



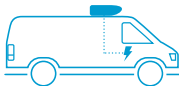
Transport Refrigeration

# Transport Refrigeration



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# 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

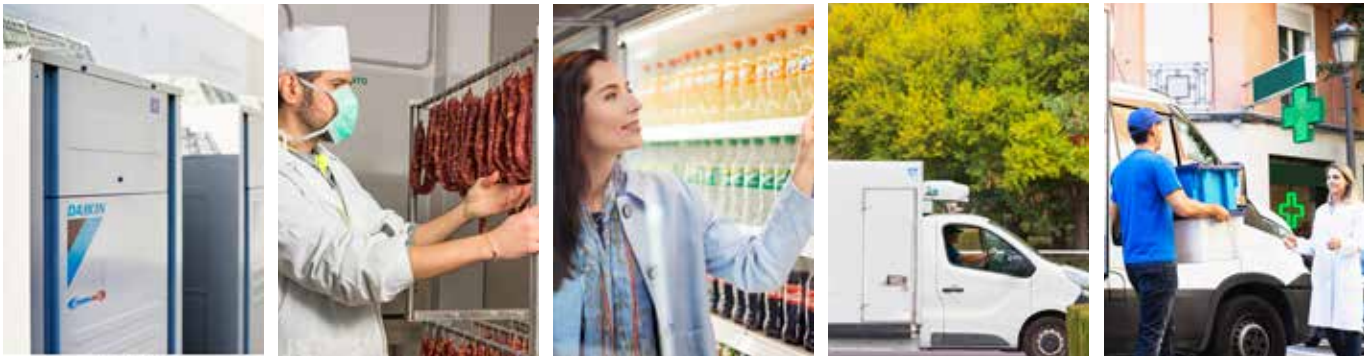
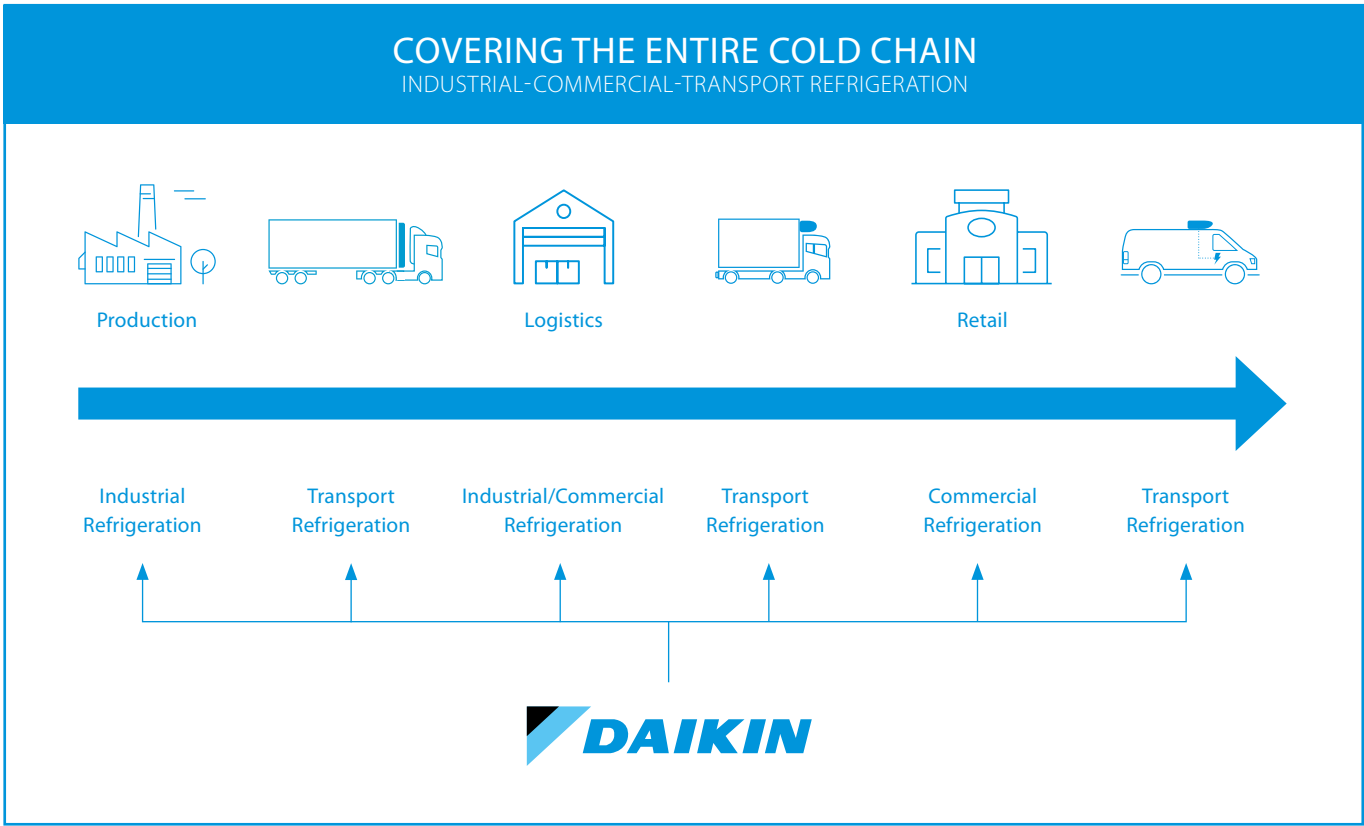
For forward thinking consumers and businesses, Daikin is the all-inclusive partner, ensuring your peace of mind. For our professional customers, our brand promise is **Reliability – Sustainability – Efficiency.**



