

**DAIKIN**

Transport Refrigeration

# Transport Refrigeration

**AHT** 

## Imperial Catalogue



# 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

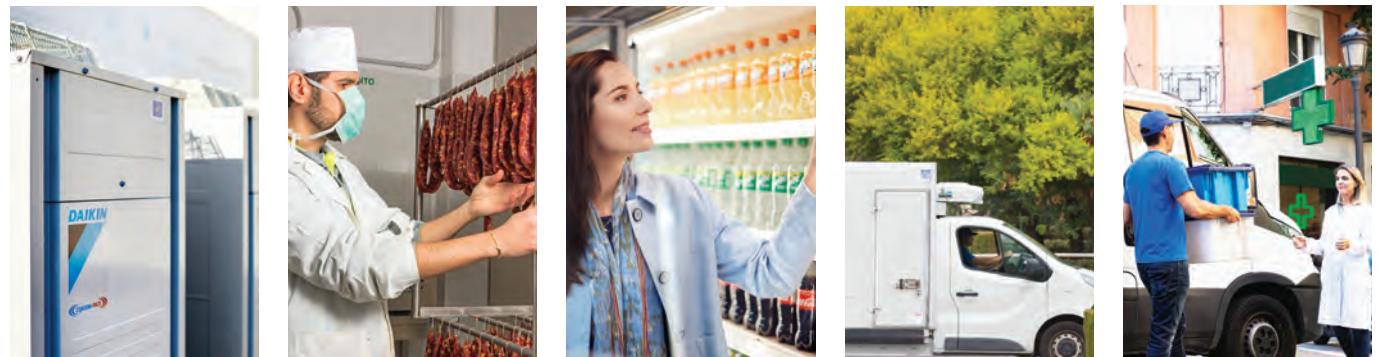
### Reshaping the future of cold chain supply

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.

### COVERING THE ENTIRE COLD CHAIN

#### INDUSTRIAL-COMMERCIAL-TRANSPORT REFRIGERATION



# Vision 2050

## Daikin Environmental Policy

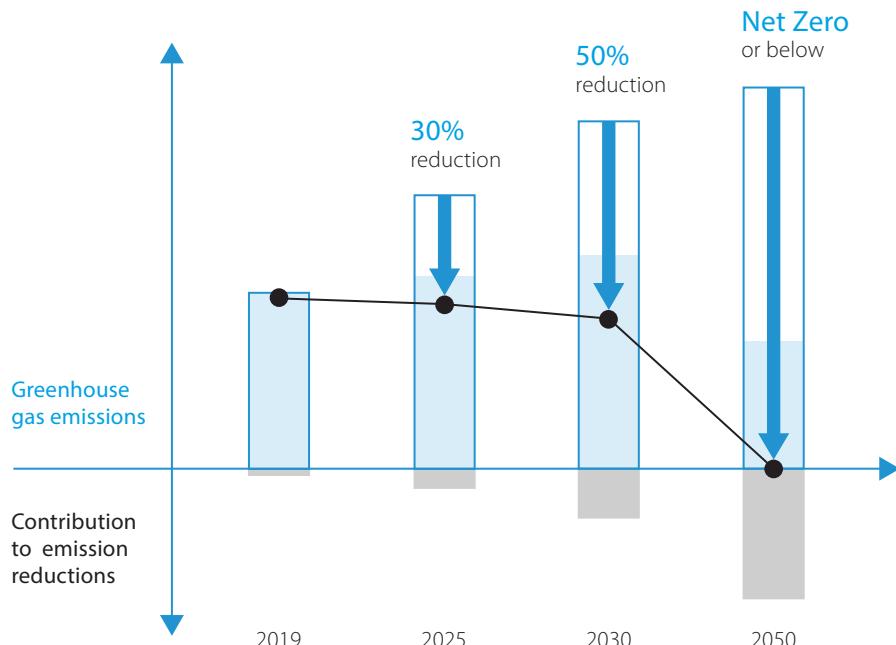
Adopted in 2015, the Paris Agreement contains a target for the latter half of this century of reducing greenhouse gas emissions to net zero and limiting global warming by less than 2°C compared to pre-industrial levels. In the spirit of the Paris Agreement, Daikin has formulated Environmental Vision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

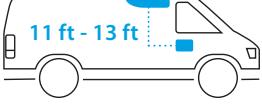
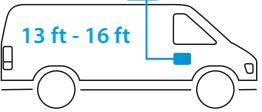
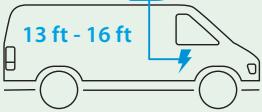
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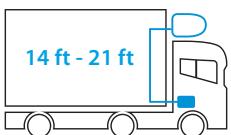
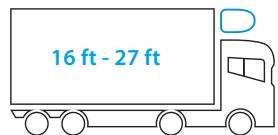
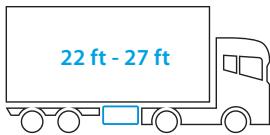
- Refrigerant recovery and recycle
- Renewable energy use
- Protecting forests
- And more...



