



TE Series All-Electric HVAC

Efficient all-electric bus HVAC technology.



TRANE
TECHNOLOGIES™

Best Value, Best Performance

THE TE SERIES ALL-ELECTRIC HVAC FOR BUS

The all-electric TE Series is a one-piece rear mount unit installed in the rear window area of the bus. This unit is charged, sealed and tested at the factory and is ready to operate as soon as the specified power requirements are connected. The scroll compressors, evaporator and condenser motors operate on 460VAC or 230VAC 3-phase 60hz power. The IntelligAire II microprocessor operates on 27VDC.

The unit is self-contained and the IntelligAire II microprocessor controls and monitors all unit modes and functions, including safety shutdown protection. Because of the unique split-circuit design, the two scroll compressors can operate simultaneously or independently for optimum power and capacity as requirements vary. The treated condenser coil and the all-aluminum frame resist corrosion.

- Dramatically improved reliability
- Integrated electric compressors with microprocessor control
- Unit is charged and tested at factory
- No belts or clutches to maintain
- No tubing or hoses needed to connect unit and compressor
- Reduced number of maintenance items
- Optimum A/C unit capacity at all bus speeds
- Energy-efficient R-407C refrigerant

Specifications

UNIT OPERATION

- AUTO, COOL, HEAT and VENT modes may be selected through hard-wired switches or optional display panel.
- The dual scroll compressors are thermostatically controlled for 2-stage capacity control in the cool mode.
- The 2-speed evaporator and condenser motors are thermostatically controlled based on operating conditions.

PERFORMANCE DATA AND SPECIFICATIONS

System net cooling capacity with 95°F (35°C) ambient and 80°F (26.7°C) db, 67°F (19.5°C) wb evaporator return air (50% RH):

Refrigerant R-407c (Standard)

NET SYSTEM CAPACITY

Btu/hr	KCal/hr	KW
81,000	20,418	23.7

EVAPORATOR MOTOR

- 230V/3PH/60HZ
- Speed & Current Draw
 - High Speed - 1750 rpm @5.2 amps
 - Low Speed - 1140 rpm @3.0 amps
- 1.7 Horsepower

CONDENSER MOTORS

- 230V/3PH/60HZ
- Speed & Current Draw
 - 1750 rpm @3.4 amps
- 1.0 Horsepower

REFRIGERANT CHARGE

16 lbs. (7.3 kg)
(8 lbs. per circuit)

SYSTEM HEATING CAPACITY

22,680 KCal/hr (90,000 Btu/hr)
@ 8 GPM & 160°F water

EVAPORATOR AIRFLOW

0 in. (0 mm) water column external static pressure

HIGH SPEED FAN (STANDARD)

2250 cfm (3825 m³/hr)

LOW SPEED FAN (STANDARD)

1550 cfm (2635 m³/hr)

COMPRESSORS (2)

Thermo King Hermetic Electric Scroll (Dual)

WEIGHT (WITH CHARGE)

653 lbs. (297 kg)

ELECTRIC POWER REQUIREMENTS

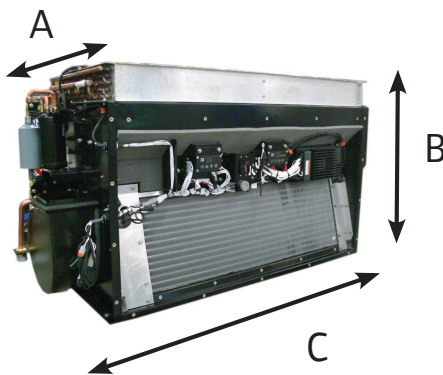
24VDC Controls - 2 Amps
230VAC - 60 Amps
460VAC - 30 Amps

OPTIONAL AND ACCESSORY EQUIPMENT

IntelligAIRE II microprocessor control system
IntelligAIRE II Smart-Pac diagnostics
Display panel for IntelligAIRE II

WARRANTY

Terms of the Thermo King Warranty are available on request from your local Thermo King dealer. Please reference document TK50049 for the Thermo King Bus Unit Warranty.



Unit	A (Depth)	B (Height)	C (Width)	Weight
T 14	683 mm (26.9")	902 mm (35.5")	1636 mm (64.4")	168 KG (370 lbs)
T 15	658 mm (25.9")	963 mm (37.9")	1618 mm (64.4")	173 KG (380 lbs)



Thermo King – by Trane Technologies (NYSE: TT), a global climate innovator – is a worldwide leader in sustainable transport temperature control solutions. Thermo King has been providing transport temperature control solutions for a variety of applications, including trailers, truck bodies, buses, air, shipboard containers and railway cars since 1938. For more information, visit thermoking.com or tranetechnologies.com.

