



Transport Refrigeration

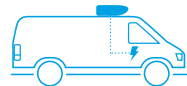
Transport Refrigeration

Catalogue 2022-2023



Table of Contents

| | | | |
|-----------------------------|-----------|--------------------|-----------|
| Daikin | 3 | Light Truck | 22 |
| Cold Chain Expertise | 4 | SFZ | |
| Vision 2050 | 5 | SFZ238 | 24 |
| Product Portfolio | 6 | SFZ248 | 24 |
| Van – Direct-Drive | 8 | SFZ238 Multi | 26 |
| Invisible Direct-Drive | | SFZ248 Multi | 26 |
| SFZ007 | 10 | Truck | 27 |
| SFZ008 | 10 | Uno | |
| SFZ009 | 10 | U600 | 28 |
| SFZ009 Multi | 10 | U800 | 28 |
| Zero Direct-Drive | | U1000 | 28 |
| Z200 | 12 | U800 Multi | 30 |
| Z250 | 12 | U1000 Multi | 30 |
| Z350 | 12 | Uno Undermount | |
| Z380 | 12 | UN120 | 32 |
| Z380 Multi | 14 | UN120 Multi | 32 |
| Van – Electric | 15 | Eutectic Inserts | 33 |
| Invisible Electric | | Trailer | 34 |
| SFZ009e | 16 | Exigo | 36 |
| SFZ009e Multi | 16 | Services | 40 |
| Zero Electric | | Service Network | 42 |
| Z120b | 18 | Service Contracts | 42 |
| Z200e | 20 | Telematics | 43 |
| Z250e | 20 | | |
| Z350e | 20 | | |
| Z350e Multi | 20 | | |



Daikin

Air is essential to our existence, and our role in protecting it continues to expand.

"Aiming for sustainable growth and a sustainable society through technological strength and outstanding human resources"
- Masanori Togawa, President and CEO, Daikin Industries, Ltd.

Since 1924, we have devoted ourselves with unbridled passion to overcome the ever-evolving challenges of air to become the leading manufacturer of heating, ventilation, air conditioning and refrigeration equipment. Leveraging our innovative technology, we deliver outstanding products and system solutions to provide comfortable and sustainable environments for all people and goods in all regions of the world. This is, and always will be, the Daikin mission.

Innovation means continuous improvement

We believe that there is always room for improvement, and this mindset is the driving force behind everything that we do at Daikin. From small advances in the production process, to major design breakthroughs that result in substantial energy savings, we aim to inspire technological change. With our regional development centres and global network of manufacturing and logistics facilities, we are serving the full breadth of HVACR needs of the world.

Our Promise

For forward thinking consumers and businesses, Daikin is the all-inclusive partner, ensuring your peace of mind. For our professional customers, our brand promise is **Reliability – Sustainability – Efficiency.**

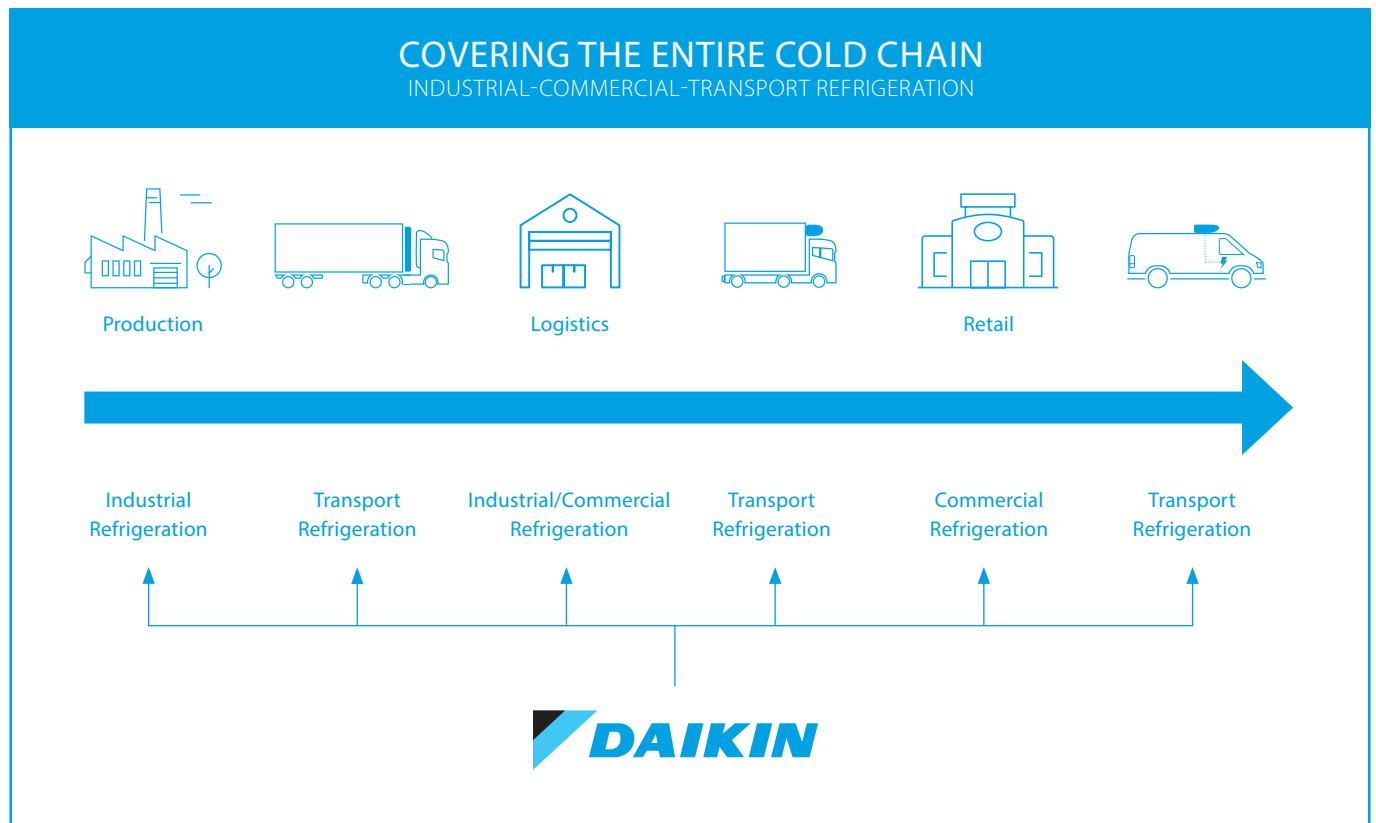


Cold Chain Expertise

From production to delivery

Reshaping the future of cold chain supply

Combining refrigeration expertise with innovative technology, Daikin's comprehensive product portfolio delivers integrated temperature control solutions that improve quality and safety through every link in the distribution process from point of origin to the final consumer. Our range of products and services provide the flexibility to meet diverse customer needs across a range of applications, during production, storage, retail and transit. Energy-efficient technologies with low-GWP refrigerants provide reliable and cost-effective operation, safeguarding perishable supplies, whatever the climate, while protecting the environment. We will leverage our strengths **to cover the entire cold chain.**



Vision 2050

Daikin Environmental Policy

Adopted in 2015, the Paris Agreement contains a target for the latter half of this century of reducing greenhouse gas emissions to net zero and limiting global warming by less than 2°C compared to pre-industrial levels. In the spirit of the Paris Agreement, Daikin has formulated Environmental Vision 2050, with a target of reducing greenhouse gas emissions to net zero by 2050. We have established a reduction target for 2030 and incorporated this into our efforts under the Fusion 25 Strategic Management Plan.

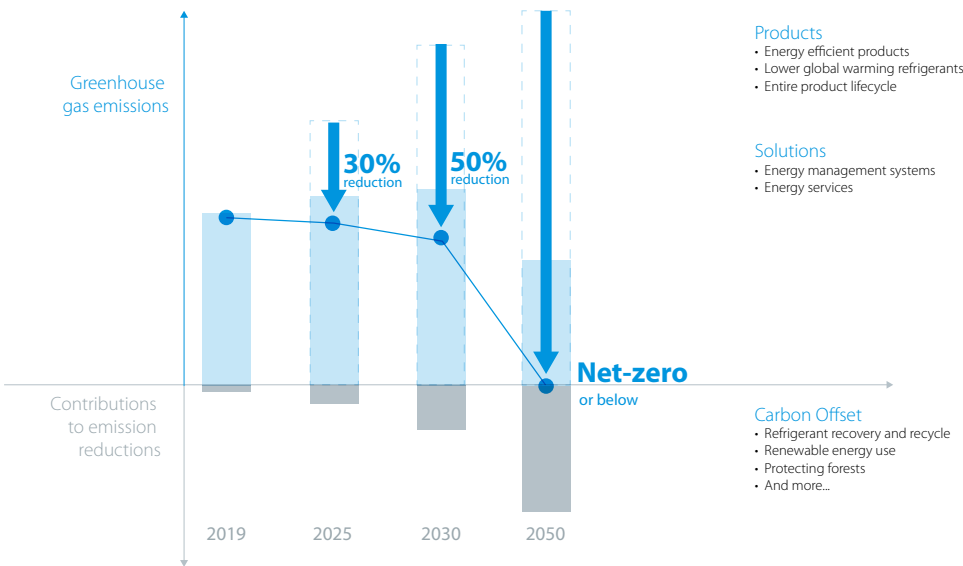
Our Vision 2050

We will effectively eliminate the greenhouse gas emissions generated throughout the entire lifecycle of our products by 2050. Furthermore, we are committed to creating solutions that link society and customers as we work with stakeholders to reduce greenhouse gas emissions to net-zero. Using IoT and open innovation, we will meet the world's needs for air solutions by providing safe and healthy air environments while at the same time contributing to solving global environmental problems.

