



REFRIGERATING UNITS for small vehicle



F10D

Split Unit.

Twin cylinder, 43 cm³ open compressor. The compressor is driven by a 12V dc electric motor connected to the vehicle battery or by a power supply connected to the mains (230V/1~/50Hz).

Condensing unit: epoxy coated, galvanised steel base and ABS casing with anti-shock and U.V. protection.

Nosemount or roofmount.

Evaporator : compact aluminium and ABS body ensuring maximum use of interior space.

HP protection.

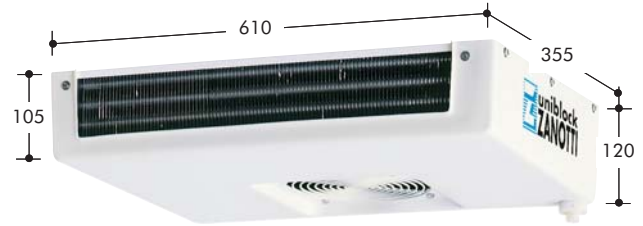
Low noise spiral fans: one 910 m³/h on condensing unit, one 630m³/h on evaporator. Control circuits are at 12 V dc.

Control panel: installed in the driver's cab. Allows temperature selection and control, with thermometer and switch for choice of road or stand-by (mains) operation.

Pipes, attachments and accessories for installation and connection.

Optional

- 230V-AC/DC 12V stand-by power supply.



Flat evaporator
Weight: Kg. 13



Condensing unit
Weight: Kg. 45

REFRIGERATING CAPACITY with refrigerant R134a for external temperature +30°C

Inside Temperature	Road oper. W	Mains oper. W	Body or Van m ³
0°C	530	530	4
-20°C	-	-	-

F10M

Split Unit.

Twin cylinder, 43 cm³ open compressor. The compressor is driven by a 12V dc electric motor connected to the vehicle battery or by a power supply connected to the mains (230V/1~/50Hz). The vehicle needs a 90 Amp increased alternator.

Condensing unit: epoxy coated, galvanised steel base and ABS casing with anti-shock and U.V. protection.

Nosemount or roofmount.

Evaporator: compact aluminium and ABS body ensuring maximum use of interior space.

Low noise spiral fans: one 914 m³/h on condensing unit, one 630m³/h on evaporator. Control circuits are at 12 V dc.

HP protection.

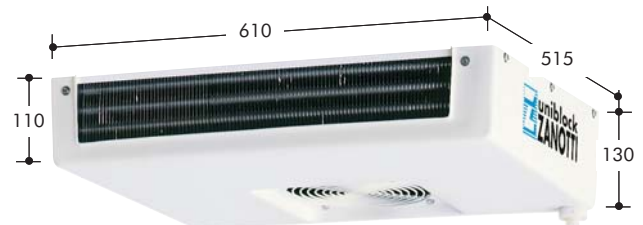
Control panel : installed in the driver's cab. Allows temperature control inside the van, automatic and manual defrosting.

Switch for choice of road or stand-by (mains) operation.

Pipes, connections and accessories for installation and connection.

Optional

- 230V-AC/DC 12V stand-by power supply.



Flat evaporator
Weight: Kg. 14



Condensing unit
Weight: Kg. 51

REFRIGERATING CAPACITY with refrigerant R134a for external temperature +30°C

Inside Temperature	Road oper. W	Mains oper. W	Body or Van m ³
0°C	745	745	6
-20°C	298	298	2



REFRIGERATING UNITS for medium-sized vehicle



FZ114

Split Unit.

Twin cylinder, 43 cm³, open compressor. The compressor is driven by a 12V dc electric motor connected to the vehicle battery (90 Amp alternator needed) or by a power supply HP 1 – 400V/3N~/50Hz and/or 230V/1~/50Hz.

