



King of Cold



**ZANOTTI**

*a member of* **DAIKIN** *group*

Refrigeration excellence since 1962

**Transblock<sup>®</sup>**

transport refrigeration system



ZANOTTI IN THE WORLD..... 4

TRANSPORT REFRIGERATION PRODUCT RANGE..... 6

**PRODUCTS**

**DIRECT DRIVE INVISIBLE UNITS**

SFZ007..... 9  
 SFZ008..... 9  
 SFZ009..... 10

**BATTERY DRIVE UNITS**

zer0° 120b..... 11

**DIRECT DRIVE SPLIT UNITS**

zer0° 200s..... 12  
 zer0° 250s..... 13  
 zer0° 350s..... 14  
 zer0° 380s..... 15  
 zer0° 380s CUBE..... 15  
 SFE230..... 16  
 SFZ238..... 17  
 SFZ248..... 18  
 SFZ258..... 19

**DIRECT DRIVE MONOBLOCK UNITS**

UFZ328..... 20  
 UFZ338..... 20  
 UFZ348..... 21

**DIESEL MONOBLOCK UNITS**

DFZ425..... 22  
 DFZ430..... 22  
 un0° 60..... 23  
 un0° 80..... 24  
 un0° 100..... 25  
 un0° 120..... 26

**DIESEL UNDERMOUNT UNITS**

un0° 100U..... 27  
 un0° 120U..... 28

**MULTI-TEMPERATURE UNITS**

zer0° 380s multi-temperature..... 29  
 SFZ248/2 multi-temperature..... 30  
 un0° DIESEL multi-temperature..... 31  
 un0° DIESEL UNDERMOUNT  
 multi-temperature..... 32

**TRAILER UNIT**

TFZ620..... 33

**UNITS FOR MOVING COLD ROOMS**

AS-R / AS-E..... 34

CALCULATION CONDITIONS..... 35

ZANOTTI FOR THE WHOLE COLD CHAIN..... 35

# ZANOTTI IN THE WORLD

Think globally, act locally

## HEADQUARTERS Refrigeration excellence since 1962



**ZANOTTI SPA**  
ITALY, PEGOGNAGA (MANTOVA)

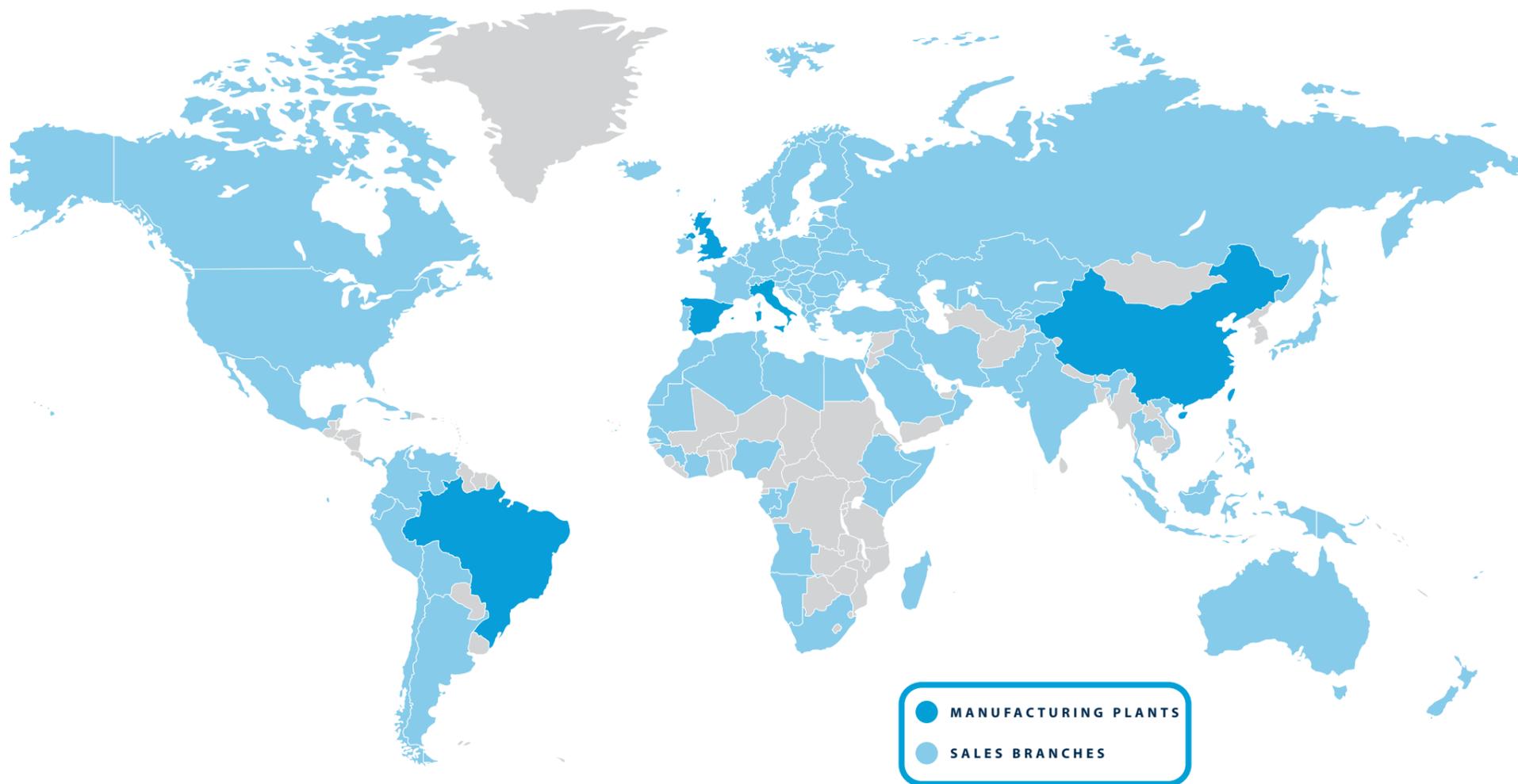


**INDUSTRIAL DIVISION**  
ITALY, BOLOGNA

Zanotti SpA for over 50 years designs, develops, manufactures and tests refrigeration equipment for food storage to cool, preserve and transport food products. Zanotti is a world leader and the company's success is based on the constant research conducted to technologically improve energy saving efficiency and to find customized solutions aimed to meet customer demands. The products developed by Zanotti cover the needs of small to medium-sized cooling necessities, as well as the needs of logistic and storage centers. The transport refrigeration units complete the cooling series specifically designed for the short, medium to long distance transportation of food.



Zanotti SpA, at their headquarters in Pegognaga, Mantova, Italy, self-generates and uses 100% of its energy from renewable sources for use in their production. This, in the commitment to implement solutions that better respect the environment.



- MANUFACTURING PLANTS
- SALES BRANCHES

### ZANOTTI SMART SOLUTIONS S P A I N



### HUBBARD PRODUCTS LTD UNITED KINGDOM



Today, Zanotti SpA is an International Group with the Italian headquarter and different production plants in Spain and England. Zanotti counts on a strong network of certified suppliers who provide expertise and assistance worldwide as well as, ensure a continuous exchange of ideas, essential in developing new products to satisfy future customer demands.

**THE MOST COMPLETE RANGE OF TRANSPORT REFRIGERATION UNITS FOR FOOD INDUSTRY**



**King of Cold**



Zanotti manufactures the greatest range of mobile transport refrigeration product under the Transblock® brand. The company differentiates itself by manufacturing a variety of models that can be tailored to a wide range of customer solutions. Zanotti pays great attention to the quality of all components and materials used, as well as to the assembly and implementation technologies in order to ensure the consistency and product integrity of all products sold around the world.