Refrigeration Medium-Term Outlook

In our Cold Chain business, we are moving towards low-GWP and HFC-free natural refrigerants, while ensuring the correct safety standards are established in our markets. We maintain continuous focus on reducing the energy consumption of all our products. In the Transport Refrigeration industry, we will strive to lead the shift towards electrification and phasing-down of the reliance on combustion engine technologies.













Net-zero product lifecycle



Product Portfolio

Our transport refrigeration unit range offers reliable and efficient solutions for a wide range of applications and vehicle types. Each unit is designed to minimize your total cost of ownership, configured to your exact needs, manufactured to Daikin's rigorous quality standards, and supported with a service network available 24/7.

| VAN | | | |
|---|---|--|---|
| Direct-Drive | | Electric | |
| Invisible Direct-Drive | Zero Direct-Drive | Invisible Electric | Zero Electric |
|  |  |  |  |
|  |  |  |  |
| SFZ007 SFZ008 SFZ009 | Z200 Z250 Z350 Z380 | SFZ009e | Z120b Z200e Z250e Z350e |
|  |  |  |  |
| SFZ009 Multi | Z380 Multi | SFZ009e Multi | Z350e Multi |

| LIGHT TRUCK | TRUCK | | TRAILER |
|---|--|---|--|
| SFZ | Uno | Uno Undermount | Exigo |
|  <p>4,5m - 6,5m</p> |  <p>5m - 8,5m</p> |  <p>7m - 8,5m</p> |  <p>9m - 15m</p> |
|  |  |  |  |
| SFZ238 SFZ248 | U600 U800 U1000 | UN120 | E1500 |
|  |  |  | EUTECTIC INSERTS  |
| SFZ238 Multi SFZ248 Multi | U800 Multi U1000 Multi | UN120 Multi | Inpac Small Inpac Medium Inpac Large (Colour) |



A white van is shown from a front-quarter perspective, driving on a road. In the background, there is a blue bridge with a yellow arch. The sky is blue with some clouds. The van is on the left side of the frame, and the bridge is on the right side. The road has white and blue markings.

Van

Direct-Drive



Invisible Direct-Drive

SFZ007 | SFZ008 | SFZ009 | SFZ009 Multi

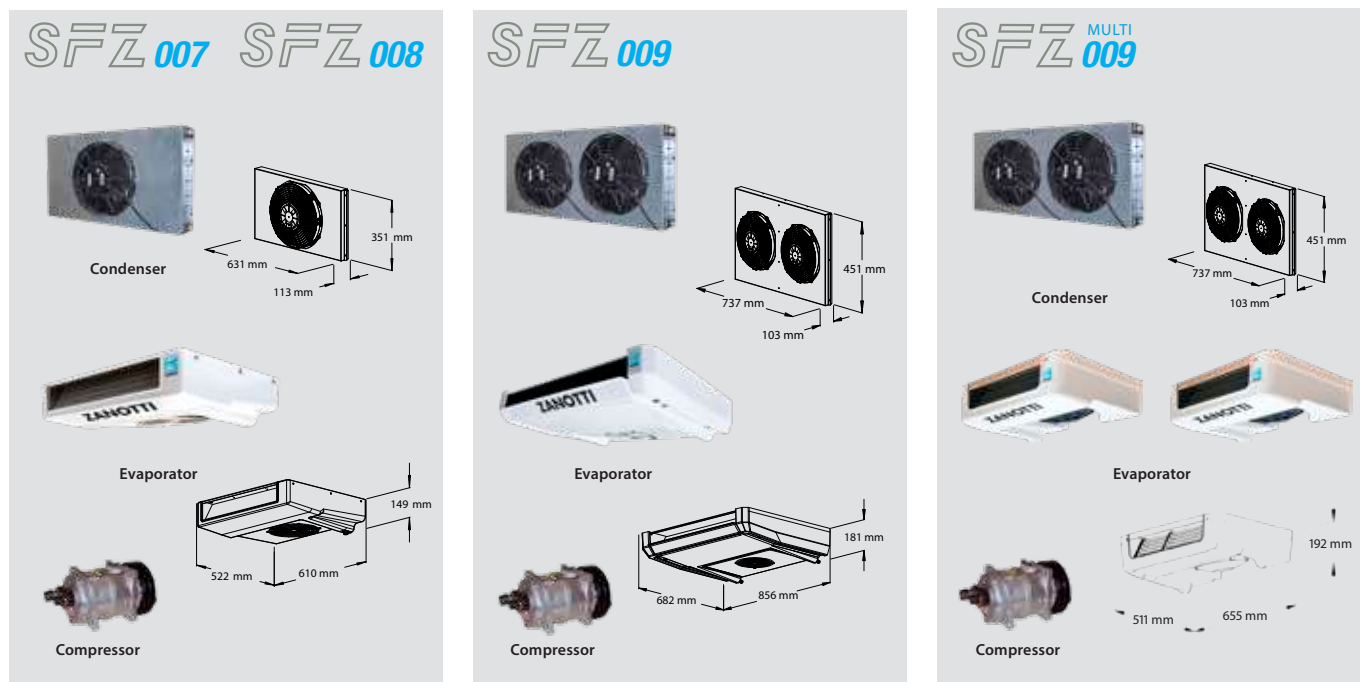
Our Invisible range is designed for discreet and efficient transportation of refrigerated products in vans. These units are installed underneath the vehicle chassis, completely invisible from the outside, preserving the aesthetics, original height and aerodynamics of the vehicle, while reducing bodywork. SFZ007, SFZ008 and SFZ009 offer varying refrigeration capacities and volume ratings tuned for different applications. SFZ009 Multi features dual evaporators to enable products with different temperature requirements to be transported in two separate zones.

The Invisible range, with its ultra-thin dimensions make it the ideal choice for customers who need a space-saving solution. A driver-friendly interface in the cabin allows real-time monitoring and control of the unit performance to ensure the cargo is maintained at precisely the right temperature throughout the trip.

Key Features:

- ✓ Multiple temperature zones in the same vehicle (Multi model only)
- ✓ Powered by direct-drive on road, electric grid on stand-by
- ✓ Vehicle access to tight underground areas
- ✓ Under-chassis mounting preserves vehicle aesthetics and aerodynamics
- ✓ Invisible from the outside
- ✓ Low noise
- ✓ User-friendly cabin driver interface
- ✓ Telematics-compatible
- ✓ 2-year standard warranty





| | | SFZ007 | SFZ008 | SFZ009 | SFZ009 Multi | | | | |
|--|--------|--------|--------|--------|--------------|------|-------|---------|-------|
| General | | | | | | | | | |
| Refrigerant | [-] | R134a | | R452A | | | | | |
| System net cooling capacity under ATP conditions (30°C ambient temperature) | | | | | | | | | |
| | [°C] | 0°C | -20°C | 0°C | -20°C | 0°C | -20°C | 0°C | -20°C |
| Road mode | [W] | 1790 | N/A | 2180 | 1090 | 3160 | 1828 | 2990 | 1580 |
| Stand-by mode | [W] | 1130 | N/A | 1580 | 800 | 2030 | 1124 | 1760 | 970 |
| Heating capacity | | | | | | | | | |
| Road mode | [W] | N/A | | 1890 | | 2790 | | 2640 | |
| Stand-by mode | [W] | N/A | | 1380 | | 1630 | | 1580 | |
| Airflow rate | | | | | | | | | |
| Airflow rate at 100kPa static pressure | [m³/h] | 620 | | 910 | | 840 | | 2x 620 | |
| Weight | | | | | | | | | |
| Condenser without electric stand-by | [kg] | 25 | | 38 | | 45 | | 45 | |
| Condenser with electric stand-by | [kg] | 50 | | 65 | | 75 | | 75 | |
| Evaporator | [kg] | 10 | | 14 | | 20,5 | | 2x 10,2 | |
| Road compressor | | | | | | | | | |
| Displacement | [cc] | 146 | | 146 | | 163 | | 163 | |

These products contain fluorinated greenhouse gases (R134a GWP=1430 / R452A GWP=2140,5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC or 24VDC