# 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.**



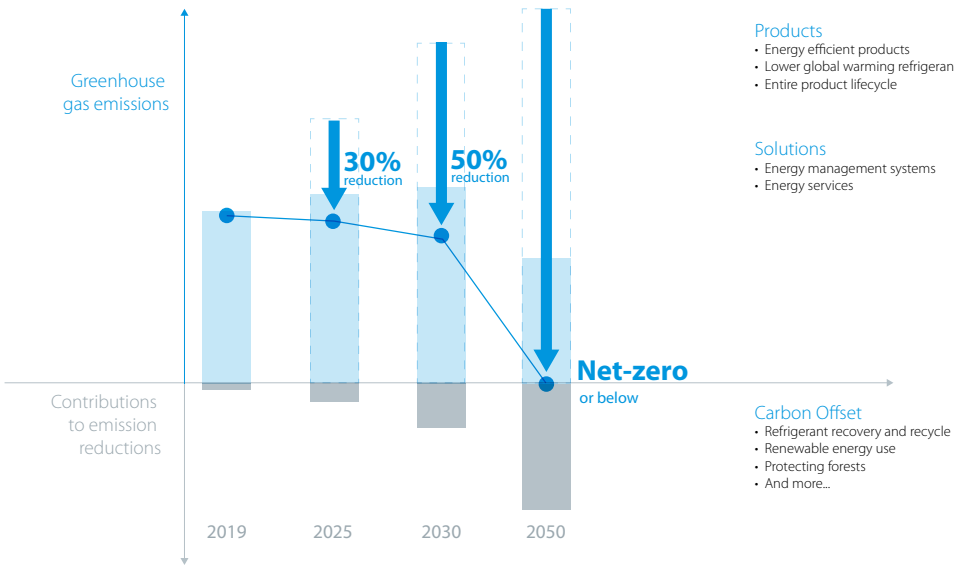
# Vision 2050

**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.


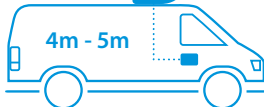
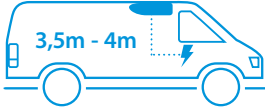
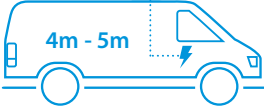

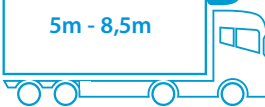


















## Net-zero product lifecycle





# 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				LIGHT TRUCK	TRUCK		TRAILER
Direct-Drive		Electric					
Invisible Direct-Drive	Zero Direct-Drive	Invisible Electric	Zero Electric	SFZ	Uno	Uno Undermount	Exigo
							
							
SFZ007 SFZ008 SFZ009	Z200 Z250 Z350 Z380	SFZ009e	Z120b Z200e Z250e Z350e	SFZ238 SFZ248	U600 U800 U1000	UN120	E1500
							<b>EUTECTIC INSERTS</b> 
SFZ009 Multi	Z380 Multi	SFZ009e Multi	Z350e Multi	SFZ238 Multi SFZ248 Multi	U800 Multi U1000 Multi	UN120 Multi	Inpac Small Inpac Medium Inpac Large (Colour)