UNITS FOR SMALL COLD ROOMS			UNITS FOR MEDIUM COLD ROOMS			UNITS FOR LARGE COLD ROOMS		SPECIAL UNITS																																																																																																																									
<p><b>UNITS FOR SMALL COLD ROOMS</b></p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;"> <p><b>DIRECT DRIVE INVISIBLE UNITS</b></p> <p>3,5 - 4 m</p> <table border="1"> <tr><th>Tc</th><th colspan="2">Ta</th></tr> <tr><td></td><th>+30 °C</th><th>+40 °C</th></tr> <tr><td>0 °C</td><td>10 ÷ 21 m³</td><td>7 ÷ 16 m³</td></tr> <tr><td>-20 °C</td><td>10 ÷ 17 m³</td><td>7 ÷ 12 m³</td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <p><b>BATTERY DRIVE UNITS</b></p> <p>4 m</p> <table border="1"> <tr><th>Tc</th><th colspan="2">Ta</th></tr> <tr><td></td><th>+30 °C</th><th>+40 °C</th></tr> <tr><td>6 °C / 0 °C</td><td>4,5 ÷ 8 m³</td><td>3 ÷ 6 m³</td></tr> <tr><td>-20 °C</td><td>4 m³</td><td>3 m³</td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <p><b>DIRECT DRIVE SPLIT UNITS</b></p> <p>4 - 5 m</p> <table border="1"> <tr><th>Tc</th><th colspan="2">Ta</th></tr> <tr><td></td><th>+30 °C</th><th>+40 °C</th></tr> <tr><td>0 °C</td><td>12 ÷ 28 m³</td><td>9 ÷ 21 m³</td></tr> <tr><td>-20 °C</td><td>10 ÷ 21 m³</td><td>8 ÷ 16 m³</td></tr> </table> </div> </div>			Tc	Ta			+30 °C	+40 °C	0 °C	10 ÷ 21 m³	7 ÷ 16 m³	-20 °C	10 ÷ 17 m³	7 ÷ 12 m³	Tc	Ta			+30 °C	+40 °C	6 °C / 0 °C	4,5 ÷ 8 m³	3 ÷ 6 m³	-20 °C	4 m³	3 m³	Tc	Ta			+30 °C	+40 °C	0 °C	12 ÷ 28 m³	9 ÷ 21 m³	-20 °C	10 ÷ 21 m³	8 ÷ 16 m³	<p><b>UNITS FOR MEDIUM COLD ROOMS</b></p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;"> <p><b>LARGE DIRECT DRIVE SPLIT UNITS</b></p> <p>5 - 7 m</p> <table border="1"> <tr><th>Tc</th><th colspan="2">Ta</th></tr> <tr><td></td><th>+30 °C</th><th>+40 °C</th></tr> <tr><td>0 °C</td><td>28 ÷ 54 m³</td><td>20 ÷ 38 m³</td></tr> <tr><td>-20 °C</td><td>21 ÷ 41 m³</td><td>16 ÷ 35 m³</td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <p><b>DIRECT DRIVE MONOBLOCK UNITS</b></p> <p>5 - 7 m</p> <table border="1"> <tr><th>Tc</th><th colspan="2">Ta</th></tr> <tr><td></td><th>+30 °C</th><th>+40 °C</th></tr> <tr><td>0 °C</td><td>22 ÷ 50 m³</td><td>15 ÷ 35 m³</td></tr> <tr><td>-20 °C</td><td>19 ÷ 35 m³</td><td>13 ÷ 24 m³</td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <p><b>DIESEL MONOBLOCK UNITS</b></p> <p>5,5 - 8,5 m +</p> <table border="1"> <tr><th>Tc</th><th colspan="2">Ta</th></tr> <tr><td></td><th>+30 °C</th><th>+40 °C</th></tr> <tr><td>0 °C</td><td>34 ÷ 80 m³</td><td>23 ÷ 60 m³</td></tr> <tr><td>-20 °C</td><td>30 ÷ 70 m³</td><td>19 ÷ 52 m³</td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <p><b>DIESEL UNDERMOUNT UNITS</b></p> <p>7,5 - 8,5 m +</p> <table border="1"> <tr><th>Tc</th><th colspan="2">Ta</th></tr> <tr><td></td><th>+30 °C</th><th>+40 °C</th></tr> <tr><td>0 °C</td><td>65 ÷ 78 m³</td><td>48 ÷ 57 m³</td></tr> <tr><td>-20 °C</td><td>54 ÷ 67 m³</td><td>38 ÷ 50 m³</td></tr> </table> </div> </div>			Tc	Ta			+30 °C	+40 °C	0 °C	28 ÷ 54 m³	20 ÷ 38 m³	-20 °C	21 ÷ 41 m³	16 ÷ 35 m³	Tc	Ta			+30 °C	+40 °C	0 °C	22 ÷ 50 m³	15 ÷ 35 m³	-20 °C	19 ÷ 35 m³	13 ÷ 24 m³	Tc	Ta			+30 °C	+40 °C	0 °C	34 ÷ 80 m³	23 ÷ 60 m³	-20 °C	30 ÷ 70 m³	19 ÷ 52 m³	Tc	Ta			+30 °C	+40 °C	0 °C	65 ÷ 78 m³	48 ÷ 57 m³	-20 °C	54 ÷ 67 m³	38 ÷ 50 m³	<p><b>UNITS FOR LARGE COLD ROOMS</b></p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;"> <p><b>MULTI-TEMPERATURE UNITS</b></p> <p>4 - 8,5 m +</p> <table border="1"> <tr><th>Tc</th><th colspan="2">Ta</th></tr> <tr><td></td><th>+30 °C</th><th>+40 °C</th></tr> <tr><td>32 °F</td><td>16 ÷ 60 m³</td><td>11 ÷ 43 m³</td></tr> <tr><td>-4 °F</td><td>17 ÷ 48 m³</td><td>12 ÷ 34 m³</td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <p><b>TRAILER UNIT</b></p> <p>15 m</p> <table border="1"> <tr><th>Tc</th><th colspan="2">Ta</th></tr> <tr><td></td><th>+30 °C</th><th>+40 °C</th></tr> <tr><td>0 °C</td><td>90 m³</td><td>80 m³</td></tr> <tr><td>-20 °C</td><td>75 m³</td><td>60 m³</td></tr> </table> </div> </div>		Tc	Ta			+30 °C	+40 °C	32 °F	16 ÷ 60 m³	11 ÷ 43 m³	-4 °F	17 ÷ 48 m³	12 ÷ 34 m³	Tc	Ta			+30 °C	+40 °C	0 °C	90 m³	80 m³	-20 °C	75 m³	60 m³	<p><b>UNITS FOR MOVING COLD ROOMS</b></p> <p>4-17 m</p> <table border="1"> <tr><th>Tc</th><th colspan="2">Ta</th></tr> <tr><td></td><th>+30 °C</th><th></th></tr> <tr><td>+10 ÷ -5 °C</td><td>9 ÷ 198 m³</td><td></td></tr> <tr><td>-15 ÷ -25 °C</td><td>4 ÷ 177 m³</td><td></td></tr> </table>		Tc	Ta			+30 °C		+10 ÷ -5 °C	9 ÷ 198 m³		-15 ÷ -25 °C	4 ÷ 177 m³	
Tc	Ta																																																																																																																																
	+30 °C	+40 °C																																																																																																																															
0 °C	10 ÷ 21 m³	7 ÷ 16 m³																																																																																																																															
-20 °C	10 ÷ 17 m³	7 ÷ 12 m³																																																																																																																															
Tc	Ta																																																																																																																																
	+30 °C	+40 °C																																																																																																																															
6 °C / 0 °C	4,5 ÷ 8 m³	3 ÷ 6 m³																																																																																																																															
-20 °C	4 m³	3 m³																																																																																																																															
Tc	Ta																																																																																																																																
	+30 °C	+40 °C																																																																																																																															
0 °C	12 ÷ 28 m³	9 ÷ 21 m³																																																																																																																															
-20 °C	10 ÷ 21 m³	8 ÷ 16 m³																																																																																																																															
Tc	Ta																																																																																																																																
	+30 °C	+40 °C																																																																																																																															
0 °C	28 ÷ 54 m³	20 ÷ 38 m³																																																																																																																															
-20 °C	21 ÷ 41 m³	16 ÷ 35 m³																																																																																																																															
Tc	Ta																																																																																																																																
	+30 °C	+40 °C																																																																																																																															
0 °C	22 ÷ 50 m³	15 ÷ 35 m³																																																																																																																															
-20 °C	19 ÷ 35 m³	13 ÷ 24 m³																																																																																																																															
Tc	Ta																																																																																																																																
	+30 °C	+40 °C																																																																																																																															
0 °C	34 ÷ 80 m³	23 ÷ 60 m³																																																																																																																															
-20 °C	30 ÷ 70 m³	19 ÷ 52 m³																																																																																																																															
Tc	Ta																																																																																																																																
	+30 °C	+40 °C																																																																																																																															
0 °C	65 ÷ 78 m³	48 ÷ 57 m³																																																																																																																															
-20 °C	54 ÷ 67 m³	38 ÷ 50 m³																																																																																																																															
Tc	Ta																																																																																																																																
	+30 °C	+40 °C																																																																																																																															
32 °F	16 ÷ 60 m³	11 ÷ 43 m³																																																																																																																															
-4 °F	17 ÷ 48 m³	12 ÷ 34 m³																																																																																																																															
Tc	Ta																																																																																																																																
	+30 °C	+40 °C																																																																																																																															
0 °C	90 m³	80 m³																																																																																																																															
-20 °C	75 m³	60 m³																																																																																																																															
Tc	Ta																																																																																																																																
	+30 °C																																																																																																																																
+10 ÷ -5 °C	9 ÷ 198 m³																																																																																																																																
-15 ÷ -25 °C	4 ÷ 177 m³																																																																																																																																

**ALL CERTIFIED**

**CERTIFICATIONS FOR EACH COUNTRY**

LEGEND	
Tc	cold room temperature
Ta	ambient temperature

**THERMORECORDER**  
COLD ROOM TEMPERATURE RECORDER FOR TRANSPORT REFRIGERATION AVAILABLE FOR ALL MODELS

**ZANOTTI GREEN TECHNOLOGY**

Through over 50 years Zanotti acquired know-how also concerns the environmental aspects involved since the products are developed to provide low energy consumptions and reduced noise levels, as to meet the current technological trends that aim to contain greenhouse gas emissions.

# ZANOTTI R-452A

## A NEW FRONTIERS OF GREEN SOLUTIONS

### Why choose R-452A?

R-452A is a non-flammable, next generation HFO-based refrigerant, non-ozone depleting thanks to its low GWP (2141), developed to replace R404A. Similar low discharge temperature makes it suitable for new and retrofit of existing systems transport refrigeration application in place of R404A, offering comparable energy efficiency. R-452A is applicable on low and medium temperature transport refrigeration for vans and trucks.

#### Advantages

- Non-ozone depleting and lower GWP, approx 50% reduction vs. R404A
- No increase in compressor discharge temperatures
- Comparable energy efficiency
- Quick and low cost retrofit from R404A
- Safe and non-flammable (ASHRAE A1)
- Non-toxic (ASHRAE Toxicity)

R-452A gas is available for all Zanotti transport refrigeration units



Ultra compact unit called "invisible" because it is installed under the bonnet (under-mount) leaving vehicle size and external design unchanged, ultra- low profile evaporator.

#### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN KIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- REFRIGERATOR HOSE KIT COMPLETE WITH SERVICE PARTS
- EVAPORATOR READY FOR A HOT GAS DEFROST KIT CONNECTIONS
- CARTON PALLET PACKAGING

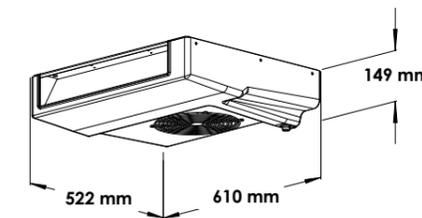
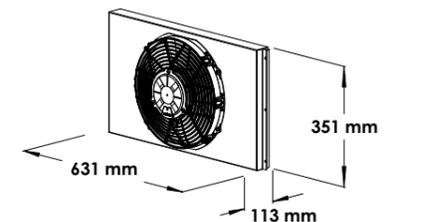
#### OPTIONALS

- HOT GAS DEFROSTING KIT (ONLY FOR SFZ008 AND SFZ009 MODELS)
- HOT GAS DEFROSTING KIT (ONLY FOR SFZ008 AND SFZ009 MODELS)

Operation	Road	Stand-by
Defrost	Air	
Condenser weight	5,7 Kg	
Evaporator weight	14 Kg	
Evap. air flow	910 m <sup>3</sup> /h	
Air throw	3,5 m	

#### R134A

COOLING CAPACITY Ta = 30 °C		RECOMMENDED TRUCK BODY VOLUME	
		0 °C	
1.650 W	1.050 W	Tc	0 °C
		Ta	+30 °C    +40 °C
		Vol.	11 m <sup>3</sup> 8 m <sup>3</sup>



#### VOLTAGE OPTIONS AVAILABLE

	12 VDC
	24 VDC
	230/1N~/50
	IN-CAB CONTROLLER ONLY FOR "INVISIBLE" UNITS

Operation	Road	Stand-by
Defrost	Hot Gas	
Condenser weight	5,7 Kg	
Evaporator weight	14 Kg	
Evap. air flow	910 m <sup>3</sup> /h	
Air throw	3,5 m	

#### R404A

COOLING CAPACITY Ta = 30 °C		RECOMMENDED TRUCK BODY VOLUME			
		0 °C		-20 °C	
2.200 W	1.600 W	Tc	0 °C	-20 °C	
		Ta	+30 °C    +40 °C	+30 °C	+40 °C
1.100 W	750 W	Vol.	14 m <sup>3</sup> 11 m <sup>3</sup>	10 m <sup>3</sup>	7 m <sup>3</sup>



ATP

SFZ007

ATP

SFZ008



Ultra compact unit called "invisible" because it is installed under the bonnet (under-mount) leaving vehicle size and external design unchanged, ultra- low profile evaporator.

The zero° series has a new and attractive design, less environmental impact and an upgraded electronics. It's easy to use and quick to install and maintain. The series was designed to meet all the needs of the distribution industry and to offer the utmost flexibility in the handling of temperatures for refrigerated products, such as chilled and frozen goods. All the models of the zero° series are powered by the vehicle's engine and are suitable for small to medium size vans.