Provisional engineering data



Zero Direct-Drive

Z200 | Z250 | Z350 | Z380

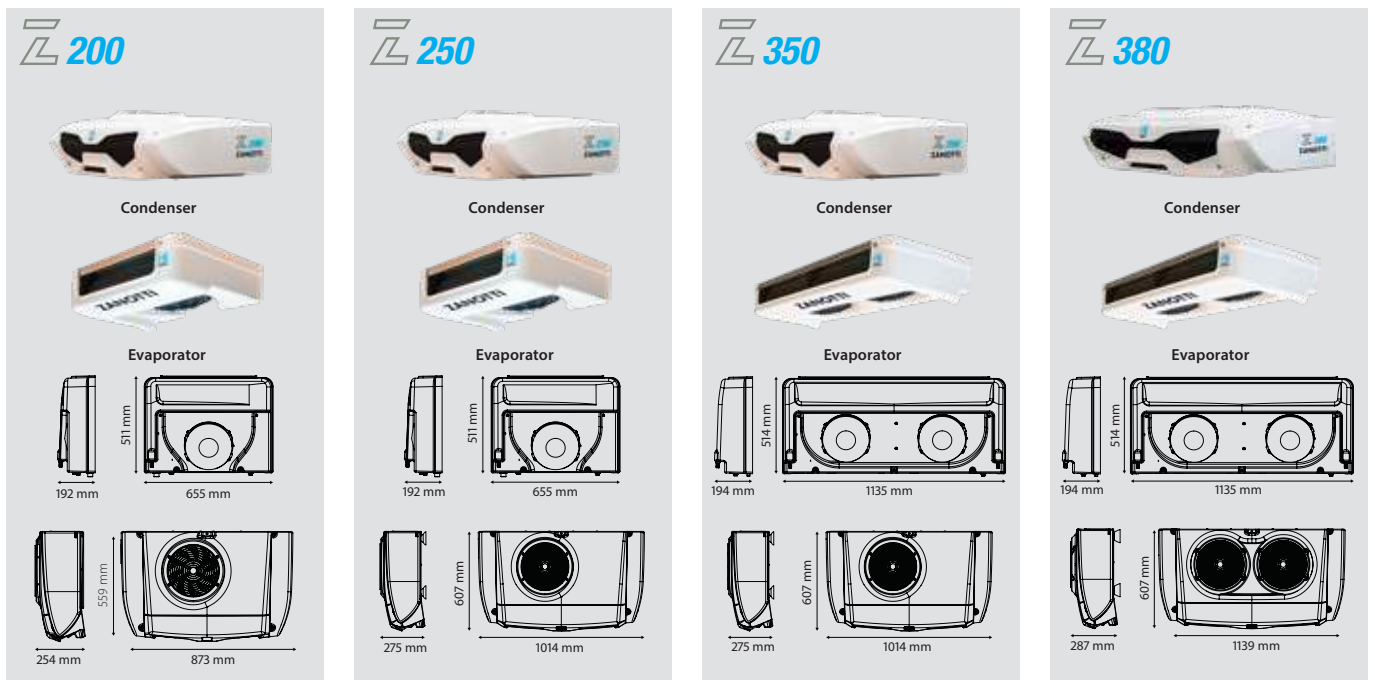
The Zero range meets the needs of the distribution industry by offering the utmost flexibility in the temperature management of refrigerated products. The extensive direct-drive Zero line-up including Z200, Z250, Z350, and Z380 is designed to meet a wide range of applications in light commercial vehicles.

All Zero models provide easy installation and serviceability. The condensing unit can be mounted on the roof or the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip. Our Zero units are setting new standards with their attractive design.

Key Features:

- ✓ Proven reliability and performance
- ✓ Powered by direct-drive on road, electric grid on stand-by
- ✓ Easy to install and service with removable side panels
- ✓ Configurable for a wide range of refrigerated applications in light commercial vehicles
- ✓ Low noise
- ✓ User-friendly cabin driver interface
- ✓ Reduced refrigerant charge and maintenance costs
- ✓ Telematics-compatible
- ✓ 2-year standard warranty





| | Z250 | Z380 | Z200 | Z250 | Z350 | Z380 | | | | | | | |
|--|--------|------|-------|-------|-------|------|-------|------|-------|------|-------|------|-------|
| General | | | | | | | | | | | | | |
| Refrigerant | R134a | | | R452A | | | | | | | | | |
| System net cooling capacity under ATP conditions (30°C ambient temperature) | | | | | | | | | | | | | |
| | [°C] | 0°C | -20°C | 0°C | -20°C | 0°C | -20°C | 0°C | -20°C | 0°C | -20°C | 0°C | -20°C |
| Road mode | [W] | 2140 | N/A | 2920 | N/A | 2220 | 1170 | 2680 | 1470 | 3350 | 1840 | 3800 | 2020 |
| Stand-by mode | [W] | 1130 | N/A | 1900 | N/A | 1500 | 700 | 2120 | 820 | 2240 | 890 | 2450 | 970 |
| Heating capacity | | | | | | | | | | | | | |
| Road mode | [W] | 1930 | 2620 | 2100 | 2500 | 3100 | 3300 | | | | | | |
| Stand-by mode | [W] | 1020 | 1710 | 1300 | 1900 | 2000 | 2200 | | | | | | |
| Airflow rate | | | | | | | | | | | | | |
| Airflow rate at 100kPa static pressure | [m³/h] | 650 | 1300 | 622 | 650 | 1300 | 1300 | | | | | | |
| Weight | | | | | | | | | | | | | |
| Condenser without electric stand-by | [kg] | 34 | 40 | 30 | 36 | 36 | 42 | | | | | | |
| Condenser with electric stand-by | [kg] | 70 | 78 | 56 | 72 | 72 | 80 | | | | | | |
| Evaporator | [kg] | 9 | 18 | 10,2 | 10,5 | 19,6 | 19,6 | | | | | | |
| Road compressor | | | | | | | | | | | | | |
| Displacement | [cc] | 146 | 163 | 131 | 131 | 146 | 146 | | | | | | |

These products contain fluorinated greenhouse gases (R134a GWP=1430 / R452A GWP=2140,5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC

Zero Direct-Drive Multi-Temp

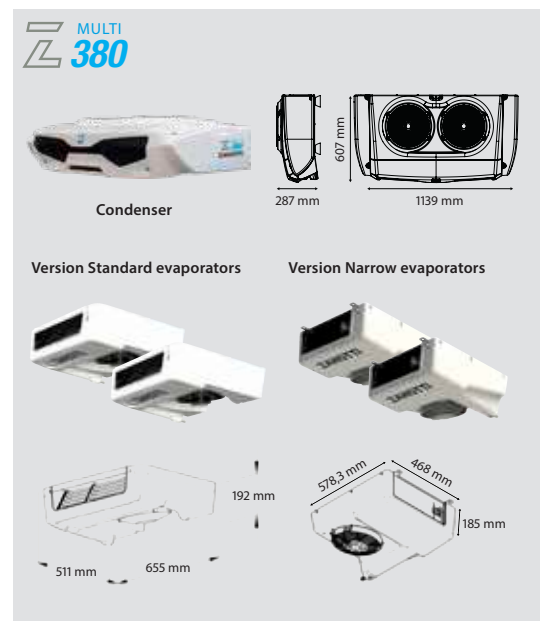
Z380 Multi

Z380 Multi and Z380 Multi (Narrow Evap) models are designed to meet the modern needs of low environmental impact refrigeration for light commercial vehicles. These units feature additional evaporators to enable transport of products with different temperature requirements in separate zones, available in multiple configurations to adapt to a wide range of applications.

All Zero models provide easy installation and serviceability. The condensing unit can be mounted on the roof or the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip. Our Zero units are setting new standards with their attractive design.

Key Features:

- ✓ Multiple temperature zones in the same vehicle
- ✓ Proven reliability and performance
- ✓ Powered by direct-drive on road, electric grid on stand-by
- ✓ Easy to install and service with removable side panels
- ✓ Configurable for a wide range of refrigerated applications in light commercial vehicles
- ✓ Low noise
- ✓ User-friendly cabin driver interface
- ✓ Reduced refrigerant charge and maintenance costs
- ✓ Telematics-compatible
- ✓ 2-year standard warranty



| | Z380 Multi | | Z380 Multi (Narrow Evap) | | |
|--|---------------------|---------|--------------------------|--------|-------|
| General | | | | | |
| Refrigerant | [-] | R452A | | | |
| System net cooling capacity under ATP conditions (30°C ambient temperature) | | | | | |
| | [°C] | 0°C | -20°C | 0°C | -20°C |
| Road mode | [W] | 3265 | 1655 | 3250 | 1310 |
| Stand-by mode | [W] | 2030 | 640 | 2420 | 1030 |
| Heating capacity | | | | | |
| Road mode | [W] | 3010 | | 2630 | |
| Stand-by mode | [W] | 1770 | | 1520 | |
| Airflow rate | | | | | |
| Airflow rate at 100kPa static pressure | [m ³ /h] | 2x 620 | | 2x 830 | |
| Weight | | | | | |
| Condenser without electric stand-by | [kg] | 42 | | 42 | |
| Condenser with electric stand-by | [kg] | 80 | | 80 | |
| Evaporator | [kg] | 2x 10,2 | | 2x 16 | |
| Road compressor | | | | | |
| Displacement | [cc] | 146 | | 146 | |

These products contain fluorinated greenhouse gases (R452A GWP=2140,5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC

Van Electric





Invisible Electric

SFZ009e | SFZ009e Multi

The Invisible Electric range is designed for discreet and efficient transportation of refrigerated products in vans on electric power, both on road and during stand-by. A highly reliable battery-inverter package supplies the power, making the Invisible Electric an ideal choice for full-electric, hybrid, or conventional vehicles.

These units are installed underneath the vehicle chassis, completely invisible from the outside, preserving the aesthetics, original height and aerodynamics of the vehicle, while reducing bodywork. SFZ009e offers varying refrigeration capacities and volume ratings tuned for different applications. SFZ009e Multi features dual evaporators to enable products with different temperature requirements to be transported in two separate zones.

The Invisible range, with its ultra-thin dimensions make it the ideal choice for customers who need a space-saving solution. A driver-friendly interface in the cabin allows real-time monitoring and control of the unit performance to ensure the cargo is maintained at precisely the right temperature throughout the trip.

