



Transport Refrigeration



Transport Refrigeration

Imperial Catalogue



Transport Refrigeration

Daikin	2
Cold Chain Expertise	
From production to delivery	3
Vision 2050	4
Product Portfolio	5
Selection tool for box size	7

Van Direct-Drive 8

Invisible Direct-Drive 9

◦ SFZ007 SFZ008 SFZ009 SFZ009 Multi	9
---	---

Zero Direct-Drive 11

◦ Z200 Z250 Z350 Z380	11
-----------------------------	----

Zero Direct-Drive Multi-Temp 13

◦ Z380 Multi	13
--------------	----

Van Electric 14

Invisible Electric 15

◦ SFZ008e SFZ009e SFZ009e Multi	15
-------------------------------------	----

Zero Electric 17

◦ Z120b	17
---------	----

Electric Power Supply 18

Zero Electric 19

◦ Z200e Z250e Z350e Z350e Multi	19
---------------------------------------	----

Light Truck 22

SFZ 23

◦ SFZ238 SFZ248	23
-------------------	----

SFZ Multi-Temp 25

◦ SFZ238 Multi SFZ248 Multi	25
-------------------------------	----

Truck 26

Uno 27

◦ U600 U800 U1000	27
-----------------------	----

Uno 29

◦ U800 Multi U1000 Multi	29
----------------------------	----

Uno Undermount 31

◦ UN120 UN120 Multi	31
-----------------------	----

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

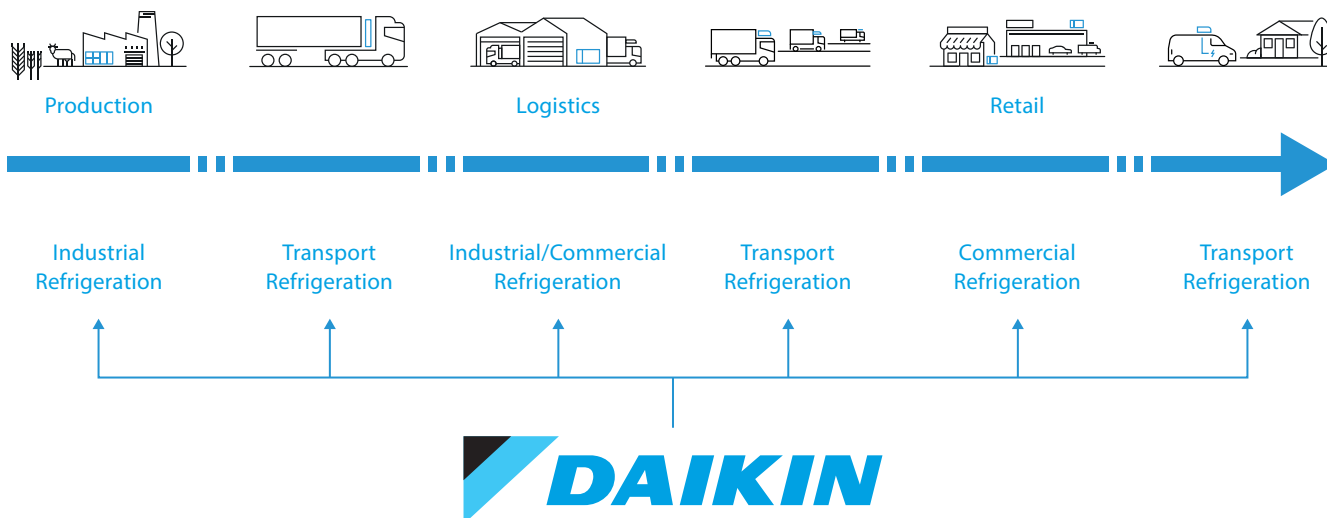
Reshaping the future of cold chain supply

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**.

COVERING THE ENTIRE COLD CHAIN

INDUSTRIAL-COMMERCIAL-TRANSPORT REFRIGERATION



Vision 2050

Daikin Environmental Policy

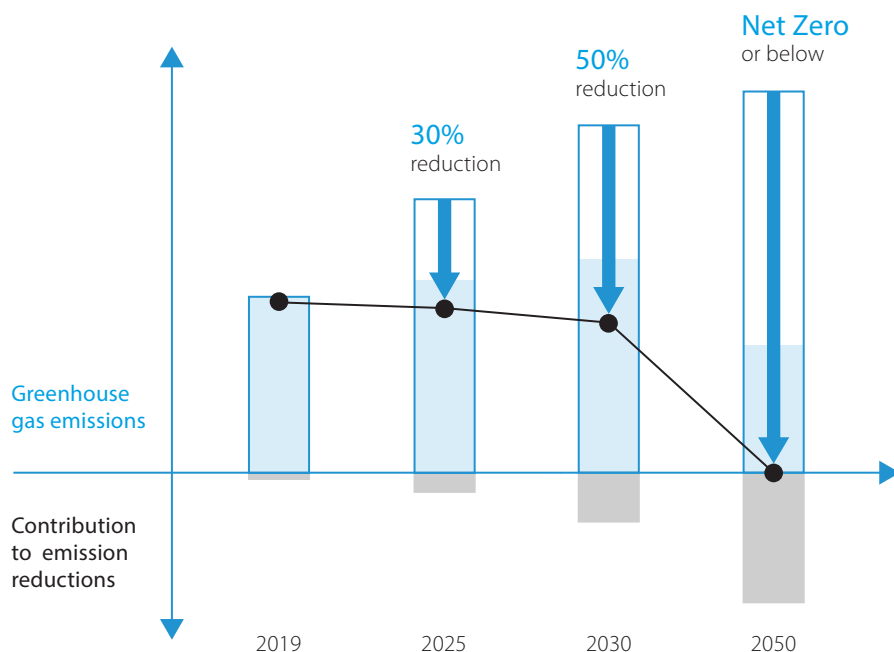
Adopted in 2015, the Paris Agreement contains a target for the latter half of this century of reducing greenhouse gas emissions to net zero and limiting global warming by less than 2°C compared to pre-industrial levels. In the spirit of the Paris Agreement, Daikin has formulated Environmental Vision 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.



Products

- Energy efficient products
- Lower global warming refrigerants
- Entire product lifecycle

Solutions

- Energy management systems
- Energy services


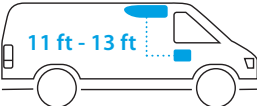
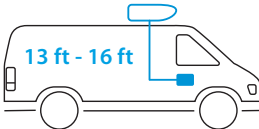
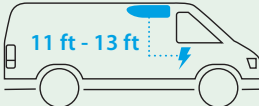
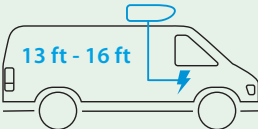








Carbon Offset

- Refrigerant recovery and recycle
- Renewable energy use
- Protecting forests
- And more...