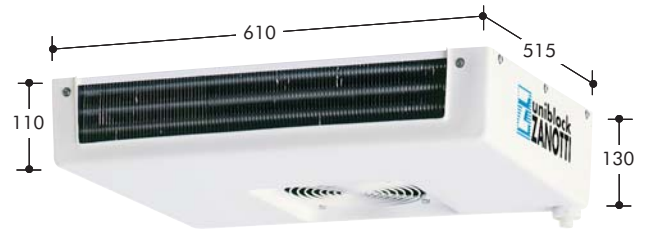
Condensing unit: self-supporting 180° oven-dried powder painted galvanised sheet steel body and ABS casing with anti-shock and U.V. protection.

Roof mounted evaporator.

HP/LP protection and thermorelay when operating on mains.

Configuration:

- Control panel installed inside the driver's cab complete with: ON/OFF button, road/mains button, thermostat - thermometer, manual defrost button, battery level LED light.
- Spiral-shaped fan for condenser : 910 / *1000 m³/h.
- Spiral-shaped fan for evaporator: 630 m³/h.
- Pipes and attachments
- Cable and electrical connection
- Condensation drain
- Assembly kit.



Flat evaporator
Weight: Kg. 14



Condensing unit
Weight: Kg. 59

REFRIGERATING CAPACITY with refrigerant R404A for external temperature +30°C

Inside Temperature	Road oper. W	Mains oper. W	Body or Van m ³
0°C	1116	846	8
-20°C	402	365	4

Control panel

Easy to use and install.

Versions suited to all F and FZ series models.

It is very simple to use and can be clearly read by the driver while on the road.

CONTROL PANEL IN CAB:

- 1) 12V / 24V dc. Current.
- 2) Two up/down switches.
- 3) Three outputs: thermostat, defrosting, road/mains.
- 4) digital input (clean contact) for defrosting
- 5) digital input for battery ON
- 6) digital input for mains ON
- 7) secondary key analogue input





REFRIGERATING UNITS for medium and large vehicle



FZ218 - FZ219

Split Unit.

The compressor is driven by the vehicle engine (when running) or by a mains supply connected to the mains (HP 1,5 – 400V/3N~/50Hz and/or 230V/1~/50Hz).

Condensing unit: self-supporting 180°C oven dried powder painted galvanised sheet steel body, ABS casing with anti-shock and U.V. protection. Nosemount or roofmount.

Evaporator: cubic (A), with aluminium body; flat (B) with aluminium and ABS body, roof mounted.

HP/LP protection and thermorelay when operating on mains.

Configuration:

- Condensing and evaporating unit
- Panel board and controls installed in the driver's cab complete with: ON/OFF button, Road/Mains button, thermostat- thermometer, manual defrost button, battery level LED.
- Compressor for road use: 5 cylinder, 87 / *131 cm³.
- Compressor for mains use: 5 cylinder, 87 cm³.
- Spiral fan for condenser: 850 m³/h.
- Spiral fan for evaporator: 1150 m³/h (A) and 2300 m³/h (B).
- Pipes and attachments
- Cable and electrical connection
- Condensation drain
- Assembly kit.

Model FZ219: made of condensing unit and flat evaporating unit (B)

Optional:

- Road compressor mounting kit.

* Technical data referred to mod. FZ219.



REFRIGERATING CAPACITY with refrigerant R404A for external temperature +30°C

Inside Temperature	Road oper. W	Mains oper. W	Body or Van m ³
0°C	1780 *2830	1560 *1661	15 *21
-20°C	940 *1377	830 *878	9 *15

FZ228

Split Unit.

The compressor is driven by the vehicle engine (when running) or by an electric motor connected to the mains (HP2 –400V/3N- 50Hz and/or 230V/1-/50Hz).

The condensing unit has a self-supporting 180°C oven dried galvanised sheet steel body. The casing is in ABS anti-shock with U.V. protection.

Nosemount or roofmount.

Evaporator: with aluminium body, cubic type, roof mounted.

