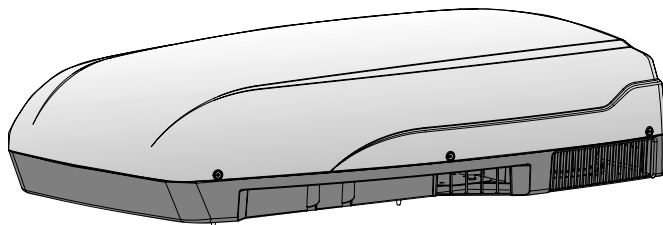


B2200 B1600



Operation, maintenance and installation manual
Libretto istruzioni per l'uso, la manutenzione e l'installazione
Betriebs-, Wartungs- und Installationsanleitung
Manuel d'utilisation, d'entretien et d'installation
Bedienings-, onderhouds- en installatiehandleiding
Manual de instrucciones para el uso, mantenimiento e instalación
Manual de instruções de uso, manutenção e instalação
Handbok för användning, underhåll och installation
Käyttö-, huolto- ja asennusohje
Bruks- vedlikeholds- og installasjonsanvisning
Betjenings-, vedligeholdelses- og installationsvejledning

 **Dometic**

ENGLISH

With Dometic at home everywhere. Thank you for your decision to buy an Dometic product. They all have been specially conceived for your vehicle, matching totally the requirements of leisure on wheels - with more than 75 years of experience, the most advanced technology, first-rate materials, superb workmanship, functional design and a care for the environment. The unique Dometic EuroService Guarantee offers you additional peace of mind - ensuring that you will derive comfort everywhere from your Dometic products

ITALIANO

Con Dometic come a casa, ovunque. Vi ringraziamo per averci scelto. I prodotti Dometic sono stati espressamente concepiti per il Vostro veicolo; soddisfacendo completamente le esigenze del tempo libero, sui mezzi mobili, con un'esperienza di oltre 75 anni, la tecnologia più avanzata, materiali di prima qualità, superba squadra di tecnici nonché design funzionale ed attenzione per l'ambiente. Usufruite del Servizio di Garanzia Europea che Vi offre completa tranquillità assicurandoVi che trarrete grande comfort ovunque grazie ai "Vostri" prodotti Dometic

DEUTSCH

Mit Dometic überall wie zu Hause. Wir danken Ihnen für Ihre Wahl. Die Dometic-Produkte wurden speziell für Ihr Fahrzeug entwickelt und tragen den Erfordernissen der Freizeit auf Rädern voll Rechnung - mit einer mehr als 75-jährigen Erfahrung, modernster Technologie, erstklassigen Materialien, einem hervorragenden Technikerteam, funktionellem Design und Umweltfreundlichkeit. Nutzen Sie die EuroService-Garantie, mit der Sie ganz ruhig fahren und die Ihnen überall dank "Ihren" Dometic-Produkten größten Komfort sichert

FRANÇAIS

Partout avec Dometic. Merci d'avoir choisi un produit Dometic. Il a été spécialement conçu pour votre véhicule complétant totalement la gamme d'équipements de votre véhicule de loisirs. Dometic, c'est aussi, 75 ans d'expérience, une technologie avancée, du matériel de premier choix, un design fonctionnel et la protection de l'environnement. La garantie Européenne Dometic vous offre, où que vous soyez, la possibilité de profiter partout de votre matériel.

NEDERLANDS

Met Dometic voelt u zich overal thuis. Wij danken u voor uw besluit een product van Dometic aan te schaffen. Al onze producten zijn speciaal ontworpen voor uw voertuig en voldoen volledig aan de vereisten die worden gesteld aan een vakantie onderweg - met meer dan 75 jaar ervaring, de meest geavanceerde technologie, uitstekende materialen, voortreffelijk vakmanschap, functioneel design en zorg voor het milieu. Bovendien biedt de unieke Dometic EuroService Garantie u extra zekerheid - zodat u er zeker van bent dat u overal kunt genieten van het comfort die producten van Dometic u bieden.

ESPAÑOL

Con Dometic en todas partes como en casa. Le agradecemos su elección. Los productos Dometic han sido expresamente concebidos para su vehículo; satisfaciendo totalmente las exigencias del tiempo libre, en medios móviles, con una experiencia de más de 75 años, la tecnología más avanzada, materiales de primera calidad, soberbio equipo de técnicos así como design funcional y respeto al medio ambiente. Disfruten del Servicio de Garantía Europea que le ofrece tranquilidad absoluta, asegurándole que obtendrá gran confort en cualquier lugar gracias a sus productos Dometic.

PORTUGUÊS

Com Dometic, em todo o lado como em casa. Agradecemos a sua escolha. Os produtos Dometic foram expressamente concebidos para o seu veículo; satisfazendo totalmente as exigências do tempo livre, em meios móveis, com uma experiência de mais de 75 anos, a tecnologia mais avançada, materiais de primeira qualidade, uma excelente equipa de técnicos e um design funcional e respeito pelo ambiente. Aproveite o Serviço de Garantia Europeia, que lhe oferece uma tranquilidade absoluta e lhe assegura que obterá um grande conforto em qualquer lugar graças aos seus produtos Dometic.

SVENSKA

Med Dometic är Du hemma överallt. Tack för Ditt beslut att köpa en Dometicprodukt. De har utvecklats speciellt för Din husvagn eller husbil och lever upp till alla de krav för fritid på hjul -med mer än 75 års erfarenhet, avancerad teknologi, förstklassigt material, överträffat hantverk och design samt omtanke om miljön. Den unika Dometic Europagarantin ger Dig trygghet om något skulle hända.

SUOMI

Dometic - kotonaan kaikkialla. Olemme iloisia siitä, että olet valinnut Dometic tuotteen. Tuotteemme on kehitetty yli 75 vuoden kokemuksella liikkuvan lomanvietäjän tarpeisiin ja valmistettu ensiluokkaisista materiaaleista uusimmalla, ympäristöä säästävällä tekniikalla, toimivalla muotoilulla ja korkealla ammattitaidolla. Dometic tuotteita voit käyttää luottavaisin mielin. Ainutlaatuinen Dometic EuroService -takuu ja laaja huoltoverkosto varmistavat., että saat apua ongelmatilanteissa myös matkasi varrella.

NORSK

Med Dometic kan du føle deg hjemme overalt. Takk for at du bestemte deg for å kjøpe et produkt fra Dometic. Alle våre produkter er utviklet spesielt for ditt kjøretøy og lever fullt opp til alle krav om bekvemmelighet i din fritid - basert på mer enn 75 års erfaring, den mest avanserte teknologi, førsteklasses materialvalg og håndverk, funksjonelt design og omtanke for miljøet. Den unike Dometic EuroService-garantien gir deg trygghet og sikrer komfort uansett hvor du måtte befinne deg.

DANSK

Med Dometic kan du føle dig hjemme overalt. Tak for din beslutning om at købe et Dometic produkt. De er alle blevet specielt udviklet til dit køretøj og lever fuldt ud op til kravene om fritid på hjul med mere end 75 års erfaring, den mest avancerede teknologi, førsteklasses materialer, uovertruffet håndværk, funktionelt design og omtanke for miljøet. Den unikke Dometic EuroService Garanti giver dig yderligere ro i sjælen og sikrer, at du takket være dine Dometic produkter vil opleve stor komfort, uanset hvor du befinder dig.

©DOMETIC - 2008 All rights reserved - Printed in Italy

No part of this publication may be reproduced, copied or transmitted in any form or by any means without prior written permission from DOMETIC.

Figures, descriptions, references and technical data in this manual are given as mere example and are not binding.

In pursuing a policy of continual product and safety improvement, DOMETIC reserves the right to make changes at any time without undertaking to give prior notice or to update this manual every time.