ATP

SFZ009

Operation	Road	Stand-by
Defrost	Air	Hot gas
Condenser weight	9,1 Kg	
Evaporator weight	20,5 Kg	
Evap. air flow	840 m <sup>3</sup> /h	
Air throw	4 m	

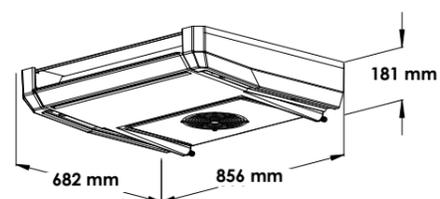
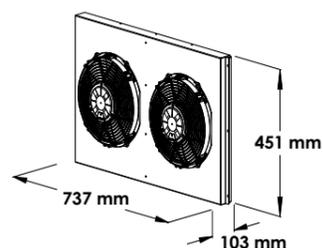
### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN KIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- LUNGHEZZA REFRIGERATOR HOSE KIT COMPLETE WITH SERVICE PARTS
- EVAPORATOR READY FOR A HOT GAS DEFROST KIT CONNECTIONS
- CARTON PALLET PACKAGING

### OPTIONALS

- HOT GAS DEFROSTING KIT (ONLY FOR SFZ008 AND SFZ009 MODELS)
- HOT GAS DEFROSTING KIT (ONLY FOR SFZ008 AND SFZ009 MODELS)

R404A				R134A					
COOLING CAPACITY Ta = 30 °C				COOLING CAPACITY Ta = 30 °C					
		3.200 W		2.300 W			2.300 W		1.500 W
		1.850 W		1.100 W			2.300 W		1.500 W
RECOMMENDED TRUCK BODY VOLUME				RECOMMENDED TRUCK BODY VOLUME					
Tc	0 °C		-20 °C		Tc	0 °C			
Ta	+30 °C	+40 °C	+30 °C	+40 °C	Ta	+30 °C	+40 °C		
Vol.	21 m <sup>3</sup>	16 m <sup>3</sup>	17 m <sup>3</sup>	12 m <sup>3</sup>	Vol.	15 m <sup>3</sup>	12 m <sup>3</sup>		



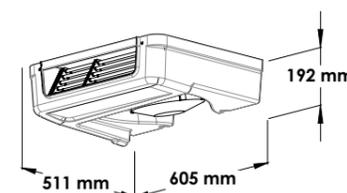
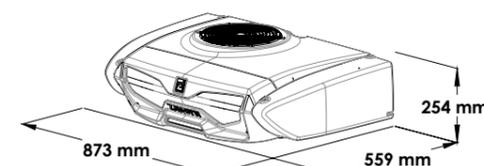
LEGEND			
Tc	cold room temperature	CU	condensing unit
Ta	ambient temperature		road operation
EU	evaporating unit		stand by operation
Vol.	volume		

### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN KIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- REFRIGERATOR HOSE KIT COMPLETE WITH SERVICE PARTS
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- SUITABLE FOR FRONT WALL OR ROOF MOUNTING
- CARTON PALLET PACKAGING
- DIFFERENT VOLTAGE ON REQUEST
- REMOTE AC CONVERTER FOR STAND-BY

### OPTIONALS

- DIFFERENT VOLTAGE ON REQUEST
- HOT GAS RECOVERY



Operation	Road	Stand-by
Defrost	Hot Gas	
Condensing unit weight	69 Kg	
Evaporator weight	8 Kg	
Evap. air flow	800 m <sup>3</sup> /h	
Air throw	4 m	

R404A				R134A					
COOLING CAPACITY Ta = 30 °C				COOLING CAPACITY Ta = 30 °C					
		1.300 W		1.200 W			975 W		845 W
		500 W		470 W			975 W		845 W
RECOMMENDED TRUCK BODY VOLUME				RECOMMENDED TRUCK BODY VOLUME					
Tc	0 °C		-20 °C		Tc	0 °C			
Ta	+30 °C	+40 °C	+30 °C	+40 °C	Ta	+30 °C	+40 °C		
Vol.	8 m <sup>3</sup>	6 m <sup>3</sup>	4 m <sup>3</sup>	3 m <sup>3</sup>	Vol.	7 m <sup>3</sup>	5 m <sup>3</sup>		



ATP

zero° 120b



The zero° series has a new and attractive design, less environmental impact and an upgraded electronics. It's easy to use and quick to install and maintain. The series was designed to meet all the needs of the distribution industry and to offer the utmost flexibility in the handling of temperatures for refrigerated products, such as chilled and frozen goods. All the models of the zero° series are powered by the vehicle's engine and are suitable for small to medium size vans.

The zero° series has a new and attractive design, less environmental impact and an upgraded electronics. It's easy to use and quick to install and maintain. The series was designed to meet all the needs of the distribution industry and to offer the utmost flexibility in the handling of temperatures for refrigerated products, such as chilled and frozen goods. All the models of the zero° series are powered by the vehicle's engine and are suitable for small to medium size vans.

ATP

zero° 200s

Operation	Road	Stand-by
Defrost		Hot Gas
Condensing unit weight		61 Kg
		45 Kg
Evaporator weight		9 Kg
		9 Kg
Evap. air flow	800 m³/h	
Air throw	4 m	

R404A

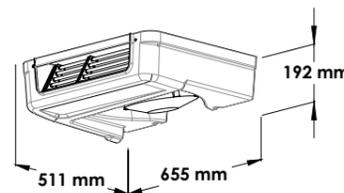
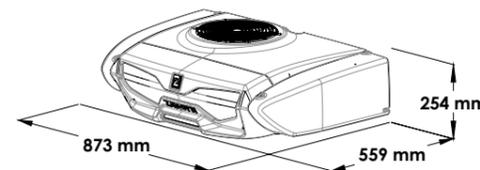
COOLING CAPACITY Ta = 30 °C			RECOMMENDED TRUCK BODY VOLUME				
	2.600 W	1.500 W	Tc	0 °C		-20 °C	
			Ta	+30 °C	+40 °C	+30 °C	+40 °C
	1.480 W	700 W	Vol.	16 m³	12 m³	10 m³	8 m³

### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN KIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- REFRIGERATOR HOSE KIT COMPLETE WITH SERVICE PARTS
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- SUITABLE FOR FRONT WALL MOUNTING
- CARTON PALLET PACKAGING

### OPTIONALS

- DIFFERENT VOLTAGE ON REQUEST
- HOT GAS RECOVERY
- SUITABLE FOR ROOF MOUNTING



### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN KIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- REFRIGERATOR HOSE KIT COMPLETE WITH SERVICE PARTS
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- SUITABLE FOR FRONT WALL MOUNTING
- CARTON PALLET PACKAGING

### OPTIONALS

- COMPRESSOR MOUNTING KIT
- DIFFERENT VOLTAGE ON REQUEST
- HOT GAS RECOVERY
- SUITABLE FOR ROOF MOUNTING

VOLTAGE OPTIONS AVAILABLE	
	12VDC
	24VDC
	230/1N~/50
	400/3N~/50

ATP

zero° 250s

Operation	Road	Stand-by
Defrost		Hot Gas
Condensing unit weight		75 Kg
		45 Kg
Evaporator weight		9 Kg
		9 Kg
Evap. air flow	800 m³/h	
Air throw	4 m	

R404A

R134A

COOLING CAPACITY Ta = 30 °C			COOLING CAPACITY Ta = 30 °C		
	2.800 W	1.800 W		2.540 W	1.060 W
	1.540 W	850 W			

RECOMMENDED TRUCK BODY VOLUME				RECOMMENDED TRUCK BODY VOLUME			
Tc	0 °C		-20 °C		Tc	0 °C	
Ta	+30 °C	+40 °C	+30 °C	+40 °C	Ta	+30 °C	+40 °C
Vol.	19 m³	13 m³	13 m³	10 m³	Vol.	17 m³	12 m³





AIR THROW

CU



EU



CU



EU



AIR THROW

The zero° series has a new and attractive design, less environmental impact and an upgraded electronics. It's easy to use and quick to install and maintain. The series was designed to meet all the needs of the distribution industry and to offer the utmost flexibility in the handling of temperatures for refrigerated products, such as chilled and frozen goods. All the models of the zero° series are powered by the vehicle's engine and are suitable for small to medium size vans.

The zero° series has a new and attractive design, less environmental impact and an upgraded electronics. It's easy to use and quick to install and maintain. The series was designed to meet all the needs of the distribution industry and to offer the utmost flexibility in the handling of temperatures for refrigerated products, such as chilled and frozen goods. All the models of the zero° series are powered by the vehicle's engine and are suitable for small to medium size vans.

ATP

zero° 350s

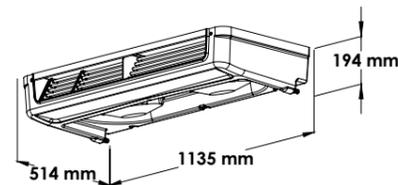
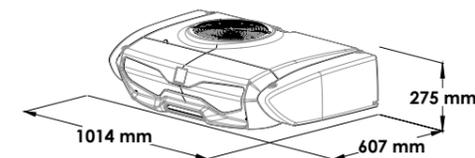
Operation	Road	Stand-by
Defrost		Hot Gas
Condensing unit weight		75 Kg
		45 Kg
Evaporator weight		17 Kg
		17 Kg
Evap. air flow	2.300 m³/h	
Air throw	5 m	

R404A

COOLING CAPACITY Ta = 30 °C		RECOMMENDED TRUCK BODY VOLUME			
	3.200 W		2.200 W	Tc	0 °C
	1.700 W		900 W	Ta	+30 °C +40 °C +30 °C +40 °C
				Vol.	21 m³ 15 m³ 15 m³ 12 m³

### STANDARD FEATURES

- IN-CAB CONTROLLER
  - UNIT HARDWARE AND CONDENSATION DRAIN KIT
  - VEHICLE BATTERY ELECTRIC CONNECTION KIT
  - REFRIGERATION HOSE KIT COMPLETE WITH COMPRESSOR FITTINGS
  - ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
  - SUITABLE FOR FRONT WALL MOUNTING
  - CARTON PALLET PACKAGING
- ### OPTIONALS
- COMPRESSOR MOUNTING KIT
  - DIFFERENT VOLTAGE ON REQUEST
  - HOT GAS RECOVERY
  - MULTITEMPERATURE
  - SUITABLE FOR ROOF MOUNTING



IN-CAB CONTROLLER FOR ALL "BATTERY & DIRECT DRIVE" UNITS

### VOLTAGE OPTIONS AVAILABLE

- 12 VDC
- 24 VDC
- 230/1N~/50
- 400/3N~/50

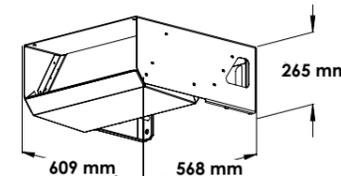
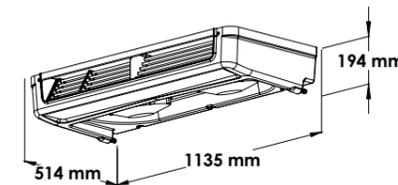
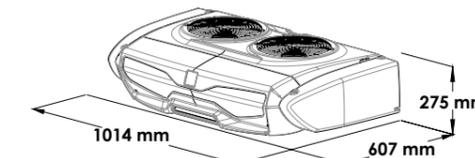
LEGEND					
Tc	cold room temperature	CU	condensing unit	EU	evaporating unit
Ta	ambient temperature		road operation		stand by operation
Vol.	volume				