# 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
 11 ft - 13 ft	 13 ft - 16 ft	 11 ft - 13 ft	 13 ft - 16 ft
 	 	 	 
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
		
 	 	 
SFZ238 SFZ248	U600 U800 U1000	UN120
 	 	 
SFZ238 Multi SFZ248 Multi	U800 Multi U1000 Multi	UN120 Multi

# Selection tool for box size

Daikin Product Line	Model name	Refrigerant	Recommended Box size for 35°F [ft³]	Recommended Van size for 0°F [ft³]	Insulated Box Volume [ft³] with insulation R=2.84 ft²·°F·h/Btu at 86°F ambient temperature																					
					100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
Van Electric range																										
Zero Electric	Z120b	R452A	283	141	100	283																				
	Z200e	R452A	318	212	100	300																				
	Z250e	R452A	388	247	100	300	500																			
	Z350e	R452A	424	353	100	300	500	700																		
	Z350e MT	R452A	424	318	100	300	500	700	900																	
Invisible Electric	SFZ008e	R452A	353	212	100	300																				
	SFZ009e	R452A	424	318	100	300	500																			
	SFZ009e MT	R452A	388	283	100	300	500	700	900																	
Van & Light Truck Direct Drive range																										
Zero	Z200	R452A	565	353	100	300	500	700	900	1100																
	Z200	R134A	565	N/A	100	300	500	700	900	1100																
	Z250	R134A	742	N/A	100	300	500	700	900	1100																
	Z250	R452A	742	565	100	300	500	700	900	1100																
	Z350	R452A	848	636	100	300	500	700	900	1100																
	Z380	R134A	988	N/A	100	300	500	700	900	1100																
	Z380	R452A	989	742	100	300	500	700	900	1100																
Invisible	SFZ007	R134A	388	N/A	100	300	500	700	900	1100																
	SFZ008	R452A	565	353	100	300	500	700	900	1100																
	SFZ009	R452A	848	636	100	300	500	700	900	1100																
SFZ	SFZ238	R452A	1271	989	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
	SFZ248	R452A	1480	1094	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
Van & L. Truck Direct Drive Multi Temperature																										
Zero	Z380 MT	R452A	N/A	565	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
Invisible	SFZ009 MT	R452A	N/A	530	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
SFZ	SFZ238 MT	R452A	N/A	742	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
Truck range																										
Uno	U600	R452A	2013	1483	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
	U800	R452A	2331	1942	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
	U1000	R452A	2825	2472	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
Undermount truck range																										
Uno Under	Un120	R452A	3180	2830	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
Truck Multi Temperature																										
Uno	U800 MT	R452A	N/A	1589	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
	U1000 MT	R452A	N/A	2190	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
Uno Under	Un120 MT	R452A	N/A	2119	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				
Trailer																										
Exigo	E1500	R452A	N/A	3360	100	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500				

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

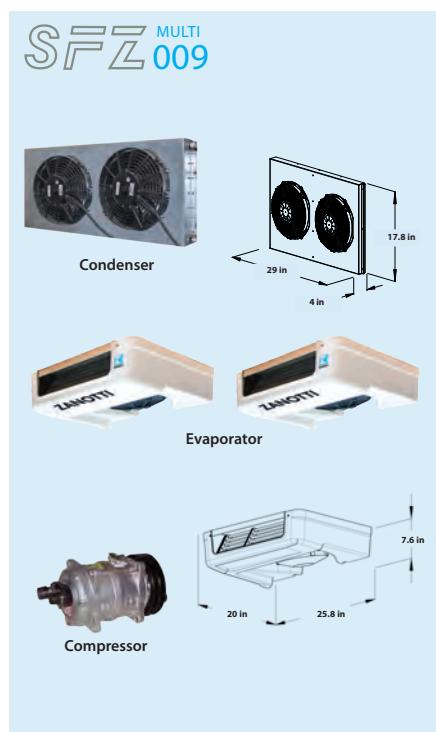
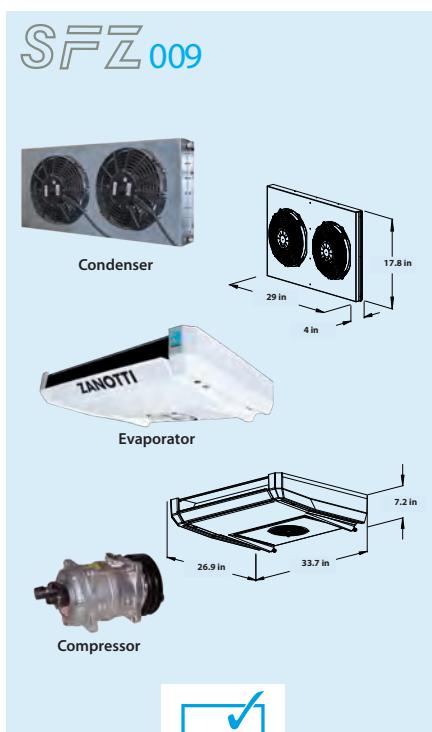
Our Invisible range is designed for discreet and efficient transportation of refrigerated products in vans. These units are installed underneath the vehicle chassis, completely invisible from the outside, preserving the aesthetics, original height and aerodynamics of the vehicle, while reducing bodywork. 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.

#### 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

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.