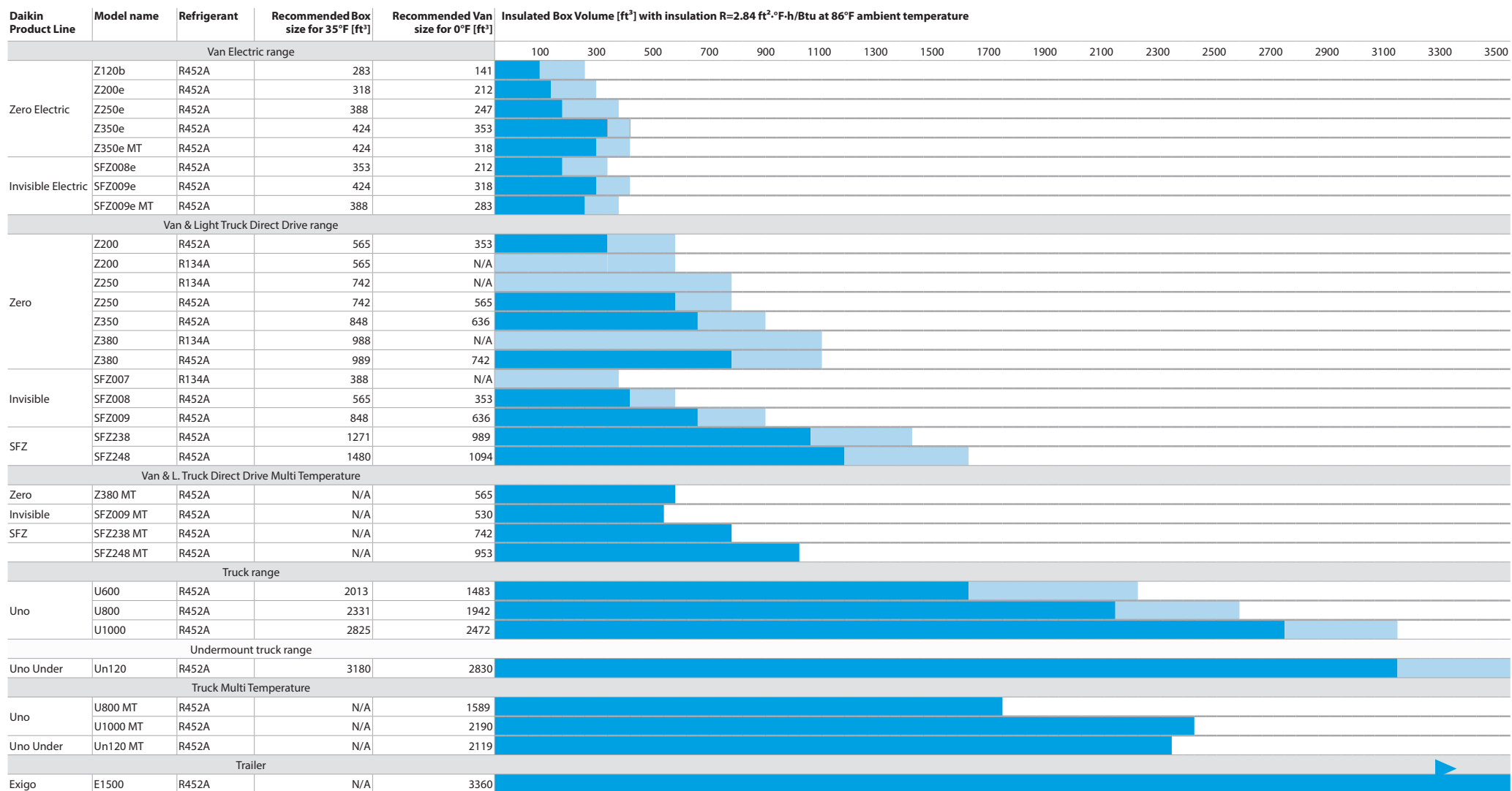
Product Portfolio

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	SFZ008e 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
			
SFZ238 Multi SFZ248 Multi	U800 Multi U1000 Multi	UN120 Multi	

Selection tool for box size



Note: This selection table is intended as a guide. It has been compiled using experience acquired in normal utilization of our equipment in transport and distribution. Conformity to these recommendations should guarantee your total satisfaction.

Frozen applications

Chilled applications

Van Direct-Drive





Invisible Direct-Drive

SFZ007 | SFZ008 | SFZ009 | SFZ009 Multi

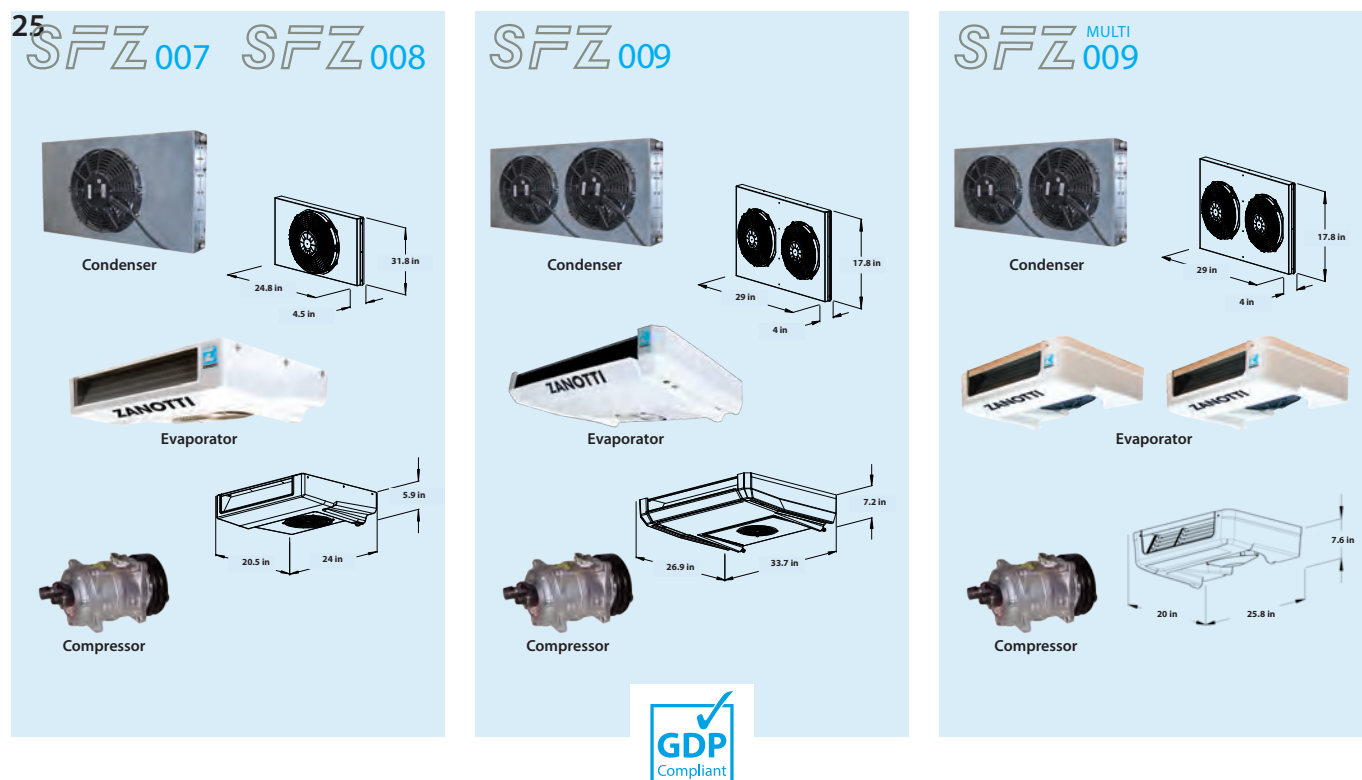
Our Invisible range is designed for discreet and efficient transportation of refrigerated products in vans. These units are installed underneath the vehicle chassis, completely invisible from the outside, preserving the aesthetics, original height and aerodynamics of the vehicle, while reducing bodywork. 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 engine, electric 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	
Refrigerant quantity	[lb]	3	3	3	6.17
Road compressor		QP13/UPF120	QP13/UPF120	QP16/UPF170	QP16/UPF170
System net cooling capacity (86°F ambient temperature)					
	[°F]	35°F	0°F	35°F	0°F
Road mode	[BTU/h]	5747	N/A	7131	3947
Stand-by mode	[BTU/h]	4161	N/A	4449	2707
Recommended body volume	[ft ³]	388	N/A	565	353
		848	636	N/A	530
Heating capacity					
Road mode	[BTU/h]	N/A	21975	32470	30725
Stand-by mode	[BTU/h]	N/A	16055	18965	18890
Airflow rate					
Airflow rate at 100kPa static pressure	[CFM]	462	462	625	2x 365
Dimensions (LxWxH)					
Condensing unit	[in]	14x25x4.3	14x25x4.3	18x29x4	18x29x4
Evaporator	[in]	21x24x6	21x24x6	27x34x7	(2x) 20x26x8
Weight					
Condenser without electric stand-by	[lb]	55	84	99	99
Condenser with electric stand-by	[lb]	110	148	165	165
Evaporator	[lb]	22	31	45	2x 22.5



