Vehicle data sheet · Toyota

Toyota Proace K0 frozen goods, belt drive

Chilled and frozen transport · Belt drive



Brand	**Toyota**
Model	**Proace K0 frozen goods, belt drive**

3,3 m³ / 3,9 m³
Load volume

2 / 3
Euro pallets

Product data: 28.10.2026

Conversion specification

Base vehicle: sliding door on the right, K0 platform, internal combustion engine (ICE)

Delivery code:

The Kerstner frozen goods conversion for the Toyota Proace combines the highest insulation performance with consistent practicality – developed and manufactured for everyday use in food and chilled goods transport.

The conversion achieves a K coefficient of below 0.4 W/m²K and is classified as “heavily insulated” under ATP requirements. This is made possible by the seamless connection of all insulation elements – including at the sliding door – without gaps or thermal bridges.

The electric refrigeration system reliably maintains the temperature range from -20 °C to +20 °C throughout the journey.

The polyurethane insulation components are water-repellent, antibacterial and impact-resistant, and meet the requirements of the ATP and HACCP guidelines. The easy-to-clean surface reduces the effort required to maintain hygiene in day-to-day operation.

Thanks to its computer-optimised fit, the conversion provides a usable load volume of 3.3-3.9 m³ with unobstructed clearance between the wheel arches, suitable for loading Euro pallets.

Variants and load space

Standard L2

3,275 mm

Wheelbase	3,275 mm
Load compartment length	2,130 mm
Width between wheel arches	1,210 mm
Upper width	1,360 mm
Interior height	1,130 mm
Evaporator height	100 mm
Load volume	3,3 m³
E2 crates	30
Euro pallets	2
Compatible refrigeration units	Thermo King V300 max 20 / Thermo King V300 max 50 / Carrier Xarios 300T / Carrier Xarios 200T / Thermo King V200 max 50 / Thermo King V200 max 20 / Thermo King V400X Max 20

Maxi L3

3,275 mm overhang

Wheelbase	3275 with overhang
Load compartment length	2,470 mm

Width between wheel arches	1,210 mm
Upper width	1,360 mm
Interior height	1,130 mm
Evaporator height	100 mm
Load volume	3,9 m³
E2 crates	33
Euro pallets	3
Compatible refrigeration units	Thermo King V300 max 20 / Thermo King V300 max 50 / Carrier Xarios 300T / Carrier Xarios 200T / Thermo King V200 max 50 / Thermo King V200 max 20 / Thermo King V400X Max 20

Refrigeration

Temperature range: on request

Thermo King V300 max 20

External · Stationary refrigeration: included

- Engine-driven transport refrigeration unit for cooling, 12 V
- Ultra-flat ES150 evaporator
- Split unit for installation on the front wall above the cab
- Refrigeration while driving, 12 V (driven by the vehicle engine), and 220 V electric motor
- Ultra-flat ES 300 evaporator with 2 fans, airflow 1,250 m³/h
- Manual defrost or automatic timer-controlled defrost
- In-cab remote control with temperature display

The remote control and temperature recorder are installed in the existing

available DIN slot. Otherwise, they are installed at a location

we consider suitable. Subsequent changes can be made

and will be charged according to the work required.

- DSR controller – Smart Reefer

- Effective refrigeration capacity at an ambient temperature of 30 °C under ATP conditions:

3,355 Watt at 0 °C

1,820 Watt at -20 °C

1,550 Watt at -25 °C

- R452A refrigerant: particularly environmentally friendly – 50% lower CO^2 impact; complies with legal requirements from 2020

Application: frozen goods transport

Type: roof-mounted unit

Refrigeration capacity: max. 3,330 W at 0 °C

Operating voltage: 12 V

Max. current draw: 452 A

Airflow: 1,400 m^3/h

Refrigerant: R452A

Installation height: approx. 221 mm

Thermo King V300 max 50

External · Stationary refrigeration: included

- Engine-driven transport refrigeration unit for cooling and heating

- Split unit for installation on the front wall above the cab

- Refrigeration while driving, 12 V (driven by the vehicle engine), and 220 V electric motor

- Ultra-flat ES 300 evaporator with 2 fans, airflow 1,250 m^3/h

- Manual defrost or automatic timer-controlled defrost

- In-cab remote control with temperature display

The remote control and temperature recorder are installed in the existing available DIN slot. Otherwise, they are installed at a location we consider suitable.

Subsequent changes can be made and will be charged according to the work required.

