KINGTEC®

# TRANSPORT REFRIGERATION UNIT

## S-293

# S293

## DESCRIPTION

Kingtec S293 series units are designed for fresh and frozen applications on the 6~19m³ mini refrigerator trucks and vans. The road compressor is powered by the vehicles engine.

## SYSTEM COMPONENTS

- Condenser assembly
- Evaporator assembly
- Swash plate road compresso (With magnetic clutch)
- In cab control box and wiring harness

## REFRIGERENT (CHLORINE ZERO)

- S293 (R404A): HFC R404A 1.5kg
- S293 (R134a): HFC R134a 1.65kg

## ROAD COMPRESSOR (ENGINE DRIVEN)

- Max recommended speed : 3000 RPM
- Includes oil return separator

| | S293(R134a) | S293(R404A) |
|---|---|---|
| Number of cylinders | 6 | 6 |
| Displacement (cc) | 162 | 147 |

## AIRFLOW VOLUME

- EVK300C Evaporator: 1380m³ /h (810 cu ft/min)

## DEFROST SYSTEM

- Automatic Hot Gas Defrost

## ELECTRICAL SPECIFICATION OPTIONS

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

| | DC12V | DC24V |
|---|---|---|
| S293 | 28A | 15.5A |

## WEIGHTS

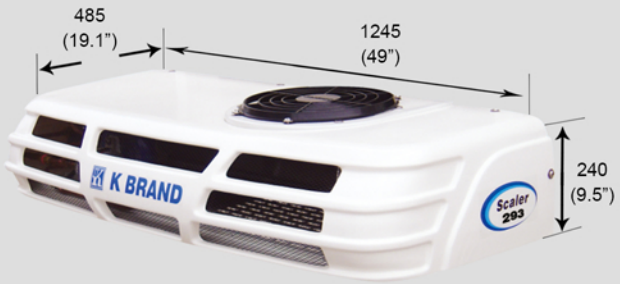
- S293 Condenser Assembly : 25kg
- EVK300C Evaporator Assembly : 22Kg

**Refrigeration capacity conditions @ 30°C(86°F) ambient and 2400 compressor rpm atp standard**

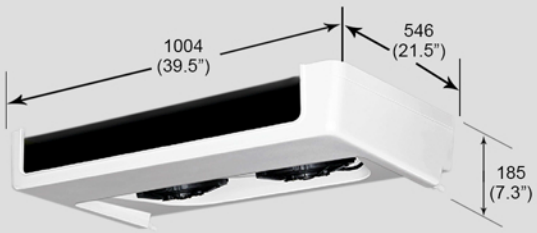
**Conditions @ 100°F(38°C) ambient and 2400 compressor pm US-standard**

| S293 (R404A) | | | S293 (R404A) | | |
|---|---|---|---|---|---|
| Air return/ on the road | Watts | BTU/hr | Air return/ on the road | Watts | BTU/hr |
| 0°C (32°F) | 3320 | 11300 | 2°C (35°F) | 3000 | 10250 |
| -20°C (-4°F) | 1880 | 6420 | -18°C (0°F) | 1705 | 2800 |
| **S293 (R134a)** | | | **S293 (R134a)** | | |
| Air return/ on the road | Watts | BTU/hr | Air return/ on the road | Watts | BTU/hr |
| 0°C (32°F) | 2990 | 10200 | 2°C (35°F) | 2850 | 9560 |
| -20°C (-4°F) | 1300 | 4440 | -18°C (0°F) | 1200 | 4100 |

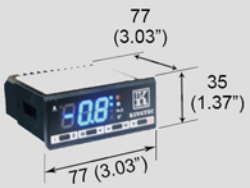
## DIMENSIONS: mm (Inch)




S293 Condenser Assembly




EVK300C Evaporator




LAE Control Panel

**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.

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# S293E

## DESCRIPTION

Kingtec S293E series units are designed for fresh and frozen applications on the 6~19$^3$ mini refrigerator trucks and vans. The road compressor is powered by the vehicles engine and while a second compressor is powered by an electric motor, making it possible to use electric standby to drive the unit. The stand-by module installed inside the condensing units.