# Van

Direct-Drive







Invisible Direct-Drive

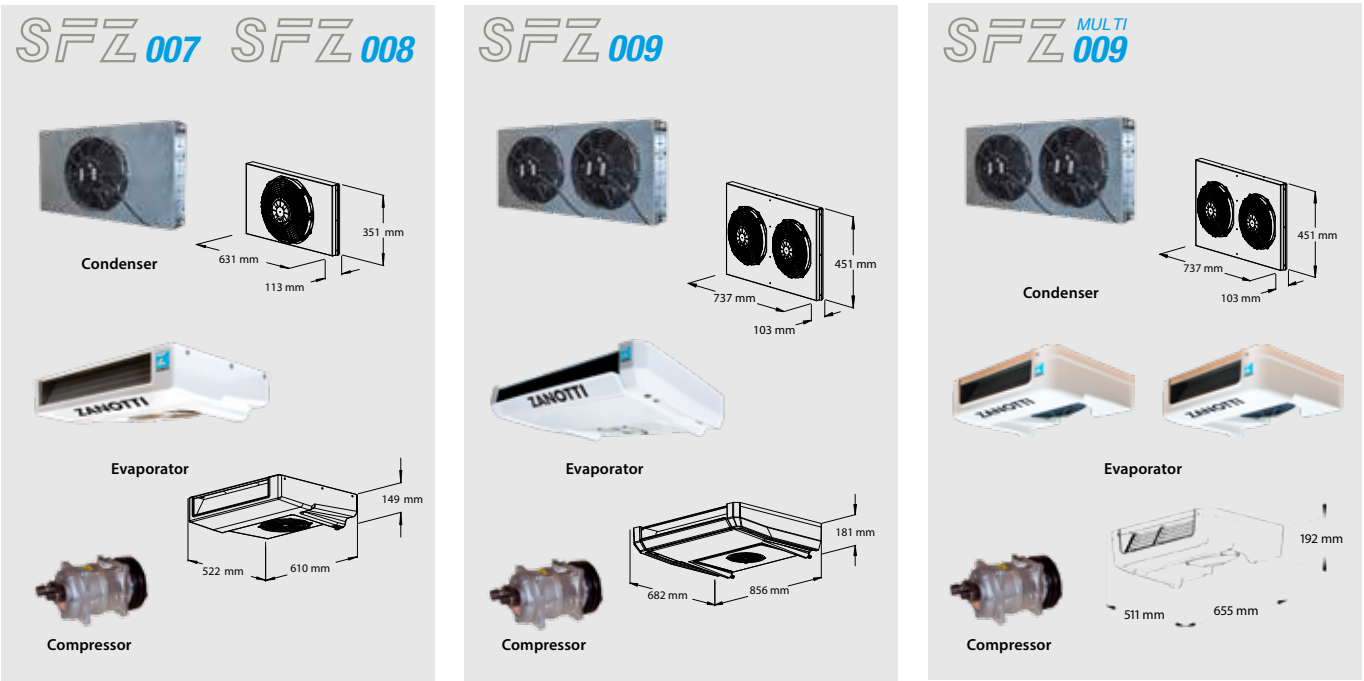
SFZ007 | SFZ008 | SFZ009 | SFZ009 Multi

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

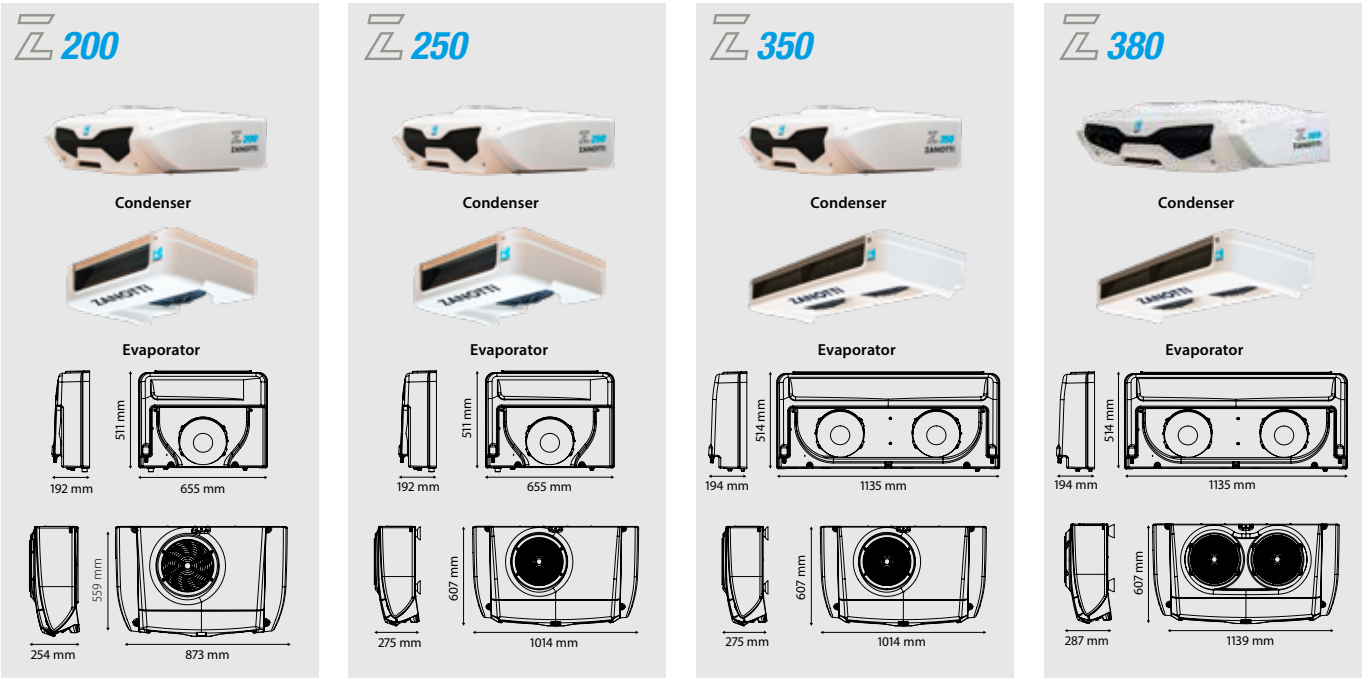
Z200 | Z250 | Z350 | Z380

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

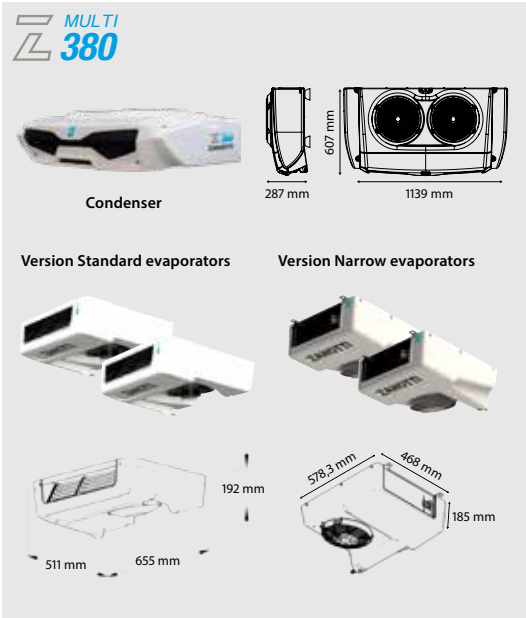
Z380 Multi

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	[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







Invisible Electric

SFZ009e | SFZ009e Multi

