



Transport Refrigeration

Transport Refrigeration



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.**

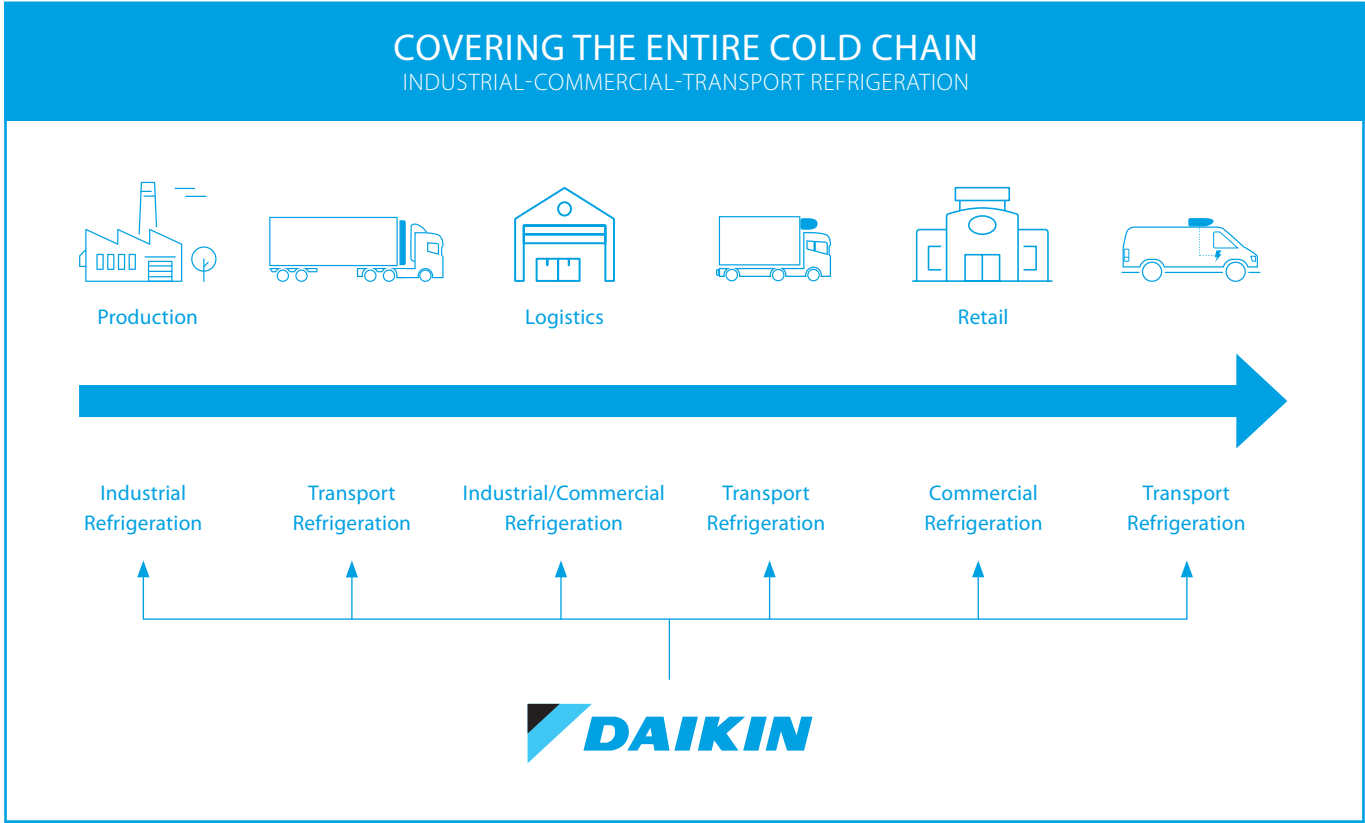


Cold Chain Expertise

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.