ATP

zero° 380s

### STANDARD FEATURES

- IN-CAB CONTROLLER
  - UNIT HARDWARE AND CONDENSATION DRAIN KIT
  - VEHICLE BATTERY ELECTRIC CONNECTION KIT
  - REFRIGERATION HOSE KIT COMPLETE WITH COMPRESSOR FITTINGS
  - ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
  - SUITABLE FOR FRONT WALL MOUNTING
  - CARTON PALLET PACKAGING
- ### OPTIONALS
- COMPRESSOR MOUNTING KIT
  - DIFFERENT VOLTAGE ON REQUEST
  - HOT GAS RECOVERY
  - MULTITEMPERATURE
  - SUITABLE FOR ROOF MOUNTING



Operation	Road	Stand-by
Defrost		Hot Gas
Condensing unit weight		90 Kg
		61 Kg
Evaporator weight		17 Kg
		17 Kg
Evap. air flow	2.300 m³/h	
Air throw	5 m	

R404A

COOLING CAPACITY Ta = 30 °C		COOLING CAPACITY Ta = 30 °C	
	3.900 W		2.300 W
	2.200 W		1.000 W

R134A

RECOMMENDED TRUCK BODY VOLUME				RECOMMENDED TRUCK BODY VOLUME	
Tc	0 °C	-20 °C		Tc	0 °C
Ta	+30 °C +40 °C +30 °C +40 °C			Ta	+30 °C +40 °C
Vol.	28 m³ 21 m³ 21 m³ 16 m³			Vol.	20 m³ 16 m³



Evap. air flow		2.520 m³/h	
R404A		R134A	
COOLING CAPACITY Ta = 30 °C		COOLING CAPACITY Ta = 30 °C	
	4.050 W		2.300 W
	2.300 W		850 W
			3.100 W
			1.600 W



zero° CUBE Option



CU



EU



CU



EU



Special split unit for tropicalized or extreme high ambient temperature till 50°C, bearing structure in steel plate, external casing in ABS, nose application.

Split units, bearing structure in steel plate, external casing in ABS, nose application.

UNIT FOR EXTREME HIGH AMBIENT TEMPERATURE TILL 122°F

SFZ230

Operation	Road
Defrost	Hot Gas
Condensing unit weight	87 Kg
Evaporator weight	26 Kg
Evap. air flow	1.950 m <sup>3</sup> /h
Air throw	5 m

### R404A

	COOLING CAPACITY		RECOMMENDED TRUCK BODY VOLUME			
	Ta = 30 °C	Ta = 40 °C	0 °C		-20 °C	
0°	3.850 W	3.500 W				
-20°	1.850 W	1.650 W				
Tc			0 °C		-20 °C	
Ta	+30 °C	+40 °C	+30 °C	+40 °C		
Vol.	28 m <sup>3</sup>	21 m <sup>3</sup>	21 m <sup>3</sup>	16 m <sup>3</sup>		

### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN IKIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- REFRIGERATION HOSE KIT COMPLETE WITH COMPRESSOR FITTINGS
- WOOD CRATE PACKAGING

### OPTIONALS

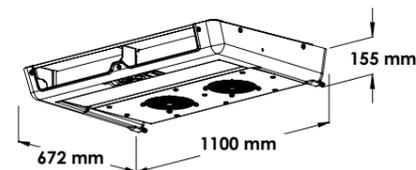
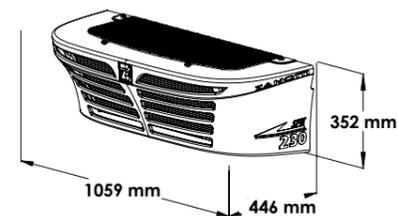
- COMPRESSOR MOUNTING KIT
- DIFFERENT VOLTAGE ON REQUEST
- DOUBLE SOLENOID FOR HEAT
- MULTITEMPERATURE

LOW ENVIRONMENTAL IMPACT  
COMPACT FRAME

EASY OF USE AND SERVICE  
HIGH RELIABILITY



## THE COLD POWER IN TROPIC HEAT



VOLTAGE OPTIONS AVAILABLE	
	12 VDC
	24 VDC
	IN-CAB CONTROLLER FOR ALL "BATTERY & DIRECT DRIVE" UNITS

ATP

SFZ238

### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN IKIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- REFRIGERATOR HOSE KIT COMPLETE WITH SERVICE PARTS
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- COMPRESSOR MOUNTING KIT
- DIFFERENT VOLTAGE ON REQUEST
- DOUBLE SOLENOID FOR HEAT
- MULTITEMPERATURE

Operation	Road	Stand-by
Defrost	Hot Gas	
Condensing unit weight	128 Kg	
Evaporator weight	87 Kg	
Evap. air flow	2.050 m <sup>3</sup> /h	
Air throw	5 m	

### R404A

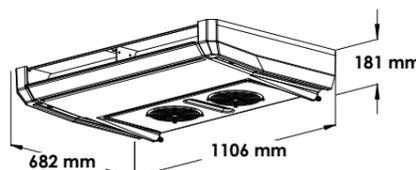
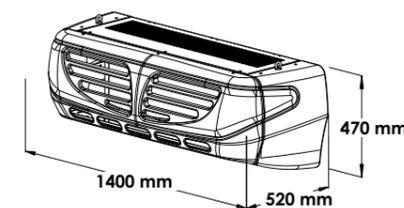
	COOLING CAPACITY	
	Ta = 30 °C	Ta = 40 °C
0°	4.800 W	4.100 W
-20°	2.550 W	1.850 W

### R134A

	COOLING CAPACITY	
	Ta = 30 °C	Ta = 40 °C
0°	3.350 W	2.900 W

Tc	RECOMMENDED TRUCK BODY VOLUME			
	0 °C		-20 °C	
Ta	+30 °C	+40 °C	+30 °C	+40 °C
Vol.	38 m <sup>3</sup>	27 m <sup>3</sup>	26 m <sup>3</sup>	21 m <sup>3</sup>

Tc	RECOMMENDED TRUCK BODY VOLUME	
	0 °C	
Ta	+30 °C	+40 °C
Vol.	28 m <sup>3</sup>	20 m <sup>3</sup>



VOLTAGE OPTIONS AVAILABLE	
	12 VDC
	24 VDC
	230/1N~/50
	400/3N~/50



LEGEND					
Tc	cold room temperature	CU	condensing unit	EU	evaporating unit
Ta	ambient temperature		road operation		stand by operation
Vol.	volume				



CU



EU



Split units, bearing structure in steel plate, external casing in ABS, nose application.

CU



EU



Split units, bearing structure in steel plate, external casing in ABS, nose application.



ATP

SFZ248

Operation	Road	Stand-by
Defrost		Hot Gas
Condensing unit weight		132 Kg
		87 Kg
Evaporator weight		31,5 Kg
		31,5 Kg
Evap. air flow	3.075 m <sup>3</sup> /h	
Air throw	6 m	

R404A

R134A

COOLING CAPACITY  
Ta = 30 °C

		5.450 W		4.500 W
		3.000 W		2.250 W

COOLING CAPACITY  
Ta = 30 °C

		3.800 W		3.150 W
--	--	---------	--	---------

RECOMMENDED TRUCK BODY VOLUME

Tc	0 °C		-20 °C	
Ta	+30 °C	+40 °C	+30 °C	+40 °C
Vol.	41 m <sup>3</sup>	30 m <sup>3</sup>	31 m <sup>3</sup>	26 m <sup>3</sup>

RECOMMENDED TRUCK BODY VOLUME

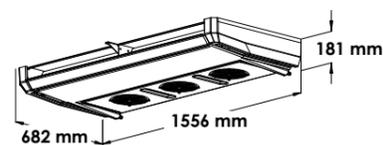
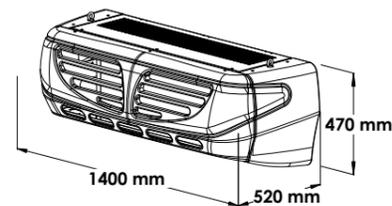
Tc	0 °C	
Ta	+30 °C	+40 °C
Vol.	31 m <sup>3</sup>	22 m <sup>3</sup>

### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN KIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- REFRIGERATION HOSE KIT COMPLETE WITH COMPRESSOR FITTINGS
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- COMPRESSOR MOUNTING KIT
- DIFFERENT VOLTAGE ON REQUEST
- DOUBLE SOLENOID FOR HEAT
- MULTITEMPERATURE

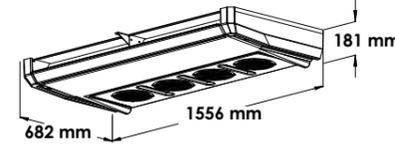
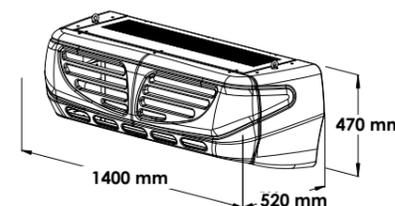


### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN KIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- REFRIGERATION HOSE KIT COMPLETE WITH COMPRESSOR FITTINGS
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- COMPRESSOR MOUNTING KIT
- DIFFERENT VOLTAGE ON REQUEST
- DOUBLE SOLENOID FOR HEAT
- MULTITEMPERATURE



	IN-CAB CONTROLLER FOR ALL "BATTERY & DIRECT DRIVE" UNITS
<b>VOLTAGE OPTIONS AVAILABLE</b>	
	12 VDC
	24 VDC
	230/1N~/50
	400/3N~/50

LEGEND			
Tc	cold room temperature	CU	condensing unit
Ta	temperature		road operation
EU	evaporating unit		stand by operation
Vol.	volume		

ATP

SFZ258

Operation	Road	Stand-by
Defrost		Hot Gas
Condensing unit weight		143 Kg
		91 Kg
Evaporator weight		42,5 Kg
		42,5 Kg
Evap. air flow	3.200 m <sup>3</sup> /h	
Air throw	7 m	

R404A

R134A

COOLING CAPACITY  
Ta = 30 °C

		7.300 W		6.150 W
		3.600 W		3.100 W

COOLING CAPACITY  
Ta = 30 °C

		5.100 W		4.300 W
--	--	---------	--	---------

RECOMMENDED TRUCK BODY VOLUME

Tc	0 °C		-20 °C	
Ta	+30 °C	+40 °C	+30 °C	+40 °C
Vol.	54 m <sup>3</sup>	38 m <sup>3</sup>	41 m <sup>3</sup>	35 m <sup>3</sup>

RECOMMENDED TRUCK BODY VOLUME

Tc	0 °C	
Ta	+30 °C	+40 °C
Vol.	32 m <sup>3</sup>	22 m <sup>3</sup>





AIR THROW



Monoblock units, bearing structure in steel plate, external casing in ABS, nose mounting application.



Monoblock units, bearing structure in steel plate, external casing in ABS, nose mounting application.