Keep this document for future reference.

Warranty Validity

'The product is warranted in accordance with the enforced Law and regulations implementing the Directive 1999/44/EC.

The Manufacturer s warranty does not extend to Product failures, defects or damage arising from and/or attributable to a wrong installation.

The Consumer is entitled to let the Product be installed by an authorised dealer, not bound by Dometic.

Index

1 General informations

1.1.	Scope of the manual.....	4
1.2.	Manufacturer and air conditioner data plate.....	4
1.3.	Description of the air conditioner.....	4
1.4.	How to use the air conditioner.....	6
1.5.	Description of the controls.....	7
1.6.	Technical data.....	12
1.7.	Ordinary maintenance.....	13

2 Installation instructions

2.1.	Packaging, unpacking and handling.....	14
2.2.	Preparing the roof opening.....	15
2.3.	Mounting the air conditioner.....	18
2.4.	Electric connection.....	20

3 Troubleshooting, maintenance, recycling

3.1.	Troubles, causes, solutions.....	21
3.2.	Extraordinary maintenance.....	21
3.3.	Recycling.....	21

Spare part list B1600 - B2200.....	22
------------------------------------	----

Operation, Maintenance and Installation manual **Air conditioner**

Libretto istruzioni per l'uso, la manutenzione e
l'installazione
Condizionatore

Bedienungs- und
Wartungsanleitung
Klimaanlage

Mise en route, entretien et
installation
Climatiseur

Handleiding voor bediening,
onderhoud en installatie
Airconditioner

Manual de instrucciones para el uso, la mantención
y la instalación
Acondicionador

Livrete de instruções para uso, manutenção
e instalação
Aparelho de ar condicionado

Handbok för drift, underhåll och
installation
Luftkonditionering

Käyttö-, huolto- ja
asennusohje
Ilmastointilaite

Brukerveiledning og manual
til vedlikehold og installasjon
Airconditioner

Brugervejledning og manual
til vedligeholdelse og installation
Airconditioner

GB**I****D****F****NL****E****P****S****FIN****N****DK**

1 General informations

GB

1.1. Scope of the manual

This manual has been made by the Manufacturer and it shall be regarded as part of the air conditioner.

The information it contains, when complied with, ensures a correct and efficient use of the air conditioner.

The first part of this manual is for users , the second one for qualified technicians  facing the installation of the air conditioner.

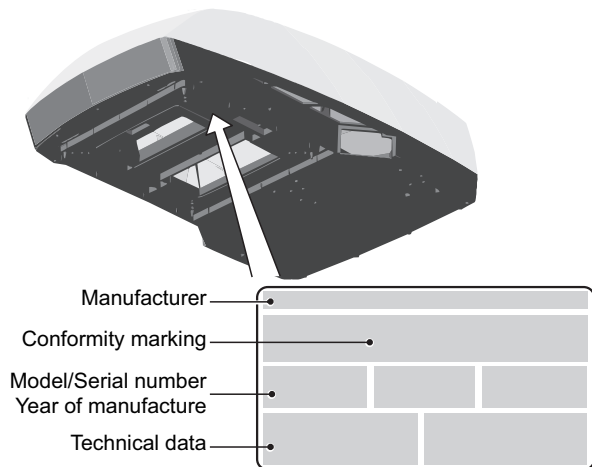
To draw the readers attention to special parts of the text, the following symbols have been used:

 This operation may result in dangers

 Useful advice

 Environment safety related information

1.2. Manufacturer and air conditioner data plate



1.3. Description of the air conditioner

This air conditioner has been designed and manufactured to be installed onto vehicles (i.e. camping-cars, caravans, motorhomes) to improve the temperature conditions. It supplies fresh and dehumidified air in summer and warm air in winter without, in any case, replacing the heating system of the vehicle. In both cases, temperature is set by the user.

Fresh air - Running

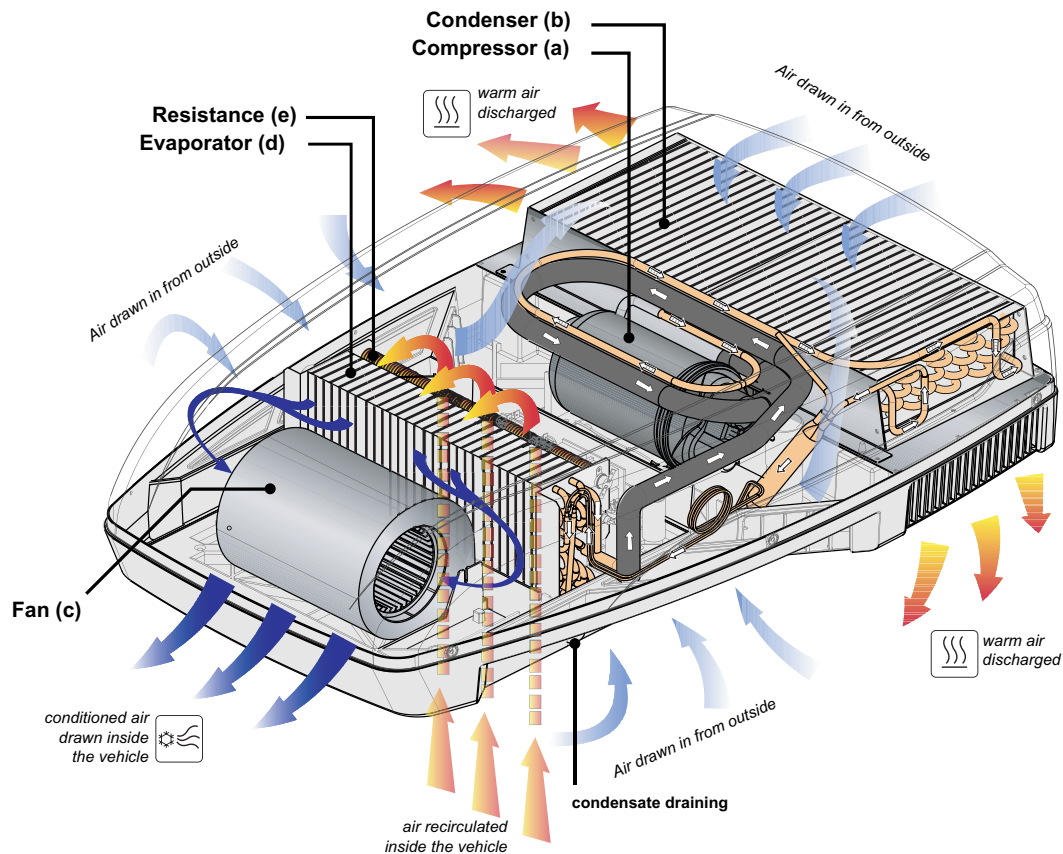
The system is inclusive of: compressor (a), condenser (b), evaporator (d) and refrigerant gas under pressure. According to the physical state of the refrigerant gas -i.e. liquid or gaseous, it heats or cools the components where it passes through.

Fan (c) forces the internal air through the cooled evaporator from where it comes out cooled down and dehumidified.

This action, protracted over the time, reduces the temperature into the vehicle.

Warm air - Running

Ambient air is forced by fan (c) into an electrical heating resistance (e) and then recirculated inside the vehicle.



GB

1.4. How to use the air conditioner

i The air conditioner performance can be improved by taking some simple measures.