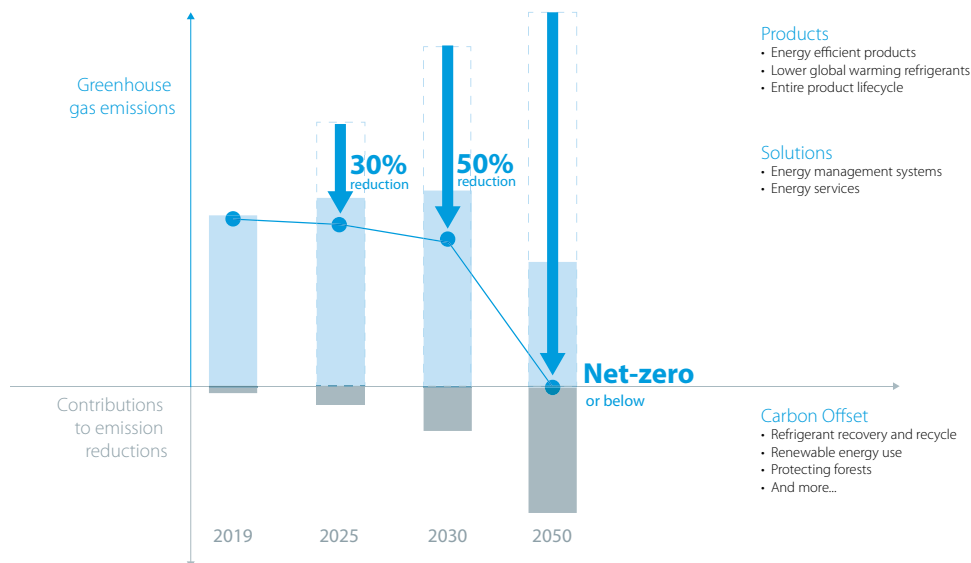
Our Vision 2050

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



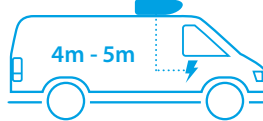







In our Cold Chain business, we are moving towards low-GWP and HFC-free natural refrigerants, while ensuring the correct safety standards are established in our markets. We maintain continuous focus on reducing the energy consumption of all our products. In the Transport Refrigeration industry, we will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




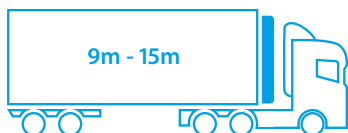



















Net-zero product lifecycle



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
			
 	  	 	
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)





Van

Direct-Drive



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.

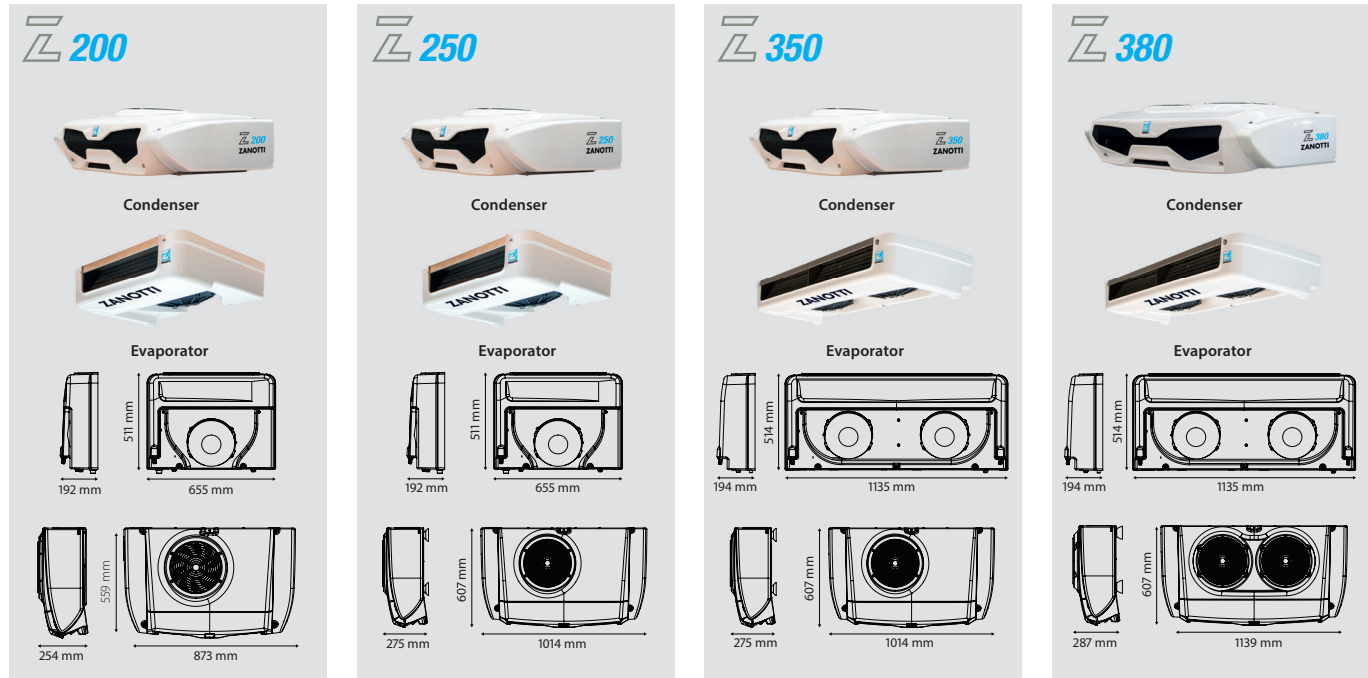
All Zero models provide easy installation and serviceability. The condensing unit can be mounted on the roof or the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the cabin allows real-time monitoring and 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