- DSR controller – Smart Reefer

- Effective refrigeration capacity at an ambient temperature of 30 °C under ATP conditions:

3,355 Watt at 0 °C

1,820 Watt at -20 °C

1,550 Watt at -25 °C

Application: chilled and frozen goods transport

Type: roof-mounted unit

Refrigeration capacity: max. 3,330 W at 0 °C

Operating voltage: 12 V

Max. current draw: 452 A

Airflow: 1,400 m³/h

Refrigerant: R452A

Installation height: +221 mm

Note: &

Carrier Xarios 300T

External · Stationary refrigeration: included

Application: chilled and frozen goods transport

Type: roof-mounted unit

Refrigeration capacity: 2,008 W at 0 °C, 1,680 W at -20 °C

Operating voltage: 12 V

Max. current draw: 452 A

Air flow: 820 m³/h

Refrigerant: R452A

Installation height: +290 mm

Note: &

Carrier Xarios 200T

Roof-mounted · Stationary refrigeration: included

The XARIOS range consists of highly versatile, direct-drive refrigeration units for vans and trucks. They are designed for transporting fresh or frozen goods in single-temperature and multi-temperature versions in vehicles with volumes from 8 to 45 m³. The units are available in various versions.

Application: chilled and frozen goods transport

Type: roof-mounted unit

Refrigeration capacity: 2,415 W at 0 °C / 1,360 W at -20 °C

Operating voltage: 12 V

Maximum current: 404 A

Air flow: 770 m³/h

Refrigerant: R-404A

Installation height: +232 mm

Note: &

Thermo King V200 max 50

External · Stationary refrigeration: included

- Split refrigeration unit for installation on the front wall or roof

- Ultra-flat ES 200 evaporator with 2 fans, airflow 1,070 m³/h

- In-transit cooling at 12 V (driven by the vehicle engine) and 230 V electric motor

- Manual defrost or automatic timer-controlled defrost

- In-cab remote control with temperature display

The remote control and temperature recorder are installed in the existing

available DIN slot. Otherwise, they are installed at a location

we consider suitable. Subsequent changes can be made

and will be charged according to the work required.

- DSR controller – Smart Reefer

- Effective refrigeration capacity at an ambient temperature of 30 °C under ATP conditions:

2,710 W at 0 °C

1,560 W at -20 °C

1,190 W at -25 °C

- Heating capacity approx. 2,400 W

945 W at -20 °C

- R452A refrigerant: particularly environmentally friendly – 50% lower CO^2 impact; complies with legal requirements from 2020

Application: chilled and frozen goods transport

Type: roof-mounted

Cooling capacity: 2,710 W at 0 °C

Operating voltage: 12 V

Max. current draw: 452 A

Air flow: 1,070 m³/h

Refrigerant: R452A

Installation height: +221 mm

Note: & roof

Thermo King V200 max 20

External · Stationary refrigeration: included

- Split refrigeration unit for installation on the front wall or roof

- Ultra-flat ES 200 evaporator with 2 fans, airflow 1,070 m³/h

- In-transit cooling at 12 V (driven by the vehicle engine) and 230 V electric motor

- Manual defrost or automatic timer-controlled defrost

- In-cab remote control with temperature display

The remote control and temperature recorder are installed in the existing

available DIN slot. Otherwise, they are installed at a location

we consider suitable. Subsequent changes can be made

and will be charged according to the work required.

- DSR controller – Smart Reefer

- Effective refrigeration capacity at an ambient temperature of 30 °C under ATP conditions:

2,710 W at 0 °C

1,560 W at -20 °C

1,190 W at -25 °C

- R452A refrigerant: particularly environmentally friendly – 50% lower CO^2 impact; complies with legal requirements from 2020

Application: chilled and frozen goods transport

Type: roof-mounted

Cooling capacity: 2,710 W at 0 °C

Operating voltage: 12 V

Max. current draw: 452 A

Air flow: 1,070 m³/h

Refrigerant: R452A

Installation height: +221 mm

Note: & roof

Thermo King V400X Max 20

Roof-mounted · Stationary refrigeration: included

Thermo King V-400X MAX: powerful and quiet refrigeration unit without its own engine and without exhaust emissions. The temperature is precisely regulated to 1 °C, with standby cooling possible via mains power

The Thermo King V-400X MAX from the VX series offers high cooling capacity and precise temperature control. Using the control panel in the driver's cab, you regulate the load space temperature in single and multi-temperature operation to an accuracy of 1 °C.