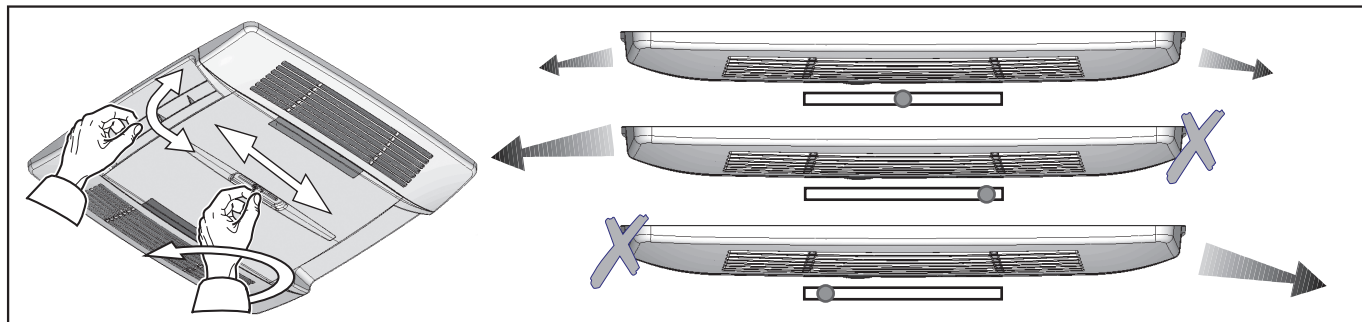
- Improve the thermal insulation of the vehicle by closing any opening and by covering any glassed surfaces with reflecting curtains.
- Avoid opening doors and windows unnecessarily.
- Select the most suitable temperature and speed.
- Properly direct the air flaps.

To prevent troubles and minimise risks for people, take the following precautions:

- Do not obstruct the air inlets and outlets with cloths, paper or other objects;
- Do not introduce your hands or other objects into the openings;
- Do not spray the air conditioner with water;
- Keep flammable substances away from the air conditioner.

Adjusting the air direction

Position the air diffusing flaps to direct the air to the desired position. In order to balance the airflow it's necessary to rotate the center knob in anticlockwise, to choose the wished position and then rotate clockwise.



1.5. Description of the controls (B1600)

GB

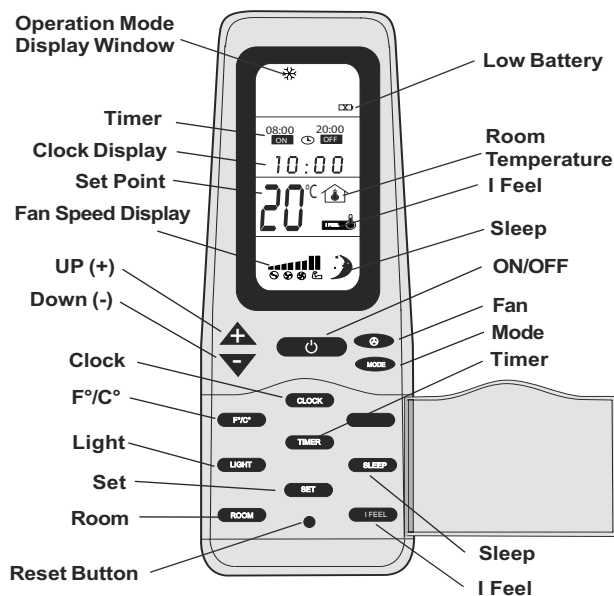
	Main switch	ON - OFF	Position □ air conditioner ON. Position □ air conditioner OFF.
	Warm/Cold dual-switch	Warm - Cold	Position □ warm air. * Position □ fresh air.
	Thermostat	Air temperature (18°C÷40°C)	By rotating the knob clockwise, temperature increases (max. 40°C) By rotating the knob and clockwise, temperature gets reduced (up to 18°C)
	Fan switch	Air speed	Position □ low speed. Position □ high speed.

* (only for models equipped with resistance)

1.5. Description of the controls (B2200)

Remote control (B2200)

REMOTE CONTROL



 ON/OFF	Press the ON/OFF button to start the airconditioner. When it's OFF all the symbols are OFF, except the clock and you can use the ROOM and the LIGHT buttons.
 F°/C°	Choose the temperature measurement unit between Celsius (°C) or Fahrenheit (°F). If temperature is displayed this function is enabled.
 LIGHT LIGHT**	Pressing the light key the light on the airconditioner diffuser is switched on (if equipped). The light button works also when the remote control is off.
 ROOM	Pressing this button the room symbol is displayed and the local temperature is displayed instead the set point. Pressing the Room button an other time the Room symbol disappear and the set point temperature is displayed instead the local one. This button works also when the remote control is off.
 CLOCK	Pressing the "CLOCK" button for a time longer than 2 seconds, it is possible to modify the "TIME SETTING", managing the UP (+) button or the DOWN (-). Press the "SET" button to confirm the modifications. After 15 seconds the new set is confirmed in any cases.
 SET	This button has two functions: 1) To confirm the TIME SETTING 2) To resend the actual operating setting
 TIMER	Press this button to set the time of automatic startup and/or shutdown.
 SLEEP	Press this button to activate the SLEEP function. The set point is adjusted automatically to increase comfort when sleeping.
 I FEEL	Every 10 minutes the operating set point is adjusted to the temperature detected by the remote control.

* (only for models equipped with resistance) -

** (only for models equipped with light)

The RESET button erases all the configuration parameters to default.

AUTOMATIC MODE



MODE	Press the MODE button. Set to "AUTO"
 	Choose the Set Point (16°C - 31°C)
In this mode the fan button is disabled. You can use the LIGHT** and ROOM button.	

FAN MODE



MODE	Press the MODE button. Set to "FAN"
	Choose the Fan Speed
You can use the LIGHT** and ROOM button.	

Available Fan speeds (Cool/Heat*/Fan Mode)



COOL / HEAT MODE

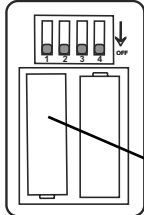


MODE	Press the MODE button. Set to "COOL" or "HEAT**"
 	Choose the Set Point (16°C - 31°C)
	Choose the Fan Speed
You can use the LIGHT** and ROOM	



Low battery
The low battery symbol will appear in the display window when the low battery condition exists.
In this case after each command, the "low voltage symbol" flickers for 2 seconds. In these 2 seconds the remote control is not able to send other commands.

BATTERY COMPARTMENT ON BACK SIDE OF REMOTE CONTROL



Replace the batteries 2x1.5V AAA

* (only for models equipped with resistance) - ** (only for models equipped with light)

08:00 20:00
ON OFF

TIMER

Note: Every time the timer button is pressed, the display flashes for 15 seconds while waiting for the settings to be modified. Remember to set the clock to the correct time before using this function.

Setting the “ON” timer (automatic startup)

- 1) Press the TIMER button and the ON clock will start to flash.
- 2) Set the time required using the + and - buttons
- 3) Point the remote control at the receiver and press the “SET” button to confirm

Setting the “OFF” timer (automatic shutdown)

- 1) Press the TIMER button twice and the OFF clock will start to flash.
- 2) Set the time required using the + and - buttons
- 3) Point the remote control at the receiver and press the “SET” button to confirm

Setting the “ON” & “OFF” timer (automatic shutdown)

- 1) Press the TIMER button three times and the ON clock will start to flash while the OFF clock is visible.
- 2) Set the required ON time using the + and - buttons
- 3) Press the TIMER button and set the required OFF time using the + and - buttons
- 4) Point the remote control at the receiver and press the “SET” button to confirm



SLEEP

- 1) Select the required temperature.
- 2) Press the SLEEP button

Note: The SLEEP function lowers the set temperature by 1° after one hour and by 2° after two hours.



I FEEL

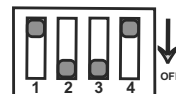
- 1) Press the I FEEL button to enable the function.
- 2) Position the remote control so that it is possible to send signals to the receiver.
- 3) The operating temperature is adjusted to the temperature detected by the remote control.

Note: The remote control must not be in an area that is much warmer or much cooler than the normal room temperature (e.g.: exposed to direct sunlight or to the cold air coming from the diffuser.)