AIR THROW

ATP

UFZ328

Operation	Road	Stand-by
Defrost		Hot Gas
Unit net weight		144 Kg
Compressor		100 Kg
		147 cc
		88 cc
Evap. air flow	1.150 m <sup>3</sup> /h	
Air throw	5 m	

### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN KIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- REFRIGERATION HOSE KIT COMPLETE WITH COMPRESSOR FITTINGS
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- COMPRESSOR MOUNTING KIT
- DIFFERENT VOLTAGE ON REQUEST
- DOUBLE SOLENOID FOR HEAT

#### R404A

#### R134A

#### COOLING CAPACITY Ta = 30 °C

		3.450 W		2.400 W
		1.800 W		1.100 W

#### COOLING CAPACITY Ta = 30 °C

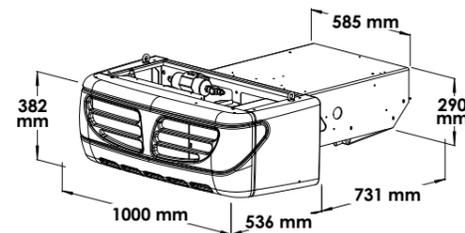
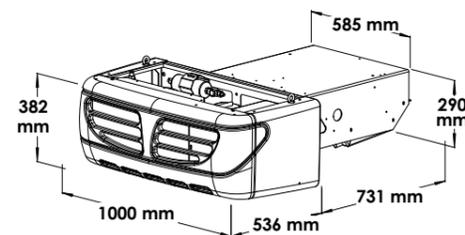
		2.400 W		1.700 W
--	--	---------	--	---------

#### RECOMMENDED TRUCK BODY VOLUME

Tc	0 °C		-20 °C	
Ta	+30 °C	+40 °C	+30 °C	+40 °C
Vol.	29 m <sup>3</sup>	20 m <sup>3</sup>	19 m <sup>3</sup>	13 m <sup>3</sup>

#### RECOMMENDED TRUCK BODY VOLUME

Tc	0 °C	
Ta	+30 °C	+40 °C
Vol.	22 m <sup>3</sup>	15 m <sup>3</sup>



### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT INSTALLATION KIT WITH FRONT WALL HARDWARE INCLUDED
- DIESEL FUEL PUMP KIT
- 3 WAYS VALVE FOR HOT GAS DEFROST AND HEAT FUNCTIONS
- PRESSURE REGULATING VALVE FOR COMPRESSOR PROTECTION
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- COMPRESSOR MOUNTING KIT
- DIFFERENT VOLTAGE ON REQUEST
- DOUBLE SOLENOID FOR HEAT

Operation	Road	Stand-by
Defrost		Hot Gas
Unit net weight		189 Kg
Compressor		143 Kg
		161 cc
		130 cc
Evap. air flow	3.400 m <sup>3</sup> /h	
Air throw	7 m	

#### R404A

#### R134A

#### COOLING CAPACITY Ta = 30 °C

		5.600 W		4.350 W
		2.800 W		1.800 W

#### COOLING CAPACITY Ta = 30 °C

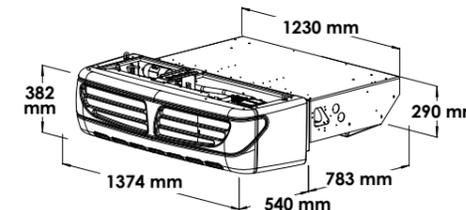
		3.900 W		3.050 W
--	--	---------	--	---------

#### RECOMMENDED TRUCK BODY VOLUME

Tc	0 °C		-20 °C	
Ta	+30 °C	+40 °C	+30 °C	+40 °C
Vol.	50 m <sup>3</sup>	35 m <sup>3</sup>	35 m <sup>3</sup>	24 m <sup>3</sup>

#### RECOMMENDED TRUCK BODY VOLUME

Tc	0 °C	
Ta	+30 °C	+40 °C
Vol.	38 m <sup>3</sup>	26 m <sup>3</sup>



ATP

UFZ338

Operation	Road	Stand-by
Defrost		Hot Gas
Unit net weight		169 Kg
Compressor		125 Kg
		161 cc
		103 cc
Evap. air flow	2.300 m <sup>3</sup> /h	
Air throw	6 m	

#### R404A

#### R134A

#### COOLING CAPACITY Ta = 30 °C

		4.150 W		3.400 W
		1.900 W		1.550 W

#### COOLING CAPACITY Ta = 30 °C

		2.900 W		2.400 W
--	--	---------	--	---------

#### RECOMMENDED TRUCK BODY VOLUME

Tc	0 °C		-20 °C	
Ta	+30 °C	+40 °C	+30 °C	+40 °C
Vol.	36 m <sup>3</sup>	26 m <sup>3</sup>	24 m <sup>3</sup>	16 m <sup>3</sup>

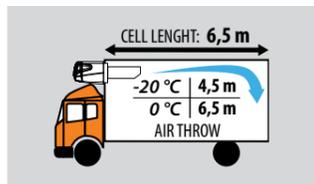
#### RECOMMENDED TRUCK BODY VOLUME

Tc	0 °C	
Ta	+30 °C	+40 °C
Vol.	27 m <sup>3</sup>	20 m <sup>3</sup>

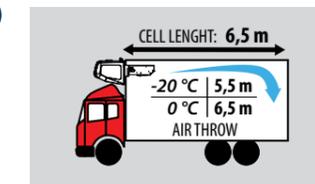
	IN-CAB CONTROLLER FOR ALL "BATTERY & DIRECT DRIVE" UNITS
VOLTAGE OPTIONS AVAILABLE	
	12 VDC
	24 VDC
	230/1N~/50
	400/3N~/50

	IN-CAB CONTROLLER FOR ALL "BATTERY & DIRECT DRIVE" UNITS
VOLTAGE OPTIONS AVAILABLE	
	12 VDC
	24 VDC
	230/1N~/50
	400/3N~/50





Monoblock diesel units with intergrated auxiliary diesel power unit, nose mounting application.



Range of diesel units with innovative technological concept which removes the needs for drive belts, reducing service intervals and costs and with improved efficiency. Quality is assured thanks to our extensive experience allied to rigorous quality and comprehensive testing procedures which establish the durability of components in conditions of stress and in different ambients.

ATP

DFZ425

Operation	Road	Stand-by
Defrost		Hot Gas
Unit net weight		315 Kg
Compressor		293 Kg
Evap. air flow		163 cc
Air throw		2.200 m <sup>3</sup> /h
		5,5 m

R404A

COOLING CAPACITY Ta = 30 °C

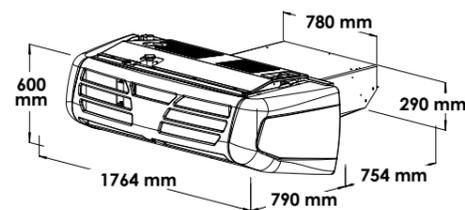


### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT INSTALLATION KIT WITH FRONT WALL HARDWARE INCLUDED
- DIESEL FUEL PUMP KIT
- 3 WAYS VALVE FOR HOT GAS DEFROST AND HEAT FUNCTIONS
- PRESSURE REGULATING VALVE FOR COMPRESSOR PROTECTION
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- REMOTE CONTROL PANEL FOR EXTERNAL INSTALLATION
- DIFFERENT VOLTAGE ON REQUEST
- BATTERY 100 A/H
- FUEL TANK



ATP

DFZ430

Operation	Road	Stand-by
Defrost		Hot Gas
Unit net weight		325 Kg
Compressor		303 Kg
Evap. air flow		214 cc
Air throw		2.200 m <sup>3</sup> /h
		6,5 m

R404A

COOLING CAPACITY Ta = 30 °C



LEGEND					
Tc	cold room temperature	CU	condensing unit	EU	evaporating unit
Ta	ambient temperature		road operation		stand by operation
Vol.	volume				

### VOLTAGE OPTIONS AVAILABLE

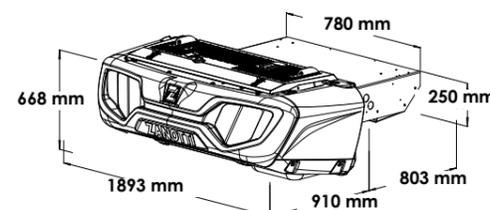
	12 VDC
	400/3N~/50

### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT INSTALLATION KIT WITH FRONT WALL HARDWARE INCLUDED
- DIESEL FUEL PUMP KIT
- 3 WAYS VALVE FOR HOT GAS DEFROST AND HEAT FUNCTIONS
- PRESSURE REGULATING VALVE FOR COMPRESSOR PROTECTION
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- MULTI-TEMPERATURE
- DIFFERENT VOLTAGE ON REQUEST
- BATTERY 100 A/H
- ADDITIONAL HEAT PROVIDED BY HOT WATER AND ELECTRICAL HEATERS
- FUEL TANK



	IN-CAB CONTROLLER FOR ALL "DIESEL" MODELS
VOLTAGE OPTIONS AVAILABLE	
	12 VDC
	400/3N~/50

Operation	Road	Stand-by
Defrost		Hot Gas
Unit net weight		430 Kg
Compressor		395 Kg
Evap. air flow		854 cc
Air throw		170 cc
		9,9 m <sup>3</sup> /h
		2.200 m <sup>3</sup> /h
		6,5 m

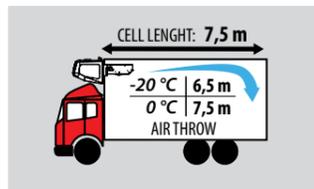
R404A

COOLING CAPACITY Ta = 30 °C



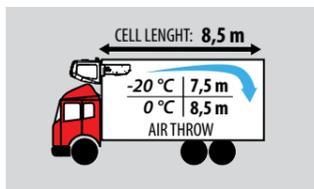
ATP

un0°



Range of diesel units with innovative technological concept which removes the needs for drive belts, reducing service intervals and costs and with improved efficiency. Quality is assured thanks to our extensive experience allied to rigorous quality and comprehensive testing procedures which establish the durability of components in conditions of stress and in different ambients.

Range of diesel units with innovative technological concept which removes the needs for drive belts, reducing service intervals and costs and with improved efficiency. Quality is assured thanks to our extensive experience allied to rigorous quality and comprehensive testing procedures which establish the durability of components in conditions of stress and in different ambients.



