



RLF Series

Rooftop HVAC System for Coach and Transit





RLF Series

✓ Replaces existing roof-mount units with a unit that weighs 42% less

✓ Replaces rear-mount units without sacrificing reliability, performance, weight or cost!

Standard Features

Why pay for more than you want. Thermo King provides standard features designed to meet your needs.

A roof-mount system that really performs!

- Unique 1-piece design
- Single roof cut out to prevent leaks
- Single evap heater assembly (reduced plumbing)
- Next generation IntelligAIRE III™ control system
- Next generation brushless motors
- Lowest weight of any rooftop unit
- Fits CNG, hybrid and diesel buses



IntelligAIRE III® Control System

All the features of IntelligAIRE II PLUS:

- Expanded CAN communications capability
- Plugs directly into J1939 network to make more info available
- Eliminates the gateway module required between bus & unit controllers
- Less weight due to elimination of harnesses
- Increased number of I/O for system & component monitoring
- Eliminates need for expansion modules external to controller where multiple zones must be controlled independently
- Programmable pre-heater function with real time clock activation to start pre-heat when system is off



HFC Refrigerant R-134a or R-407C

- Environmentally safe alternative providing protection for the earth's ozone layer



The Thermo King X430 Compressor

- Engineered exclusively for transport applications
- Built for extended service life
- Field repairable



Next Generation Brushless Motors

- Integral electronics
- No external controllers
- Maintenance free
- Advanced diagnostics
- Programmable variable speed
- Eliminates wiring harnesses, terminals and studs
- Failure mode indication

Optional Features

Take control of your operating costs with these cost-saving options available only from Thermo King.



S391/S616 Screw Compressors

- Exclusive oil management system for increased reliability
- Fewer moving parts than reciprocating compressors
- Lower noise levels and vibration than reciprocating compressors
- Programmable capacity control for fuel savings



Electronic Energy Management System

- Provides fuel savings with X426, X430 and X640 reciprocating compressors
- Programmable electronic capacity control reduces the parasitic load on the engine



Thermo King is the Green Leader

Thermo King offers industry-leading products and solutions that enable businesses around the world to reduce energy consumption and costs and decrease harmful environmental emissions.

The  symbol indicates a feature that delivers a significant environmental advantage or benefit.

RLF Specifications

System Cooling Capacity (Rated Capacities)	R-134a	R-407C
BTU/hr	88,500	105,000
kW	26	30.8
Kcal/hr	22,292	26,448

Rated capacities are at following conditions:

Outside 35°C/95°F

Inside 27°C/80°F DB

19°C/67°F WB

System Heating Capacity

At 30 Lt./Min.(8 GPM) coolant flow rate and 55K (100°F) temperature differential between return air and coolant.

BTU/hr	105,000
kW	30.8
Kcal/hr	26,448

Evaporator Airflow

(0 in. water column external static pressure)

High Speed	2400 ft ³ /min
Medium Speed	1370 ft ³ /min
Low Speed	1000 ft ³ /min

Refrigerant

HFC R-134a or HFC R-407C

Power Consumption @ 24 VDC

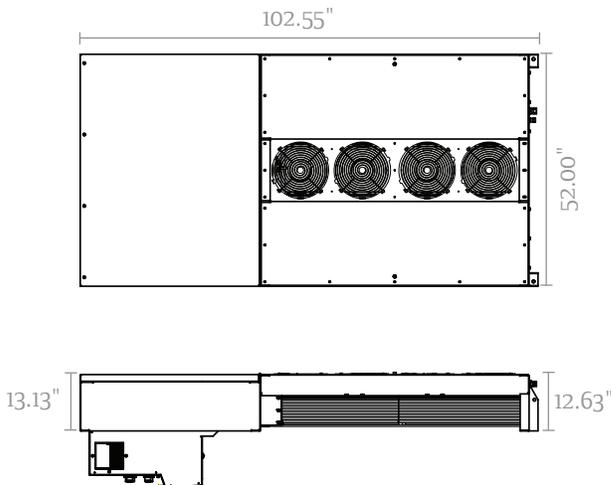
102 Amps

Weight

500 lbs (227 kg)

Compressor Weight With Clutch (approximate)

S391	147 lbs (67 kg)
S616	171 lbs (77 kg)
X426/X430	115 lbs (52.2 kg)



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

Warranty Summary

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.



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.