Configuring the remote control



For models with P/N:
CO2230XXXX
CO2231XXXX

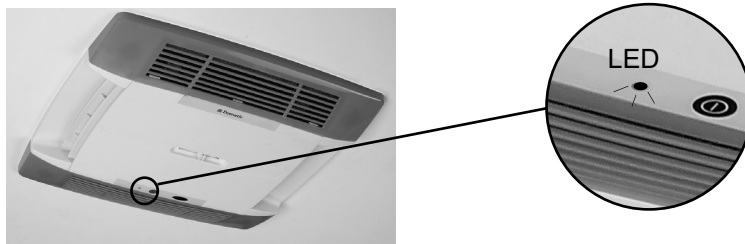


For models with P/N:
CO2233XXXX

Note: Press RESET and reset the clock after each modification.

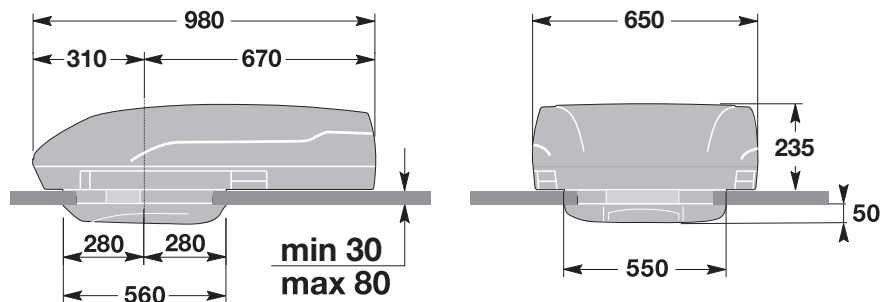
1.5. Description of the led state on the airdiffuser (B2200)

GB



LED State	Description
Off	Airconditioner off
Orange	Airconditioner on StandBy (switch ON - airconditioner is waiting for a command)
Green	Airconditioner is running
Red (fixed)	Anomaly - 230V power supply missing (12V is present)
Red (1 flick)	Anomaly - Malfunctioning of the E1 temperature probe (internal)
Red (2 flicks)	Anomaly - Malfunctioning of the E2 temperature probe (external)

1.6. Technical data

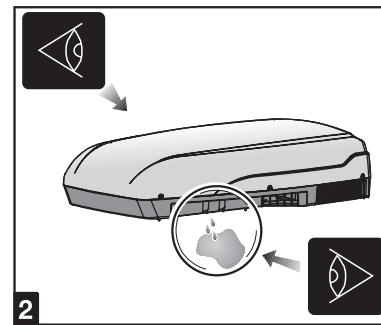
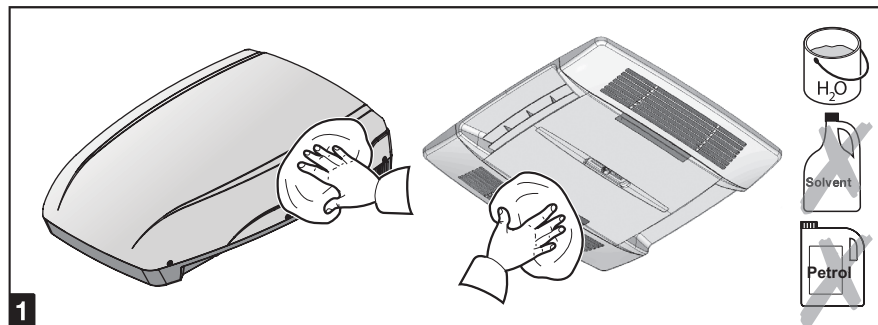


Description	Unit	Model	
		B1600	B2200
Refrigerant gas (type/quantity)		see data plate	
Refrigerating yield	Watt/h	1500*	2050*
Cooling consumption	W	650	910
Heating capacity	W	800	1200
Electrical rating	V-Hz	230-50	230-50
Protection degree	IP	X4	X4
Conditioned air volume	m ³ /h	310	380
Max internal volume of the vehicle (insulated walls)	m ³	20	25
Weight	Kg	30	34

* according to EN 14511

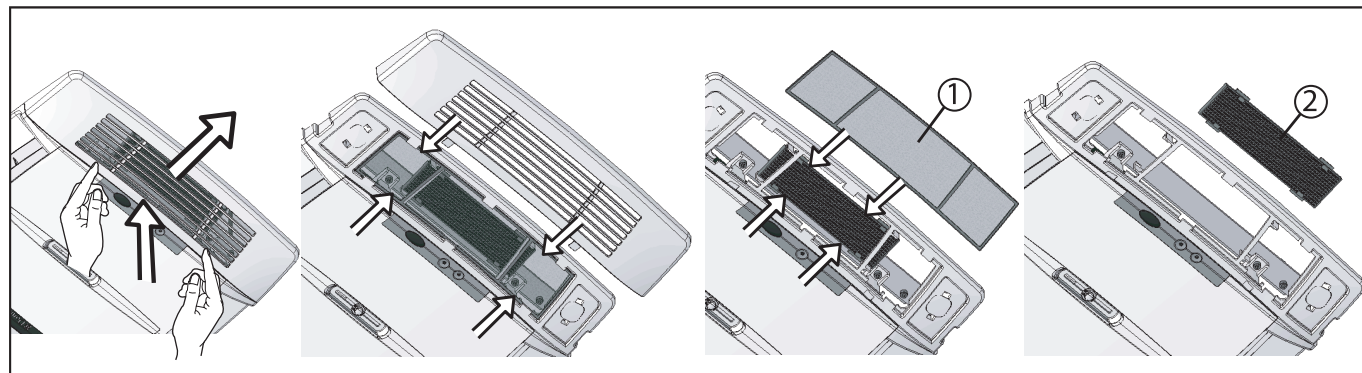
1.7. Ordinary maintenance

GB



Cleaning; periodically clean the air conditioner and remove dust with a damp cloth. When necessary, use a mild detergent. Do not use petrol or solvents.

Checks; regularly check the air conditioner and make sure that the water outlet holes are not clogged.



Filters cleaning (1): periodically carry out this operation; wash the filters with a detergent solution and allow to dry before refitting.

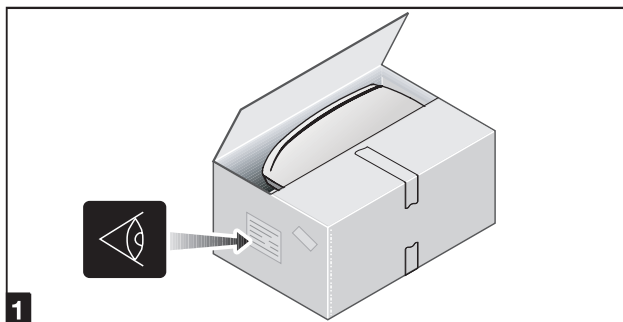
Active carbon filter (2): It's recommended to change the active carbon filters every year.

2 Installation instructions

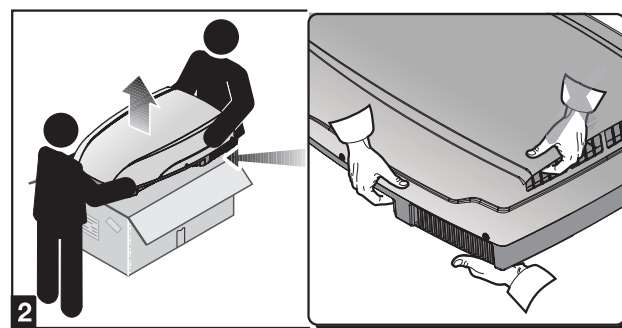
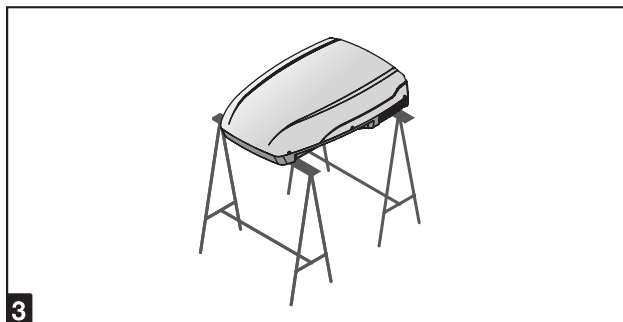
GB

The air conditioner must be installed by skilled technicians. In addition to this requirement, the people making the unit installation must make sure that the working conditions are safe for everybody concerned.

