



## *Athenia AM Series*

*Rooftop HVAC System for Coach and Transit*





# Athenia AM Series

✓ Replaces existing roof-mount units with a unit that weighs 20% 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.



### 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
- Eliminates need for expansion modules external to controller where multiple zones must be controlled independently



### High Performance R-407C

- Environmentally safe alternative that provides more BTUs of cooling per HP used



### The Thermo King X430 Compressor

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



### Long Life Brushless Motors

- Integral electronics
- 10% greater airflow
- Maintenance-free
- Programmable variable speed
- 40,000-hour bearings

## A low-weight, high-performance roofmount system!

- Easy-to-install one-piece design
- Next generation IntelligAIRE III™ control system
- Options tailored to your needs
- Fits CNG, hybrid and diesel buses

## Optional Features

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



### IntelligAIRE III™ Electronic Pressure Display Module

- Touchpad displays four different pressure readings
- Simplifies problem diagnosis and pre-trip inspections



### 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

### Other Available Options

- HFC Refrigerant R-134a
- Return Air Grille
- Fresh Air Module

## 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.

# Athenia AM Specifications

System Cooling Capacity (Rated Capacities)	Athenia AM 960	Athenia AM 1000
BTU/hr	92,000	113,000
kW	30	33.1
Kcal/hr	23,183	28,476

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	100,000
kW	29.3
Kcal/hr	25,200

## Evaporator Airflow

(0 in. water column external static pressure)

High Speed	3000 ft <sup>3</sup> /min
Medium Speed	1900 ft <sup>3</sup> /min
Low Speed	1350 ft <sup>3</sup> /min

## Refrigerant

	HFC R-134a	HFC R-407C
--	------------	------------

## Power Consumption @ 27 VDC

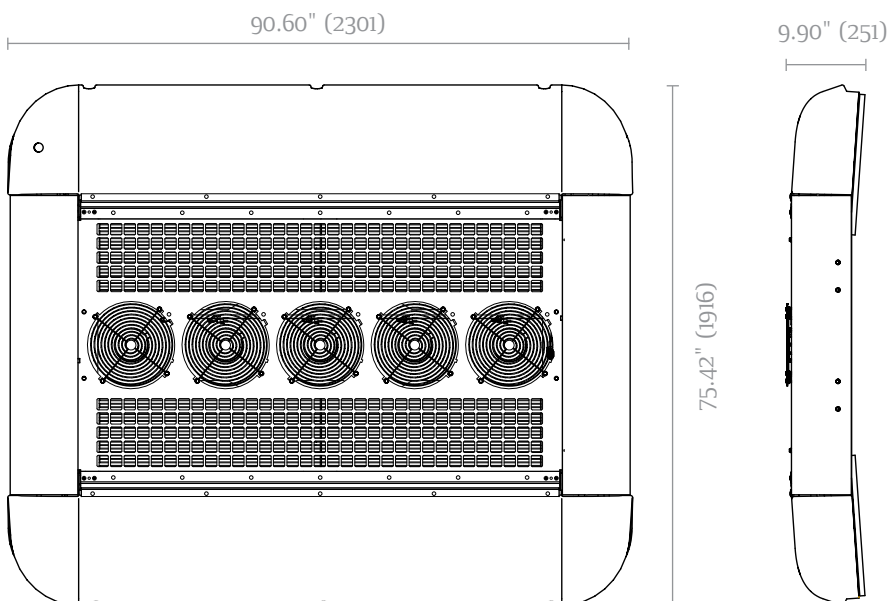
	120 Amps
--	----------

## Weight

	513 lbs (233 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.



Providing equipment and services to manage controlled-temperature environments for food and other temperature-sensitive products, our Climate Control Technologies sector encompasses both transport and stationary refrigeration solutions. Our product brands include Thermo King®, a world leader in transport temperature control systems, and Hussmann®, a manufacturer of refrigeration and food merchandising equipment.

[www.thermoking.com](http://www.thermoking.com)   [www.hussmann.com](http://www.hussmann.com)   [www.ingersollrand.com](http://www.ingersollrand.com)