Zero Direct-Drive

Z200 | Z250 | Z350 | Z380

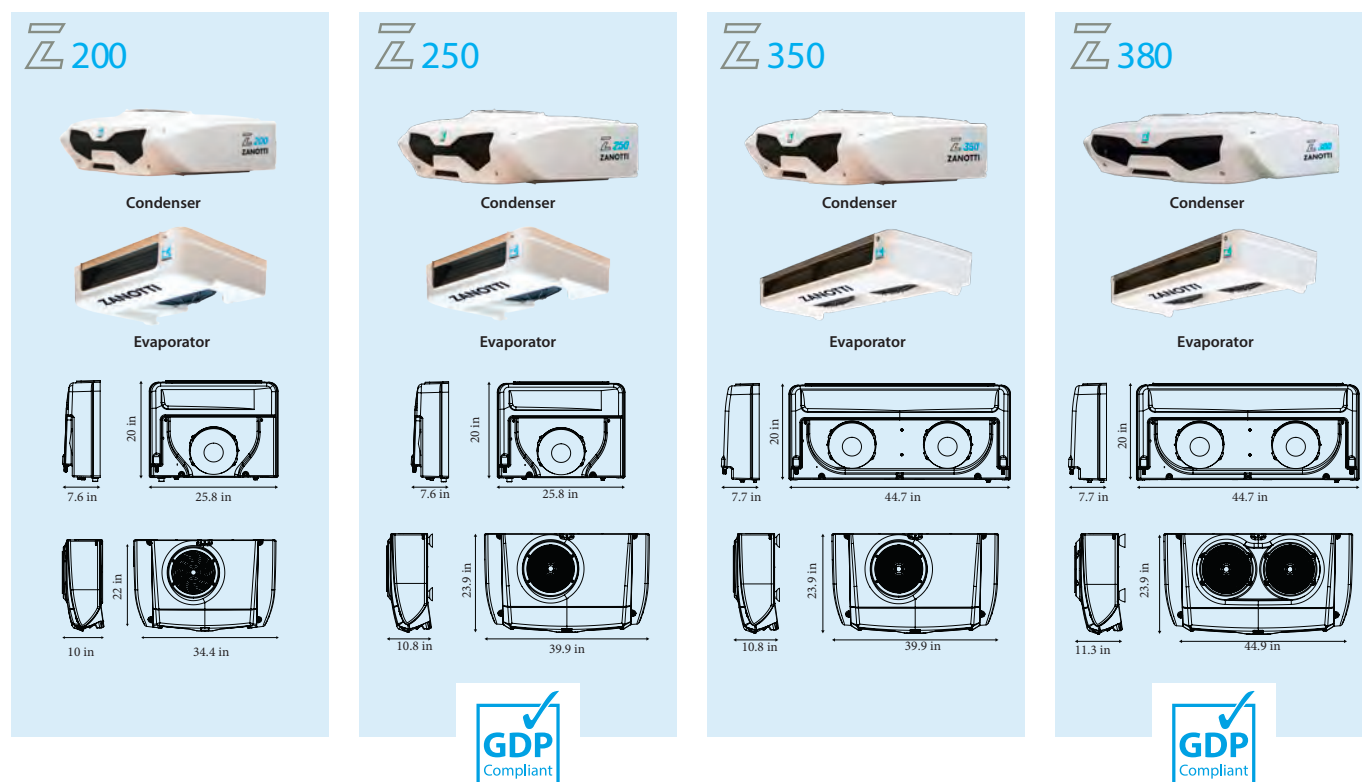
The Zero range meets the needs of the distribution industry by offering the utmost flexibility in the temperature management of refrigerated products. The extensive direct-drive Zero line-up including Z200, Z250, Z350, and Z380 is designed to meet a wide range of applications in light commercial vehicles.

Key Features:

- Proven reliability and performance
- Powered by direct-drive on engine, electric 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

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.