Key Features:

- ✓ Zero emissions
- ✓ Powered by reliable battery-inverter pack on road, chargeable on electric grid
- ✓ Compatible with full-electric, hybrid or conventional vehicles
- ✓ Multiple temperature zones in the same vehicle (Multi model only)
- ✓ Vehicle access to tight underground areas
- ✓ Under-chassis mounting preserves vehicle aesthetics and aerodynamics
- ✓ Invisible from the outside
- ✓ Low noise
- ✓ User-friendly cabin driver interface
- ✓ Telematics-compatible
- ✓ 2-year standard warranty



| | | SFZ009e | SFZ009e Multi | | |
|--|--------|---------|---------------|---------|-------|
| General | | | | | |
| Refrigerant | [-] | R452A | | | |
| System net cooling capacity under ATP conditions (30°C ambient temperature) | | | | | |
| | [°C] | 0°C | -20°C | 0°C | -20°C |
| Battery mode | [W] | 2030 | 1124 | 1760 | 970 |
| Heating capacity | | | | | |
| Battery mode | [W] | 1650 | | 1580 | |
| Airflow rate | | | | | |
| Airflow rate at 100kPa static pressure | [m³/h] | 840 | | 2x 620 | |
| Weight | | | | | |
| Condenser with electric stand-by | [kg] | 75 | | 75 | |
| Evaporator | [kg] | 20,5 | | 2x 10,2 | |
| Max current | | | | | |
| | [A] | 165 | | 170 | |

These products contain fluorinated greenhouse gases (R452A GWP=2140,5).
 Stand-by voltages available: 230/1/50 or 400/3/50
 Vehicle voltages available: 12VDC or 24VDC

Zero Electric

Z120b

Z120b is powered by the vehicle battery, with minimal environmental impact and maximum cooling effectiveness ideal for refrigerated transport in vans. The unit can be installed quickly without any mechanical couplings with the vehicle engine, which also minimises power draw and thus emissions.

All Zero models provide easy installation and serviceability. The condensing unit can be mounted on the roof or the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.



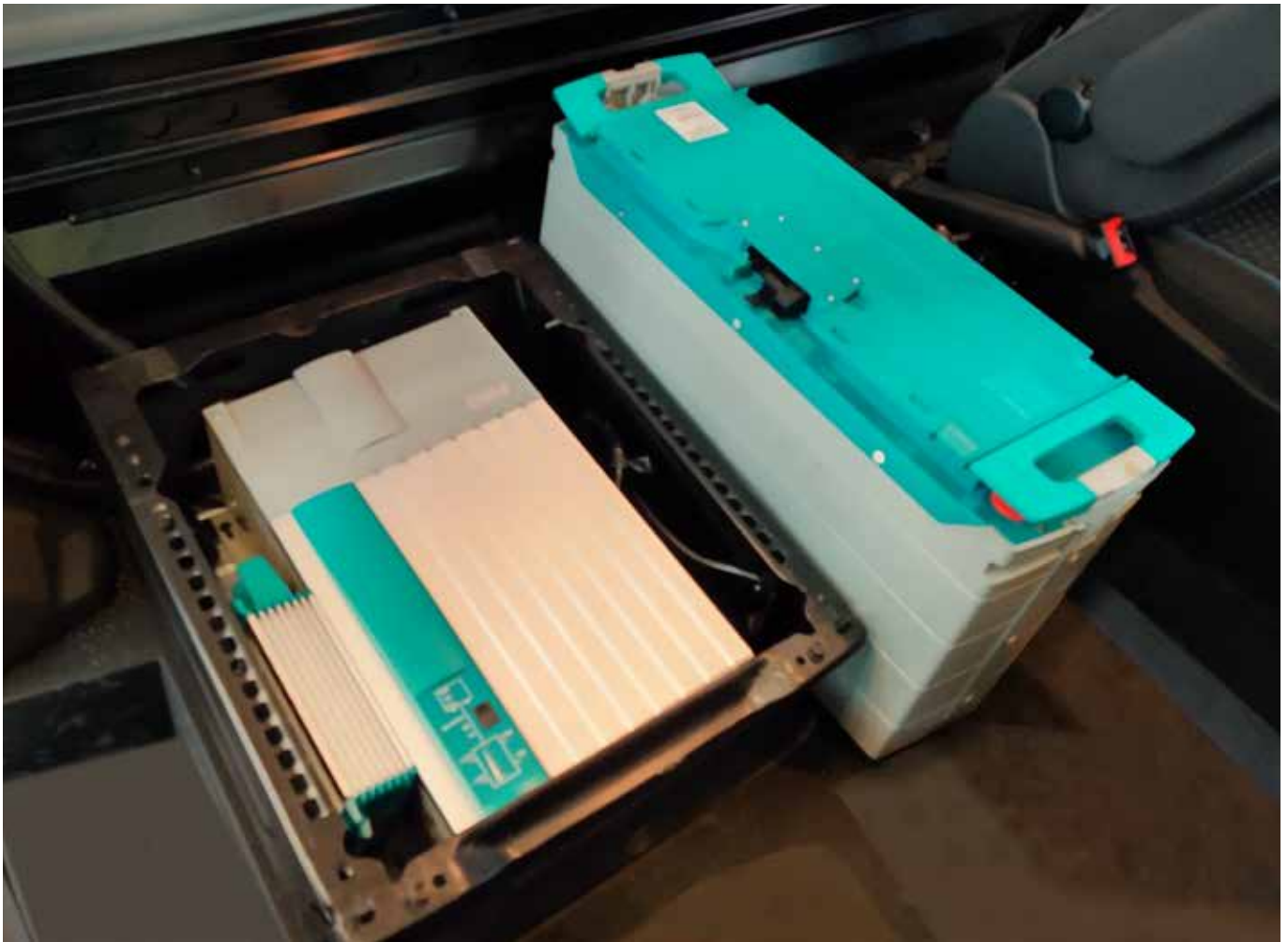
Key Features:

- ✓ Low emissions
- ✓ Proven reliability and performance
- ✓ Powered by vehicle battery on road, electric grid on stand-by
- ✓ Compatible with full-electric, hybrid or conventional vehicles
- ✓ Easy to install and service with removable side panels
- ✓ Low noise
- ✓ User-friendly cabin driver interface
- ✓ Reduced refrigerant charge and maintenance costs
- ✓ Telematics-compatible
- ✓ 2-year standard warranty, extendable up to 5 years



| | | Z120b | |
|--|----------|--------------|-------|
| General | | | |
| Refrigerant | [-] | R452A | |
| System net cooling capacity under ATP conditions (30°C ambient temperature) | | | |
| | [°C] | 0°C | -20°C |
| Battery mode | [W] | 1300 | 550 |
| Heating capacity | | | |
| Battery mode | [W] | 1100 | |
| Airflow rate | | | |
| Airflow rate at 100kPa static pressure | [m³/h] | 560 | |
| Weight | | | |
| Condenser with electric stand-by | [kg] | 64 | |
| Evaporator | [kg] | 10,2 | |
| Max current | | | |
| | [A] | 75 | |

This product contains fluorinated greenhouse gases (R452A GWP=2140,5).
 Stand-by voltages available: 230/1/50 or 400/3/50
 Vehicle voltages available: 12VDC



Electric Power Supply

Our power supply packages are designed to match our Invisible Electric and Zero Electric ranges, providing a high level of reliability and customization for the specific vehicle and application needs.

The power supply can be configured as one or two DC lithium-ion batteries, each providing 1,25 to 5,5kW, up to 11kW total; and comes with a robust inverter battery charger.

Key Features:

- ✓ Zero emissions
- ✓ Zero maintenance
- ✓ Automotive-grade design with high reliability
- ✓ Long life with 3500 cycles
- ✓ Fast charging
- ✓ 230VAC power for charging and stand-by operation
- ✓ Bluetooth connection with smartphone app
- ✓ Compatible with telematics, for remote battery monitoring
- ✓ Optional connection to vehicle DC battery for supplementary power supply
- ✓ Optional auxiliary input for external power supply



Battery Charger
Z120b only



Inverter Battery Charger
SFZ009e / Z200e / Z250e /
Z350e / Z350e Multi



Zero Electric

Z200e | Z250e | Z350e | Z350e Multi

The Zero range meets the needs of the distribution industry by offering the utmost flexibility in the temperature management of refrigerated products. Zero Electric is designed to meet a wide range of applications in light commercial vehicles on electric power, both on road and during stand-by. A highly reliable battery-inverter package supplies the power, making Zero Electric an ideal choice for full-electric, hybrid, or conventional vehicles.