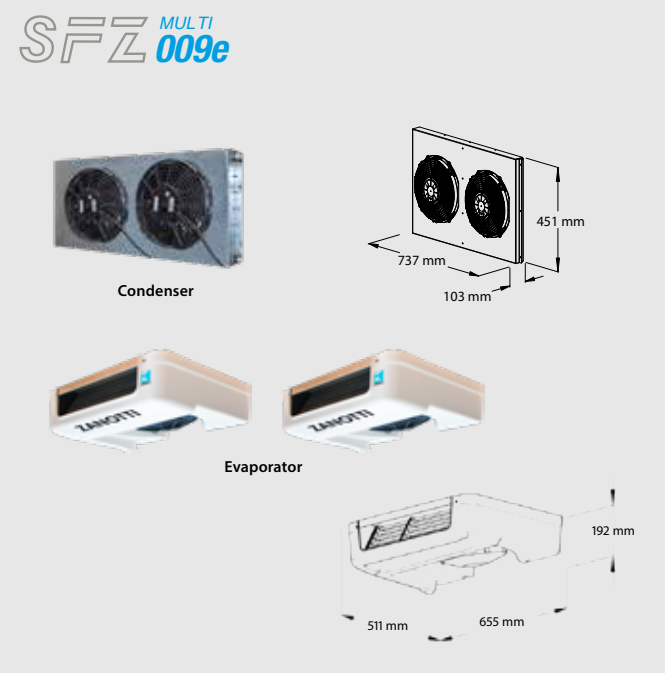
The Invisible Electric range is designed for discreet and efficient transportation of refrigerated products in vans on electric power, both on road and during stand-by. A highly reliable battery-inverter package supplies the power, making the Invisible Electric an ideal choice for full-electric, hybrid,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

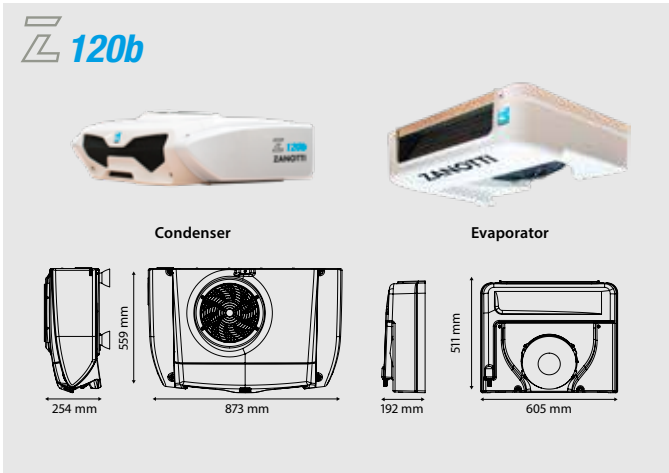
Z120b

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.