		Z200		Z250		Z380		Z200		Z250		Z350		Z380	
General															
Refrigerant		R134a						R452A							
Refrigerant quantity	[lb]	2.95	3.2		4.63		3.1		3.64		3.75		4.2		
Road Compressor		QP15/UPF150						QP13/UPF120				QP15/UPF150			
System net cooling capacity under ATP conditions (86°F ambient temperature)															
	[°F]	35°F	0°F	35°F	0°F	35°F	0°F	35°F	0°F	35°F	0°F	35°F	0°F	35°F	0°F
Road mode	[BTU/h]	6531	N/A	8005	N/A	10898	N/A	7874	4390	9489	5475	11860	6851	13472	7567
Stand-by mode	[BTU/h]	3172	N/A	6531	N/A	9143	N/A	5346	2692	7604	3291	8027	3549	8781	3871
Recommended body volume	[ft³]	565	N/A	742	N/A	989	N/A	565	353	742	565	848	636	989	742
Heating capacity															
Road mode	[BTU/h]	5980		4745		8950		7165		8530		10575		1260	
Stand-by mode	[BTU/h]	N/A		3475		5835		4435		6475		6825		7505	
Airflow rate															
Airflow rate at 100kPa static pressure	[CFM]	366		382.5		1100.5		366		382.5		765		1100.5	
Dimensions (LxWxH)															
Condensing unit	[in]	22×34×10		24×40×11		24×40×11		22×34×10		24×40×11		24×40×11		24×40×11	
Evaporator unit	[in]	20×26×8		20×26×8		20×45×8		20×26×8		20×26×8		20×45×8		20×45×8	
Weight															
Condenser without electric stand-by	[lb]	62		75		88		66		79		79		93	
Condenser with electric stand-by	[lb]	119		154		172		128		159		159		176	
Evaporator	[lb]	20		20		40		22.5		23		43		43	

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

Stand-by voltages available: 115/1/60 or 230/3/60

Vehicle voltages available: 12VDC

Zero Direct-Drive Multi-Temp

Z380 Multi

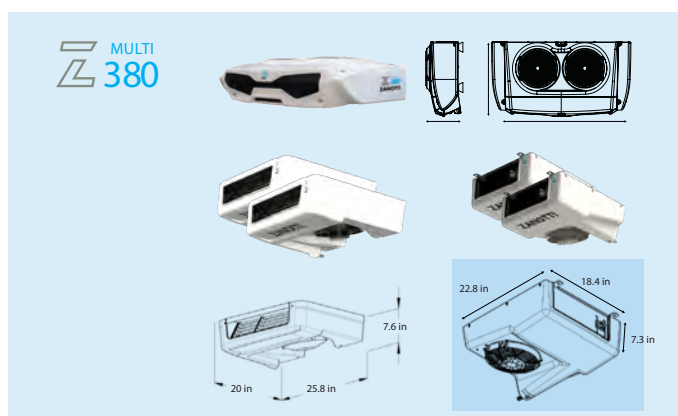
Z380 Multi and Z380 Multi (Narrow Evap) models are designed to meet the modern needs of low environmental impact refrigeration for light commercial vehicles. These units feature additional evaporators to enable transport of products with different temperature requirements in separate zones, available 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 engine, electric 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			
Refrigerant quantity	[lb]	3.45			
System net cooling capacity under ATP conditions (86°F ambient temperature)					
	[°F]	35°F	0°F	35°F	0°F
Road mode	[BTU/h]	11565	6254	1641	5205
Stand-by mode	[BTU/h]	7320	2726	8653	4042
Recommended body volume	[ft³]	N/A	565	N/A	565
Heating capacity					
Road mode	[BTU/h]	10265		8965	
Stand-by mode	[BTU/h]	6040		5185	
Airflow rate					
Airflow rate at 100kPa static pressure	[CFM]	2x 365		2x 488	
Dimensions					
Condensing unit	[in]	24×45×11		24×45×11	
Evaporator unit	[in]	(2) 20×26×8		N/A	
Weight					
Condenser without electric stand-by	[lb]	93		93	
Condenser with electric stand-by	[lb]	176		176	
Evaporator	[lb]	2x 22.5		2x 35	
Road compressor					
Displacement	[in³]	8.9		8.9	

These products contain fluorinated greenhouse gases (R452A GWP=2140.5).

Stand-by voltages available: 115/1/60 and 230/3/60

Vehicle voltages available: 12VDC

Van Electric





Invisible Electric

SFZ008e | 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.

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

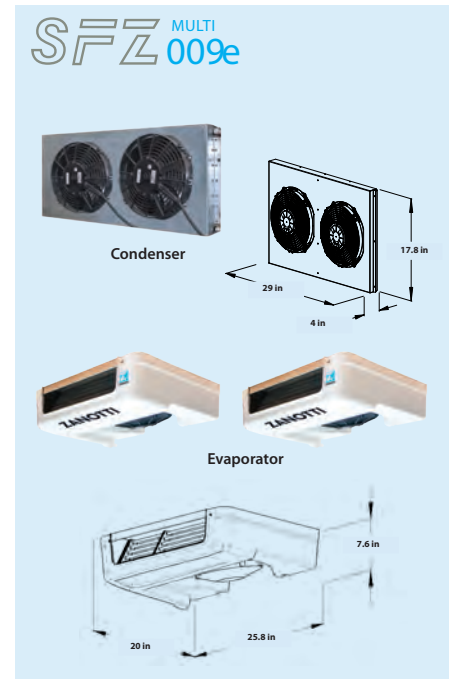
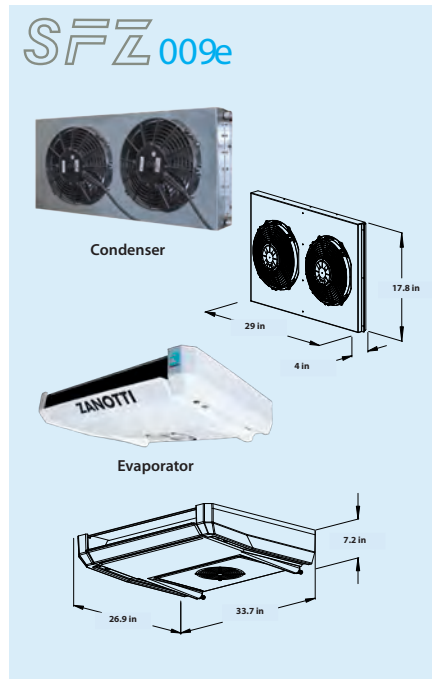
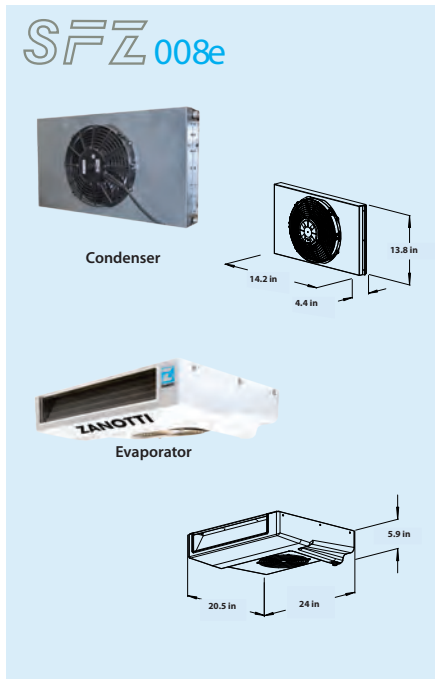
The Invisible range, with its ultra-thin dimensions make it the ideal choice for customers who need a space-saving solution. A driver-friendly interface in the cabin allows real-time monitoring and control of the unit performance to ensure the cargo is maintained at precisely the right temperature throughout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



Position of the unit on the vehicle.