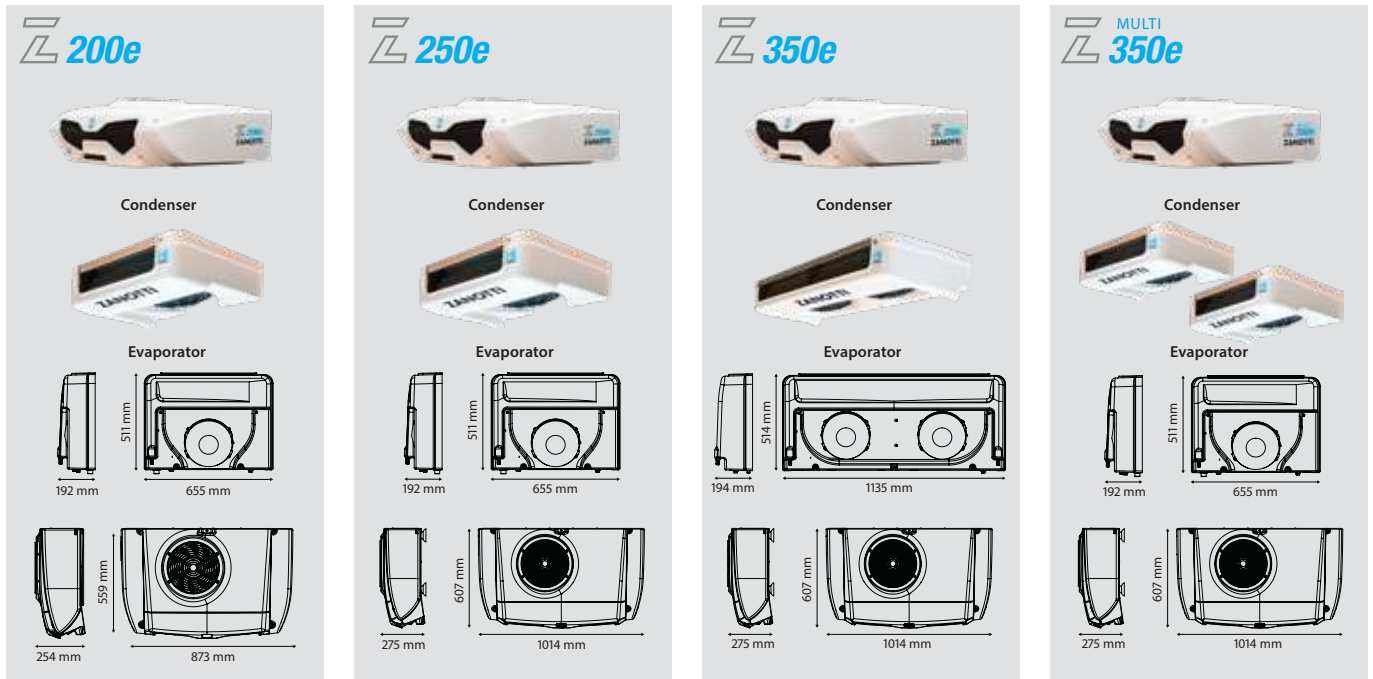
Z200e, Z250e and Z350e offer varying refrigeration capacities and volume ratings tuned for different applications. Z350e Multi features additional evaporators to enable transport of products with different temperature requirements in separate zones.

All Zero models provide easy installation and serviceability. The condensing unit can be installed as top-mount on the roof of the box or nose-mount on the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip. Our Zero units are setting new standards with their attractive design.

Key Features:

- ✓ Zero emissions
- ✓ Powered by reliable battery-inverter pack on road, chargeable on electric grid
- ✓ Compatible with full-electric, hybrid or conventional vehicles
- ✓ Multiple temperature zones in the same vehicle (Multi model only)
- ✓ Proven reliability and performance
- ✓ Easy to install and service with removable side panels
- ✓ Low noise
- ✓ Configurable for a wide range of refrigerated applications in light commercial vehicles
- ✓ User-friendly cabin driver interface
- ✓ Reduced refrigerant charge and maintenance costs
- ✓ Telematics-compatible
- ✓ 2-year standard warranty





| | Z200e | Z250e | Z350e | Z350e Multi | | | | | |
|--|-----------|-------|-------|-------------|---------|------|-------|------|-------|
| General | | | | | | | | | |
| Refrigerant | [-] R452A | | | | | | | | |
| System net cooling capacity under ATP conditions (30°C ambient temperature) | | | | | | | | | |
| | [°C] | 0°C | -20°C | 0°C | -20°C | 0°C | -20°C | 0°C | -20°C |
| Battery mode | [W] | 1495 | 695 | 1735 | 955 | 1880 | 1045 | 1940 | 830 |
| Heating capacity | | | | | | | | | |
| Battery mode | [W] | 1200 | 1500 | 1650 | 1600 | | | | |
| Airflow rate | | | | | | | | | |
| Airflow rate at 100kPa static pressure | [m³/h] | 620 | 650 | 1300 | 2x 620 | | | | |
| Weight | | | | | | | | | |
| Condenser with electric stand-by | [kg] | 54 | 70 | 70 | 70 | | | | |
| Evaporator | [kg] | 10,2 | 10,5 | 19,6 | 2X 10,2 | | | | |
| Max current | | | | | | | | | |
| | [A] | 100 | 159 | 166 | 171 | | | | |

These products contain fluorinated greenhouse gases (R452A GWP=2140,5).
 Stand-by voltages available: 230/1/50 or 400/3/50
 Vehicle voltages available: 12VDC or 24VDC



Light Truck





SFZ

SFZ238 | SFZ248

SFZ is a robust direct-drive solution for refrigerated transport on light to medium trucks. It is a proven design optimized for energy-efficiency, low noise, and easy-to-service transport of temperature-controlled goods in medium sized boxes.

SFZ238 and SFZ248 are designed as nose-mount, installed on the front wall of the box, with multiple configurations of evaporators and fans to meet the requirements of a wide range of vehicle types and applications. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

Key Features:

- ✓ Proven reliability and performance
- ✓ Powered by direct-drive on road, electric grid on stand-by
- ✓ Easy to install and service, light weight
- ✓ Low noise
- ✓ Configurable for a wide range of refrigerated applications in light to medium trucks
- ✓ User-friendly cabin driver interface
- ✓ Telematics-compatible
- ✓ 2-year standard warranty





| | | SFZ238 | SFZ248 | | |
|--|---------------------|--------|--------|------|-------|
| General | | | | | |
| Refrigerant | [-] | R452A | | | |
| System net cooling capacity under ATP conditions (30°C ambient temperature) | | | | | |
| | [°C] | 0°C | -20°C | 0°C | -20°C |
| Road mode | [W] | 4700 | 2470 | 5100 | 2570 |
| Stand-by mode | [W] | 3830 | 2010 | 4405 | 2005 |
| Heating capacity | | | | | |
| Road mode | [W] | 3990 | | 4540 | |
| Stand-by mode | [W] | 3310 | | 2800 | |
| Airflow rate | | | | | |
| Airflow rate at 100kPa static pressure | [m ³ /h] | 1670 | | 3340 | |
| Weight | | | | | |
| Condenser without electric stand-by | [kg] | 70 | | 77 | |
| Condenser with electric stand-by | [kg] | 128 | | 143 | |
| Evaporator | [kg] | 26,5 | | 42,5 | |
| Road compressor | | | | | |
| Displacement | [cc] | 163 | | 215 | |

These products contain fluorinated greenhouse gases (R452A GWP=2140,5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC or 24VDC

SFZ Multi-Temp

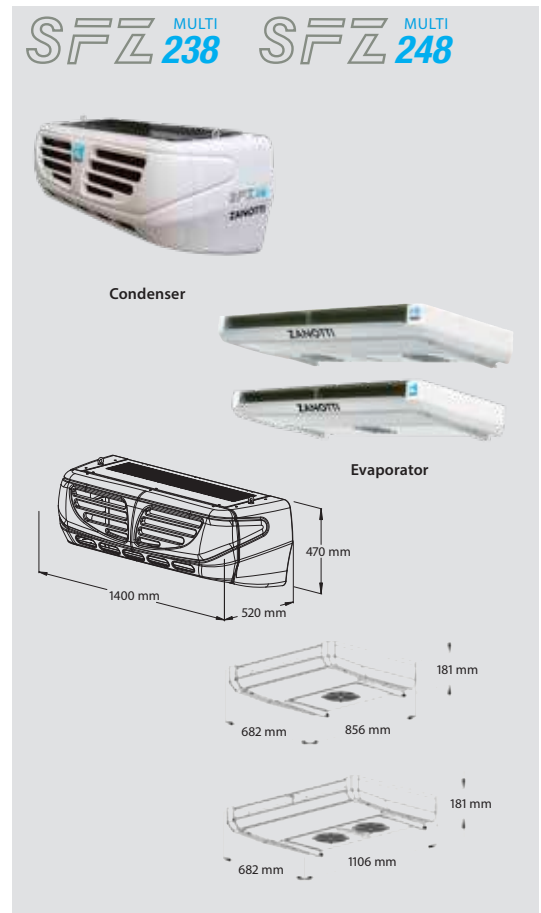
SFZ238 Multi | SFZ248 Multi

Our SFZ Multi-Temp range is designed to meet the modern needs of refrigeration for light to medium trucks. These units feature additional evaporators to enable transport of products with different temperature requirements in separate zones, available in multiple configurations to adapt to a wide range of applications. It is a proven design optimized for energy-efficiency, low noise, and easy-to-service transport of temperature-controlled goods in medium-sized boxes.

SFZ238 Multi and SFZ248 Multi are designed as nose-mount, installed on the front wall of the box. A driver-friendly interface in the cabin allows real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

Key Features:

- ✓ Multiple temperature zones in the same vehicle
- ✓ Proven reliability and performance
- ✓ Powered by direct-drive on road, electric grid on stand-by
- ✓ Easy to install and service, lightweight
- ✓ Low noise
- ✓ Configurable for a wide range of refrigerated applications in light to medium trucks
- ✓ User-friendly cabin driver interface
- ✓ Telematics-compatible
- ✓ 2-year standard warranty



| | SFZ238 Multi | | SFZ248 Multi | | |
|--|---------------------|--------|--------------|---------|-------|
| General | | | | | |
| Refrigerant | [-] | R452A | | | |
| System net cooling capacity under ATP conditions (30°C ambient temperature) | | | | | |
| | [°C] | 0°C | -20°C | 0°C | -20°C |
| Road mode | [W] | 4240 | 2135 | 5080 | 2560 |
| Stand-by mode | [W] | 3570 | 1635 | 4130 | 2020 |
| Heating capacity | | | | | |
| Road mode | [W] | 3850 | | 4430 | |
| Stand-by mode | [W] | 3230 | | 3610 | |
| Airflow rate | | | | | |
| Airflow rate at 100kPa static pressure | [m ³ /h] | 2x 835 | | 2x 1670 | |
| Weight | | | | | |
| Condenser without electric stand-by | [kg] | 70 | | 77 | |
| Condenser with electric stand-by | [kg] | 128 | | 143 | |
| Evaporator | [kg] | 2x | | 2x | |
| Road compressor | | | | | |
| Displacement | [cc] | 163 | | 215 | |

These products contain fluorinated greenhouse gases (R452A GWP=2140,5).