	SFZ007	SFZ008	SFZ009	SFZ009 Multi					
<b>General</b>									
Refrigerant		R134a		R452A					
Refrigerant quantity	[lb]	3	3	3					
Road compressor		QP13/UPF120	QP13/UPF120	QP16/UPF170					
<b>System net cooling capacity (86°F ambient temperature)</b>									
	[°F]	35°F	0°F	35°F	0°F	35°F	0°F	35°F	0°F
Road mode	[BTU/h]	5747	N/A	7131	3947	11161	6749	11361	5207
Stand-by mode	[BTU/h]	4161	N/A	4449	2707	7184	4182	7052	3403
Recommended body volume	[ft³]	388	N/A	565	353	848	636	N/A	530
<b>Heating capacity</b>									
Road mode	[BTU/h]	N/A	21975	32470	30725				
Stand-by mode	[BTU/h]	N/A	16055	18965	18890				
<b>Airflow rate</b>									
Airflow rate at 100kPa static pressure	[CFM]	462	462	625	2x 365				
<b>Dimensions (LxWxH)</b>									
Condensing unit	[in]	14x25x4.3	14x25x4.3	18x29x4	18x29x4				
Evaporator	[in]	21x24x6	21x24x6	27x34x7	(2x) 20x26x8				
<b>Weight</b>									
Condenser without electric stand-by	[lb]	55	84	99	99				
Condenser with electric stand-by	[lb]	10	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
<b>General</b>							
Refrigerant		R134a			R452A		
Refrigerant quantity	[lb]	2.95	3.2	4.63	3.1	3.64	3.75
Road Compressor		QP15/UPF150			QP13/UPF120		QP15/UPF150
<b>System net cooling capacity under ATP conditions (86°F ambient temperature)</b>							
	[°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
Stand-by mode	[BTU/h]	3172	N/A	6531	N/A	9143	N/A
Recommended body volume	[ft³]	565	N/A	742	N/A	989	N/A
		565		742		989	
<b>Heating capacity</b>							
Road mode	[BTU/h]	5980		4745		8950	
Stand-by mode	[BTU/h]	N/A		3475		5835	
		5980		4745		8950	
<b>Airflow rate</b>							
Airflow rate at 100kPa static pressure	[CFM]	366		3825		1100.5	
		366		3825		1100.5	
<b>Dimensions (LxWxH)</b>							
Condensing unit	[in]	22x34x10		24x40x11		24x40x11	
Evaporator unit	[in]	20x26x8		20x45x8		20x26x8	
		22x34x10		24x40x11		24x40x11	
<b>Weight</b>							
Condenser without electric stand-by	[lb]	62		75		88	
Condenser with electric stand-by	[lb]	119		154		172	
Evaporator	[lb]	20		20		40	
		62		75		88	

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

## Z380 Multi

# Zero Direct-Drive Multi-Temp

## Z380 Multi

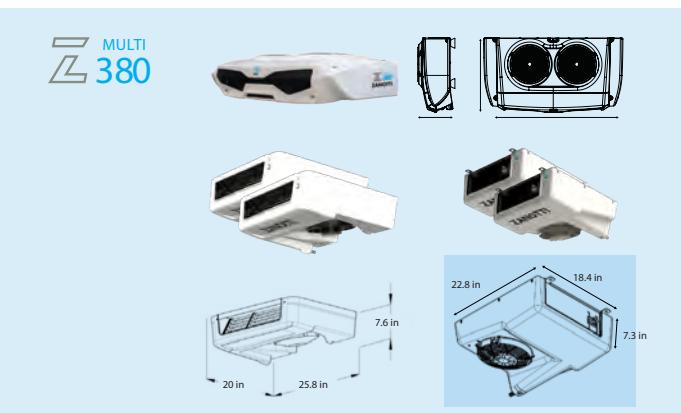
Z380 Multi and Z380 Multi (Narrow Evap) models are designed to meet the modern needs of low environmental impact refrigeration for light commercial vehicles. These units feature additional evaporators to enable transport of products with different temperature requirements in separate zones, available 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
Road mode	[BTU/h]	11565	6254	1641
Stand-by mode	[BTU/h]	7320	2726	8653
Recommended body volume	[ft³]	N/A	565	N/A
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]	24x45x11		24x45x11
Evaporator unit	[in]	(2) 20x26x8		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

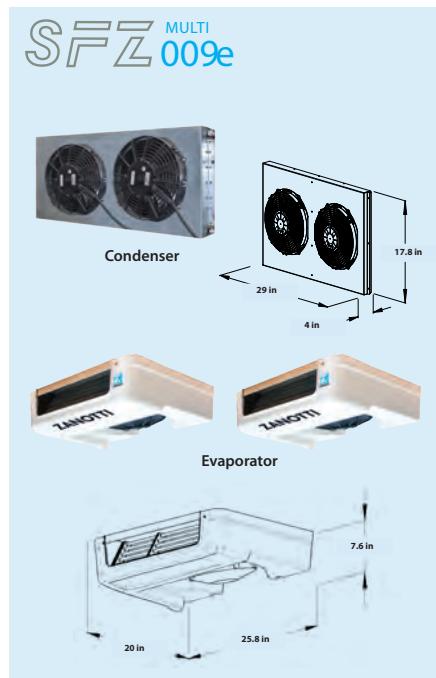
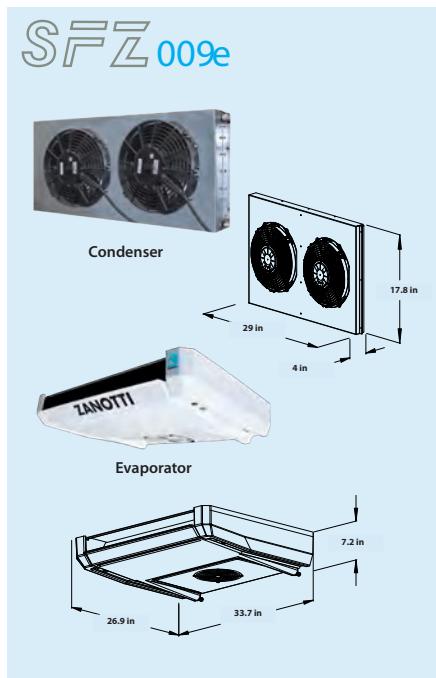
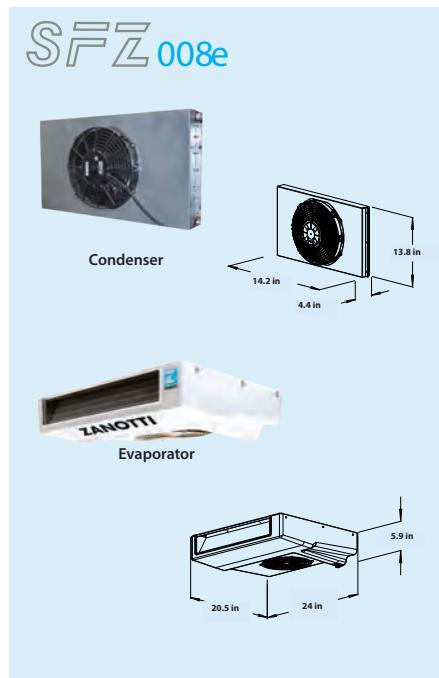
The Invisible range, with its ultra-thin dimensions make it the ideal choice for customers who need a space-saving solution. A driver-friendly interface in the cabin allows real-time monitoring and control of the unit performance to ensure the cargo is maintained at precisely the right temperature throughout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