Z200 | Z250 | Z350 | Z380



		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

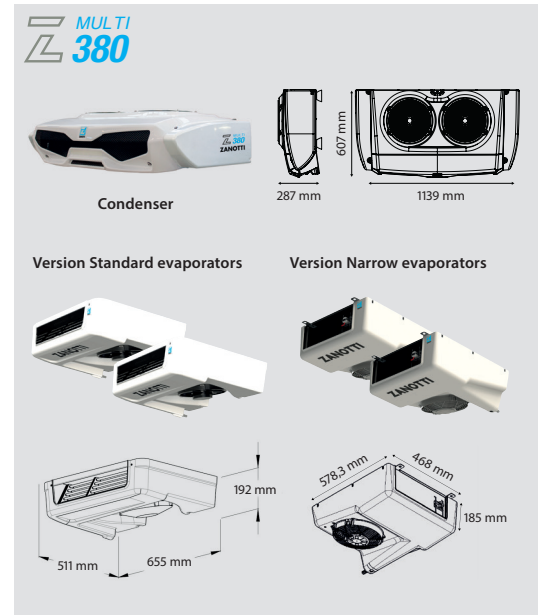
Z380 Multi

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	[m³/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



Z120b

Zero Electric

Z120b

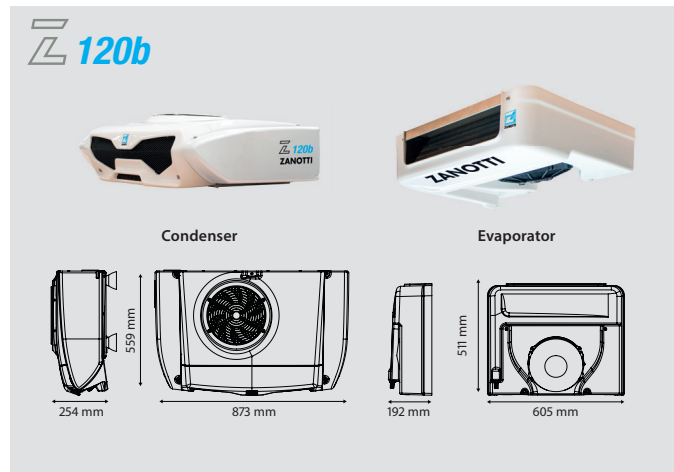
Z120b is powered by the vehicle battery, with minimal environmental impact and maximum cooling effectiveness ideal for refrigerated transport in vans. The unit can be installed quickly without any mechanical couplings with the vehicle engine, which also minimises power draw and thus emissions.

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.