Stand-by voltages available: 230/1/50 or 400/3/50

Vehicle voltages available: 12VDC or 24VDC

■ Provisional engineering data

Truck





Uno

U600 | U800 | U1000

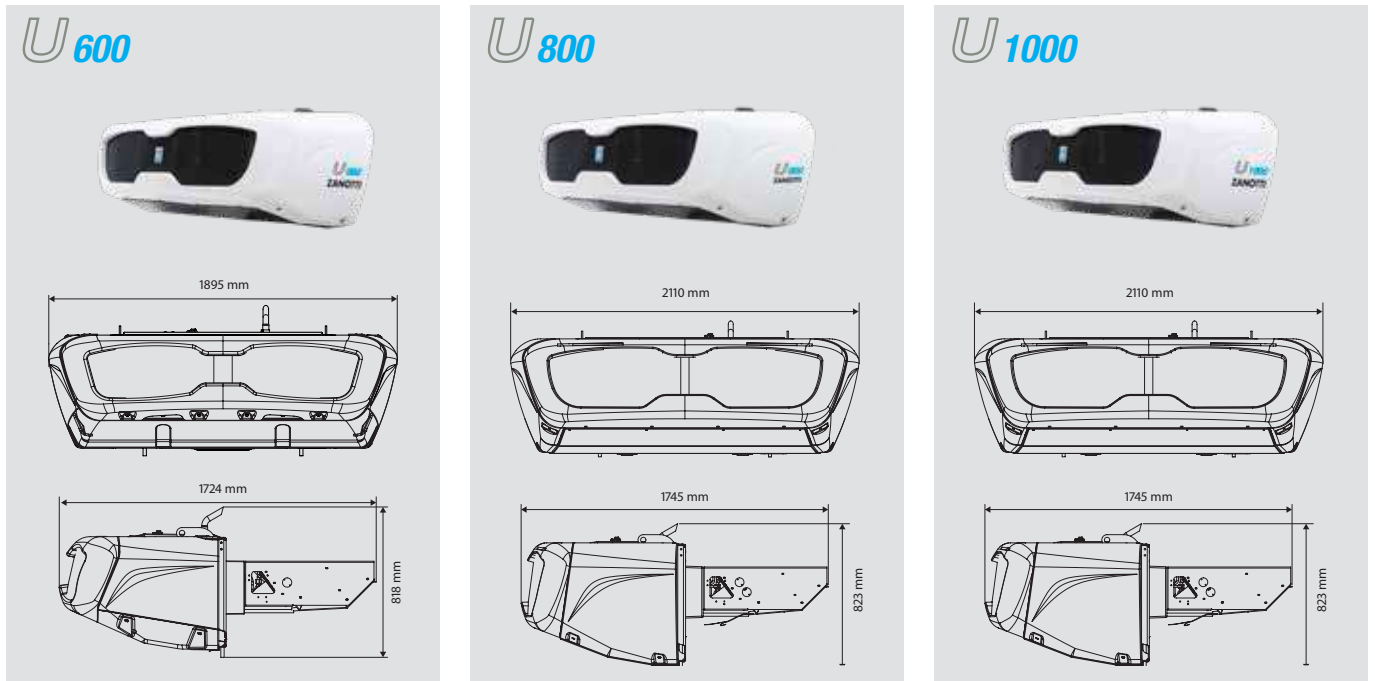
The redesigned Uno range of units are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in medium to heavy trucks. The Uno features Zanotti's innovative direct coupling design between the engine and the compressor, and utilize Daikin's expertise in design for reliability and performance. Their high cooling performance, energy efficiency and extended maintenance intervals minimise the total cost of ownership, while meeting the most stringent emission, material waste, and noise pollution regulations.

U600, U800, and U1000 are designed as nose-mount, installed on the front wall of the box. The electronics enabled advanced diagnostics and two-way telematics including remote monitoring and control. A robust interface in the cabin can be installed in the vehicle DIN slot or mounted on the dash, allowing real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

Key Features:

- ✓ Designed for high reliability with a custom Yanmar engine
- ✓ Innovative powertrain design enabling high performance and energy efficiency
- ✓ Reduced fuel consumption and noise
- ✓ Extended maintenance intervals
- ✓ All-new electronics compatible with two-way telematics
- ✓ 2-year standard warranty





| | | U600 | U800 | U1000 | | | |
|--|--------|-----------------|-------|-------|-------|-------|-------|
| General | | | | | | | |
| Refrigerant | [-] | R452A | | | | | |
| Defrost | [-] | Hot gas defrost | | | | | |
| System net cooling capacity under ATP conditions (30°C ambient temperature) | | | | | | | |
| | [°C] | 0°C | -20°C | 0°C | -20°C | 0°C | -20°C |
| Road mode | [W] | 6200 | 3200 | 8600 | 4700 | 10000 | 5700 |
| Stand-by mode | [W] | 3700 | 1700 | 6500 | 3500 | 8300 | 4500 |
| Heating capacity | | | | | | | |
| Road mode | [W] | 5400 | | 7500 | | 8700 | |
| Stand-by mode | [W] | 3200 | | 5700 | | 7200 | |
| Airflow rate | | | | | | | |
| Airflow rate at 100kPa static pressure | [m³/h] | 1500 | | 2200 | | 2500 | |
| Weight | | | | | | | |
| Monoblock road and stand-by | [kg] | 485 | | 500 | | 549 | |
| Monoblock road-only | [kg] | 435 | | 455 | | 504 | |
| Diesel engine | | | | | | | |
| Displacement | [cc] | 854 | | 1116 | | 1116 | |
| Rated power output | [kW] | 11,5 | | 15,1 | | 15,1 | |
| Maintenance interval | [hrs] | 2000 | | 2000 | | 2000 | |
| Road compressor | | | | | | | |
| Displacement | [cc] | 235 | | 325 | | 390 | |
| Stand-by compressor | | | | | | | |
| Displacement | [m³/h] | 11,3 | | 14,4 | | 21,4 | |

These products contain fluorinated greenhouse gases (R452A GWP=2140,5).
Stand-by voltages available: 400/3/50



Uno

U800 Multi | U1000 Multi

The redesigned Uno range of units are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in medium to heavy trucks. The Uno features Zanotti's innovative direct coupling design between the engine and the compressor, and utilise Daikin's expertise in design for reliability and performance. Their high cooling performance, energy efficiency and extended maintenance intervals minimise the total cost of ownership, while meeting the most stringent emission, material waste, and noise pollution regulations.

U800 Multi and U1000 Multi are designed as nose-mount, installed on the front wall of the box, with multiple configurations of evaporators and fans to meet the requirements of a wide range of vehicle types and applications. The electronics enabled advanced diagnostics and two-way telematics including remote monitoring and control. A robust interface in the cabin can be installed in the vehicle DIN slot or mounted on the dash, allowing real-time monitoring and control of unit performance to ensure goods are maintained at precisely the right temperature throughout the trip.

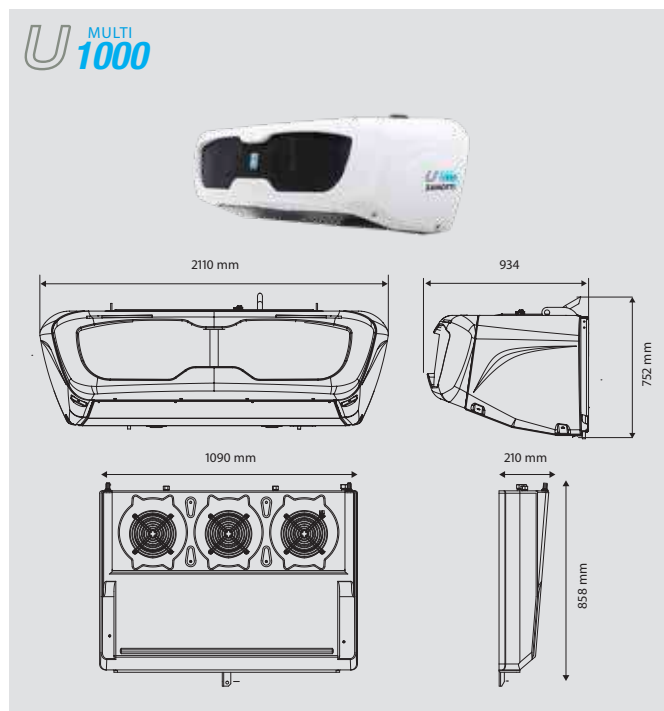
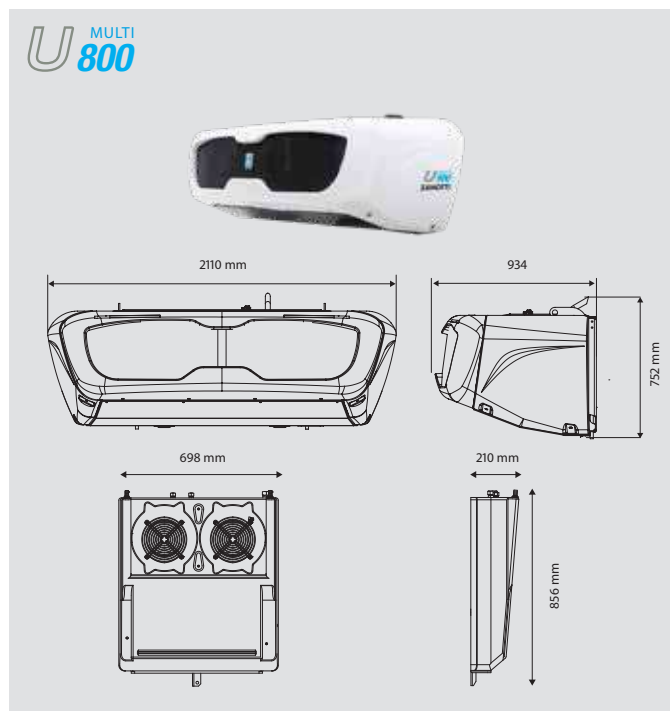
Key Features:

- ✓ Multiple temperature zones in the same vehicle
- ✓ Designed for high reliability with a custom Yanmar engine
- ✓ Innovative powertrain design enabling high performance and energy efficiency
- ✓ Reduced fuel consumption and noise
- ✓ Extended maintenance intervals
- ✓ All-new electronics compatible with two-way telematics
- ✓ 2-year standard warranty, extendable up to 5 years



The all-new Uno cabin controller is modern technology in a robust build.

U800 Multi | U1000 Multi



| | | U800 Multi | | U1000 Multi | |
|--|---------------------|-----------------|-------|-------------|-------|
| General | | | | | |
| Refrigerant | [-] | R452A | | | |
| Defrost | [-] | Hot gas defrost | | | |
| System net cooling capacity under ATP conditions (30°C ambient temperature) | | | | | |
| | [°C] | 0°C | -20°C | 0°C | -20°C |
| Road mode | [W] | 7970 | 4140 | 9800 | 5400 |
| Stand-by mode | [W] | 6050 | 3075 | 8700 | 4500 |
| Heating capacity | | | | | |
| Road mode | [W] | 7300 | | 8500 | |
| Stand-by mode | [W] | 4900 | | 7600 | |
| Airflow rate | | | | | |
| Airflow rate at 100kPa static pressure | [m ³ /h] | 2x 1680 | | 2x 2520 | |
| Weight | | | | | |
| Split road and stand-by | [kg] | 500 | | 505 | |
| Monoblock road-only | [kg] | 460 | | 465 | |
| Evaporator | [kg] | 35 x 2 | | 40 x 2 | |
| Diesel engine | | | | | |
| Displacement | [cc] | 1116 | | 1116 | |
| Rated power output | [kW] | 13,2 | | 13,2 | |
| Maintenance interval | [hrs] | 2000 | | 2000 | |
| Road compressor | | | | | |
| Displacement | [cc] | 325 | | 390 | |
| Stand-by compressor | | | | | |
| Displacement | [m ³ /h] | 14,4 | | 21,4 | |

These products contain fluorinated greenhouse gases (R452A GWP=2140,5).
Stand-by voltages available: 400/3/50

Uno Undermount

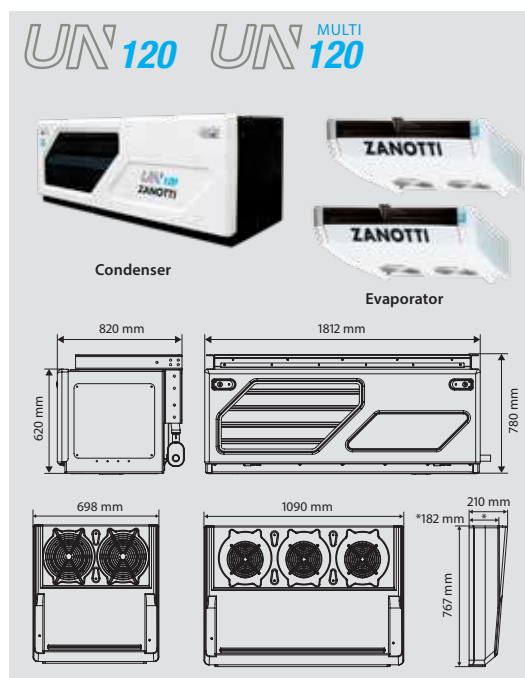
UN120 | UN120 Multi

Uno Undermount models are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in heavy trucks. The units feature Zanotti's innovative direct coupling design between the engine and the compressor.

UN120 and UN120 Multi are undermount units designed to be installed under the box. UN120 Multi features additional evaporators to enable transport of products with different temperature requirements in separate zones. A driver-friendly interface in the cabin enables them to monitor and modify performance to ensure it is kept at precisely the right temperature throughout the trip.

Key Features:

- ✓ Multiple temperature zones in the same vehicle (Multi model only)
- ✓ Designed for high reliability with a custom Yanmar engine
- ✓ Innovative powertrain design enabling high performance and energy efficiency
- ✓ Reduced fuel consumption and noise
- ✓ Telematics-compatible
- ✓ 2-year standard warranty



| | | UN120 | UN120 Multi | | |
|--|--------|-----------------|-------------|---------|-------|
| General | | | | | |
| Refrigerant | [-] | R452A | | | |
| Defrost | [-] | Hot gas defrost | | | |
| System net cooling capacity under ATP conditions (30°C ambient temperature) | | | | | |
| | [°C] | 0°C | -20°C | 0°C | -20°C |
| Road mode | [W] | 11500 | 6200 | 10600 | 5700 |
| Stand-by mode | [W] | 8200 | 4200 | 7500 | 3900 |
| Heating capacity | | | | | |
| Road mode | [W] | 10000 | | 9500 | |
| Stand-by mode | [W] | 7100 | | 6700 | |
| Airflow rate | | | | | |
| Airflow rate at 100kPa static pressure | [m³/h] | 4500 | | 2x 2520 | |
| Weight | | | | | |
| Condensing unit road and stand-by | [kg] | 510 | | 510 | |
| Condensing unit road-only | [kg] | 475 | | 475 | |
| Evaporators | [kg] | 40 | | 40 x 2 | |
| Diesel engine | | | | | |
| Displacement | [cc] | 1116 | | 1116 | |
| Rated power output | [kW] | 13,2 | | 13,2 | |
| Maintenance interval | [hrs] | 2000 | | 2000 | |
| Road compressor | | | | | |
| Displacement | [cc] | 390 | | 390 | |
| Stand-by compressor | | | | | |
| Displacement | [m³/h] | 21,4 | | 21,4 | |

These products contain fluorinated greenhouse gases (R452A GWP=2140,5).
Stand-By voltages available: 400/3/50

Eutectic Inserts

Inpacs Small | Medium | Large

Our Hubbard branded Inpacs are specifically designed for low-cost chilling or freezing where mechanical refrigeration is not practical. They are available in a range of sizes to suit all styles of last mile delivery requirements.

Inpac inserts contain a eutectic solution which has a pre-determined freezing temperature. Cooling preparation is achieved by placing the inserts for a minimum of 12 hours prior to use in a freezer cabinet, cold store or dedicated facility capable of cooling to 8°C below the required holding temperature.

Our patented phase change material features superior energy density, delivering 33% more energy storage than existing products, extending the cargo storage time. With suitable levels of insulation, an Inpac can maintain temperature within a delivery container for up to 4 hours.

Inpacs are designed to be easy to identify in the cooling preparation area, even when stacked in large quantities. Large Inpacs are colour-coded, and designed to stack on top of each other and feature raised 'lugs' to create the optimal airflow between them during the cooling preparation process.

Hubbard Inpacs are manufactured from a durable polyester plastic to resist damage in the workplace. The units are reusable with minimum maintenance, and are classified as long-life items.

