

# ATHENIA™ MKIII SERIES

— Minimum weight, maximum comfort —



HVAC ROOF UNITS FOR DIESEL/CNG BUSES

# Minimum weight, maximum comfort

Thermo King's new Athenia™ MkIII product range uses advanced technology and design to provide the ultimate in passenger comfort. By changing the position of the evaporator and the blowers, the Athenia™ MkIII unit has a higher blower speed and guarantees higher maximum cooling performance. Combining the increased blower speed with improved regulation, it maximizes passenger comfort.

At the same time, operating costs are reduced due to increased component lifetime and reduced unit weight, enhanced fan technology and better control.

Our sophisticated CANAIRE™ control system is customizable to meet specific needs. It features an ergonomically designed LCD driver panel that allows control of the A/C roof units as well as a driver's area

front-box and preheater. A highly flexible system handles up to seven temperature zones with great precision for single, articulated or double articulated buses.

Airflow is carefully managed to keep air speeds speed low and so reduce noise. Combined with additional cooling capacity, this delivers the best possible customer experience.

Our AdvanTech™ Fresh Air control option uses built-in CO<sub>2</sub> sensors to manage the intake of fresh air based on internal air quality measurements. Monitoring and controlling CO<sub>2</sub> also reduce the risk of spreading airborne viruses.

High performance, precise temperature control and airflow combined with fresh air control create the best possible passenger experience





## Energy efficient design for lower environmental impact

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With its reduced unit weight, the new Athenia™ MkIII means driving further while using less fuel. Innovative micro-channel coils result in a refrigerant charge 50% lower than conventional coils. By using less refrigerant, the Athenia™ MkIII series minimizes its carbon footprint and lowers environmental impact.

Extremely low operating noise not only enhances passenger experience but also minimizes impact in noise-sensitive urban areas.



**QUALITY CONTROL**

- ✓ IATF 16949:2016
- ✓ ISO 9001:2015
- ✓ ISO 14001:2016
- ✓ ISO 45001:2018



## Reliability

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Thermo King products have always been built to last. The industry's toughest test conditions and highest design criteria result in products that are both high performing and highly dependable. Our manufacturing plant is IATF 16949:2016, ISO 9001: 2008, ISO 14001: 2004 and BS OHSAS 18001: 2007 accredited to demonstrate our dedication to quality, reliability and sustainability.

## Easy to use, easy to maintain

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Athenia™ MkIII units are designed to be compatible with bus roofs with a radius from flat to 7.5m. In order to increase the range of applications, units are available for both screw and glue installation and are compatible with a wide range of compressor dimensions and installation space limitations. Athenia™ units feature an ergonomic design to give easy access to components, minimizing installation, maintenance and service costs.

Athenia units come in cool only or cool/heat versions as well as a wide range of cooling capacities, making them suitable for operation in cool, mild or hot climates.

# Specifications

## ATHENIA™ MkIII SERIES

SPECIFICATIONS		S-500	S-805	S-960
Listed Cooling Capacity <sup>1</sup>	kW	21,8	35,6	39,2
Rated Cooling Capacity <sup>2</sup>	kW	14,5	24,1	30
Heating Capacity <sup>3</sup>	kW	33	47	47
Max Operating Temperature	°C	35	55	55
Evaporator Air Capacity <sup>4</sup>	m³/h	4600	6300	6300
Fresh air range	%	100	100	100
Current Draw <sup>5</sup>	A	54	81	90
Dimensions (W x L x H)	mm	2071x2140x193		
Refrigerant type/average filling	kg	R134a/2,8	R134a/3,5	R134a/3,9
Weight (cool/cool+heat)	kg	110/116	120/127	127/134
Compressor options		QP31	X430, FKX40/560, FKX40/655, S616, S391	X430, FKX40/560, FKX40/655, S616, S391

1. Measured at conditions: outside: 35 °C / inside: 40 °C / 46 % rH
2. Measured at conditions: outside: 35 °C / inside: 27 °C / 46 % rH
3. Measured at conditions: 80 °C/-20 °C/16,7 l/min

4. Measured at 0 mm water external pressure
5. Consumption for unit only at 27 VDC without clutch and pump

S-500



S-805



S-960



# 24/7 support wherever you need us

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Athenia™ MkIII operators have access to Thermo King's worldwide dealer service network to minimize their cost of ownership and maximize uptime.

- More than **500** service points in **75 countries**
- Non-stop availability **24/7/365**
- Seldom more than **2 hours** away
- Direct telephone contact with **immediate assistance** in your own language
- Fully factory trained and **certified technicians**

**FOR MORE INFORMATION:**

[dealers.thermoking.com](http://dealers.thermoking.com)





 **THERMO KING**

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 further information  
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TECHNOLOGIES