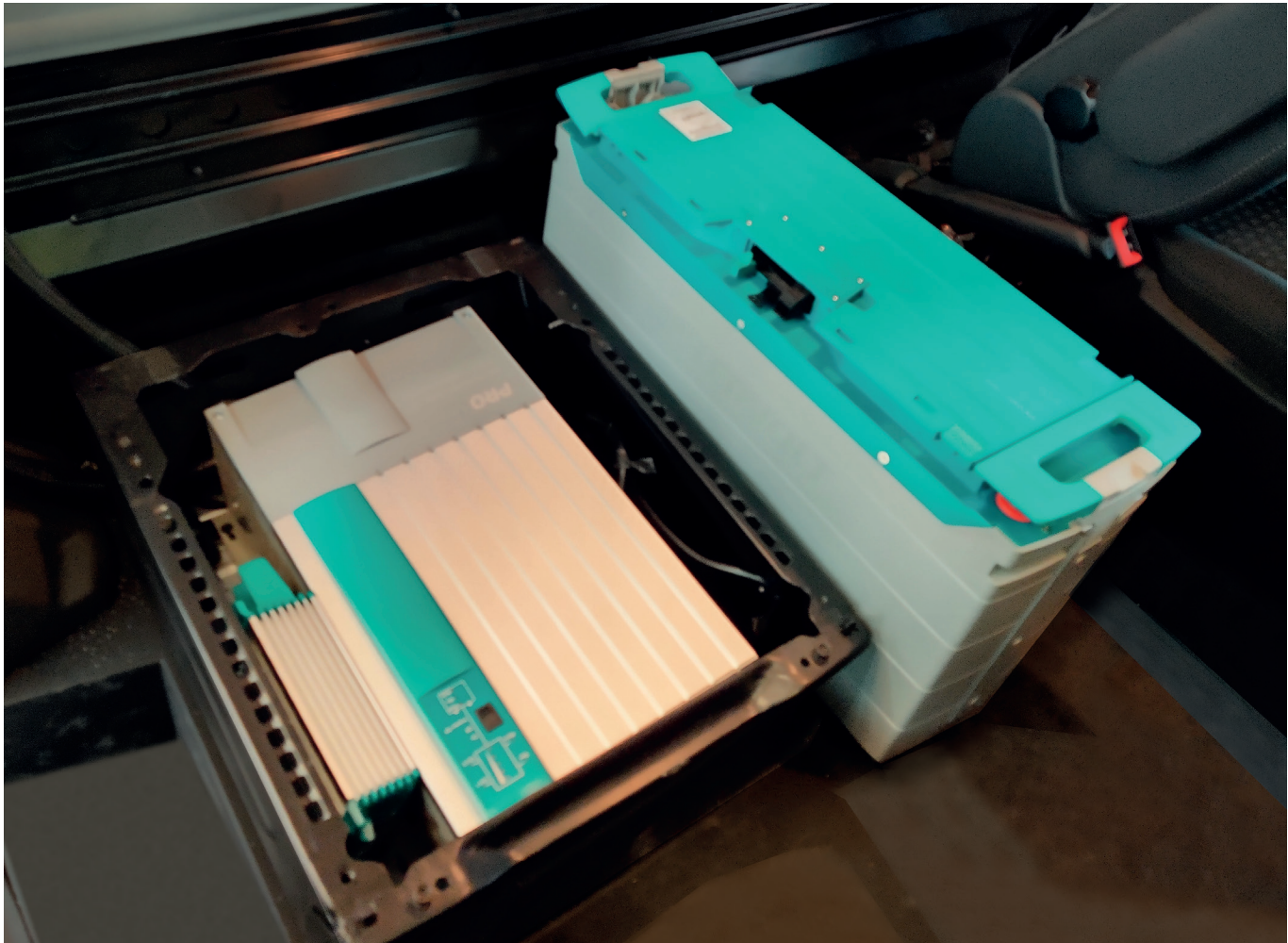
Key Features:

- ✓ 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	[m ³ /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.