ATP

un0° 80

Operation	Road	Stand-by
Defrost		Hot Gas
Unit net weight	460 Kg	425 Kg
Diesel motor		854 cc
Compressor	235 cc	11,3 m³/h
Evap. air flow		3.600 m³/h
Air throw		7,5 m

R404A

COOLING CAPACITY Ta = 30 °C

8.800 W	5.400 W	5.000 W	2.900 W
---------	---------	---------	---------

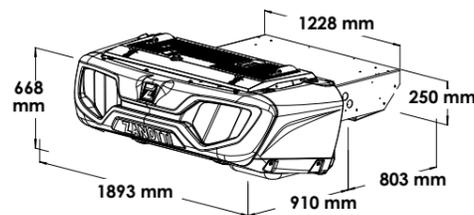


### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT INSTALLATION KIT WITH FRONT WALL HARDWARE INCLUDED
- DIESEL FUEL PUMP KIT
- 3 WAYS VALVE FOR HOT GAS DEFROST AND HEAT FUNCTIONS
- PRESSURE REGULATING VALVE FOR COMPRESSOR PROTECTION
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- MULTI-TEMPERATURE
- DIFFERENT VOLTAGE ON REQUEST
- BATTERY 100 A/H
- ADDITIONAL HEAT PROVIDED BY HOT WATER AND ELECTRICAL HEATERS
- FUEL TANK



	IN-CAB CONTROLLER FOR ALL "DIESEL" MODELS
<b>VOLTAGE OPTIONS AVAILABLE</b>	
	12VDC
	400/3N~/50

ATP

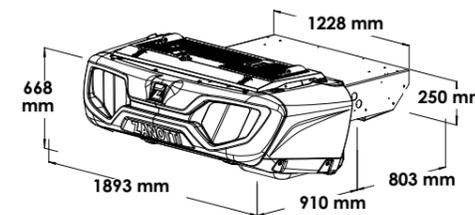
un0° 100

### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT INSTALLATION KIT WITH FRONT WALL HARDWARE INCLUDED
- DIESEL FUEL PUMP KIT
- 3 WAYS VALVE FOR HOT GAS DEFROST AND HEAT FUNCTIONS
- PRESSURE REGULATING VALVE FOR COMPRESSOR PROTECTION
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- MULTI-TEMPERATURE
- DIFFERENT VOLTAGE ON REQUEST
- BATTERY 100 A/H
- ADDITIONAL HEAT PROVIDED BY HOT WATER AND ELECTRICAL HEATERS
- FUEL TANK



	IN-CAB CONTROLLER FOR ALL "DIESEL" MODELS
<b>VOLTAGE OPTIONS AVAILABLE</b>	
	12VDC
	400/3N~/50

Operation	Road	Stand-by
Defrost		Hot Gas
Unit net weight	495 Kg	455 Kg
Diesel motor		854 cc
Compressor	275 cc	14,5 m³/h
Evap. air flow		3.600 m³/h
Air throw		8,5 m

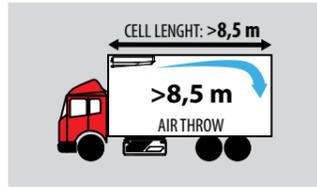
R404A

COOLING CAPACITY Ta = 30 °C

9.700 W	6.000 W	5.450 W	3.550 W
---------	---------	---------	---------

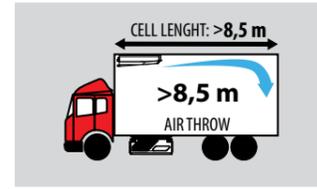


LEGEND					
Tc	cold room temperature	CU	condensing unit	EU	evaporating unit
Ta	ambient temperature		road operation		stand by operation
Vol.	volume				



Range of diesel units with innovative technological concept which removes the needs for drive belts, reducing service intervals and costs and with improved efficiency. Quality is assured thanks to our extensive experience allied to rigorous quality and comprehensive testing procedures which establish the durability of components in conditions of stress and in different ambients.

Under-mount diesel unit with casing in ABS, side mount application. The new logic of direct coupling between combustion engine and compressor allows the elimination of traditional kinematics (belts, pulleys etc.) so reducing mechanical stress as well as fuel consumption.



ATP

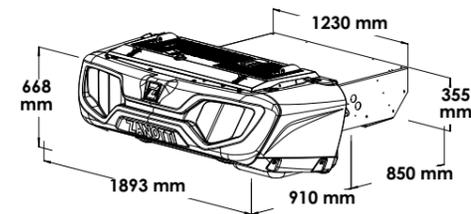
un0° 120

Operation	Road	Stand-by
Defrost		Hot Gas
Unit net weight		510 Kg
		465 Kg
Diesel motor		1.116 cc
		385 cc
Compressor		17,1 m³/h
Evap. air flow		4.500 m³/h
Air throw		>8,5 m

R404A

COOLING CAPACITY Ta = 30 °C

		11.500 W		7.300 W			6.200 W		4.250 W
--	--	----------	--	---------	--	--	---------	--	---------



IN-CAB CONTROLLER FOR ALL "DIESEL" MODELS

VOLTAGE OPTIONS AVAILABLE

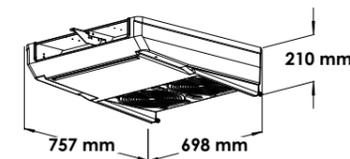
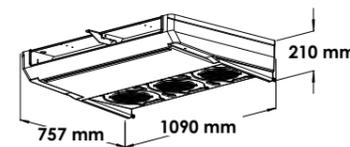
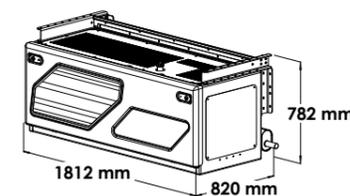
	12 VDC
	400/3N~/50

STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT INSTALLATION KIT WITH FRONT WALL HARDWARE INCLUDED
- DIESEL FUEL PUMP KIT
- 3 WAYS VALVE FOR HOT GAS DEFROST AND HEAT FUNCTIONS
- PRESSURE REGULATING VALVE FOR COMPRESSOR PROTECTION
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

OPTIONALS

- MULTI-TEMPERATURE
- DIFFERENT VOLTAGE ON REQUEST
- BATTERY 100 A/H
- ADDITIONAL HEAT PROVIDED BY HOT WATER AND ELECTRICAL HEATERS
- FUEL TANK
- REMOTE CONTROL PANEL FOR EXTERNAL INSTALLATION
- FUEL TANK
- COPPER PIPING KIT



VOLTAGE OPTIONS AVAILABLE

	12 VDC
	400/3N~/50

ATP

un0° 100U

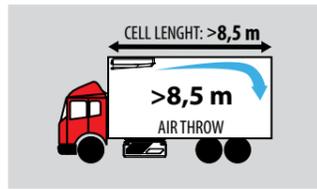
Operation	Road	Stand-by
Defrost		Hot Gas
Unit net weight		Cond.Unit= 480 Kg / Evap.Unit= 40+36 Kg
		Cond.Unit= 440 Kg / Evap.Unit= 40+36 Kg
Diesel motor		1.116 cc
		275 cc
Compressor		14,5 m³/h
Evap. air flow		2.520 + 1.680 m³/h
Air throw		8,5 m

R404A

COOLING CAPACITY Ta = 30 °C

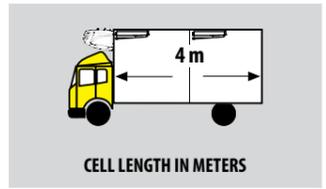
		8.350 W		6.300 W			4.900 W		3.550 W
--	--	---------	--	---------	--	--	---------	--	---------





Under-mount diesel unit with casing in ABS, side mount application. The new logic of direct coupling between combustion engine and compressor allows the elimination of traditional kinematics (belts, pulleys etc.) so reducing mechanical stress as well as fuel consumption.

Zer0° range offers a new and attractive design, ease and speed of installation and maintenance, reduces environmental impact and improved electronics for small and medium size refrigeration vehicles. The multi-temperature version is suitable for cells with separate compartments to manage different temperatures for food preservation. This unit is quickly installed, the efficiency of its operation is guaranteed and it has a minor impact on the environment.



ATP  
un0° 120U

Operation	Road	Stand-by
Defrost	Hot Gas	
Unit net weight	Cond.Unit= 510 Kg / Evap.Unit= 40+40 Kg	
	Cond.Unit= 475 Kg / Evap.Unit= 40+40 Kg	
Diesel motor	1.116 cc	
Compressor	385 cc	
Evap. air flow	17,1 m³/h	
Air throw	2.520 + 2.520 m³/h	
	> 8,5 m	

### R404A

COOLING CAPACITY		Ta = 30 °C	
	12.200 W	8.450 W	
	6.300 W	4.300 W	

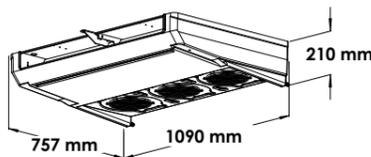
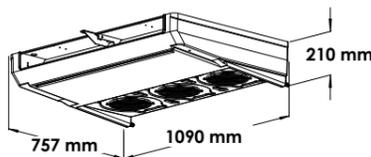
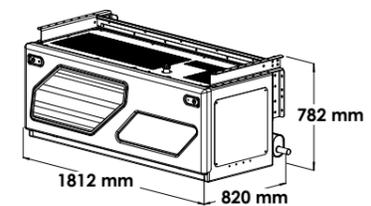


### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT INSTALLATION KIT WITH FRONT WALL HARDWARE INCLUDED
- DIESEL FUEL PUMP KIT
- 3 WAYS VALVE FOR HOT GAS DEFROST AND HEAT FUNCTIONS
- PRESSURE REGULATING VALVE FOR COMPRESSOR PROTECTION
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- REMOTE CONTROL PANEL FOR EXTERNAL INSTALLATION
- BATTERY 100 A/H
- MULTI-TEMPERATURE
- FUEL TANK
- DIFFERENT VOLTAGE ON REQUEST
- COPPER PIPING KIT

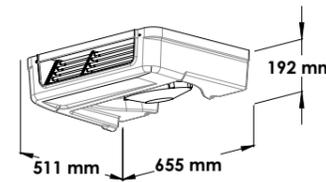
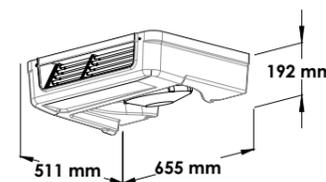
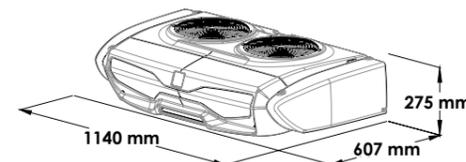


### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN KIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- REFRIGERATION HOSE KIT COMPLETE WITH COMPRESSOR FITTINGS
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- SUITABLE FOR BOTH FRONT WALL OR ROOF MOUNTING
- CARTON PALLET PACKAGING

### OPTIONALS

- COMPRESSOR MOUNTING KIT
- DIFFERENT VOLTAGE ON REQUEST



LEGEND			
Tc	cold room temperature	CU	condensing unit
Ta	temperature		road operation
EU	evaporating unit		stand by operation

Operation	Road	Stand-by
Defrost	Hot Gas	
Condensing unit weight		90 Kg
		61 Kg
Evaporator weight		Main evap. 1F 8 Kg + Sec. evap. 1F 8 Kg
		Main evap. 1F 8 Kg + Sec. evap. 1F 8 Kg
Evap. air flow	Main evap. 1F	800 m³/h
	Secondary evap. 1F	800 m³/h
Air throw	4 m	

### R404A

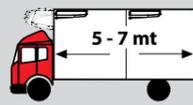
COOLING CAPACITY		Ta = 30 °C		RECOMMENDED TRUCK BODY VOLUME					
		1F	2.650 W	1.500 W	Tc	0 °C		-20 °C	
		1F	2.650 W	1.500 W		+30 °C			+40 °C
		1F	2.200 W	1.100 W	Ta	+30 °C		+40 °C	
		1F	2.200 W	1.100 W		21 m³		15 m³	17 m³

### R134A

COOLING CAPACITY		Ta = 30 °C		RECOMMENDED TRUCK BODY VOLUME				
		1F	1.900 W	1.900 W	Tc	0 °C		
		1F	1.900 W	1.900 W		+30 °C		104 °F
		1F	1.550 W	1.550 W	Ta	+30 °C		104 °F
		1F	1.550 W	1.550 W		16 m³		11 m³



zero° 380s MULTI-TEMPERATURE



CELL LENGTH IN METERS



Split units for medium size vehicles with a multi-temperature function suitable for cells with separate compartments to allow to manage different temperatures. The constant airflow ensures the proper storage of products at a given temperature. High efficiency and ease of installation are functional guarantees of this unit. Suitable for medium size refrigeration vehicle.

