

FR-500



DESCRIPTION

Kingtec FR-500 series units are designed for fresh and frozen applications on the 6~19m³ small-size refrigerated truck. The road compressor is powered by the vehicle engine, new electrical stand-by system adopts fully enclosed pure electric compressor, is lighter, easier to install and safer to use.

SYSTEM COMPONENTS

- Condenser assembly
- Evaporator assembly
- Road compressor (With magnetic clutch)
- In cab control box and wiring harness
- Electric stand-by assembly (Options)
- Heating function (options)(hot-gas heating or engine hot-water heating)

REFRIGERENT (CHLORINE ZERO)

- FR-500 (R404A): 1.4kg
- FR-500 (R134a): 1.5kg

ROAD COMPRESSOR (ENGINE DRIVEN)

- Swash plate compressor/6 cylinder
- QP16 (162cc)
- Max recommend 3000 RPM
- Contain oil-return device

AIRFLOW VOLUME

- EVK350C Evaporator: 1600m³ /h (940 cu ft/min)

DEFROST SYSTEM

- Hot gas defrost

ELECTRICAL SPECIFICATION OPTIONS

- DC voltage options: DC12V or DC24V
- Total current consumption on the road (Road compressor)

	DC12V	DC24V
FR-500	38A	19A

WEIGHTS

- Condenser assembly : 60kg/132Lbs
- Evaporator assembly : 25kg/55Lbs
- Electrical stand-by assembly : 25kg/55Lbs

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 @ 30°C(86°F) ambient and 2400 compressor rpm atp standard



Conditions @ 100°F(38°C) ambient and 2400 compressor pm US-standard

FR-500 (R404A)			FR-500 (R404A)		
Air return/ on the road	Watts	BTU/hr	Air return/ on the road	Watts	BTU/hr
0°C (32°F)	4420	15000	2°C (35°F)	4150	14100
-20°C (-4°F)	2380	8100	-18°C (0°F)	2200	7500
FR-500 (R134a)			FR-500 (R134a)		
Air return/ on the road	Watts	BTU/hr	Air return/ on the road	Watts	BTU/hr
0°C (32°F)	3810	13000	2°C (35°F)	3700	12600
-20°C (-4°F)	1758	6000	-18°C (0°F)	1680	5700

DIMENSIONS: mm (Inch)



FR-500E



DESCRIPTION

Kingtec FR-500E series units are designed for fresh and frozen applications on the 6~19³ small-size refrigerated truck. The road compressor is powered by the vehicle engine, new electrical stand-by system adopts fully enclosed pure electric compressor, is lighter, easier to install and safer to use.

SYSTEM COMPONENTS

- Condenser assembly
- Evaporator assembly
- Road compressor (With magnetic clutch)
- In cab control box and wiring harness
- Electric stand-by assembly (Options)
- Heating function (options)(hot-gas heating or engine hot-water heating)

REFRIGERENT (CHLORINE ZERO)

- FR500E (R404A): 2kg/4.4Lbs
- FR500E (R134a): 2.1kg/4.6Lbs

ROAD COMPRESSOR (ENGINE DRIVEN)

- Swash plate compressor/6 cylinder
- QP16 (162cc)
- Max recommend 3000 RPM
- Contain oil-return device

AIRFLOW VOLUME

- EVK350C Evaporator: 1600m³ /h (940 cu ft/min)

DEFROST SYSTEM

- Hot gas defrost

ELECTRICAL SPECIFICATION OPTIONS

- DC voltage options: DC12V or DC24V
- Total current consumption on the road (Road compressor)

BRAND NEW STAND-BY SYSTEM

- Light weight: Compared with the traditional stand-by system, the weight is lighter
- Modularization: Installation is more convenient, want to add, want to reduce
- Intelligitize: The control is simpler and the operation is more convenient

	DC12V	DC24V
FR-500	38A	19A

WEIGHTS

- Condenser assembly : 60kg/132Lbs
- Evaporator assembly : 25kg/55Lbs
- Electrical stand-by assembly : 25kg/55Lbs

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 @ 30°C(86°F) ambient
and 2400 compressor rpm
atp standard

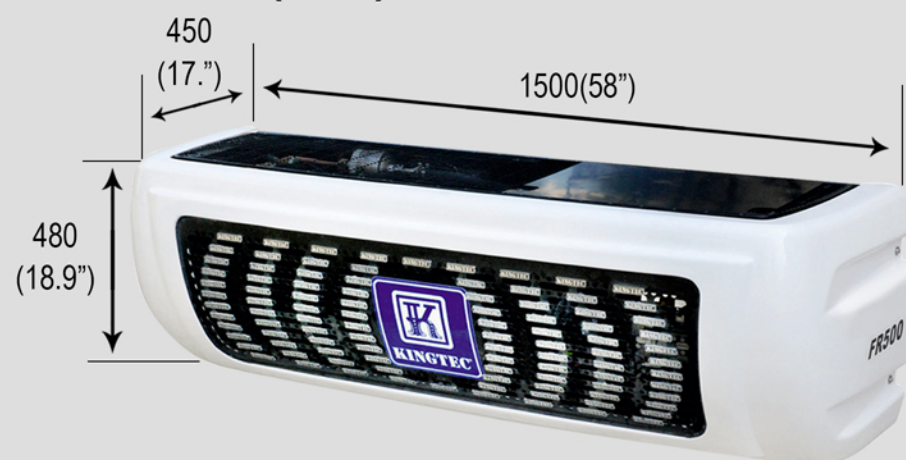


Conditions @ 100°F(38°C) ambient
and 2400 compressor pm
US-standard

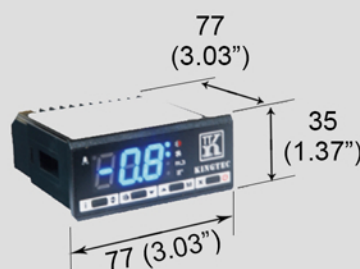


FR-500 (R404A)			FR-500 (R404A)		
Air return/ on the road	Watts	BTU/hr	Air return/ on the road	Watts	BTU/hr
0°C (32°F)	4420	15000	2°C (35°F)	4150	14100
-20°C (-4°F)	2380	8100	-18°C (0°F)	2200	7500
Electric stand-by 50Hz	Watts	BTU/hr	Electric stand-by 60Hz	Watts	BTU/hr
0°C (32°F)	3400	11600	2°C (35°F)	3160	10750
-20°C (-4°F)	1750	6000	-18°C (0°F)	1630	5540

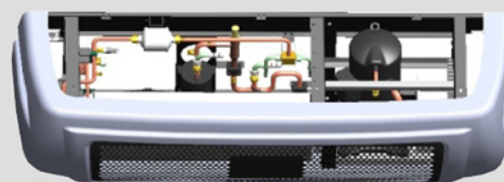
DIMENSIONS: mm (Inch)



EVK350 Evaporator assembly



LAE Control Panel



FR-500 Condenser assembly (with stand-by)



Stand-by compressor