2.1. Packaging, unpacking and handling



Always follow the instructions printed on the packaging.



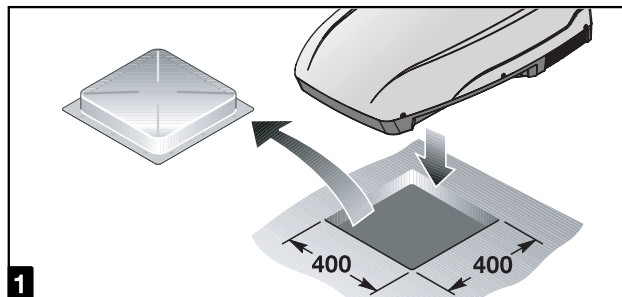
Remove the air conditioner from its packaging and make sure that it is not damaged.

Never use the rear air openings to lift the air conditioner from its packaging

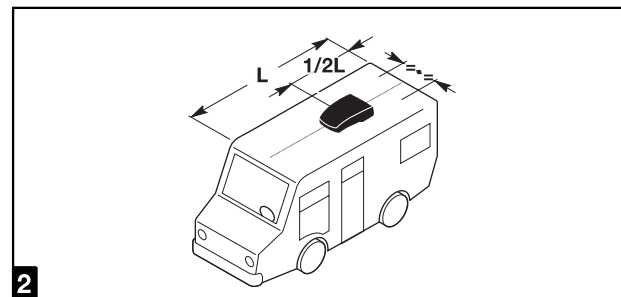
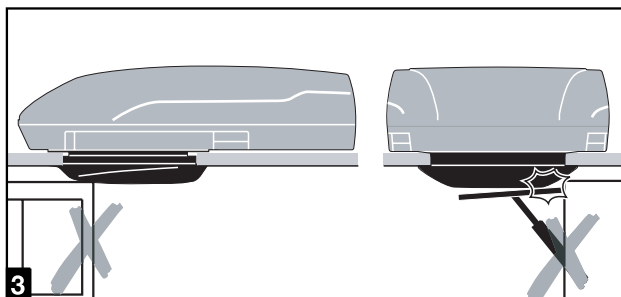


Move the air conditioner to the installation site under safe conditions.

2.2. Preparing the roof opening



To install the air conditioner, the roof shall have an opening of suitable sizes. It is possible to use an existing air inlet or make a new one.



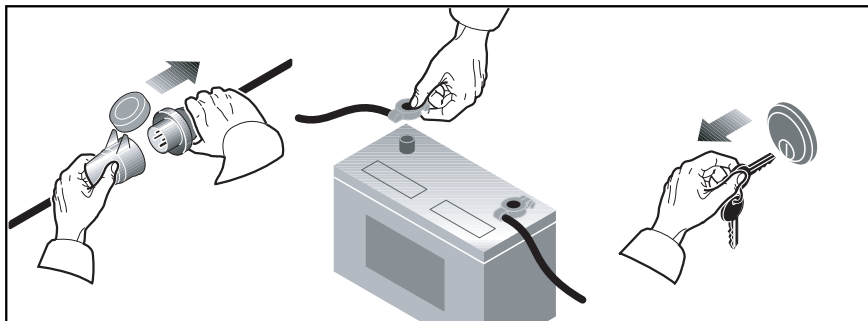
According to the vehicle dimensions and depending on the air conditioning needs, one or more units can be installed. The air conditioner must be installed right in the middle with respect to the vehicle Width and length.

Before installing the unit, make sure that the opening does not interfere with the existing furnishing (lamps, wardrobes, doors, curtains, etc.). This check allows for an easy mounting of the air conditioner and a troublefree air circulation.

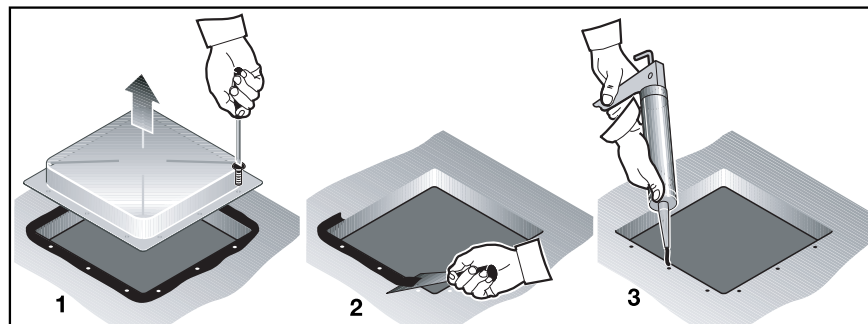
⚠ contact the vehicle manufacturer and make sure that the roof structure can tolerate the static load and the stress transmitted vehicle, especially under running conditions. Sometimes vehicle manufacturers previously arrange areas for the unit installation weakening and/or electric cable from being cut.

⚠ The air conditioner should preferably be installed on a level plane. Maximum allowed inclination: 10°.

GB

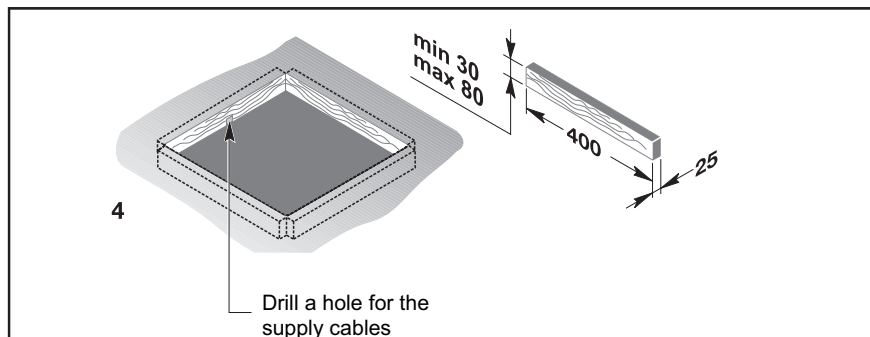
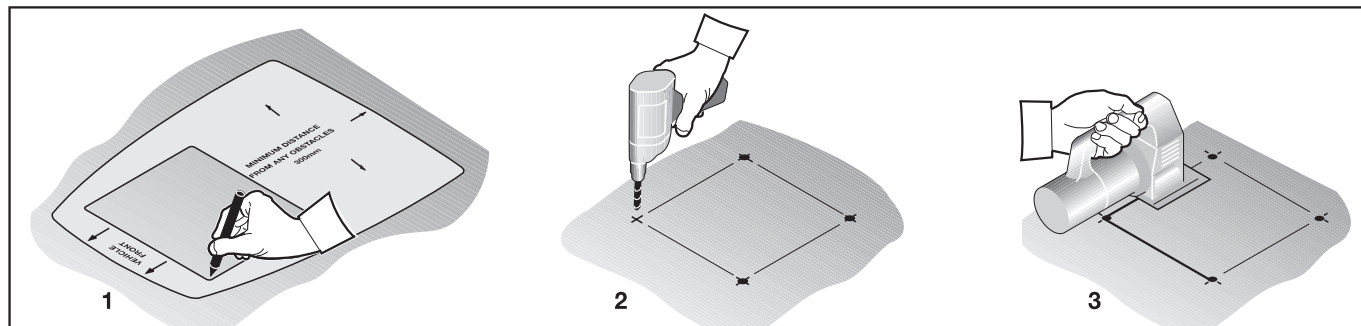


⚠ Danger of electrical hazards.
Turn all power sources off



Using an existing opening

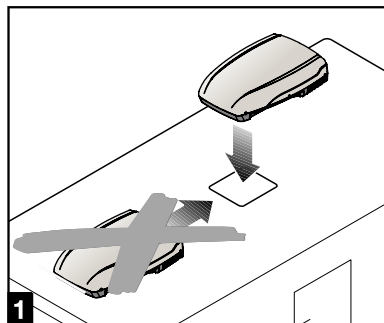
1. Remove the skylight cover.
2. Clean the installation opening all around by removing any adhesive residues.
3. Fill any existing screw hole or deformation with filler or silicone.