Position of the unit on the vehicle.



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



	SFZ008e	SFZ009e	SFZ009e Multi				
<b>General</b>							
Refrigerant		R452A					
Refrigerant quantity	1.4	1.4	2.8				
<b>System net cooling capacity (86°F ambient temperature)</b>							
	[°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
<b>Heating capacity</b>							
Battery mode	[BTU/h]	4710	5630	5390			
<b>Airflow rate</b>							
Airflow rate at 100kPa static pressure	[CFM]	460	625	2x 365			
<b>Weight</b>							
Condenser with electric stand-by	[lb]	148	165	165			
Evaporator	[lb]	31	45	2x 22.5			
<b>Max current</b>							
	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 or 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)					
Battery mode	[BTU/h]	35°F 4558	0°F 1937	35°F 3023	0°F 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]	22x34x10		22x34x10	
Evaporator unit	[in]	20x26x8		20x26x8	
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.

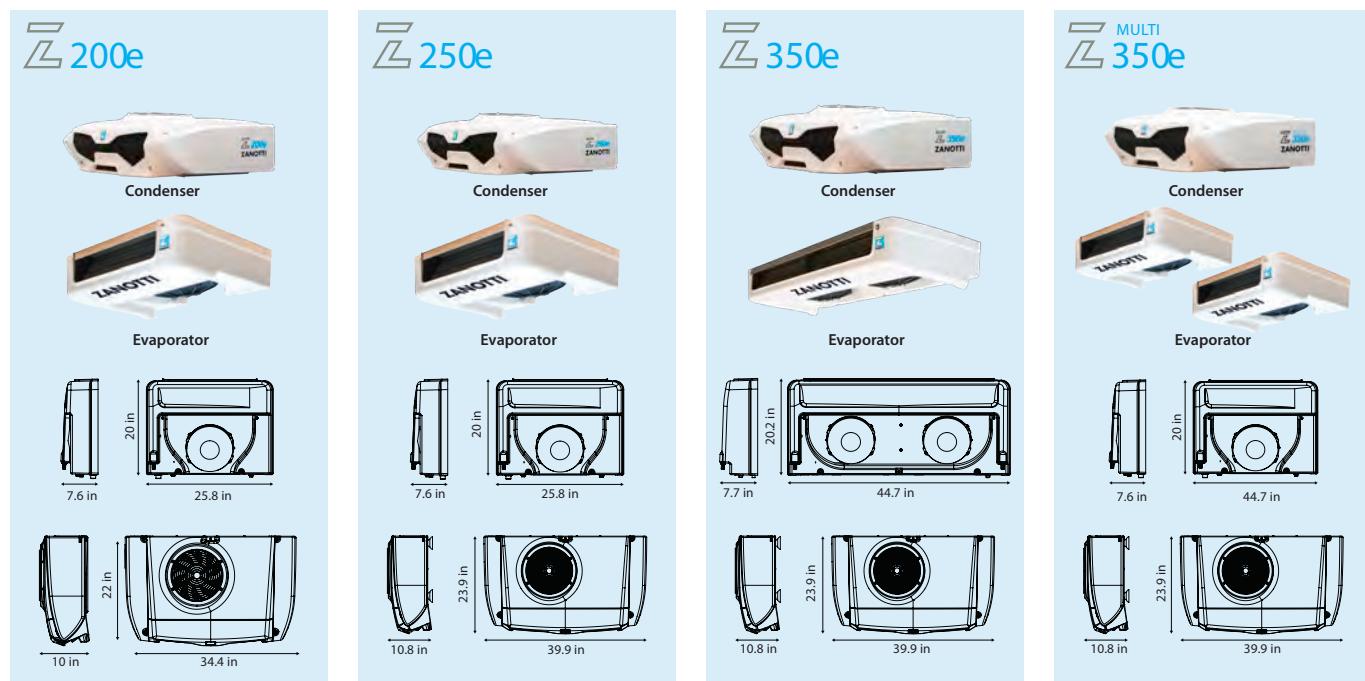
Z200e, Z250e and Z350e offer varying refrigeration capacities and volume ratings tuned for different applications. Z350e Multi features additional evaporators to enable transport of products with different temperature requirements in separate zones.

