



KRS

*Greater flexibility and capacity,
optimized for city buses and coaches*



KRS II Plus



KRS 1139B

- Low profile with streamlined design, only 181 mm high
- Light weight
- Lower fuel consumption
- High capacity
- Easy installation
- HFC R134a or HFC R407C refrigerant

KRS

The KRS is a rooftop system designed for Cool or Cool/Heat applications. The low profile system is designed to blend into bus designs to enhance vehicle appearance. Design configuration enables the unit to be installed anywhere on the roof of the bus for maximum flexibility and weight distribution. While low profile, this system maintains Thermo King's reputation for high performance and low maintenance costs. Available with 5 M or 7.5 M radius base to better conform to bus roof radius. Available with R134a or R407C refrigerant. Using R407C can increase system efficiencies by more than 15% and increase capacity by up to 40%. The KRS optional heat function can provide all temperature control needs in one unit (eliminates needs for floor heaters). The KRS offers a power pack option, with the compressor driven independently from a small diesel engine built to Euro III Emissions Standards, so the air-conditioner can operate normally whether the bus engine is on or not.

- All aluminum construction
- Coated with anti-corrosion lacquer for longer life
- Light weight aluminium condenser coils (KRS II Plus only)
- SmartAIRE™ control system as standard
- ClimaAIRE™ II control system optional
- Front box interface optional
- Fresh air damper optional
- Muffler optional
- Very Long Life Span Brushless motors optional
- TK486 Powerpack optional



CONTROLS

SmartAIRE™ and ClimaAIRE™ II Control Systems are Thermo King's computerized control systems. These systems give the driver total temperature control within the vehicle. Cool, heat, dehumidification, fresh air functions are combined in one control system to optimize passenger comfort. High-volume fresh air circulation systems keep the air fresh in the bus all the time providing a healthy and comfortable environment for travel. Thermo King's unique dehumidification & demisting guarantees exceptional comfort & road safety.



SmartAIRE™



ClimaAIRE™ II

Thermo King™ 486 POWER PACK

The Thermo King™ 486/B Power Pack is a 2.1 liter diesel engine directly coupled to a compressor. It uses a belt-driven alternator to provide power to the unit. A CYCLE-SENTRY™ module controls engine operation. The compressor is a Thermo King X430 compressor. The engine and compressor are mounted on a steel frame designed for installation under the bus floor. The radiator and control box complete the power pack.

SYSTEM COOLING CAPACITY

Rated capacities are at following conditions: outside 35°C, inside 27°C DB and 19.5°C WB

Model KRS II Plus (R134a)

Maximum capacity:

KW	Kcal/hr
34	29,200

Rated Capacity:

KW	Kcal/hr
29	24,900

Model KRS-1139B(R407C)

Maximum capacity:

KW	Kcal/hr
38	32,670

Rated Capacity:

KW	Kcal/hr
36	30,950

SYSTEM HEATING CAPACITY

At 30 Lt./Min. coolant flow rate and 55 degrees temperature differential between return air and coolant.

KW	Kcal/hr
30	25,800

EVAPORATOR AIRFLOW

4,800m³/hr
@0 mm water column external static pressure

REFRIGERANT

HFC R134a
HFC R407C

ELECTRIC POWER REQUIREMENTS

87 amps at 27V DC (w R134a)
107 amps at 27V DC (w R407C)

WEIGHT (cool version)

KRS II Plus(R134a) rooftop unit (with aluminium coil): 188 kg (10% lower weight)
KRS-1139B(R407C) rooftop unit: 210 kg
Compressor TKX430: 52kg
Compressor S391: 67kg
Power pack (total): 400kg

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 and shop facilities, a stock of factory parts and factory trained mechanics.

Warranty Summary

Terms of the Thermo King Limited Express Warranty are available upon request. Basic unit is warranted to be free from defects in material and workmanship for a period of one year from date in service. Warranty covers parts and labor only. Manufacturer is not responsible and will not be held liable in contract or tort (including 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.

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DIMENSIONS (millimeters)

Power pack(H x W x L): 754 X 1270 X 508

SmartAIRE™(H x W x L): 57 x 184 x 33

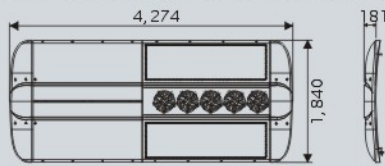
ClimaAIRE™II (H x W x L): 57 x 187 x 60

KRS II Plus R134a (H x W x L): 181 X 1,840 X 4,274



KRS II Plus

KRS-1139B R407C (H x W x L): 181 X 1,840 X 4,274



KRS 1139B