ATP

SFZ248/2 MULTI-TEMPERATURE

Operation	Road	Stand-by
Defrost		Hot Gas
Condensing unit weight		143 Kg
		91 Kg
Evaporator weight		Main evap. 2F 26,5 Kg + Sec. evap. 1F 20,5 Kg
		Main evap. 2F 26,5 Kg + Sec. evap. 1F 20,5 Kg
Evap. air flow	1F	1.025 m <sup>3</sup> /h
	2F	2.050 m <sup>3</sup> /h
Air throw	5 - 7 m	

### R404A

	COOLING CAPACITY Ta = 30 °C		RECOMMENDED TRUCK BODY VOLUME			
	0°	-20°	Tc	0 °C		-20 °C
Ta	+30 °C	+40 °C	+30 °C	+40 °C	+30 °C	+40 °C
Vol.	28 m <sup>3</sup>	21 m <sup>3</sup>	21 m <sup>3</sup>	16 m <sup>3</sup>	21 m <sup>3</sup>	16 m <sup>3</sup>
Main evap.	2F 4.850 W	2.600 W				
Secondary evap.	1F OFF	OFF				
Main evap.	2F 3.500 W	1.850 W				
Secondary evap.	1F 1.600 W	1.600 W				
Main evap.	2F 3.900 W	1.850 W				
Secondary evap.	1F OFF	OFF				
Main evap.	2F 2.800 W	700 W				
Secondary evap.	1F 1.700 W	1.750 W				

### R134A

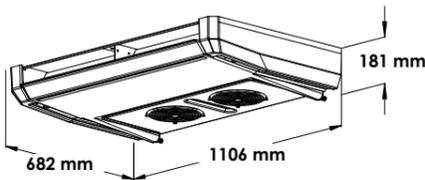
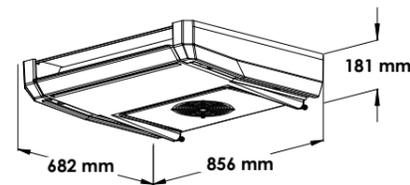
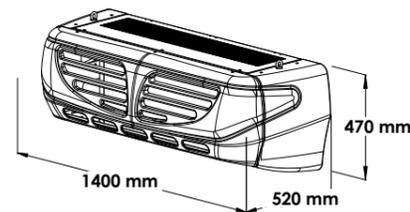
	COOLING CAPACITY Ta = 30 °C		RECOMMENDED TRUCK BODY VOLUME	
	0°	-20°	Tc	0 °C
Ta	+30 °C	+40 °C	+30 °C	+40 °C
Vol.	21 m <sup>3</sup>	16 m <sup>3</sup>	21 m <sup>3</sup>	16 m <sup>3</sup>
Main evap.	2F 3.400 W			
Secondary evap.	1F OFF			
Main evap.	2F 2.450 W			
Secondary evap.	1F 1.100 W			
Main evap.	2F 2.750 W			
Secondary evap.	1F OFF			
Main evap.	2F 1.950 W			
Secondary evap.	1F 1.200 W			

### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT HARDWARE AND CONDENSATION DRAIN KIT
- VEHICLE BATTERY ELECTRIC CONNECTION KIT
- REFRIGERATOR HOSE KIT COMPLETE WITH SERVICE PARTS
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- COMPRESSOR MOUNTING KIT
- DIFFERENT VOLTAGE ON REQUEST



Diesel unit with an innovative technological concept that does not require the use of kinematic mechanics given its direct couplings, thus reducing the maintenance operations and the replacement of worn parts. Multi-temperature function to manage different temperatures within the separate cells. This optimizes the transport of foods that must be stored at different temperatures. Suitable for medium to large size refrigeration vehicles.



### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT INSTALLATION KIT WITH FRONT WALL HARDWARE INCLUDED
- DIESEL FUEL PUMP KIT
- 3 WAYS VALVE FOR HOT GAS DEFROST AND HEAT FUNCTIONS
- PRESSURE REGULATING VALVE FOR COMPRESSOR PROTECTION

- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

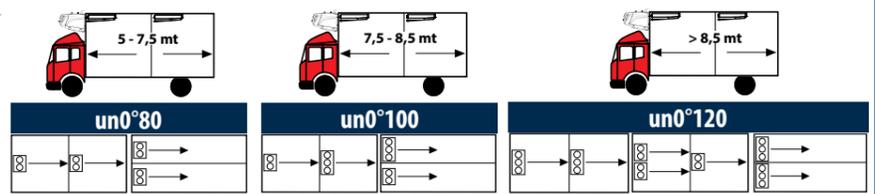
- DIFFERENT VOLTAGE ON REQUEST
- BATTERY 100 A/H
- ADDITIONAL HEAT PROVIDED BY HOT WATER AND ELECTRICAL HEATERS
- FUEL TANK
- COPPER PIPING KIT

### R404A

	COOLING CAPACITY Ta = 30 °C		RECOMMENDED TRUCK BODY VOLUME							
	0°	-20°	Tc	0 °C		-20 °C				
Ta	+30 °C	+40 °C	+30 °C	+40 °C	+30 °C	+40 °C	+30 °C	+40 °C		
Vol.	50 m <sup>3</sup>	60 m <sup>3</sup>	35 m <sup>3</sup>	43 m <sup>3</sup>	42 m <sup>3</sup>	48 m <sup>3</sup>	29 m <sup>3</sup>	34 m <sup>3</sup>		
Evaporator weight	Main evap. 3F		Sec. evap. 2F						un0° 80	440 Kg
	36 Kg		46 Kg							
Air flow at 50 Pa static pressure	2.520 m <sup>3</sup> /h		1.680 m <sup>3</sup> /h						Condensing unit weight	un0° 100 440 Kg
Air velocity	9,5 m/s		9,5 m/s							un0° 120 455 Kg

Nett system cooling duty at 30°C ambient in accordance with A.T.P. norms

### MULTI-TEMPERATURE LAYOUT



	IN-CAB CONTROLLER FOR ALL "DIESEL" MODELS
VOLTAGE OPTIONS AVAILABLE	
	12 VDC
	400/3N~/50

LEGEND					
Tc	cold room temperature	CU	condensing unit	EU	evaporating unit
Ta	ambient temperature		road operation		stand by operation
Vol.	volume				

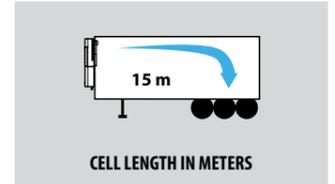
ATP

un0° DIESEL MULTI-TEMPERATURE



Subframe unit with a new technological concept designed to remove all kinematic mechanisms, thus reducing fuel consumption. Multi-temperature version that makes it possible to transport foods at set temperatures in separate cells. The constant airflow ensures an optimal storage of products, even over long distances. Suitable for vehicles with a large cubic capacity.

Trailer unit with painted aluminium frame, wholly coated with noise absorbing material. TFZ620 units are suitable for trailers till 15m in length. This unit have automatic temperature control by microprocessor.



ATP

un0° DIESEL UNDERMOUNT MULTI-TEMPERATURE

COOLING CAPACITY Ta = 30 °C		RECOMMENDED TRUCK BODY VOLUME							
2F	3F	0 °C				-20 °C			
Tc	Ta	+30 °C	+40 °C	+30 °C	+40 °C	2F	3F	2F	3F
0°	6.300 W	60 m³	43 m³	42 m³	48 m³	29 m³	34 m³		
-20°	3.800 W	50 m³	35 m³	35 m³	43 m³	29 m³	34 m³		
Condensing unit weight		Main evap. 3F		Sec. evap. 2F					
un0° 100U	440 kg	Evaporator weight		99 lbs		80 lbs			
un0° 120U	475 kg	Air flow at 50 Pa static pressure		2.520 m³/h		1.680 m³/h			
		Air velocity		9,5 m/s		9,5 m/s			

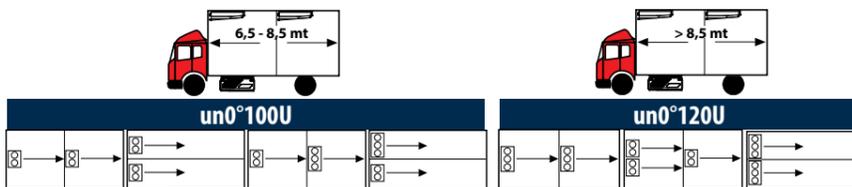
### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT INSTALLATION KIT WITH FRONT WALL HARDWARE INCLUDED
- DIESEL FUEL PUMP KIT
- 3 WAYS VALVE FOR HOT GAS DEFROST AND HEAT FUNCTIONS
- PRESSURE REGULATING VALVE FOR COMPRESSOR PROTECTION
- ELECTRICAL POWER CONNECTION KIT WITH 10 MT CABLE, PLUG AND SOCKET
- WOOD CRATE PACKAGING

### OPTIONALS

- REMOTE CONTROL PANEL FOR EXTERNAL INSTALLATION
- BATTERY 100 A/H
- FUEL TANK
- DIFFERENT VOLTAGE ON REQUEST
- COPPER PIPING KIT

### MULTI-TEMPERATURE LAYOUT



LEGEND					
Tc	cold room temperature	CU	condensing unit	EU	evaporating unit
Ta	ambient temperature	R	road operation	L	stand by operation
Vol.	volume				

	IN-CAB CONTROLLER FOR ALL "DIESEL" MODELS
VOLTAGE OPTIONS AVAILABLE	
	12 VDC
	400/3N~/50

### STANDARD FEATURES

- IN-CAB CONTROLLER
- UNIT INSTALLATION KIT WITH FRONT WALL HARDWARE INCLUDED
- DIESEL FUEL PUMP KIT
- 12V BATTERY INCLUDED
- 3 WAYS VALVE FOR HOT GAS DEFROST AND HEAT FUNCTIONS
- FUEL TANK CONNECTION PIPES AND CONNECTION CABLES (10 MT)
- VARNISHED ALUMINIUM COACHWORK ENTIRELY COATED WITH SOUND ABSORBING MATERIAL
- INDUSTRIAL VOLTAGE PLUG WITH 4 OR 5 POLES
- PROTECTING SHRINK-WRAPPING FILM PACKAGING

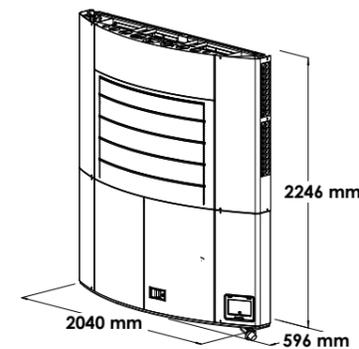
### OPTIONALS

- BATTERY 100 A/H
- UNIT SUPPLIED WITHOUT ELECTRIC ENGINE, ONLY FOR ON-THE-ROAD OPERATION
- DIFFERENT VOLTAGE ON REQUEST
- EXTERNAL TEMPERATURE RECORDER

Operation	Road	Stand-by
Defrost		Hot Gas
Unit net weight		870 Kg
		790 Kg
Diesel motor		2.179 cc 4 Cylinders
Compressor		655 cc
Evap. air flow		6.000 m³/h
Air throw		15 m

### R404A

COOLING CAPACITY Ta = 30 °C		RECOMMENDED TRUCK BODY VOLUME			
0°	-20°	0 °C		-20 °C	
Tc	Ta	+30 °C	+40 °C	+30 °C	+40 °C
18.500 W	15.600 W	90 m³	80 m³	75 m³	60 m³
8.900 W	7.800 W				



	AUTOMATIC TEMPERATURE CONTROL BY MICROPROCESSOR
VOLTAGE OPTIONS AVAILABLE	
	400/3N~/50



ATP

TFZ620



The special AS-R range has been developed for cold rooms built on trailers and therefore liable to continuous moving. The use of rotary and scroll compressors is necessary to assure the reliability of the unit.

