

X-SERIES

— HVAC roof units for diesel/CNG buses —



Optimal climate control

The X-Series product range offers a very high ratio between cooling capacity and unit weight, featuring extra light aluminium frames and plastic covers. In addition, variable speed fans and blowers increase energy and operational efficiency while ensuring optimal cooling performance.

The ClimaAire I D™ control system offers maximum climate control in operating modes: ventilation, cool, heat, auto or reheat. Moreover, customised regulation loops are available for special bus applications or can be modified according to customer specifications.

For even more sophisticated installations, the CANAIRE® control system with its 4-wire communication and expandable interfaces can be installed.

The X-Series has optional connection for the front box unit to manage higher comfort of the driver.



Reliability

Thermo King products are built to last. We continuously test and develop our designs to meet the high demands of bus temperature control applications.

We only use the most reliable and internally validated components in our A/C systems.

We carry out a range of rigorous functional and performance tests to validate all our transport refrigeration equipment in a controlled environment such as special 3D multi-axial vibration and twist profiles tests. They regularly exceed the standard bus homologation requirements (ECE R10.05).

Our Thermo King manufacturing plant is ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007 accredited to demonstrate our dedication to quality and reliability.

Thermo King Dealer Network for low cost of ownership

The X-Series provides best-in-class performance and low overall cost of ownership during the warranty period.

Moreover, with the purchase of a X-Series unit, customers have access to Thermo King's worldwide dealer and service network, maximising uptime and saving you time and money. Thermo King Dealers have been servicing transport temperature control equipment for more than 75 years now.

Our Dealer Service Network:

- More than 500 service points in 75 countries
- Non-stop availability 24/7/365
- Always in your area: most locations are within a two-hour drive
- Direct telephone contact
- Immediate assistance in your language
- Optimised fleet maintenance

Our qualified CERTI-TECH technicians:

- Fully trained & certified
- Gold, silver and bronze CERTI-TECH expertise certifications
- > 1,400 CERTI-TECH trained and certified service technicians

For more information, visit: dealers.thermoking.com

Ease-of-use and service

- Our X-Series is the ideal solution for buses in size range from 8 to 15 meters, covering a wide range of bus roof radiuses from 7,5 up to 18 meters.

The X-Series temperature control system thanks to its ergonomic unit design ensures easier access to components and thus minimises service time.

All X-Series units are designed for compatibility with a wide range of compressors, helping to extend the application areas.

The X Series units can be installed in front, mid or rear side of the bus roof. It helps to keep central weight point to be optimally balanced.

X-SERIES				
SPECIFICATIONS	X-500	X-700	X-900	S-960ADV
Layout unit	Narrow (N) Wide (W)			
Listed cooling capacity ¹ [kW] / [kBtu/h] / [kcal/h]	25 / 85 / 21500	32 / 105 / 26700	45 / 153 / 38700	48 / 163 / 41300
Rated cooling capacity ² [kW] / [kBtu/h] / [kcal/h]	13,2 / 45 / 11400	20,1 / 69 / 17300	24,5 / 84 / 21100	33,9 / 116 / 29200
Heating capacity ³ [kW] / [kBtu/h] / [kcal/h]	34 / 116 / 29200	39 / 133 / 33500	47 / 160 / 40400	47 / 160 / 40400
Evaporator air capacity ⁴ [m ³ /h]	3400	4400	6600	6600
Fresh air range [%]	0.20	0.20	0.20	0.20
Current draw ⁵ [A]	46 (57)	63 (74)	90 (101)	99 (110)
Dimensions roof unit (W x L x H) [mm]	1520 x 2200 x 183 (N) 1800 x 2200 x 183 (W)	1800 x 2200 x 183	2000 x 2585 x 183	2000 x 3040 x 225
Refrigerant type / average filling volume [kg]	R134a / 2,2	R134a / 3,7	R134a / 3,7	R407C / 4,4
Weight (cool/cool+heat) [kg]	86 / 94 (N) 93 / 101 (W)	96 / 104	136 / 140	159 / 165
Control system	ClimaAire ID / CANAIRE		CANAIRE	
Compressors options	TM16, TM21, TM31	TM31, TK X430, FKX 40/470	TK X430, FKX 40/470, FKX 40/560, S616, S391	TK X430, S616, S391

¹ Simulated at conditions 40°C/40°C/95%
² Measured at conditions 35°C/27°C/19°C

³ Measured at conditions -20°C/+80°C/16,7 l/min
⁴ Free blow capacity for brush blowers

⁵ Current consumption for unit at 27 VDC





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, please contact:
europe.thermoking.com

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