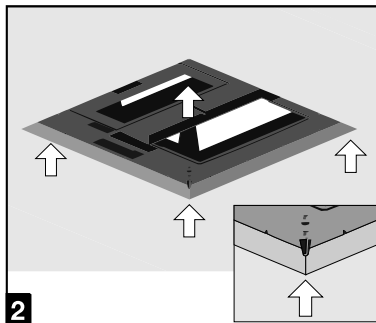
New installation opening

1. Using the printed cardboard template supplied with the unit, find the position and dimensions of the new opening.
2. Drill the four corners.
3. Cut by joining the previously made holes.
4. If necessary, mount a reinforcing wooden frame.

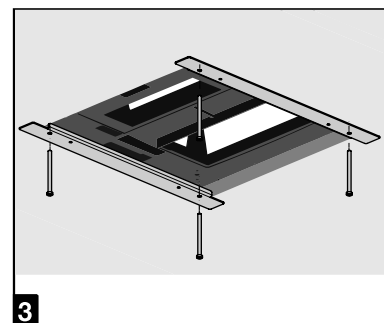
2.3. Mounting the air conditioner



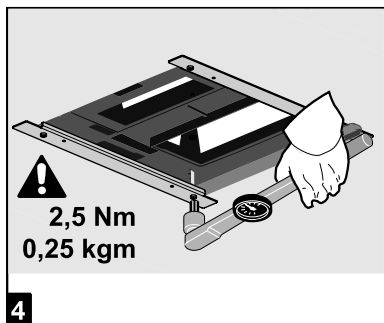
1
Set the air conditioner onto the roof opening. Never slide the air conditioner on the roof, but lift when moving it.



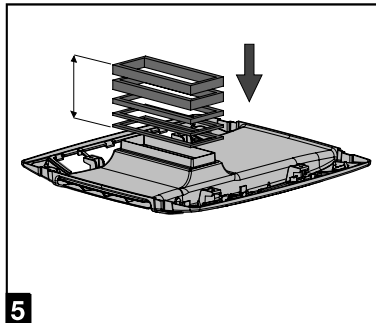
2
Note: the conical pins under the base must enter the roof openings.



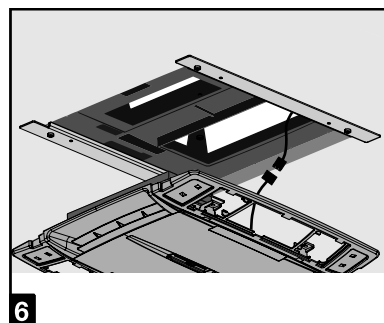
3
Fix the air diffuser brackets to the base using the 4 screws provided.



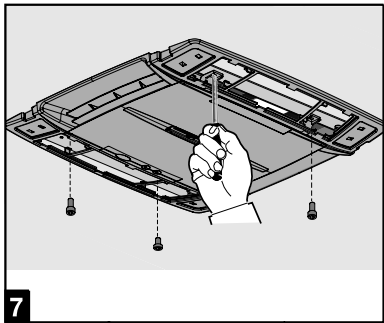
4
Always tighten to the recommended torque wrench setting. Do not overtighten!



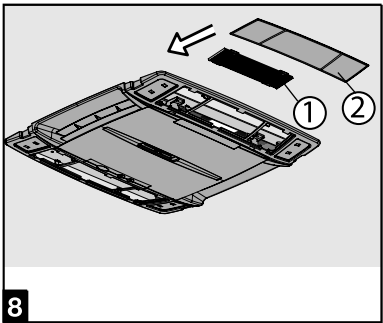
5
Mount the airdiffuser linking gaskets. For correct thickness follow the table on page 19.



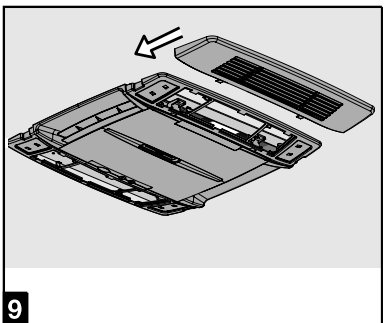
6
Do the electrical connection as described in paragraph 2.4.



7
Fix the cooling unit to the brackets using the 4 screws provided.



8
Mount the filters in the order shown in figure.

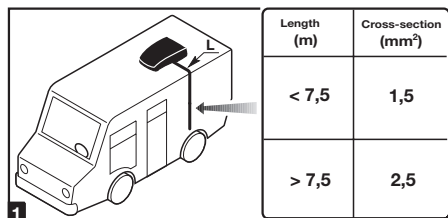


9
Mount the filters covers.

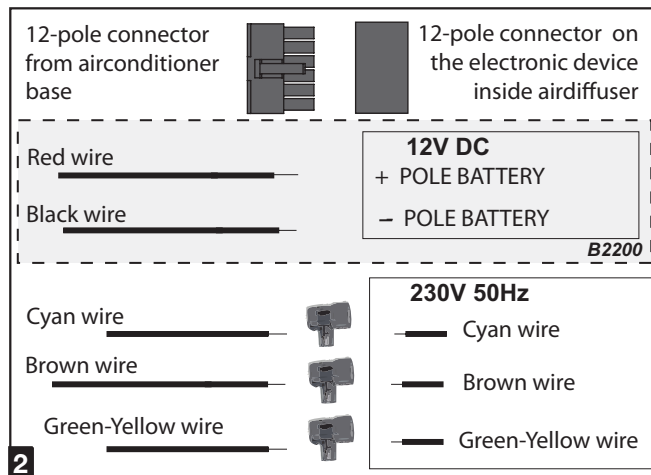
THICKNESS OF THE ROOF				THICKNESS OF THE GASKET
		=	30 mm	10 mm
from	30	to	35 mm	15 mm
from	35	to	40 mm	20 mm
from	40	to	45 mm	25 mm
from	45	to	50 mm	30 mm
from	50	to	55 mm	35 mm
from	55	to	60 mm	40 mm
from	60	to	65 mm	45 mm
from	65	to	70 mm	50 mm
from	70	to	75 mm	55 mm
from	75	to	80 mm	60 mm

