

BUYING GUIDE

BUYING GUIDE AIR CONDITIONERS

FIND THE RIGHT AIR CONDITIONER FOR YOUR RECREATIONAL VEHICLE



 **DOMETIC** **OUTDOOR**

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Criteria to consider when selecting your air conditioner

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WHICH AIR CONDITIONER FOR RECREATIONAL VEHICLES?



BESTE
MARKEN
2022

1. PLATZ

Dometic
Klimaanlagen



Pro
mobil



THE IDEAL TEMPERATURE

A comfortable feeling – it's all about temperature and humidity

The air temperature felt by the human body may differ from the actual, measured air temperature. Our thermal sensation ranges from warm or hot through comfortable to cold. We all want to enjoy a comfortable climate, and humidity plays a decisive role. When humidity is low, we tolerate hot air temperatures even though we sweat, dry heat makes the sweat evaporate quickly from the skin and creates a cooling effect.

This won't happen, though, in a warm humid climate, when humidity is high transpiration diminishes and with it the cooling effect. As a result, we feel the heat even more. The air feels damp and sticky, which may lead to circulatory troubles and insomnia. Knowing all this, it becomes obvious what a good air conditioner ought to do. Cooling alone is not enough; it's also necessary to reduce the humidity to get a comfortable climate.

CREATE COMFORT

The task of an air conditioner

We invest in air conditioning to enhance comfort at home or in the vehicle. The temperature range we perceive as comfortable is not really that wide, as the illustration shows. Temperatures up to 26 °C are only obtained when humidity is low. When the air is damp, the thermometer should not exceed 20 °C. We feel more comfortable when the room temperature is between 18 °C and 22 °C and the humidity is between 40 and 70 %.

To create these conditions in a motorhome the air must be cooled down and dehumidified at the same time. This calls for a compressor powered air conditioner. A/C systems based on direct or indirect evaporation cooling are less effective.

Comfortable climate at 26 °C

The air temperature and humidity range perceived as comfortable



RELATIVE HUMIDITY



OUR TIP: COMPRESSOR SYSTEMS

Compressor-operated A/C systems are the most effective ones. Unlike condenser operator systems they also reduce the air humidity.



comfortable



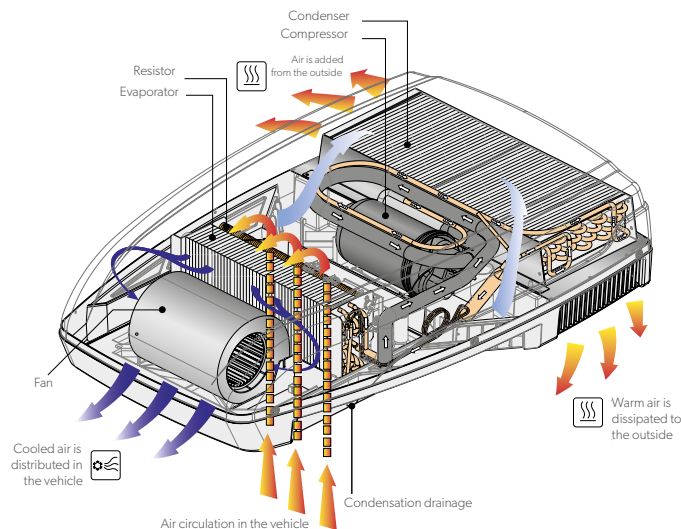
still comfortable



uncomfortably dry or damp

HOW AIR CONDITIONING WORKS

Air conditioners work on basically the same principle as the cooling units of kitchen refrigerators. Their cooling efficiency is way higher though. In either system a refrigerant extracts heat from the space to be cooled and dissipates it to the outside. An air conditioner should additionally reduce the humidity.



A. A/C systems most commonly used for recreational vehicles

Evaporation systems: Water is vapourised in a roof-mounted unit and collected in a filter. A fan draws ambient air in through the filter, which results in a heat exchange. Benefits: low current consumption, lightweight. Drawback: The energy efficiency depends on the ambient humidity; so the performance of the system varies. It drops when the humidity is $> 85\%$ – and that's exactly the level where air conditioning is needed. Moreover, evaporation systems will, by nature increase the humidity in the vehicle, regardless of the ambient conditions.