AS-R/AS-E

Models	AS-R		AS-E		COOLING CAPACITY	
	MAS (medium temp)	BAS (low temp)	MAS (medium temp)	BAS (low temp)	MAS	AS-R
Working temperature	10 ÷ -5 °C	-15 ÷ -25 °C	10 ÷ -5 °C	-15 ÷ -25 °C		
Gas	R404A	R404A	R404A	R404A		
Defrost	Hot Gas	Hot Gas	Hot Gas	Hot Gas	MAS	1.500 W ÷ 12.100 W
Weight	58 - 260 kg	65 - 297 kg	58 - 244 kg	58 - 273 kg	BAS	1.300 W ÷ 8.650 W
<b>COMPRESSOR</b>					<b>AS-E</b>	
Compressor type	Hermetic / Scroll		Hermetic		MAS	1.150 W ÷ 12.700 W
Nominal power	0,5 - 5,5 kW	1,3 - 7,4 kW	0,43 - 5,5 kW	0,75 - 7,4 kW	BAS	750 W ÷ 9.500 W
<b>EVAPORATOR</b>					<b>REFRIGERATED VOLUME</b>	
Air flow	600 - 8.000 m <sup>3</sup> /h	600 - 8.000 m <sup>3</sup> /h	600 - 8.000 m <sup>3</sup> /h	530 - 8.000 m <sup>3</sup> /h	MAS	13 m <sup>3</sup> ÷ 186 m <sup>3</sup>
Air throw	4 - 17 m	BAS	8,5 m <sup>3</sup> ÷ 156 m <sup>3</sup>			
					MAS	9 m <sup>3</sup> ÷ 198 m <sup>3</sup>
					BAS	4 m <sup>3</sup> ÷ 177 m <sup>3</sup>

**CONDITIONS:**  
 Gas R404A  
 Cold room temp. for MAS 0°C  
 Cold room temp. for BAS -20°C  
 Ambient temperature 30°C  
 Cold room ins. thickness 100mm

### STANDARD FEATURES

- COMPRESSOR CRANKCASE HEATER
- EXPANSION CAPILLARY
- HOT GAS DEFROSTING
- CONDENSATION WATER DISPOSAL WITHOUT EXTERNAL CONNECTIONS FOR COLLECTING PURPOSES
- CONDENSER FAN PRESSURE SWITCH TO CONTROL CONDENSATION PRESSURE
- ELECTRONIC / ELECTROMECHANICAL CONTROL PANEL: THE INSTRUMENT PANEL ON THE FRONT INCLUDE GENERAL SWITCH OF THE UNIT, TEMPERATURE INDICATOR, MANUAL DE FROSTING PUSHBUTTON, PREHEATING SWITCH
- A FIXED PLUG ON THE RIGHT SIDE TO CONNECT THE UNIT TO THE MAINS, ELECTRICAL LINE

### OPTIONALS

- FIXED/ADJUSTABLE CALIBRATION HP/LP SWITCH WITH AUTOMATIC RESET
- WATER-COOLED CONDENSER

### OPTIONALS

- FIXED/ADJUSTABLE CALIBRATION HP/LP SWITCH WITH AUTOMATIC RESET
- WATER-COOLED CONDENSER
- EVAPORATOR/CONDENSER CATAPHORESIS TREATMENT
- 3MT CABLE FOR DOOR HEATER
- CONDENSER FAN SPEED REGULATOR WITH THERMOSTATIC, PRESSURE AND BESTCOP CONTROL
- PREARRANGEMENT FOR SUPERVISING SYSTEM
- VOLTAGE MONITOR
- DIFFERENT VOLTAGE ON REQUEST



LEGEND	
Tc	cold room temperature
Ta	ambient temperature



Zanotti supplies a complete range of products for the whole cold chain for food industry. From the gathering of semi-processed products to the distribution in large retailers and restaurants, Zanotti products are designed to meet every customer request.

### TRANSPORT REFRIGERATION

### COMMERCIAL REFRIGERATION

COOLING CAPACITY from 0,5 to 4 Kw  
COLD ROOM VOLUME up to 50 m<sup>3</sup>

### SEMI-INDUSTRIAL REFRIGERATION

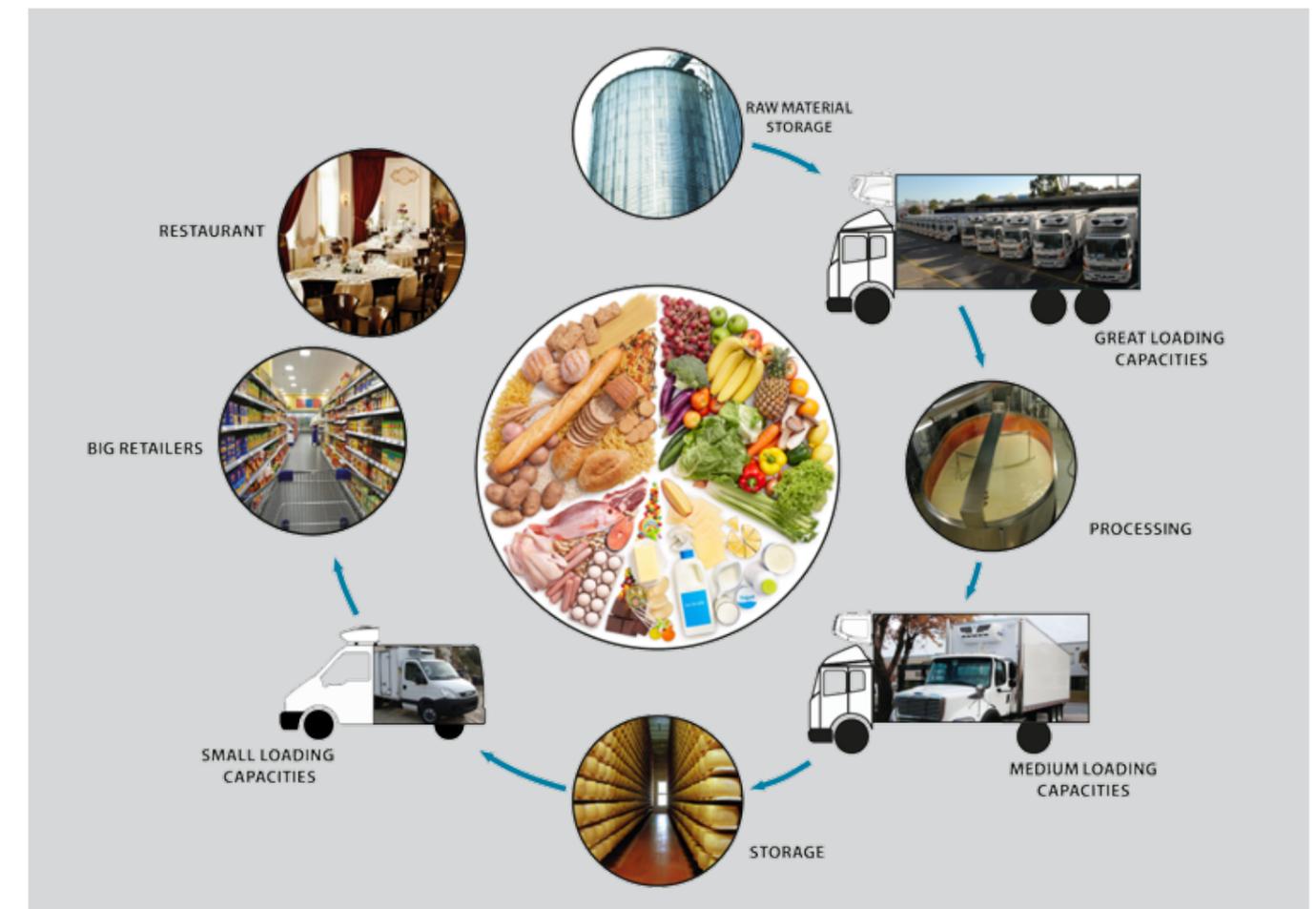
COOLING CAPACITY from 4 to 50 Kw  
COLD ROOM VOLUME up to 350 m<sup>3</sup>

### INDUSTRIAL REFRIGERATION

COOLING CAPACITY up to 300 Kw  
COLD ROOM VOLUME up to 2000 m<sup>3</sup>

### TURNKEY PROJECTS

UNLIMITED VOLUMES AND COOLING CAPACITIES



### CALCULATION CONDITIONS

The data contained in this document are calculated considering maximum vehicle volumes and few door openings. Recommendations are based on precooled loads and a K values as follows: 0.07 K for fresh goods (32°F and 43°F) and 0.05 K for frozen goods (-4°F) K= [btu / (ft<sup>2</sup> °F h)]  
 Recommendations are not a guarantee of performance as there are many variables to be considered.

Descriptions, technical data and pictures are to be considered as a guide and not binding. Zanotti Spa reserves the right to bring such a literature, on technical and commercial grounds, at any time and without notice, any change supposed to be convenient, still being unchanged the basic features of the equipments. ©Copyright Zanotti Spa All rights reserved  
 No part of these pages, either text or image may be used for any purpose other than personal use. Therefore, reproduction, modification, storage in a retrieval system or retransmission, in any form or by any means, electronic, mechanical or otherwise, for reasons other than personal use, is strictly prohibited without prior written permission by Zanotti Spa.

**DAIKIN AIRCONDITIONING INDIA PVT. LTD.**

12th Floor, Building No. 9, Tower A, DLF Cyber City, DLF Phase III, Gurgaon - 122 002, Haryana, India.  
Tel.: 0124-4555444, Fax.: 0124-4555333, e-mail: ho@daikinindia.com



**CUSTOMER CONTACT CENTRE**  
011-40319300, 1860-180-3900  
csref@daikinindia.com

To know more, give a missed call or SMS:  
<DAIKIN> to 9210188999

Visit us at: [www.daikinindia.com](http://www.daikinindia.com)

Follow us on:

-  [www.facebook.com/daikinindia](http://www.facebook.com/daikinindia)
-  [www.twitter.com/daikinindia](http://www.twitter.com/daikinindia)