Installation of the SFZ 009e condenser in the back of the vehicle.



		SFZ008e		SFZ009e		SFZ009e Multi	
General							
Refrigerant		R452A					
Refrigerant quantity		1.4		1.4		2.8	
System net cooling capacity (86°F ambient temperature)							
	[°F]	35°F	0°F	35°F	0°F	35°F	0°F
Battery mode	[BTU/h]	4511	2637	8324	4360	7052	3403
Recommended body volume	[ft³]	353	212	424	318	388	283
Heating capacity							
Battery mode	[BTU/h]	4710		5630		5390	
Airflow rate							
Airflow rate at 100kPa static pressure	[CFM]	460		625		2x 365	
Weight							
Condenser with electric stand-by	[lb]	143		165		165	
Evaporator	[lb]	31		45		2x 22.5	
Max current							
	A	119		165		170	

Zero Electric

Z120b

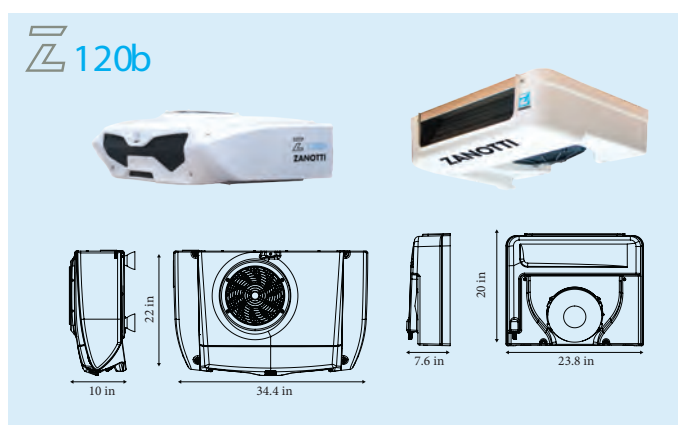
Z120b is powered by the vehicle battery, with minimal environmental impact and maximum cooling effectiveness ideal for refrigerated transport in vans. The unit can be installed quickly without any mechanical couplings with the vehicle engine, which also minimises power draw and thus emissions.

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 engine, electric 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		R134A	
Refrigerant quantity	[lb]	2.65		2.32	
System net cooling capacity (86°F ambient temperature)					
	[°F]	35°F	0°F	35°F	0°F
Battery mode	[BTU/h]	4558	1937	3023	N/A
Standby mode	[BTU/h]	3713	1600	2930	N/A
Recommended body volume	[ft³]	283	141	212	141
Heating capacity					
Battery mode	[BTU/h]	3755		N/A	
Airflow rate					
Airflow rate at 100kPa static pressure	[CFM]	330		330	
Weight					
Condenser with electric stand-by	[lb]	141		141	
Evaporator	[lb]	22.5		22.5	
Dimensions					
Condensing unit	[in]	22×34×10		22×34×10	
Evaporator unit	[in]	20×26×8		20×26×8	
Max current					
	A	75		55	

This product contains fluorinated greenhouse gases (R452A GWP=2140.5).

Stand-by voltages available: 115/1/60

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 6kW up to 12kW 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.

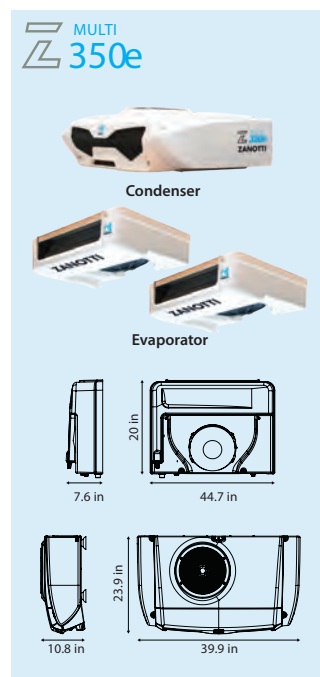
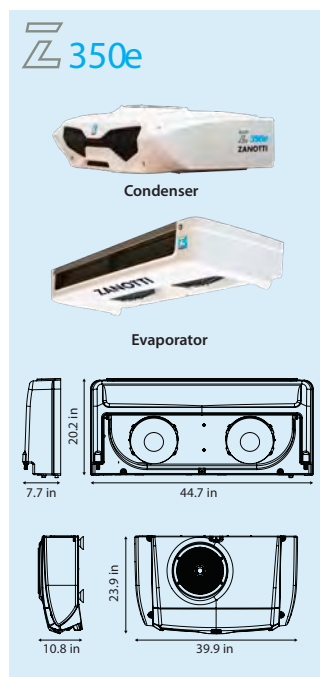
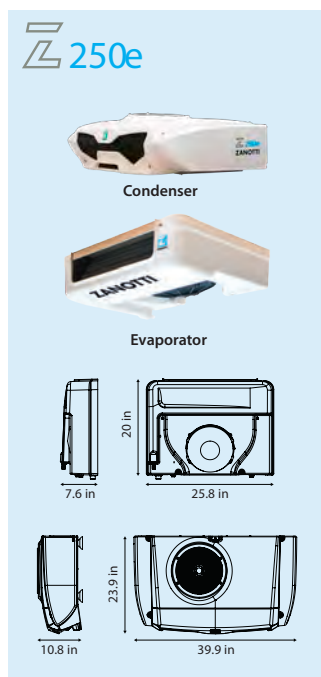
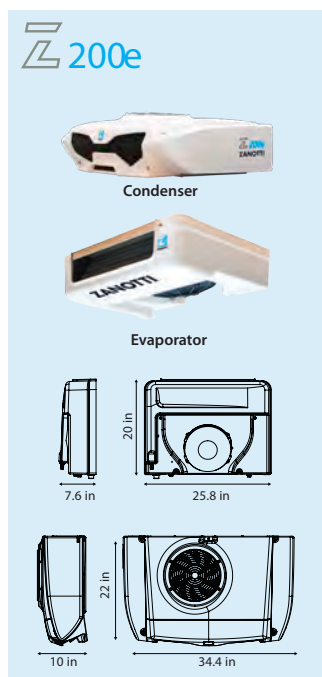
Z200e, Z250e and Z350e offer varying refrigeration capacities and volume ratings tuned for different applications. Z350e Multi features additional evaporators to enable transport of products with different temperature requirements in separate zones.

