
- In cab Control and wiring Harness
- Heating function (options)(hot-gas heating)

## REFRIGERENT (CHLORINE ZERO)

- EKL360-E48(R134a) : 3.9Lbs

## COMPRESSOR

- Electric Scroll Compressor
- PD2-34048AL(34cc)
- Max recommend RPM :5000
- Contain oil-return device

## DEFROST SYSTEM

- Hot gas defrost

## AIRFLOW VOLUME

- EVK350 Evaporator :1600m<sup>3</sup>/h ( 940 cuft / min)

## ELECTRICAL DESCRIPTION

- DC options: DC 48V
- Total consumption current

	DC 48V
EKL360-E48	50 A

- Power consumption pre hour is 2.4 degrees

## WEIGHTS

- Condenser assembly :172 Lbs
- Evaporator assembly :48 Lbs

## WARRANTY SUMMARY

Specific terms of the Kingtec express warranty are available on request. Further, Kingtec excludes liability in contract and tort (including strict liability and negligence) for any special, indirect or consequential damages by reason of the installation or use of any covered product or its mechanical failure.

Refrigeration Capacity  
Conditions at 30°C(86°F) ambient  
ATP Standard



Refrigeration Capacity  
Conditions at 38°C ( 100°F) ambient  
National standard



EKL360-E48 (R134a)			EKL360-E48 (R134a)		
Air return/on the road 0°C (32°F)	Watts	BTU/hr	Air return/on the road 2°C (35°F)	Watts	BTU/hr
	3094	10520		2905	9877
-20°C (-4°F)	1666	5664	-18°C (0°F)	1540	5236
Kilowatt per or an hour			Electric current		
2.4 kw			50 A		

## DIMENSION: mm (Inch)



EKL360-E48 Condenser assembly



EVK350 Evaporator Assembly



All electric 48V compressor



DC48V 400A Battery



AC220V to DC48V 80A charger

## Battery pack

Specification	Lithium iron phosphate battery
Voltage	DC48V
Capacity(Kwh)	19.2
Endurance(hrs)	≥6
Charge module voltage protection	58.0V
Charge temperature protection	< 32°F or > 158°F
Discharge module voltage protection	43.2V
Discharge temperature protection	< -4°F or > 167°F

## Charger

Specification	AC220V-DC48V
Charging current (A)	80-100
Battery pack charging time(20%-100%)	3.5hrs

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**Environmentally Friendly**

Low noise, zero emission, energy-efficient and environmentally friendly.