## SYSTEM COMPONENTS

- Condenser with stand-by module assembly
- Evaporator assembly
- Swash plate road compressor (With magnetic clutch)
- In cab control box and wiring harness

## REFRIGERENT (CHLORINE ZERO)

- S293E (R404A): HFC R404A 1.5kg
- S293E (R134a): HFC R134a 1.65kg

## ROAD COMPRESSOR (ENGINE DRIVEN)

- Max recommended speed : 3000 RPM
- Includes oil return separator

| | S293(R134a) | S293(R404A) |
|---|---|---|
| Number of cylinders | 6 | 6 |
| Displacement (cc) | 162 | 147 |

## AIRFLOW VOLUME

- EVK300C Evaporator: 1380m$^3$ /h (810 cu ft/min)

## DEFROST SYSTEM

- Automatic Hot Gas Defrost

## ELECTRICAL SPECIFICATION OPTIONS

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

| | DC12V | DC24V |
|---|---|---|
| S293 | 28A | 15.5A |

Total stand-by current consumption

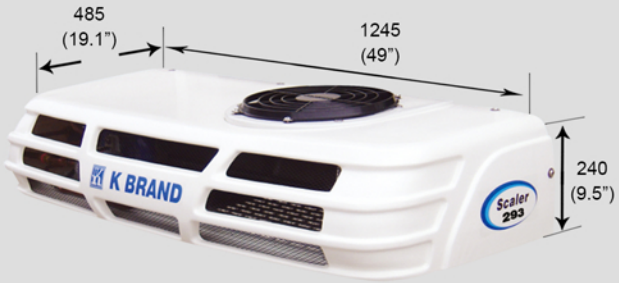
| | S293E |
|---|---|
| 220V/1Phase/50Hz | 14.4A |
| 230V/1Phase/60Hz | 14.4A |
| 115V/1Phase/60Hz | 28.8A |
| 230V/3Phase/50Hz | 8.0A |
| 230V/3Phase/60Hz | 9.6A |
| 400V/3Phase/50Hz | 4.6A |

**Refrigeration capacity conditions @ 30°C(86°F) ambient and 2400 compressor rpm atp standard**

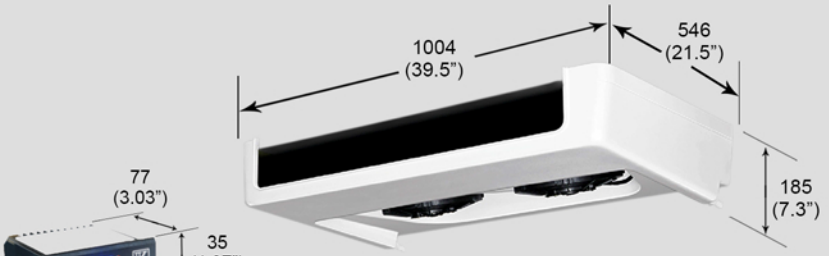
**Conditions @ 100°F(38°C) ambient and 2400 compressor pm US-standard**

| S293E (R404A) | | | S293E (R404A) | | |
|---|---|---|---|---|---|
| Air return/ on the road | Watts | BTU/hr | Air return/ on the road | Watts | BTU/hr |
| 0°C (32°F) | 3320 | 11300 | 2°C (35°F) | 3000 | 10250 |
| -20°C (-4°F) | 1880 | 6420 | -18°C (0°F) | 1705 | 2800 |
| Electric stand-by 50Hz | Watts | BTU/hr | Air return/ on the road | Watts | BTU/hr |
| 0°C (32°F) | 1980 | 6760 | 2°C(35°F) | 1720 | 5870 |
| -20°C (-4°F) | 1255 | 4285 | -18°C(0°F) | 1180 | 4025 |
| **S293E (R134a)** | | | **S293E (R134a)** | | |
| Air return/ on the road | Watts | BTU/hr | Air return/ on the road | Watts | BTU/hr |
| 0°C (32°F) | 2990 | 10200 | 2°C (35°F) | 2850 | 9560 |
| -20°C (-4°F) | 1300 | 4440 | -18°C (0°F) | 1200 | 4100 |
| Electric stand-by 50Hz | Watts | BTU/hr | Air return/ on the road | Watts | BTU/hr |
| 0°C (32°F) | 2010 | 6860 | 2°C(35°F) | 1950 | 6660 |
| -20°C (-4°F) | 780 | 2660 | -18°C(0°F) | 700 | 2390 |

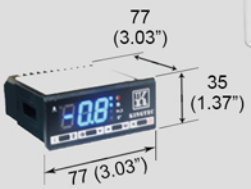
**DIMENSIONS: mm (Inch)**




S293E Condenser With Electrical Stand-by Assembly




EVK300C Evaporator




LAE Control Panel

## WEIGHTS

- S293E Condenser Assembly (Includes stand-by): 50(75)kg
- EVK300C Evaporator Assembly : 22Kg

**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.

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