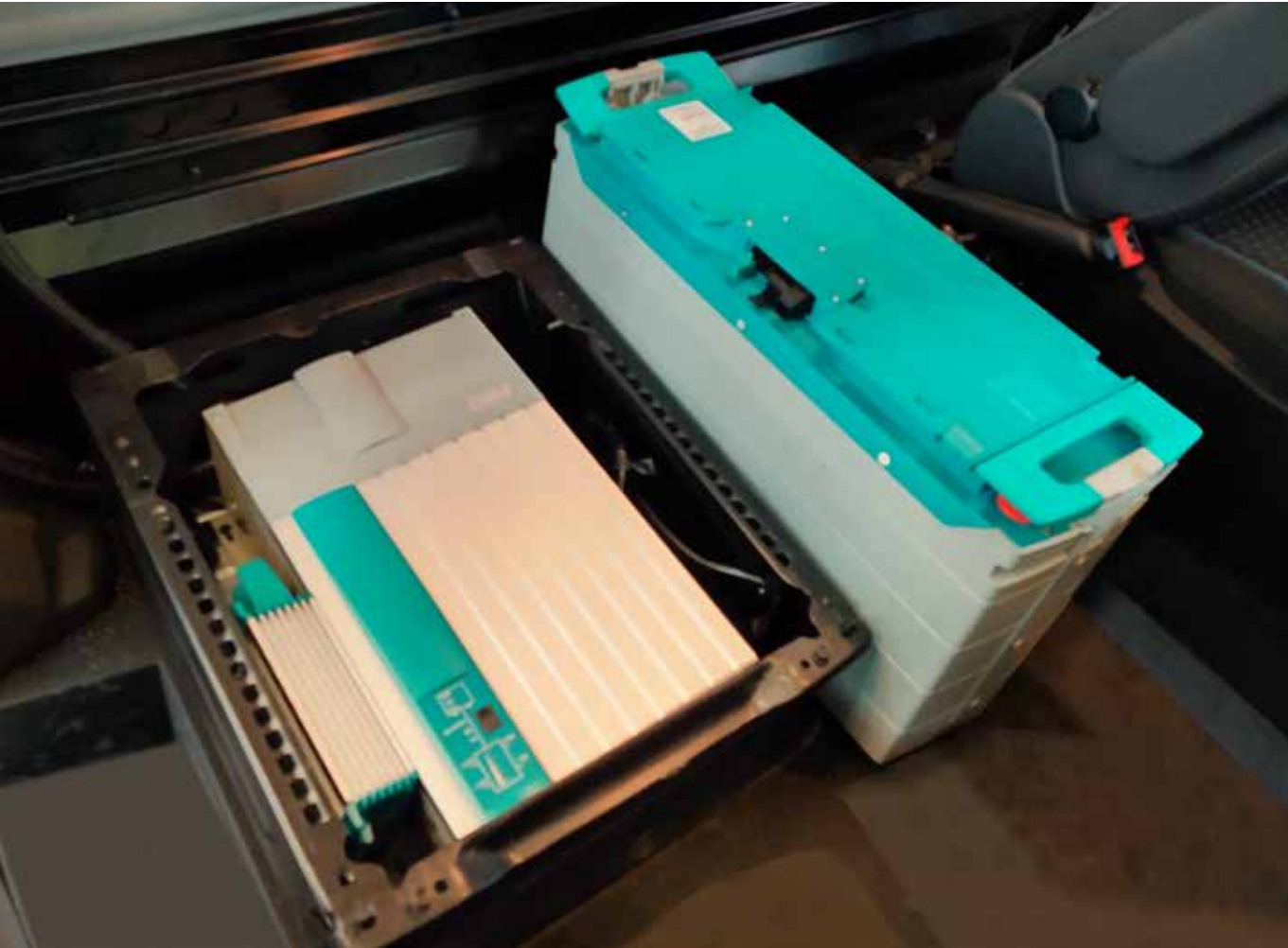
Key Features:

- ✓ 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

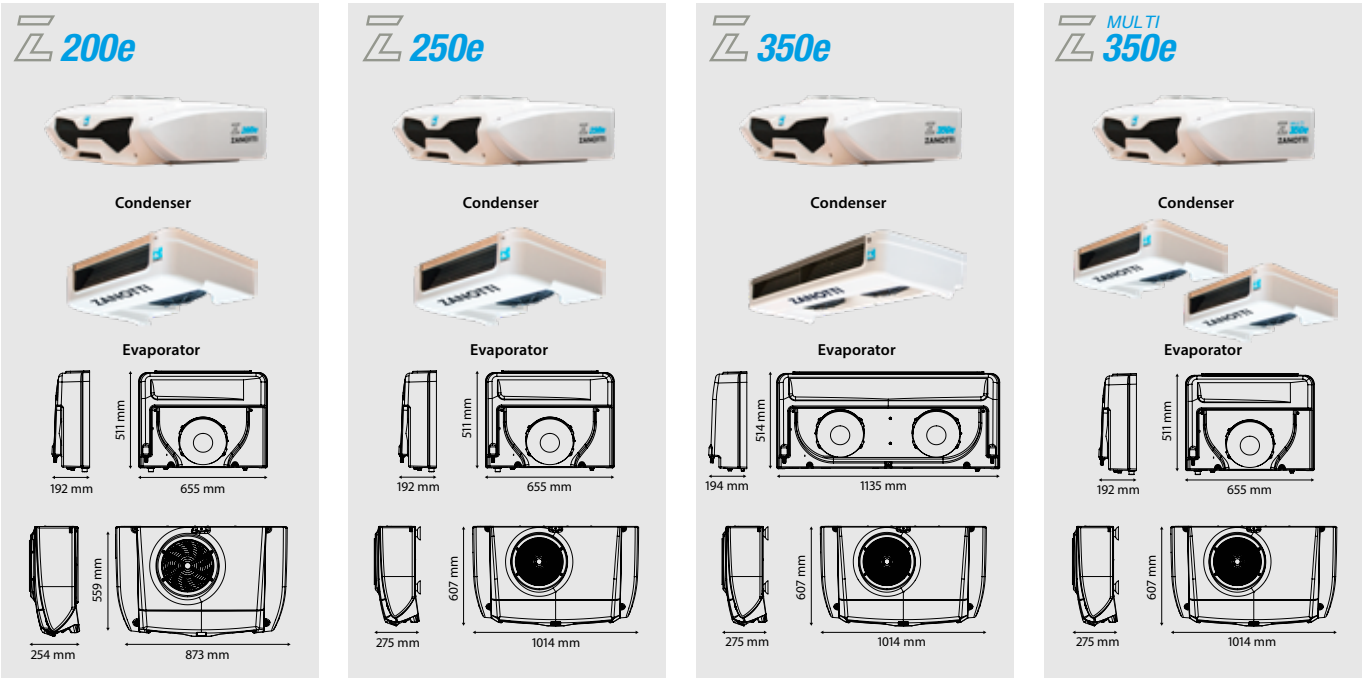
The Zero range meets the needs of the distribution industry by offering the utmost flexibility in the temperature management of refrigerated products. Zero Electric is designed to meet a wide range of applications in light commercial vehicles on electric power, both on road and during stand-by. A highly 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	[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.

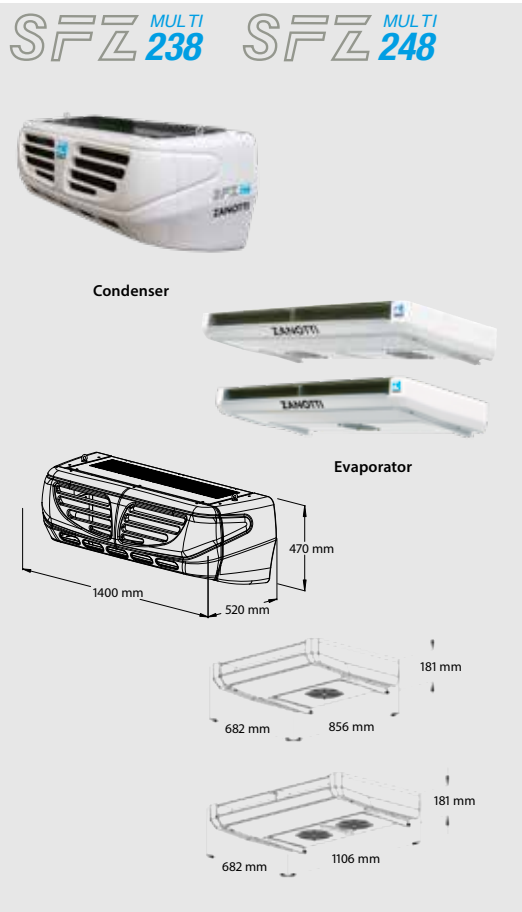
Key Features:

- ✓ 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







Uno

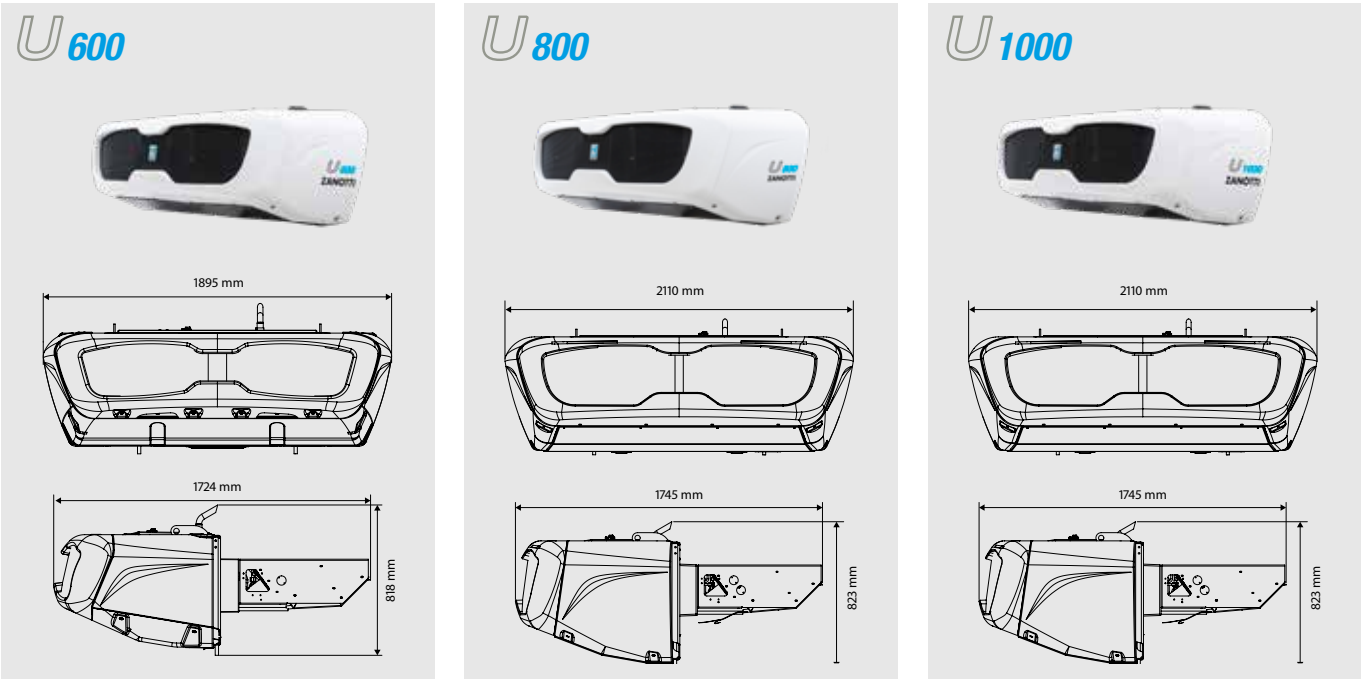
U600 | U800 | U1000

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 Zanolli'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