Compressor systems: A gaseous refrigerant contained in a closed circuit is pressurised and turned into liquid. The liquid then flows through a pipe system and turns into gas again in the evaporator. In the process it extracts heat from the surrounding environment; the outside of the evaporator cools down. The refrigerant then flows back to the compressor, where the cycle begins again. In this way the air conditioning system dissipates air and cools the vehicle interior. Additionally, it circulates and dehumidifies the room air. The benefits are its consistent, powerful cooling performance, largely independent of the ambient temperature and humidity. Many compressor air conditioners integrate a heating system. The performance and efficiency of such heating systems depend on what type you have. If you have a simple heating resistor the performance will certainly be adequate for a chilly evening.

Air conditioners with energy-efficient heat pump technology provide a heating capacity of 3000 watts or more – enough to get the vehicle warm in the early or late seasons.



B. The temperature conditions in recreational vehicles and the reasons behind them

Motorhomes and caravans are no houses and they don't have thick walls, even if they are reasonably insulated they will heat up in the sun. The temperature inside can quickly rise to 30 °C or more and not only in the hot and sunny south, but also in moderate climate zones. Besides insulation, the temperature conditions inside the vehicle depend on other factors, too: the size and number of windows, for

instance. A caravan with small windows will heat up less quickly than a motorhome with generously sized glass surfaces and it does of course matter where you park your vehicle – in the blazing sun or in the shade of a tree. Do you take every opportunity to air the vehicle out? Or are all the windows closed and the heat can spread throughout the interior?

THREE MODEL VERSIONS

Air conditioners for recreational vehicles



Roof air conditioners



Roof air conditioners
with window



Under-bench
air conditioners

Installation on the roof or in a storage compartment

Recreational vehicles offer only two places where the installation of an air conditioner makes sense from a technical and practical point of view: on the roof or in the storage compartment.

Roof air conditioners use the physical principle that cold air sinks. The cold air streams can be directed into the vehicle's living area in an energy-saving manner and without performance loss. Formerly, air conditioners replaced the roof window, but now our engineers have found a way to integrate a window into the roof air conditioner. The result is known as Dometic FreshLight – it is the first of its kind worldwide.

Air conditioners fitted in the storage compartment distribute the air through air outlets, which can be placed in the room as required to get a tailor-made climate control solution.



Our tip: Do you want daylight from the roof window?

Although roof-mounted A/C systems are installed above the vehicle roof window, you need not go without daylight inside your mobile home. If daylight is important to you, you will appreciate the innovative roof-mounted Dometic FreshLight A/C system with integrated window.



Which type of air conditioner is suitable for me?

Roof or under-bench air conditioner – either version has its own advantages but won't suit every application. Check the system comparison benefits below to make a well informed decision. After all, you are going to use your air conditioner for many years to come ...

Benefits of a roof air conditioner

- Simple and fast installation on the roof
- No (air distribution) accessories required
- Easy change-over to another vehicle
- No performance loss (system effectively uses the physical principle that cold air sinks)
- No need to sacrifice the storage compartment
- Option to install two units for two separate climate zones
- The roof window is retained (models with integrated window)

Benefits of an under-bench air conditioner

- The vehicle's centre of gravity and outside dimensions remain unaffected
- You can keep the roof window
- Air outlets can be placed as required
- Air conditioning can be provided for several rooms



NEW – Climate control at its best: Roof air conditioner plus roof ventilator

The new ACC3100 roof ventilator is the ideal complement to your Dometic rooftop air conditioner. When combined, the two systems provide optimal climate control inside your vehicle. That means: maximum comfort and minimal energy consumption. Enjoy a perfect holiday climate at all times – with pleasant temperatures and fresh air to breathe.

Read more on this on page 18.



The ideal combination: Dometic roof air conditioner plus Dometic roof ventilator

CHOOSING THE RIGHT ONE

Choosing the right air conditioner depends on which vehicle you have

Thermal insulation, window surfaces ... and other things to consider

We are sorry to say there is no standard formula to calculate which air conditioner fits which recreational vehicle. Buildings of the same size and vehicles of the same length can have entirely different thermal properties. Their insulation as well as the number and size of the windows decide on how much heat enters the interior. A well insulated caravan with small windows will require less cooling performance than a vehicle with poor insulation and large window areas.



OUR TIP – Don't save on power!

Make sure the power rating of the air conditioner you pick is a bit higher than necessary for your vehicle. After all, you can always turn the A/C down to consume less energy.



Vehicle size

The vehicle length is a useful guide when selecting an air conditioning unit. Before you buy you should also take a closer look at the interior of your motorhome or caravan. How are the rooms laid out, and where are you going to place the unit? Do you want to air condition the whole vehicle or part of it? How large is the area of the room that needs cooling?