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 (86°F ambient temperature)					
	[°F]	35°F	0°F	35°F	0°F
Battery mode	[BTU/h]	5329	2675	6142	3554
Recommended body volume	[ft ³]	318	212	388	247
Heating capacity					
Battery mode	[BTU/h]	4095	5120	5630	5460
Airflow rate					
Airflow rate at 100kPa static pressure	[CFM]	365	382.5	765	2x365
Dimensions (LxWxH)					
Condensing unit	[in]	22×34×10	24×40×11	24×40×11	24×40×11
Evaporator unit	[in]	20×26×8	20×26×8	20×45×8	(2x) 20×26×8
Weight					
Condenser with electric stand-by	[lb]	119	154	154	154
Evaporator	[lb]	22.5	43	43	2X 22.5
Max current					
	A	100	159	166	171



Light Truck





SFZ

SFZ238 | SFZ248

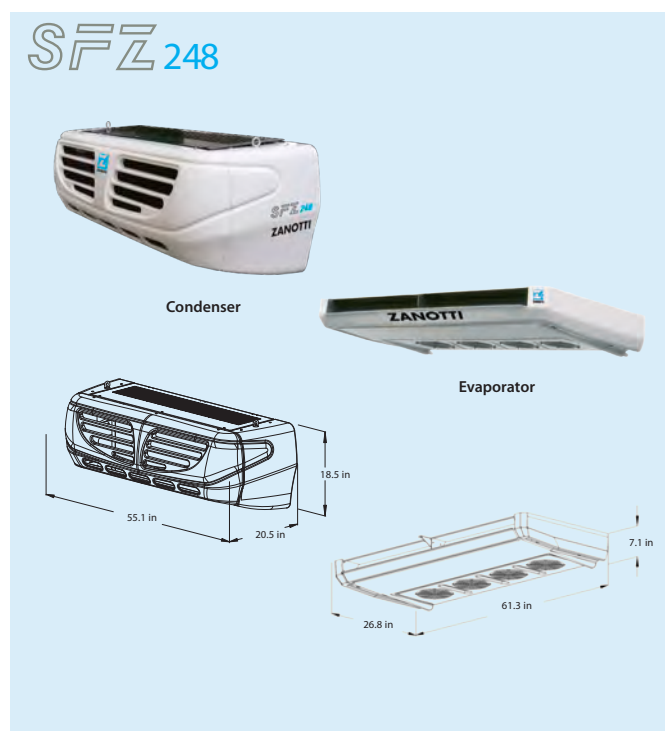
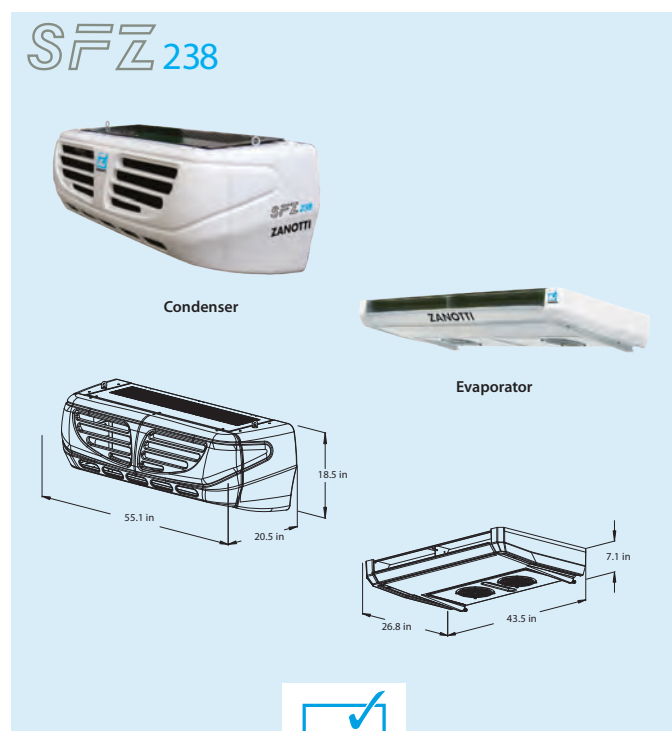
SFZ is a robust direct-drive solution for refrigerated transport on light to medium trucks. It is a proven design optimized for energy-efficiency, low noise, and easy-to-service transport of temperature-controlled goods in medium sized boxes.

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 engine, electric 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			
Refrigerant quantity	[lb]	7.71		8.81	
Road Compressor		QP 16/UPF 170		QP 16/UPF 170	
System net cooling capacity under ATP conditions (86°F ambient temperature)					
	[°F]	35°F	0°F	35°F	0°F
Road mode	[BTU/h]	17004	9308	18121	9728
Stand-by mode	[BTU/h]	13630	7277	15713	7751
Recommended body volume	[ft³]	1271	989	1483	1095
Heating capacity					
Road mode	[BTU/h]	13615		15490	
Stand-by mode	[BTU/h]	1290		9555	
Airflow rate					
Airflow rate at 100kPa static pressure	[CFM]	985		1965	
Dimensions (LxWxH)					
Condensing unit	[in]	20×55×19		20×55×19	
Evaporator unit	[in]	27×34×7		27×34×7	
Weight					
Condenser without electric stand-by	[lb]	154		170	
Condenser with electric stand-by	[lb]	282		315	
Evaporator	[lb]	58.5		94	

SFZ Multi-Temp

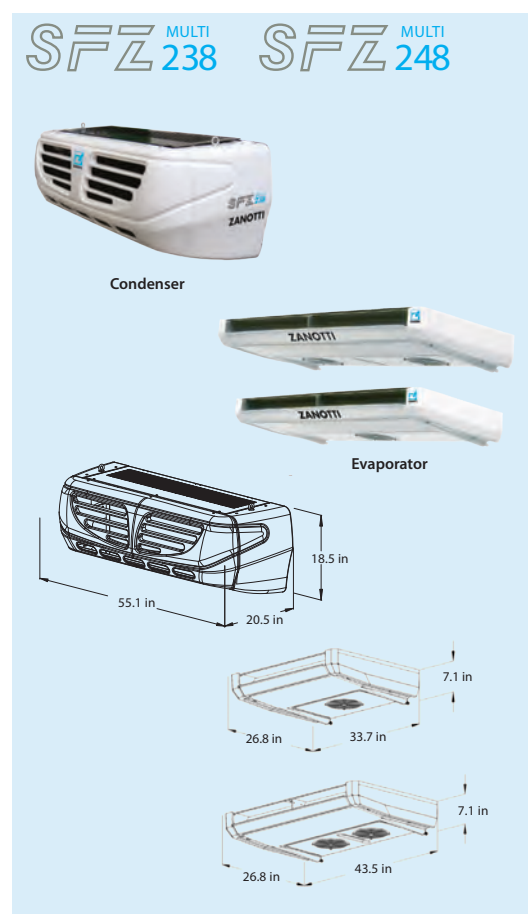
SFZ238 Multi | SFZ248 Multi

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 engine, electric 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			
Refrigerant quantity	[lb]	10.14		10.14	
Road compressor		QP 16/UPF 170		QP 16/UPF 170	
System net cooling capacity (86°F ambient temperature)					
	[°F]	35°F	0°F	35°F	0°F
Road mode	[BTU/h]	15066	8083	18155	8767
Stand-by mode	[BTU/h]	12227	5082	12758	5351
Recommended body volume	[ft³]	N/A	742	N/A	953
Heating capacity					
Road mode	[BTU/h]	13135		15115	
Stand-by mode	[BTU/h]	11005		12310	
Airflow rate					
Airflow rate at 100kPa static pressure	[CFM]	2x 491		2x 983	
Dimension					
Condensing unit	[in]	20x55x19		20x55x19	
Condenser with electric stand-by	[in]	(2x) 27x34x7		(2x) 27x34x7	
Weight					
Condenser without electric stand-by	[lb]	154		170	
Condenser with electric stand-by	[lb]	282		315	
Evaporator	[lb]	2x		2x	