#### 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

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.





	Z200e	Z250e	Z350e	Z350e Multi					
<b>General</b>									
Refrigerant			R452A						
<b>System net cooling capacity (86°F ambient temperature)</b>									
	[°F]	35°F	0°F	35°F	0°F	35°F	0°F	35°F	0°F
Battery mode	[BTU/h]	5329	2675	6142	3554	6671	3884	6345	3575
Recommended body volume	[ft³]	318	212	388	247	424	353	424	318
<b>Heating capacity</b>									
Battery mode	[BTU/h]	4095	5120	5630	5460				
<b>Airflow rate</b>									
Airflow rate at 100kPa static pressure	[CFM]	365	382.5	765	2x365				
<b>Dimensions (LxWxH)</b>									
Condensing unit	[in]	22x34x10	24x40x11	24x40x11	24x40x11				
Evaporator unit	[in]	20x26x8	20x26x8	20x45x8	(2x) 20x26x8				
<b>Weight</b>									
Condenser with electric stand-by	[lb]	119	154	154	154				
Evaporator	[lb]	22.5	43	43	22.5				
<b>Max current</b>									
	A	100	159	166	171				



# Light Truck





## SFZ

### SFZ238 | SFZ248

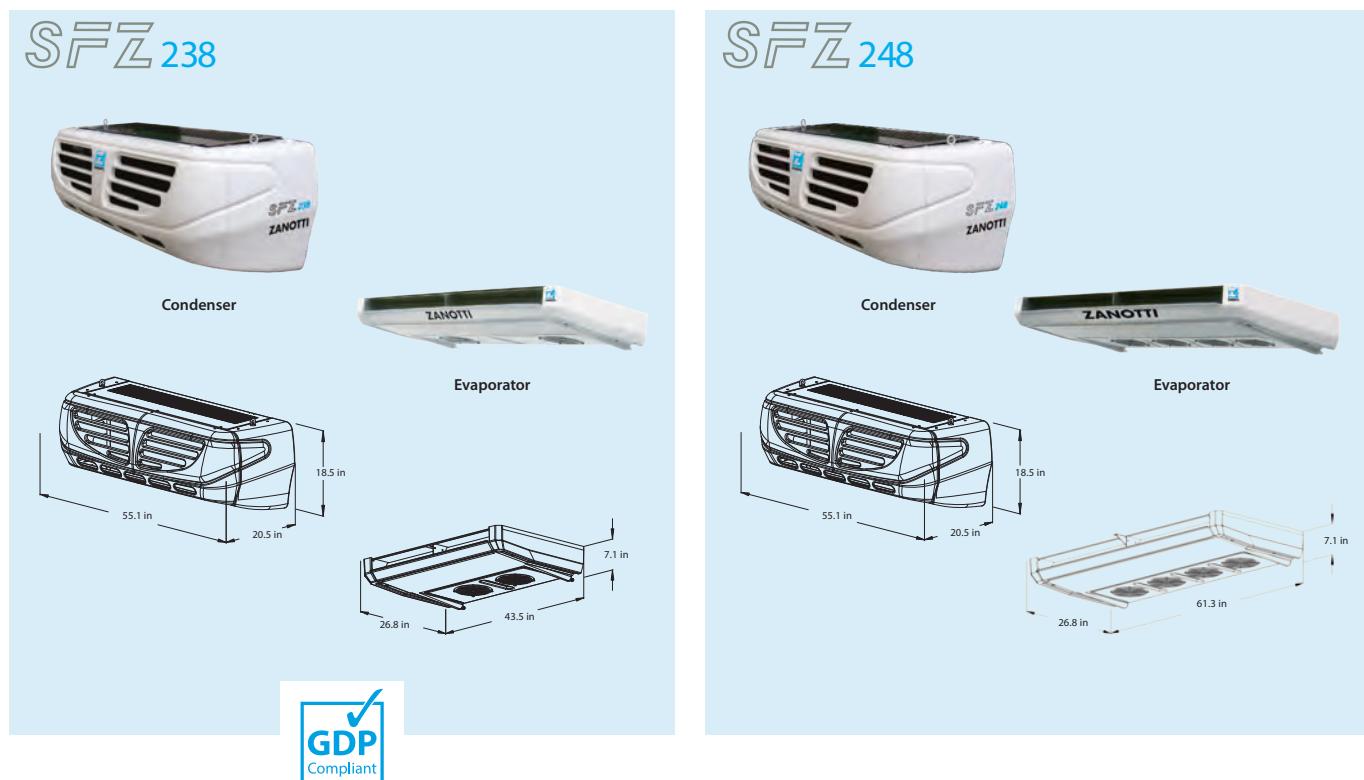
SFZ is a robust direct-drive solution for refrigerated transport on light to medium trucks. It is a proven design optimized for energy-efficiency, low noise, and easy-to-service transport of temperature-controlled goods in medium sized boxes.