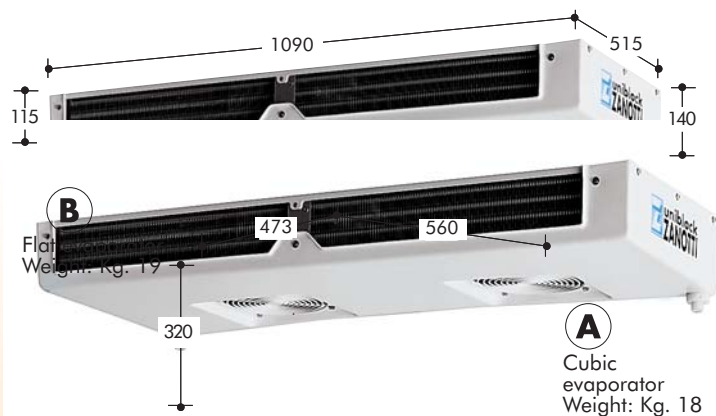
HP/LP protection and thermorelay when operating on mains.

Configuration:

- Condensing and evaporating units
- Control panel located in the cab complete with: ON/OFF button, Road/Mains switch, thermostat – thermometer, manual defrost button, battery level LED.
- Compressor for road use: 5 cylinders, 146,7 cm³.
- Compressor for mains use: 5 cylinders, 87 cm³.
- 2 spiral fans for condenser, air output 2000 m³/h.
- Spiral fan for evaporator: 1150m³/h.
- Pipes and connections
- Cable and electrical connection
- Condensation drain
- Assembly kit.

Optional:

- Road compressor mounting kit.



REFRIGERATING CAPACITY with refrigerant R404A for external temperature +30°C

Inside Temperature	Road oper. W	Mains oper. W	Body or Van m ³
0°C	3174	2352	25
-20°C	1793	1169	19



REFRIGERATING UNITS for large vehicle



FZ328 - FZ338 - FZ348



Whole weight
FZ328: 125 Kg
FZ338: 150 kg
FZ348: 180 kg



Monoblock system installed on the front part of the isothermal body. The unit is operated on the road by a compressor driven by the vehicle engine and on mains by a semi-hermetic compressor. Condensing unit: self-supporting 180°C oven powder painted dried galvanised sheet steel body. Front casing : anti-shock ABS with U.V. protection.

HP/LP protection and thermorelay when operating on mains.

Configuration:

- Monoblock unit
- Control panel installed in the driver's cab complete with ON/OFF button, Road/Mains button, thermostat- thermometer, manual defrost button, battery level LED.
- Compressor for road use:
FZ328: 5 cylinder, 146,7 cm³.
FZ338 and FZ348: 6 cylinder, 161 cm³.
- Semi-hermetic motor compressor for mains use:
FZ328: HP 1,5 230V/1-50Hz and/or 400V/3-N/50 Hz - twin cylinder, 88 cm³.
FZ338: HP 1,5 400V/3- N/50Hz - twin cylinder, 103 cm³.
FZ348: HP 2 400V/3-N/50Hz - twin cylinder, 129,5 cm³.
- Spiral fan for condenser:
FZ328 and FZ338: n° 1 Ø 300 air output 2050 m³/h;
FZ348: n° 2 Ø 300 output 4100 m³/h.
- Spiral fan for evaporator:
FZ328: n° 1 Ø 250 air output 1150 m³/h;
FZ338: n° 2 Ø 250 air output 2300 m³/h;
FZ348: n° 3 Ø 250 air output 3400 m³/h.
- Pipes and attachments
- Cable and electrical connections
- Condenser drain
- Assembly kit.

Optional:

- Road compressor mounting kit.

FZ328

REFRIGERATING CAPACITY with refrigerant R404A for external temperature +30°C

Inside Temperature	Road oper. W	Mains oper. W	Body or Van m ³
0°C	3447	2429	29
-20°C	1795	1120	21

FZ338

REFRIGERATING CAPACITY with refrigerant R404A for external temperature +30°C

Inside Temperature	Road oper. W	Mains oper. W	Body or Van m ³
0°C	4167	3403	36
-20°C	1900	1537	21

FZ348

REFRIGERATING CAPACITY with refrigerant R404A for external temperature +30°C

Inside Temperature	Road oper. W	Mains oper. W	Body or Van m ³
0°C	5598	4354	50
-20°C	2783	1793	35