Type of vehicle

- a. Semi-integrated vehicle
- b. Integrated vehicle
- c. Alcove
- d. Caravan
- e. Van

Recreational vehicles with larger window areas place higher demands on the performance of the air conditioning system. The number and size of the windows, in turn, depend on the type of vehicle you have. A semi-integrated motorhome with medium sized windows is already a bit of a challenge for the air conditioner. It will have to work even harder if you have one of those integrated vehicles with large and beautiful panorama windows. Alcoves offer the advantage that the windscreen is shadowed by overhang construction so it will heat up less. Caravans with their relatively small windows are not much of a problem either.



Overview* of air conditioners by vehicle type and lengths



	Roof air conditioners FreshJet				Roof air conditioner with window FreshLight	Under-bench air conditioner FreshWell
AIR CONDITIONER	FJX4 1500M	FJX4 1700	FJX4 2200	FJ 3000	FL 2200	FW 3000
CARAVAN						
up to 5.5 m	•	–	–	–	–	–
up to 6 m	–	•	–	–	–	–
up to 7 m	–	–	•	–	•	•
up to 8 m	–	–	–	•	–	•
from 8 m	–	–	–	•	–	–
RECREATIONAL VEHICLES						
up to 5.5 m	•	–	–	–	–	–
up to 6 m	–	•	–	–	•	–
up to 7 m	–	–	•	–	–	•
up to 8 m	–	–	–	•	–	•
from 8 m	–	–	–	•	–	–
PANEL VAN						
up to 6 m	•	–	–	–	–	–
up to 6.50 m	–	•	–	–	–	–

*The overview features typical recommendations ideal for vehicles. The classes of air conditioners may vary according to the vehicle type and insulation.

TRAVEL DESTINATIONS

Which requirements does the air conditioner have to meet?

The north of Sweden or the summer heat of Sicily ...

If you are travelling to the cooler Scandinavian region then this will not challenge the air conditioners to the extremes, a unit with a smaller power rating will do for them. You should not save on power, though, if you regularly travel to the south of Europe and even less so if you have children or pets on board as staying in a recreational vehicle can quickly become uncomfortable on a hot summer day. When the nights are no cooler either, rest and recuperation is only possible with an adequate air conditioner.



What cooling performance do I expect?

It's a question of common sense and energy usage. Basically, you should not demand the same performance from your RV air conditioner as you get from a vehicle A/C system, which is powered via the engine. Those wishing to have 18 °C indoors at midday when the sun is right on top and the temperature way over 30 °C, are likely to be disappointed. But they can look forward to a good night's sleep in pleasant temperature conditions. The purpose of RV air conditioners is not to struggle with the outside temperature but to prevent heat-up caused by additional, "man-made" factors. The temperature level inside a vehicle exposed to the sun usually exceeds the outside temperature by far. Air conditioners can help significantly reduce the interior temperature and the humidity for a better indoor climate.