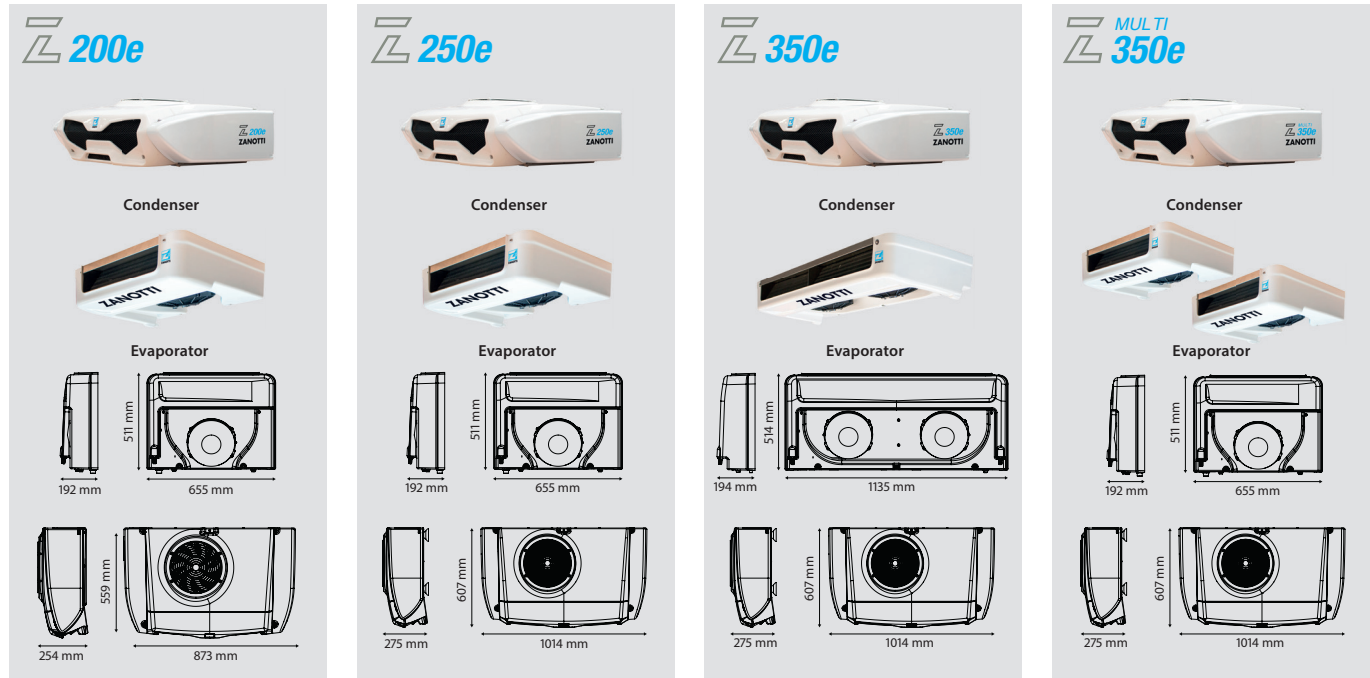
All Zero models provide easy installation and serviceability. The condensing unit can be installed as top-mount on the roof of the box or nose-mount on the front wall of the box, and the ultra-thin evaporator installed in the cargo compartment maximizes cargo volume. A driver-friendly interface in the 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



