Refrigeration unit data sheet

Thermo King V400X Max 50

Roof-mounted unit · Fresh delivery / Deep-freeze



4.082 W	12 V	1.990 m³/h	+273 mm
Refrigeration capacity during driving operation	Operating voltage	Air flow	Installation height

Technical data

Refrigeration unit drive during vehicle operation	**Belt drive**
Maximum current	**36 A**
Refrigerant	**R452a**

Performance features

- The Thermo King V-400X MAX from the VX series is driven by the vehicle engine and requires no separate motor. This results in quiet, low-vibration operation without its own exhaust emissions, making it ideal for deliveries in inner cities and environmental zones, including at night. With a cooling capacity of 4.082 W at 0 °C and 2.240 W at −20 °C, the unit is suitable for both fresh delivery and deep-freeze transport. The cab controller Direct Smart Reefer (DSR III) maintains the cargo area temperature within ±1 °C. It displays malfunctions via clear alarm codes and automatically reminds of scheduled maintenance. The 50 version offers two additional features: through electric standby, the unit continues cooling when the engine is off using an external power supply at 400 V. The heating function protects the cargo in winter from excessively low temperatures. The lightweight, aerodynamic housing preserves payload capacity. The condenser can be mounted on the front wall, on the roof, or recessed in the roof. Defrost is automatic using hot gas. Optional features include door switches, a DIN adapter for controller installation in the radio slot, telematics via BlueBox Lite, and data loggers compliant with EN 12830. The max 50 version offers cooling while driving, cooling while stationary via external 400 V power supply, as well as a heating function with 3.564 W during driving and 1,841 W when connected to mains.

Available for

Mercedes-Benz
Sprinter VS30 – Chilled goods – belt-driven refrigeration · Sprinter VS30 – Frozen goods – belt-driven refrigeration

Nissan
Interstar for chilled goods with belt drive

Opel
Movano X250 – Chilled goods – belt-driven refrigeration · Movano X250 – Frozen goods – belt-driven refrigeration

Peugeot
Boxer X250 – Chilled goods – belt-driven refrigeration · Boxer X250 – Frozen goods – belt-driven refrigeration

Renault
Master – Chilled goods – belt-driven refrigeration · Master – Frozen goods – belt-driven refrigeration

Toyota
Proace K0 frozen goods, belt drive

Volkswagen
VW Crafter – Chilled goods – belt-driven refrigeration · VW Crafter – Frozen goods – belt-driven refrigeration

Project-specific assessment

Base vehicle and installation situation · Temperature range and route profile · Power supply and stationary periods

Suitability is assessed according to the base vehicle, installation situation, temperature range and route profile.

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