2.4. Electric connection

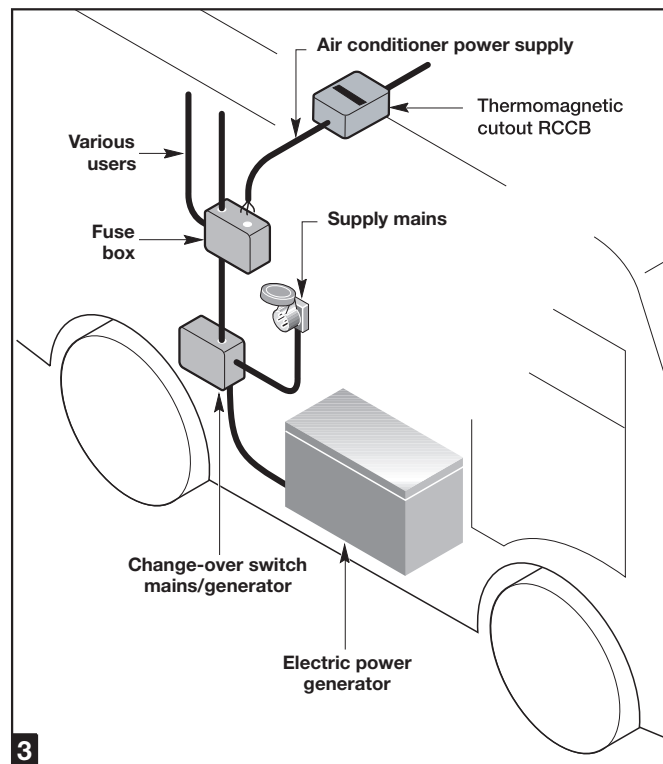
For the electric connections, always follow the national and local regulations



1 Arrange a specific electric system



2 Connect the wires to the air conditioner.



3 Connect the electric system to a circuit supplying the required power (see technical data) and fitted with a good ground system.

3.1. Troubles, causes, solutions

 Operations to be carried out by the user  Operations to be carried out by authorised personnel		SOLUTION																				
		CAUSA																				
the air conditioner does not cool sufficiently																						
the air conditioner does not heat enough																						
no air circulation into the vehicle																						
water leaks into the vehicle																						
the air conditioner does not start																						
the air conditioner stops running																						

3.2. Extraordinary maintenance

For the best performance of your air conditioner, have your dealer/workshop clean it thoroughly before use:

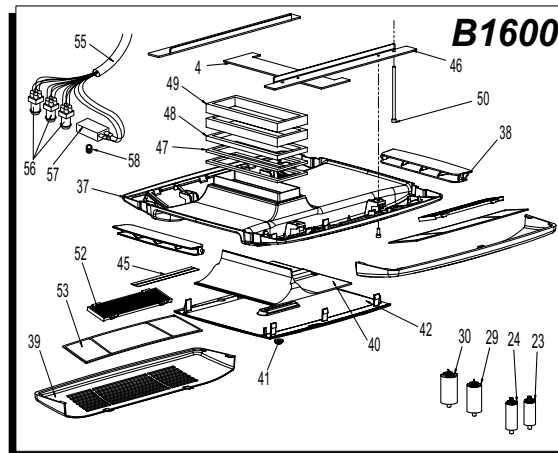
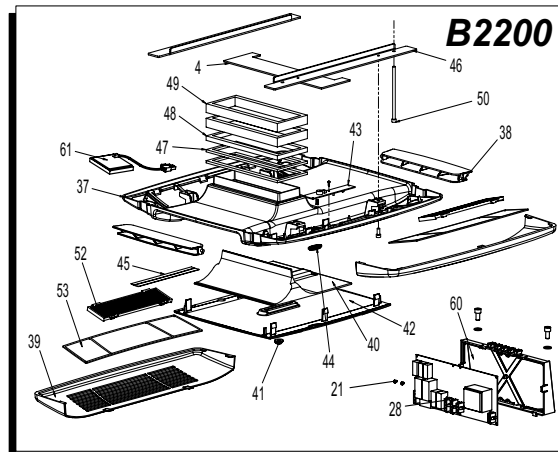
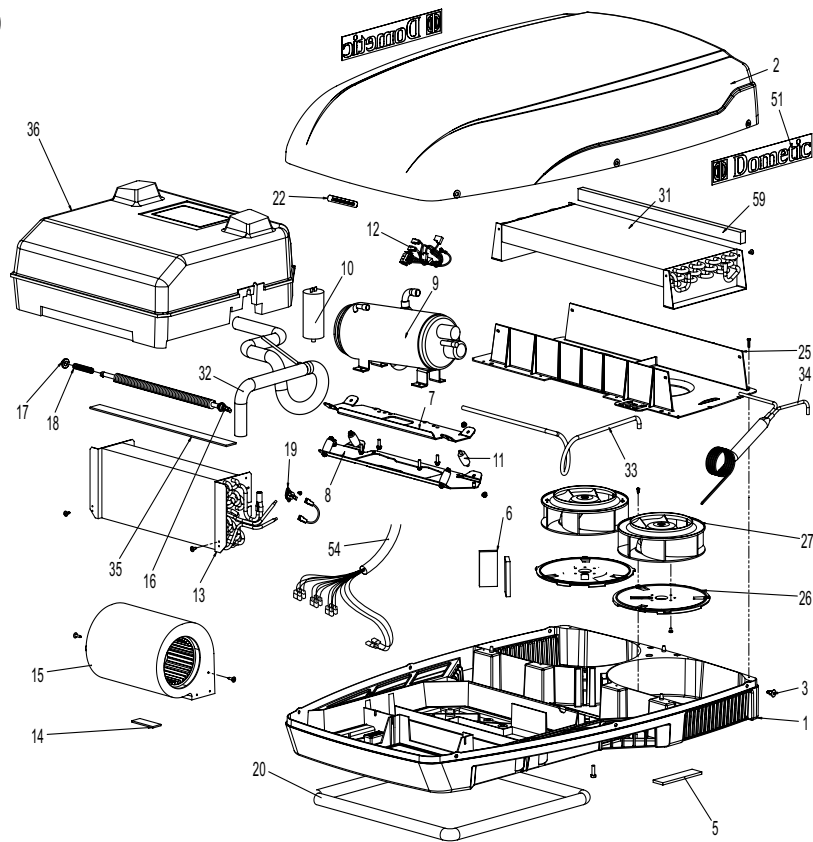
1. thermal exchange batteries
2. water outlet holes are properly cleaned.

3.3. Recycling

Regarding disposal and recycling, follow the national or local regulations. To this end, address to the authorised environment bodies.