Truck





Uno

U600 | U800 | U1000

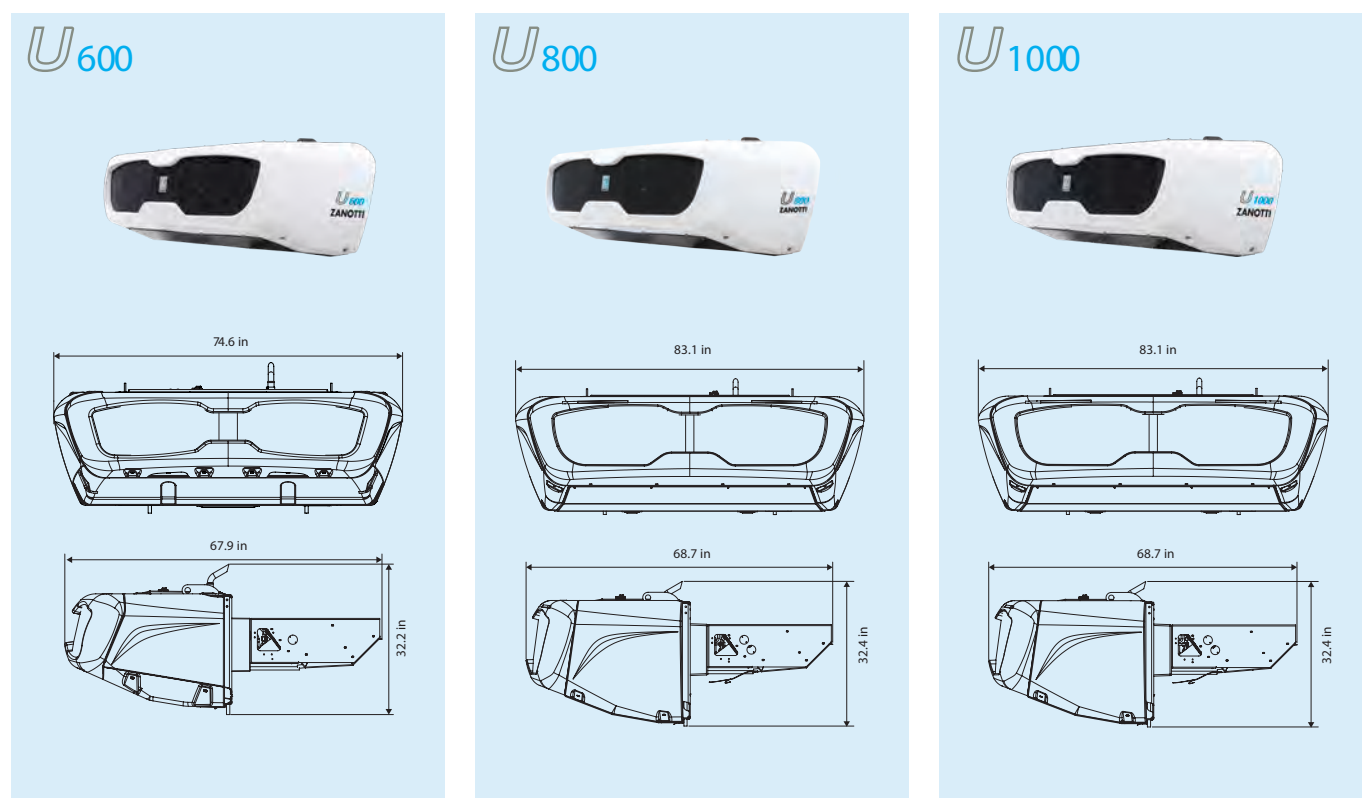
The redesigned Uno range of units are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in medium to heavy trucks. The Uno features Zanolotti's innovative direct coupling design between the engine and the compressor, 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. 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
- 2-year standard warranty





		U600	U800	U1000			
General							
Refrigerant		R452A					
Defrost		Hot gas defrost					
Refrigerant quantity	[lb]	795	10.6	10.6			
System net cooling capacity (86°F ambient temperature)							
	[°F]	35°F	0°F	35°F	0°F		
Road mode	[BTU/h]	20837	11814	32043	17679	35449	20952
Stand-by mode	[BTU/h]	11795	6155	22873	12987	29549	16810
Recommended body volume	[ft³]	2013	1483	2331	1942	2825	2472
Heating capacity							
Road mode	[BTU/h]	18425		25590		29685	
Stand-by mode	[BTU/h]	10920		19450		24565	
Airflow rate							
Airflow rate at 100kPa static pressure	[CFM]	883		1295		14715	
Air Throw	[ft]	21		24.6		28	
Weight							
Monoblock road and stand-by	[lb]	1069		1102		1210	
Monoblock road-only	[lb]	959		1003		1111	
Diesel engine							
Displacement	[in³]	52		68		68	
Rated power output	[BTU/h]	39240		51523		51523	
Maintenance interval	[hrs]	2000		2000		2000	
Road compressor							
Displacement	[in³]	14.4		19.8		23.8	
Stand-by compressor							
Displacement	[CFM]	6.5		8.5		125	

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

Stand-by voltages available: 230/3/60



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.