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	
<b>General</b>				
Refrigerant			R452A	
Refrigerant quantity	[lb]	7.71		8.81
Road Compressor		QP16/UPF170		QP16/UPF170
<b>System net cooling capacity under ATP conditions (86°F ambient temperature)</b>				
	[°F]	35°F	0°F	35°F
Road mode	[BTU/h]	17004	9308	18121
Stand-by mode	[BTU/h]	13630	7277	15713
Recommended body volume	[ft³]	1271	989	1483
<b>Heating capacity</b>				
Road mode	[BTU/h]	13615		15490
Stand-by mode	[BTU/h]	1290		9555
<b>Airflow rate</b>				
Airflow rate at 100kPa static pressure	[CFM]	985		1965
<b>Dimensions (LxWxH)</b>				
Condensing unit	[in]	20x55x19		20x55x19
Evaporator unit	[in]	27x34x7		27x34x7
<b>Weight</b>				
Condenser without electric stand-by	[lb]	154		170
Condenser with electric stand-by	[lb]	282		315
Evaporator	[lb]	58.5		94

## SFZ Multi-Temp

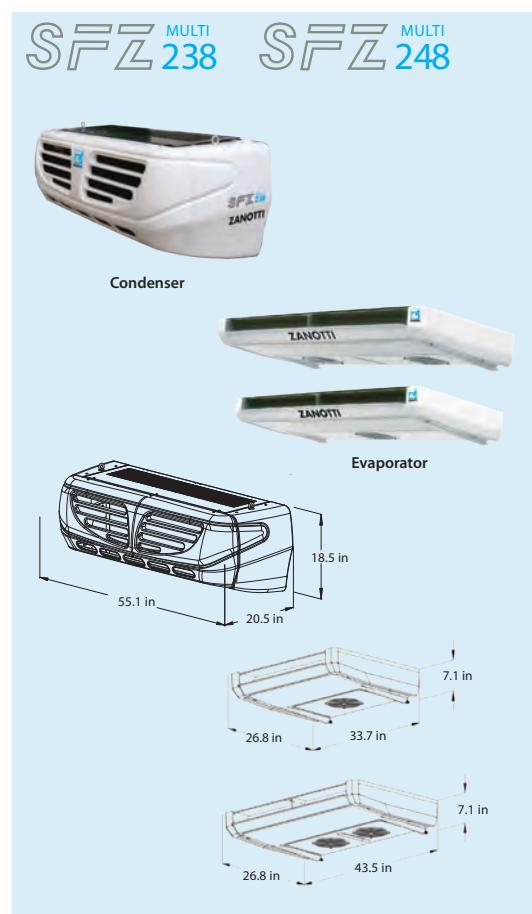
### SFZ238 Multi | SFZ248 Multi

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	
<b>General</b>					
Refrigerant				R452A	
Refrigerant quantity	[lb]	10.14		10.14	
Road compressor		QP16/UPF170		QP16/UPF170	
<b>System net cooling capacity (86°F ambient temperature)</b>					
	[°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
<b>Heating capacity</b>					
Road mode	[BTU/h]	13135		15115	
Stand-by mode	[BTU/h]	1005		12310	
<b>Airflow rate</b>					
Airflow rate at 100kPa static pressure	[CFM]	2x 491		2x 983	
<b>Dimension</b>					
Condensing unit	[in]	20x55x19		20x55x19	
Condenser with electric stand-by	[in]	(2x) 27x34x7		(2x) 27x34x7	
<b>Weight</b>					
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

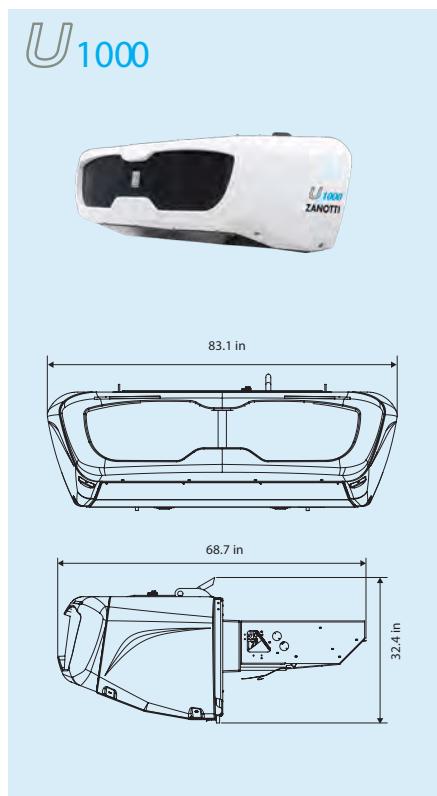
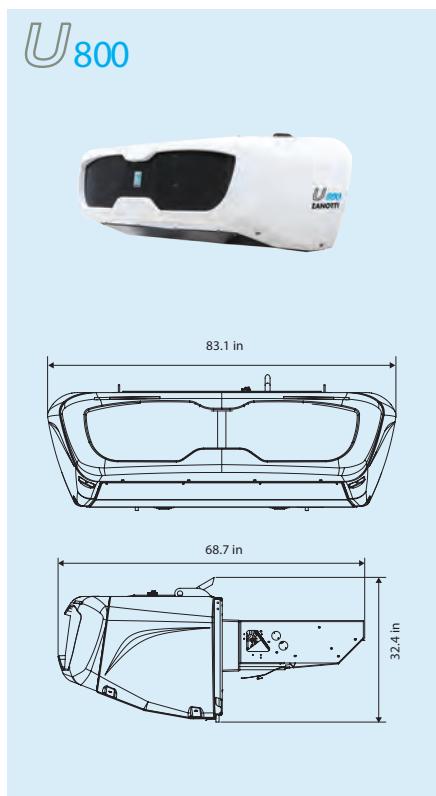
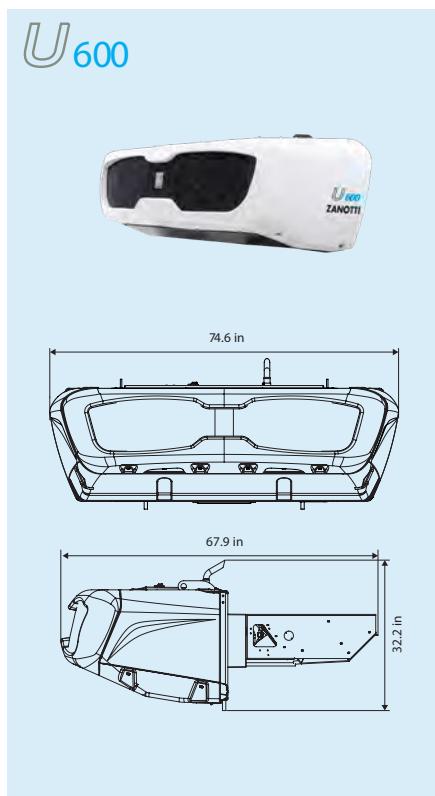
The redesigned Uno range of units are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in medium to heavy trucks. The Uno features Zanotti's innovative direct coupling design between the engine and the compressor,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