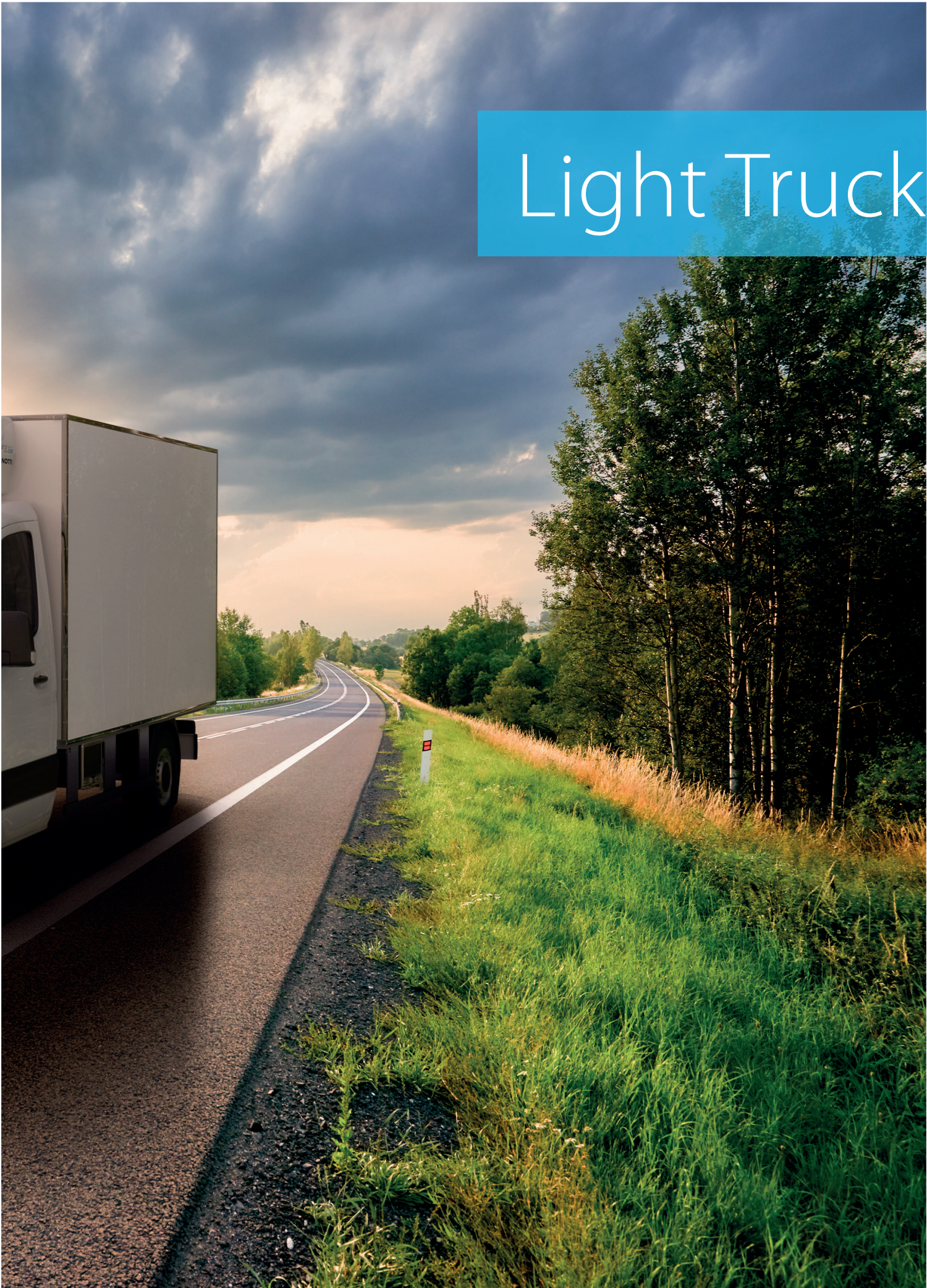
Z200e | Z250e | Z350e | Z350e Multi



	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	[m³/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

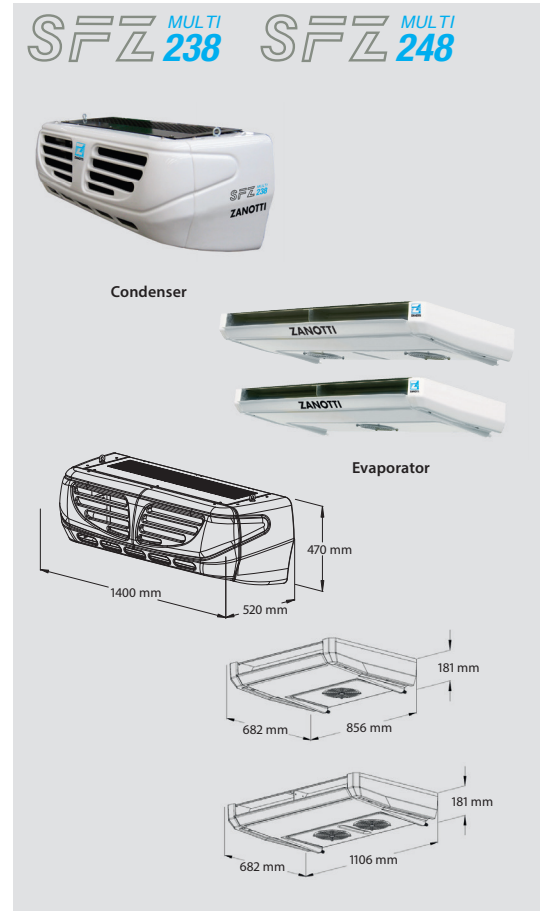
SFZ238 Multi | SFZ248 Multi

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	[m³/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

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