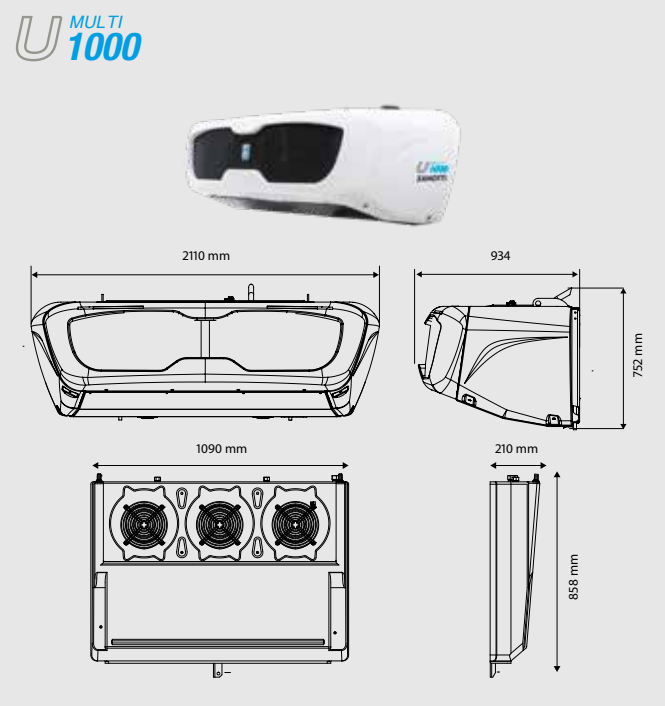
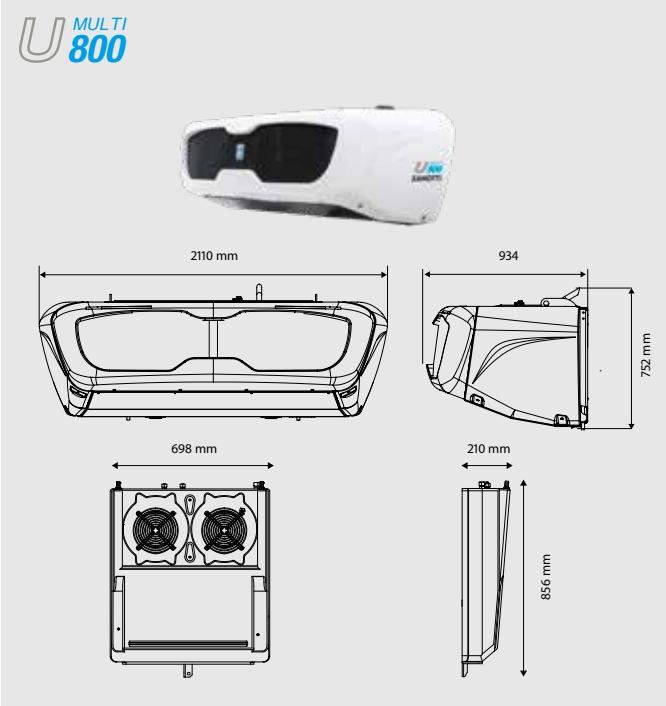
The redesigned Uno range of units are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in medium to heavy trucks. The Uno features Zanotti’s innovative direct coupling design between the engine and the compressor, 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 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	
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	[m³/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	[m³/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	[F]	R452A
Defrost	[F]	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
Stand-by mode	[W]	7100

Airflow rate		
Airflow rate at 100kPa static pressure	[m³/h]	4500

Weight		
Condensing unit road and stand-by	[kg]	510
Condensing unit road-only	[kg]	475
Evaporators	[kg]	40

Diesel engine		
Displacement	[cc]	1116
Rated power output	[kW]	13,2
Maintenance interval	[hrs]	2000

Road compressor		
Displacement	[cc]	390

Stand-by compressor		
Displacement	[m³/h]	21,4

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

Provisional engineering data

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

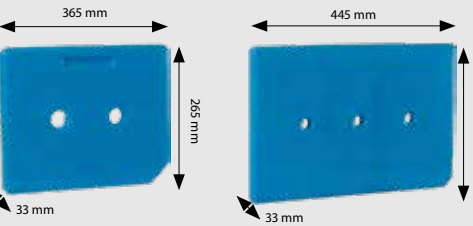
Application examples

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

Typical Users

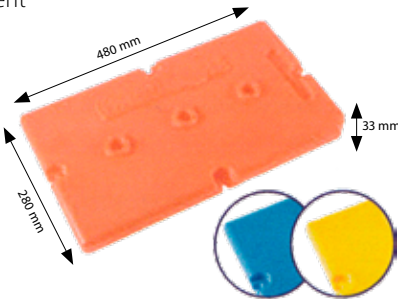
- Caterers
- Local authorities
- Butchers
- Railway and Airline catering
- Electric Vehicle operators
- Home Delivery
- Hospitals
- Bakers
- Restaurants
- Hotels
- Dairy Industry
- Sandwich Suppliers
- Ice Cream Vendors

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



Inpacs Large in Colour

Colour coded for dispatch schedules or temperature requirement



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

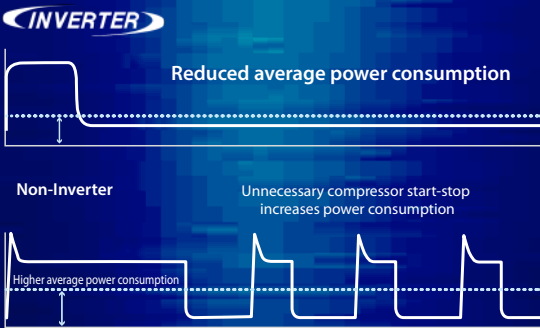
- › Full variable speed achieving lower fuel consumption than fixed speed units
- › Electric architecture providing 15kW true capacity both on the road and the grid
- › Highest cooling power of the category in frozen applications
- › Ease of unit operation with high resolution graphical user interface
- › 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 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

**XIGO** *electric*



# 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





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