Spare part list B1600 - B2200

GB



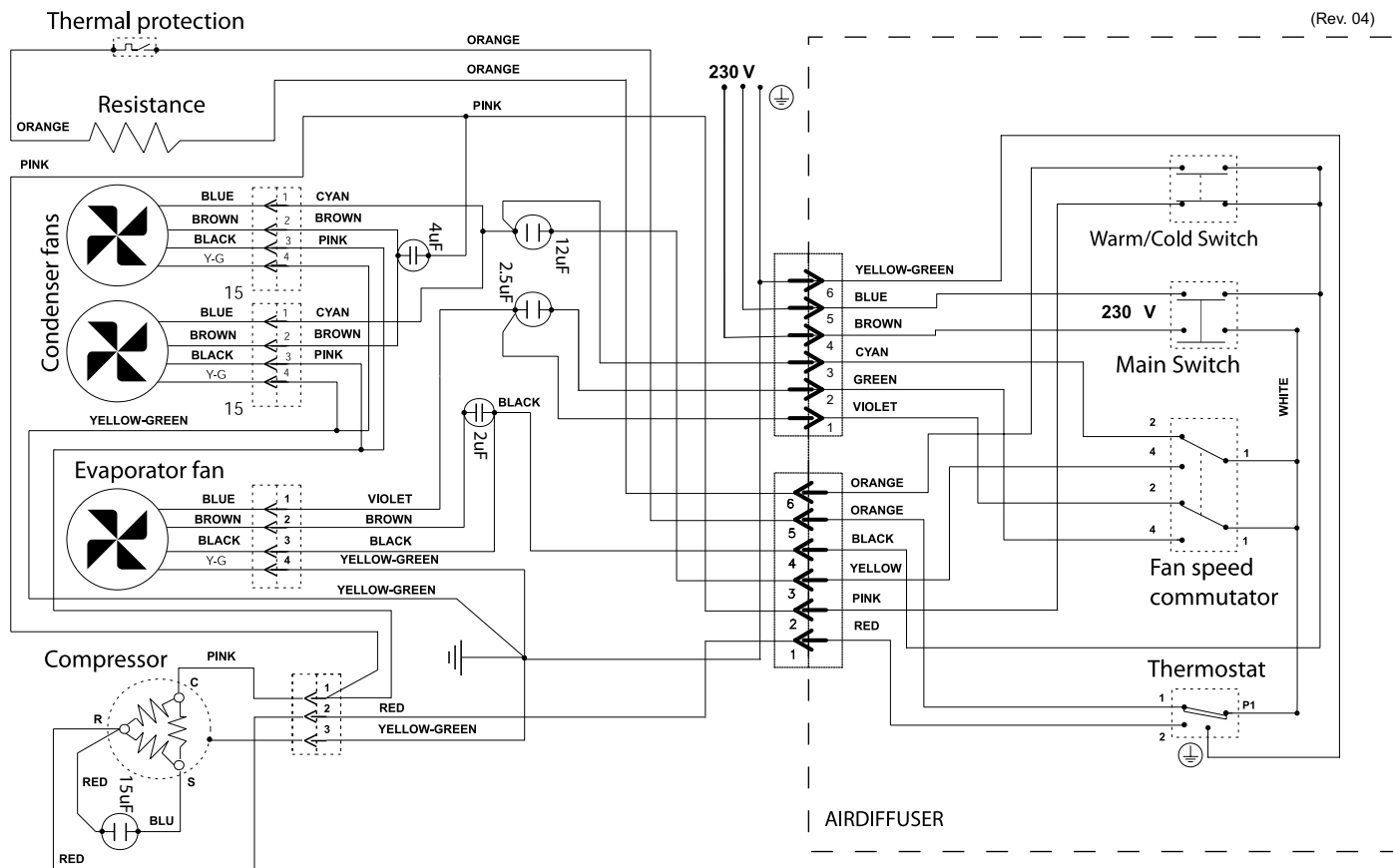
N.	DESCRIPTION
1	PAN BASE
2	COVER
3	RIVETS TWO STAGE
4	INSULATOR
5	GASKET
6	INSERTS
7	SUPPORT
8	SUPPORT
9	COMPRESSOR
10	CAPACITOR
11	VIBRATION DAMPER
12	COMPRESSOR WIRING
13	EVAPORATOR
14	GASKET
15	FAN
16*	RESISTOR
17*	BUSHING
18*	SPRING
19	THERMAL SWITCH
20	OR GASKET
21	RIVETS
22	LABEL
23	CAPACITOR

N.	DESCRIPTION
24	CAPACITOR
25	PLENUM
26	FAN SUPPORT
27	FAN
28	RELAY BOARD
29	CAPACITOR
30	CAPACITOR
31	CONDENSER
32	PIPE
33	PIPE
34	FILTER KIT
35	GASKET
36	HEAT INSULATOR BOX
37	AIR DIFFUSER BASE
38	AIR DIFFUSING FLAP
39	GRILLE
40	DEFLECTOR SLIDE
41	KNOB
42	COVER
43	RECEIVER BOARD
44	RECEIVER COVER
45	LABEL
46	FIXING BRACKET

N.	DESCRIPTION
47	GASKET
48	GASKET
49	GASKET
50	SCREW
51	LABEL
52	ACTIV CARBON FILTER
53	FILTER
54	WIRING
55	WIRING
56	SWITCH
57	THERMOSTAT
58	KNOB
59	GASKET
60	SUPPORT
61**	LED BOARD

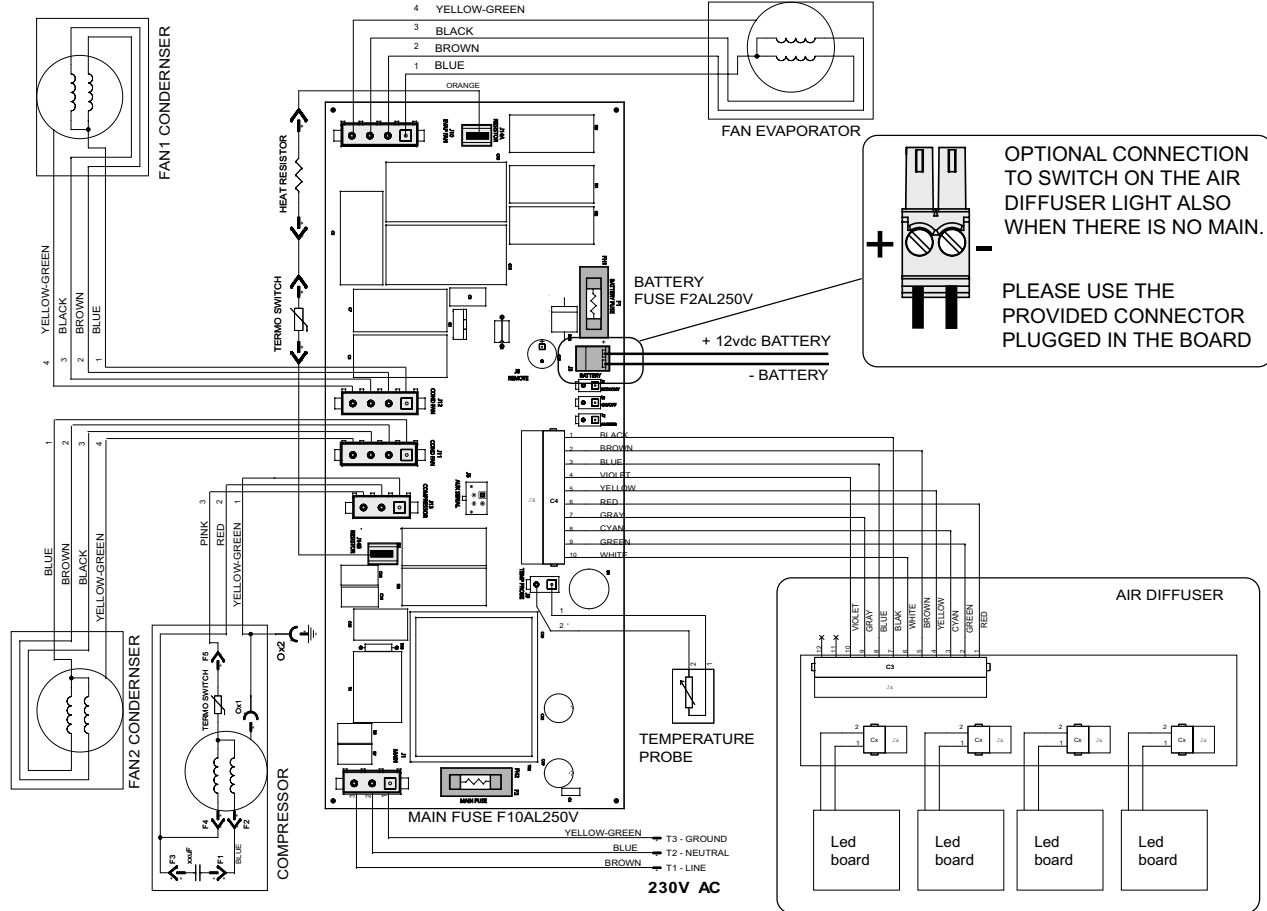
* (only for models equipped with resistance) - ** (only for models equipped with light)

B1600 wiring diagram



B2200 wiring diagram

WIRING DIAGRAMS





DOMETIC

Via Virgilio, 3 - 47100 Forlì - Tel. 0543/754213 Fax.0543/756631