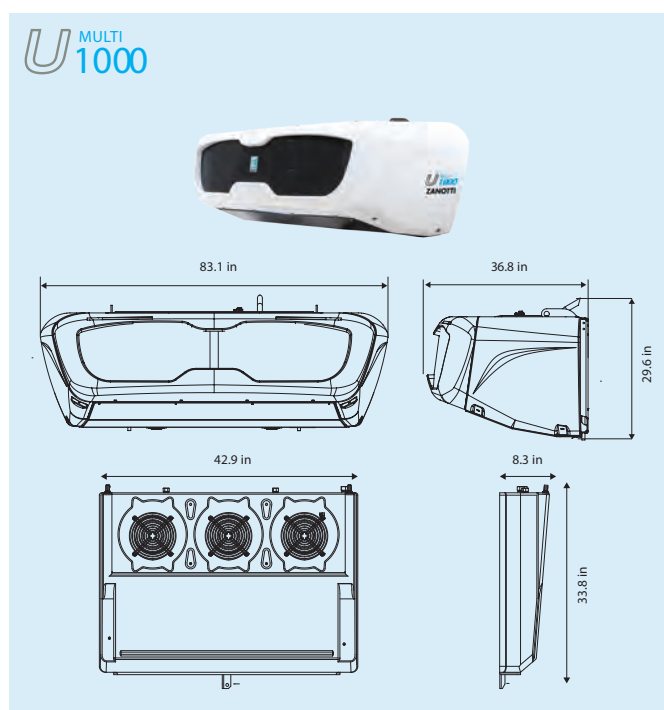
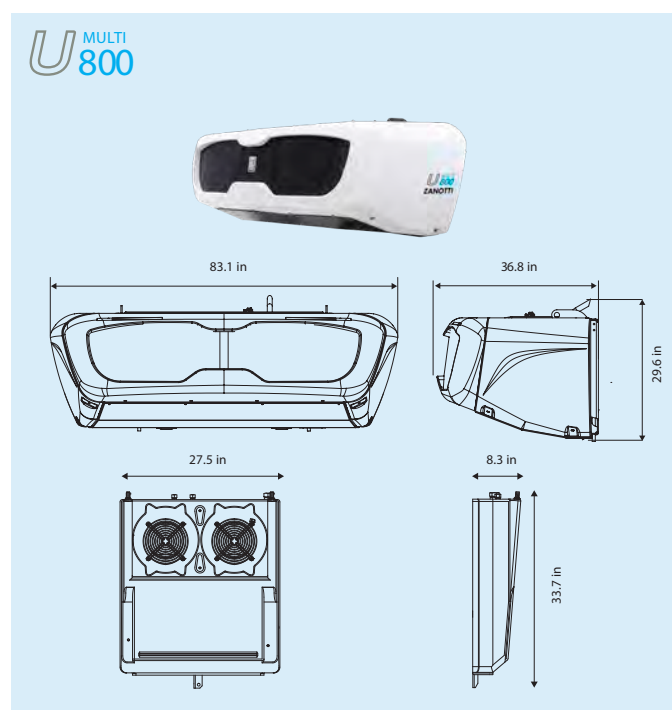
Key Features:

- 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
- 2-year standard warranty, extendable up to 5 years

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. 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.



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



	U800 Multi		U1000 Multi		
General					
Refrigerant		R452A			
Defrost		Hot gas defrost			
Refrigerant quantity	[lb]	11	1235		
System net cooling capacity under (86°F ambient temperature)					
	[°F]	35°F	0°F	35°F	0°F
Road mode	[BTU/h]	28283	15578	34798	20135
Stand-by mode	[BTU/h]	21489	11620	30709	16776
Recommended body volume	[ft³]	N/A	1589	N/A	2190
Heating capacity					
Road mode	[BTU/h]	24910	28005		
Stand-by mode	[BTU/h]	16715	25930		
Airflow rate					
Airflow rate at 100kPa static pressure	[CFM]	2x 989	2x 1483		
Air Throw	[ft]	24.5	28		
Weight					
Split road and stand-by	[lb]	1100	1100		
Monoblock road-only	[lb]	1010	1020		
Evaporator	[lb]	77 x 2	88 x 2		
Diesel engine					
Displacement	[in³]	68	68		
Rated power output	[BTU/h]	45040	45040		
Maintenance interval	[hrs]	2000	2000		
Road compressor					
Displacement	[in³]	19.8	23.8		

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

Stand-by voltages available: 230/3/60

Uno Undermount

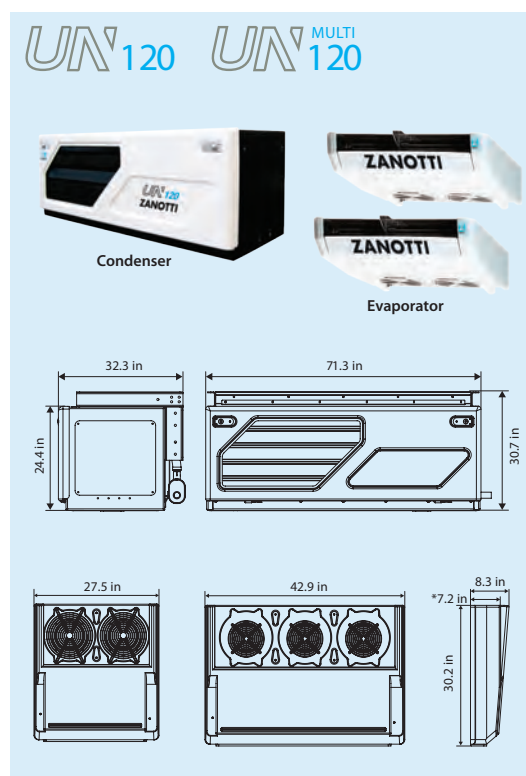
UN120 | UN120 Multi

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
- 2-year standard warranty



		UN120		UN120 Multi	
General					
Refrigerant		R452A			
Defrost		Hot gas defrost			
System net cooling capacity (86°F ambient temperature)					
	[°F]	35°F	0°F	35°F	0°F
Road mode	[BTU/h]	40747	23165	37562	21307
Stand-by mode	[BTU/h]	29117	15847	26614	14672
Recommended body volume	[ft³]	3178	2825	N/A	2119
Heating capacity					
Road mode	[BTU/h]	34120		32415	
Stand-by mode	[BTU/h]	24225		22860	
Airflow rate					
Airflow rate at 100kPa static pressure	[CFM]	2650		2x 1480	
Air Throw	[ft]	> 279		> 279	
Weight					
Condensing unit road and stand-by	[lb]	1120		1120	
Condensing unit road-only	[lb]	1050		1050	
Evaporators	[lb]	88		88 x 2	
Diesel engine					
Displacement	[in³]	68		68	
Rated power output	[BTU/h]	45040		45040	
Maintenance interval	[hrs]	2000		2000	
Road compressor					
Displacement	[in³]	23.8		23.8	
Stand-by compressor					
Displacement	[CFM]	12.6		12.6	

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

Stand-By voltages available: 230/3/60

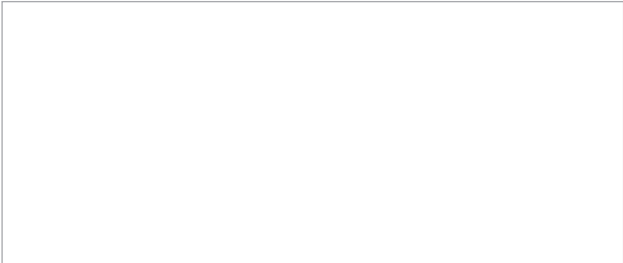
Provisional engineering data



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