U600, U800, and U1000 are designed as nose-mount, installed on the front wall of the box. The electronics enabled advanced diagnostics. 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
<b>General</b>				
Refrigerant			R452A	
Defrost			Hot gas defrost	
Refrigerant quantity	[lb]	795	10.6	10.6
<b>System net cooling capacity (86°F ambient temperature)</b>				
	[°F]	35°F	0°F	35°F
Road mode	[BTU/h]	20837	11814	32043
Stand-by mode	[BTU/h]	11795	6155	22873
Recommended body volume	[ft³]	2013	1483	2331
			0°F	35°F
			17679	35449
			12987	29549
			1942	2825
				2472
<b>Heating capacity</b>				
Road mode	[BTU/h]	18425	25590	29685
Stand-by mode	[BTU/h]	10920	19450	24565
<b>Airflow rate</b>				
Airflow rate at 100kPa static pressure	[CFM]	883	1295	14715
Air Throw	[ft]	21	24.6	28
<b>Weight</b>				
Monoblock road and stand-by	[lb]	1069	102	1210
Monoblock road-only	[lb]	959	1003	1111
<b>Diesel engine</b>				
Displacement	[in³]	52	68	68
Rated power output	[BTU/h]	39240	51523	51523
Maintenance interval	[hrs]	2000	2000	2000
<b>Road compressor</b>				
Displacement	[in³]	14.4	19.8	23.8
<b>Stand-by compressor</b>				
Displacement	[CFM]	6.5	8.5	12.5

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

Stand-by voltages available: 230/3/60



## Uno

### U800 Multi | U1000 Multi

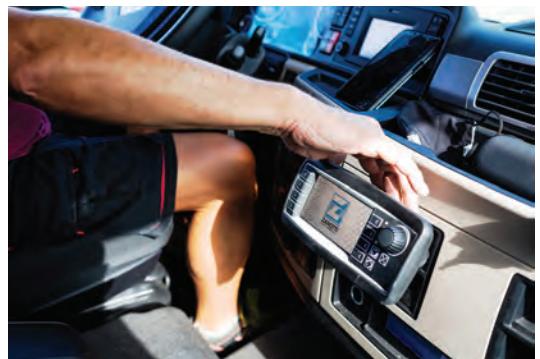
The redesigned Uno range of units are independently powered with a diesel engine, and available in various capacities to efficiently transport temperature-controlled products in medium to heavy trucks. The Uno features Zanotti's innovative direct coupling design between the engine and the compressor,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

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.

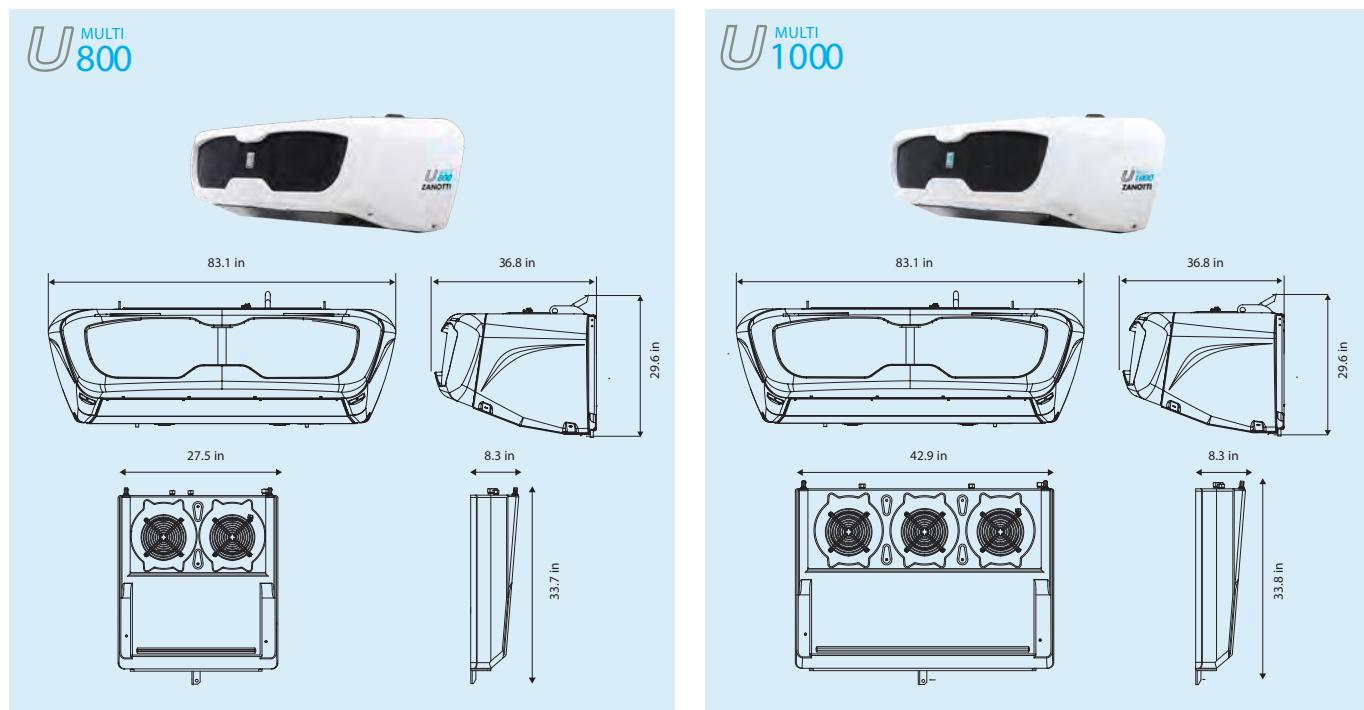
#### Key Features:

- 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

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



## U800 Multi | U1000 Multi



		U800 Multi	U1000 Multi
<b>General</b>			
Refrigerant		R452A	
Defrost		Hot gas defrost	
Refrigerant quantity	[lb]	11	1235
<b>System net cooling capacity under (86°F ambient temperature)</b>			
	[°F]	35°F	0°F
Road mode	[BTU/h]	28283	34798
Stand-by mode	[BTU/h]	21489	30709
Recommended body volume	[ft³]	N/A	2190
<b>Heating capacity</b>			
Road mode	[BTU/h]	24910	28005
Stand-by mode	[BTU/h]	16715	25930
<b>Airflow rate</b>			
Airflow rate at 100kPa static pressure	[CFM]	2x 989	2x 1483
Air Throw	[ft]	24.5	28
<b>Weight</b>			
Split road and stand-by	[lb]	100	110
Monoblock road-only	[lb]	1010	1020
Evaporator	[lb]	77 x 2	88 x 2
<b>Diesel engine</b>			
Displacement	[in³]	68	68
Rated power output	[BTU/h]	45040	45040
Maintenance interval	[hrs]	2000	2000
<b>Road compressor</b>			
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

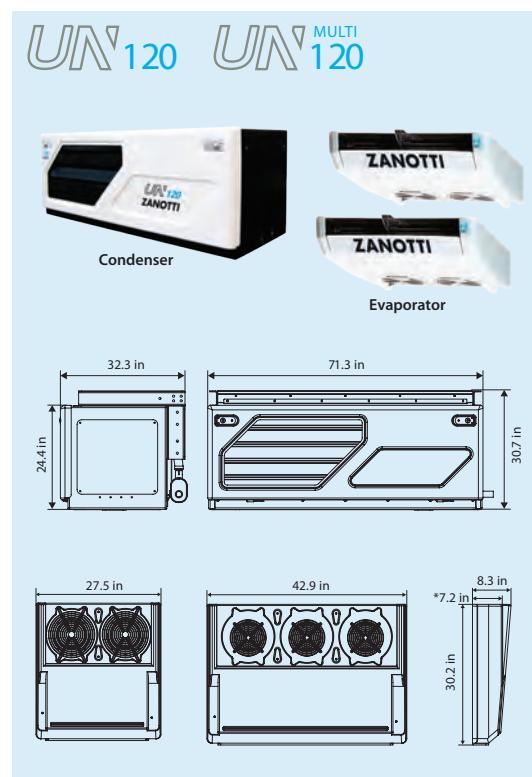
### UN120 | UN120 Multi

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			
<b>General</b>					
Refrigerant		R452A			
Defrost		Hot gas defrost			
<b>System net cooling capacity (86°F ambient temperature)</b>					
	[°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
<b>Heating capacity</b>					
Road mode	[BTU/h]	34120		32415	
Stand-by mode	[BTU/h]	24225		22860	
<b>Airflow rate</b>					
Airflow rate at 100kPa static pressure	[CFM]	2650		2x 1480	
Air Throw	[ft]	> 279		> 279	
<b>Weight</b>					
Condensing unit road and stand-by	[lb]	120		120	
Condensing unit road-only	[lb]	1050		1050	
Evaporators	[lb]	88		88 x 2	
<b>Diesel engine</b>					
Displacement	[in³]	68		68	
Rated power output	[BTU/h]	45040		45040	
Maintenance interval	[hrs]	2000		2000	
<b>Road compressor</b>					
Displacement	[in³]	23.8		23.8	
<b>Stand-by compressor</b>					
Displacement	[CFM]	12.6		12.6	

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

Stand-By voltages available: 230/3/60

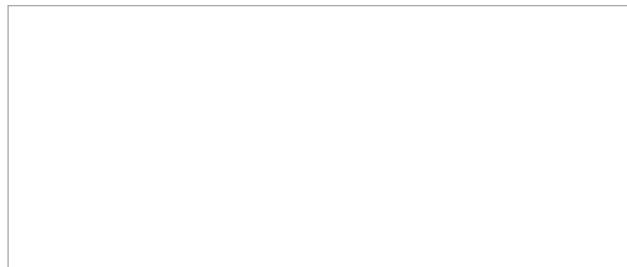
 Provisional engineering data



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