Key Features:

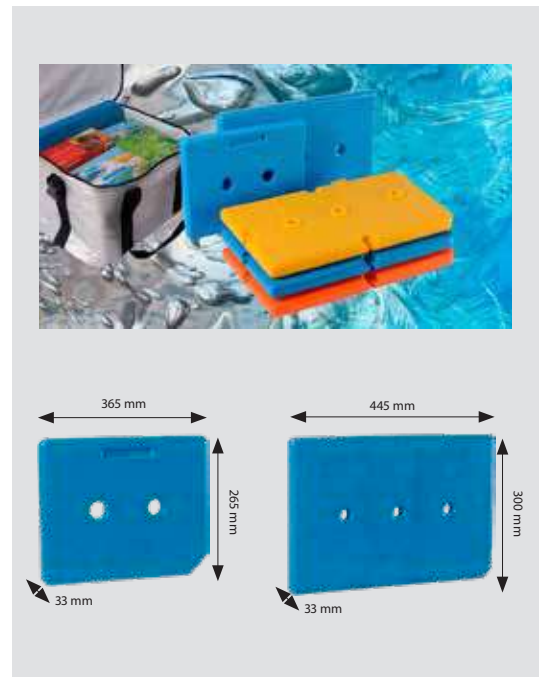
- ✓ Patented eutectic solution delivers 33% more energy storage
- ✓ Maintain temperature up to 4 hours in delivery container
- ✓ Available in three sizes
- ✓ Colour-coded for dispatch schedules or temperature requirement
- ✓ Versatile, low-cost chilling or freezing
- ✓ Virtually maintenance free
- ✓ One-piece moulding – wipe clean smooth surfaces for greater hygiene
- ✓ Lightweight and robust – built for everyday use without risk of leakage

Application examples

- › Blood products › Frozen Food › Sandwiches › Cakes › Flowers › Ice Cream
- › Vegetables › Chilled Food › Fish › Display cabinets › Milk › Dairy products
- › Pies › Meat

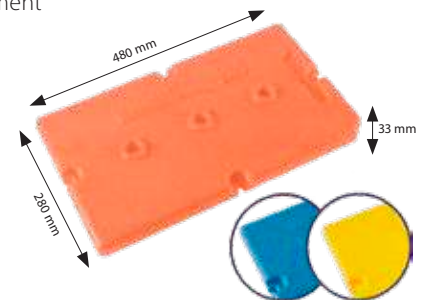
Typical Users

- › Caterers › Local authorities › Butchers › Railway and Airline catering
- › Electric Vehicle operators › Home Delivery › Hospitals › Bakers › Restaurants
- › Hotels › Dairy Industry › Sandwich Suppliers › Ice Cream Vendors



Inpacs Large in Colour

Colour coded for dispatch schedules or temperature requirement



| Refrigeration Capacity | | Inpac Small | Inpac Medium | Inpac Large |
|-------------------------|-----|-------------|--------------|-------------|
| Chill -3°C | [W] | 200 | 290 | 290 |
| Frozen -15°C | [W] | 162 | 232 | 232 |
| Dimensions (wxhxd) [mm] | | 365x265x30 | 445x300x33 | 480x280x33 |



Typical chill container



Typical freeze container



Trailer





Exigo E1500

Daikin Exigo E1500 is the reflection of our legacy in innovation, reliability, and transport refrigeration expertise.

E1500 is the pinnacle of diesel-powered refrigeration, built on an electric-ready platform.

Exigo offers minimum total cost of ownership and maximum peace of mind

- › Full variable speed achieving lower fuel consumption than fixed speed units
- › Electric architecture providing 15kW true capacity both on the road and the grid
- › Highest cooling power of the category in frozen applications
- › Ease of unit operation with high resolution graphical user interface
- › Ease of fleet management via advanced telematics, compatible across platforms
- › Daikin components with proven reliability and lightweight design (over 100kg lighter)
- › Low-noise as standard, PIEK available
- › Reduced maintenance downtime with 3000h service interval as standard
- › 2-year warranty, telematics and maintenance coverage included as standard
- › EMEA sales and service network backed by Daikin



High resolution graphical user interface



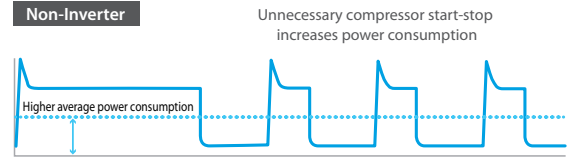
Advanced telematics included as standard



INVERTER



Non-Inverter



Inverter reduces power and fuel consumption by eliminating unnecessary compressor start-stop

| Specifications* | |
|---|--|
| Cooling Capacity 30/0°C (W) - Road and Grid | 15000 |
| Cooling Capacity 30/-20°C (W) - Road and Grid | 8800 |
| Heating Capacity -20/+2°C (W) - Road and Grid | 10500 |
| Air Flow Rate Evaporator at Max Pulldown (m³/h) | 5500 |
| Engine | Kubota Custom Diesel Engine 1500 cc / 4 Cylinders NRMM Stage V Compliant |
| Generator | 15kW / 400V 3P 50Hz / Direct Drive |
| Compressor | Custom Scroll Compressor / Economizer / Inverter |
| Variable Speed Components | Compressor / Evaporator Fans / Condenser Fans |
| Temperature Zones | Single |
| Controller | Daikin PCB |
| User Interface | 7" High Resolution LCD |
| Refrigerant | R452A |
| Weight (kg) | 700 |
| Unit Dimensions W x H x D (mm) | 2072 x 2227 x 440 |
| Low Noise | PIEK as option |
| Maintenance Interval (h) | 3000 |
| Connectivity | Telematics with 2-year contract included |
| Maintenance | Maintenance with 2-year contract included |

* Provisional engineering data





Coming soon

EXIGO *electric*



DAIKIN
Transport Refrigeration

Services



Service Network

Our continuously growing European service network, extending to over 200 authorized service partners, enabled by Daikin to provide repair and maintenance services for our van, truck, and trailer units. Our service partners always apply our genuine spare parts, engineered to ensure maximum performance and reliability. Utilising the authorized service partners and genuine parts is the only way to protect your investment under Daikin warranty and minimise total cost of ownership.



Service Contracts

Our vision in Daikin Transport Refrigeration is to support the entire lifecycle of our customers' products. All our transport refrigeration units come standard with a two-year warranty. With the launch of Daikin Exigo trailer refrigeration unit, we are introducing the following additional service contracts.

Maintenance Plan

Exigo comes standard with a two-year maintenance plan, covering the scheduled service intervals at national service providers. After the first two years, the contract is renewable on an annual basis.

Extended Warranty

Exigo international parts & labor warranty can be extended on an annual basis after the first two years of standard warranty. The Extended Warranty contract requires Telematics and Maintenance Plan to be also selected.

24/7 Breakdown Support

Our European call center will help arrange breakdown service regardless of time, location or language. This service is also included as standard for the first two years, renewable annually.

Stand By Me

Exigo customers will have access to the Daikin Stand By Me portal which simplifies contract management and renewal for fleet managers.



Telematics

Daikin Telematics help trailer fleet managers gain greater insight and control over their fleet remotely. The back-end of our system is supported by an EU-based provider highly experienced in commercial vehicle telematics providing connectivity across EMEA. Exigo comes standard with two-year telematics and renewable annually afterwards.

The telematics framework is designed with the customer in mind, providing utmost flexibility by being configurable for third-party fleet management software. The included telematics portal provides state-of-the-art visibility and control of each unit in the fleet.

- ✓ Live location monitoring on map
- ✓ Remote HMI display and control
- ✓ Error messages with push notification
- ✓ Geofence alarm and low-noise programming
- ✓ Remote unit diagnostics
- ✓ Over-the-air software update
- ✓ Intuitive online fleet management portal
- ✓ Configurable for existing fleet management software



| Service Contracts | Zanotti Van & Truck Range (First 2 years) | Daikin Exigo (First 2 years) | Daikin Exigo (Annual Renewal) |
|---|--|---------------------------------|--|
| Warranty EMEA parts and labor warranty coverage | Included | Included | Optional Extended Warranty (requires) Telematics and Maintenance Plan) |
| Telematics EMEA coverage and fleet management portal access | | Included | Optional |
| Maintenance Plan National scheduled preventative maintenance | | Included | Optional |
| 24/7 Breakdown Support Call center support in main European languages | | Included | Optional |

Daikin Refrigeration – United in cold



Hubbard Products Ltd., is one of the UK's leading designers, manufacturers and suppliers of commercial cooling equipment - known for innovation and design-led excellence.



Daikin Chemicals

Leveraging unique cutting-edge technology, Daikin Chemicals is a leading manufacturer of innovative fluorochemical products and solutions. Supporting partners around the world to achieve real results.



Daikin Europe N.V. is a major European producer of air conditioners, heating systems and refrigeration equipment, with ~ 5,500 employees in Europe - and manufacturing facilities in Belgium, Czech Republic, Germany, Italy, Spain, Turkey and UK.



AHT develops, manufactures and sells refrigerating and freezing showcases specifically suited for food retailers. AHT is leading the "plug-in" type showcases market segment, serving major food retail chains globally.



Tewis offers comprehensive total solutions for refrigeration and climate applications, along with expertise in customising controls (incl. monitoring). Lately Tewis has focused on developing a range of CO₂ based refrigeration systems aiming for high reliability & energy efficiency.



Zanotti is a refrigeration specialist founded in 1962. With over 50 years of experience in food storing services covering the needs of commercial and industrial refrigeration, but also the needs of the transportation of fresh and frozen products.



Discover our Transport Refrigeration Portfolio
<http://www.daikin-ce.com/transportrefrigeration>

DAIKIN AIRCONDITIONING CENTRAL EUROPE HandelsgmbH

Lemböckgasse 59/1/1, 1230 Vienna, Austria · Tel.: + 43 (0) 1 253 21 11 · e-mail: office@daikin-ce.com · www.daikin-ce.com

Daikin products are distributed by:



Daikin Europe NV participates in the Eurovent Certified Performance programme for Fan Coil Units and Variable Refrigerant Flow systems. **Daikin Applied Europe S.P.A** participates in the Eurovent Certified Performance programme for Liquid Chilling Packages, Hydronic Heat Pumps and Air Handling Units. Check ongoing validity of certificate: www.eurovent-certification.com

The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. / Daikin Central Europe HandelsGmbH, Daikin Europe N.V. / Daikin Central Europe HandelsGmbH have compiled the content of this publication to the best of their knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. / Daikin Central Europe HandelsGmbH explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V.

Daikin Transport Refrigeration catalogue 2022-2023 | Version September 2022
 We reserve the right for printing errors and model changes