Since the unit operates without its own motor, it produces no emissions and runs particularly quietly. This is an advantage for deliveries in city centers and residential areas.

The device weighs only 75 kg (model 50) and is compactly built, leaving more payload capacity for the cargo. The aerodynamic design is optimized for daily use.

- Cooling capacity during driving: 4.082 W at 0 °C / 2.237 W at -20 °C

- Cooling capacity during mains operation: 3.026 W at 0 °C / 1.496 W at -20 °C

- Airflow volume: 1.990 m³/h

- Temperature control: Single and multi-temperature, accurate to 1 °C

- Operation: Operating panel inside the driver's cab

Application: Fresh delivery and deep-freeze

Type: roof-mounted unit

Cooling capacity: 4082 watts

Operating voltage: 12 V

Max. current draw: 452 A

Air flow: 1990m³

Refrigerant: R452a

Installation height: +273 mm

Note: driving and standby refrigeration

Standard equipment

• Easyfit insulation (k=0.34)

• PU floor with water-retaining sill at the sliding door

• 2 water drains

• Aluminium impact protection (approx. 14 cm high) on the left, right (except sliding door) and front wall

• Horizontal half-round lashing rails above the wheel arches on the left and right

• LED interior light

• Emergency release

Vehicle codes

Required codes

• PX01 – Full bulkhead without window – Standard

• WZ04 – Right sliding door with solid panel – Standard

• WO01 – Double rear doors without rear windows, with 180° hinges – Standard

• BQ01 – Reinforced vehicle electrical system

• Double passenger bench seat – Required for stationary refrigeration

• CZ02 – Increased payload – Recommended

Excluded codes

• WO06/WO07/J20/J1U – Tailgate

• GB33 – Wooden load floor

• GB38 – Wooden load floor and side walls

• WZ07/YA2/DF0 – Left sliding door

• Electric sliding door

• GA04 – Construction site package

• QC06 – Start-stop function (or deactivation)

Equipment and accessories

Required accessories

TÜV assessment / Stage II certificate of conformity (COC)

Required accessories · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Required for submission at registration Quantity: Default 1, Minimum 1 piece

Optional accessories

Aluminium floor panel, wheelbase L2

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

Aluminium floor panel, wheelbase L3

Optional · Suitable for: Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

Non-slip load floor mat, wheelbase L2

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

Non-slip load floor mat, wheelbase L3

Optional · Suitable for: Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

Shelf set I (1 height-adjustable shelf)

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

Shelf set I (2 shelves one above the other, height-adjustable)

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

PVC strip curtain for the rear opening

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

PVC strip curtain for the sliding door

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

Horizontal lashing rails at a custom height on the left and right, wheelbase L2

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

Horizontal lashing rails at a custom height on the left and right, wheelbase L3

Optional · Suitable for: Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

ATP certificate FRAX

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

Non-slip mat for shelf

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

ATP certificate FRCX

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

Telescopic load restraint bar, 1 piece

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Transsafe load restraint bar, universally usable in all Airline rails Quantity: Default 1, Minimum 1 piece

Telescopic load restraint bar package, 2 pieces

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Transsafe load restraint bar, universally usable in all Airline rails Quantity: Default 1, Minimum 1 piece

Lashing strap package (2 straps)

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Standard L2 / Carrier Xarios 200T; Standard L2 / Thermo King V200 max 50; Standard L2 / Thermo King V200 max 20; Standard L2 / Thermo King V400X Max 20; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T; Maxi L3 / Carrier Xarios 200T; Maxi L3 / Thermo King V200 max 50; Maxi L3 / Thermo King V200 max 20; Maxi L3 / Thermo King V400X Max 20

Quantity: Default 1, Minimum 1 piece

DIN slot supplied by Kerstner if not fitted at the factory

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Standard L2 / Carrier Xarios 300T; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50; Maxi L3 / Carrier Xarios 300T

Position chosen at Kerstner’s discretion according to available cab space

Thermo King Touchlog Premium temperature recorder

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50

Blue Box Lite including installation

Optional · Suitable for: Standard L2 / Thermo King V300 max 20; Standard L2 / Thermo King V300 max 50; Maxi L3 / Thermo King V300 max 20; Maxi L3 / Thermo King V300 max 50

Kerstner GmbH
Werner-von-Siemens-Straße 9
68649 Groß-Rohrheim

+49 6245 90770-0
info@kerstner.de
www.kerstner.de