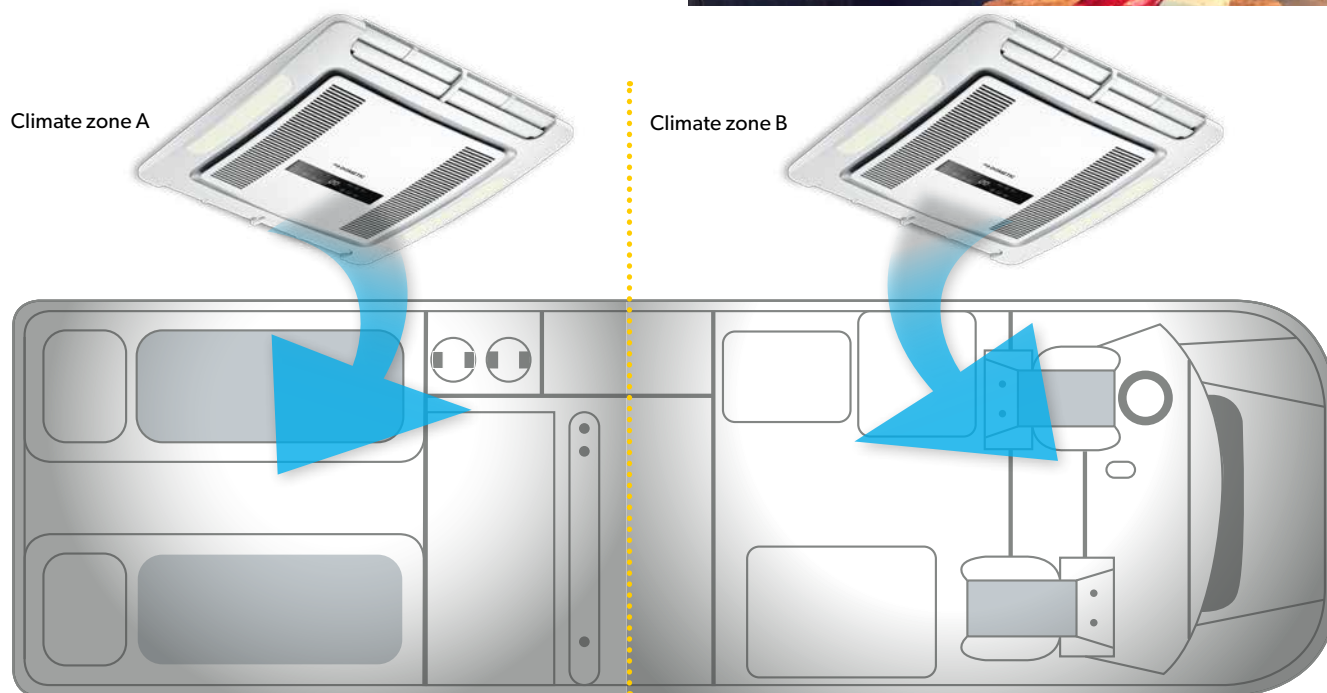
As a rule of thumb, try to get a temperature between 18 and 22 °C and a humidity between 40 and 70 %. These values are considered to be best for a comfortable climate. If you want to be on the safe side, use a thermometer or hygrometer and switch the air conditioner on when necessary. It is best to keep the interior temperature no more than 8 °C below the outside temperature.



Dometic FreshJet – ideal for two-zone air conditioning

Do you want to control the climate in the bedroom and living space separately? This is easily done by installing two FreshJet units.

When choosing the matching power rating you should consider the size of the room, the temperature preferences and your favourite travel destinations. The larger FreshJet FJX4 2200 model is fitted with the soft-start function, the smaller FreshJet FJX4 1500M model has very low starting current, so you will always be able to run at least one of the two units, even on campsites with low electrical circuit protection.



AIR CONDITIONERS ON THE MAINS

Operation at the campsite

About start-up currents and circuit protection

Compressor air conditioners have the highest starting current among the consumers commonly found in recreational vehicles. However, this is only required for fractions of a second and drops rapidly in continuous operation. As the fuses on most campsites are slow blow fused, the short-term peaks are usually tolerated without problems. The FreshJet FJX4 2200, FreshLight 2200 and FreshWell 3000 have particularly high power and they also have a feature

that makes them start up perfectly even on campsites with unstable power supplies: the soft start function. This provides the engine with additional support during the start-up phase. The start-up phase is significantly shortened and is over before the (slow) fuse can react. Another advantage: voltage drops due to improvised supply lines (cable drums) that are too long are generally tolerated.



**Dometic
FreshJet FJX4 2200**



**Dometic
FreshLight 2200**



Dometic FreshWell 3000

COMPRESSOR BENCHMARKING

What are the benefits of an inverter compressor?

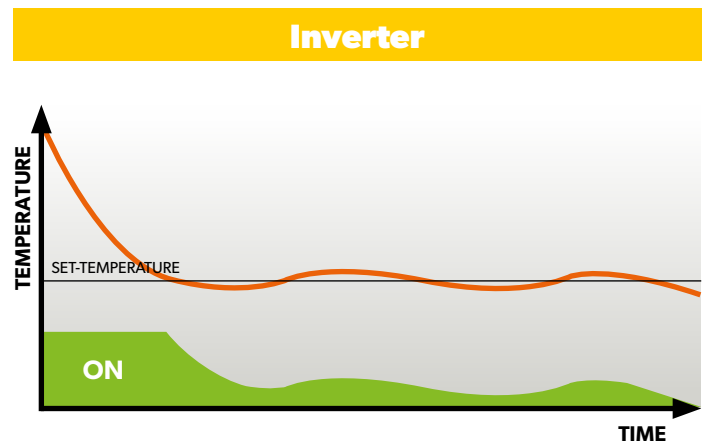
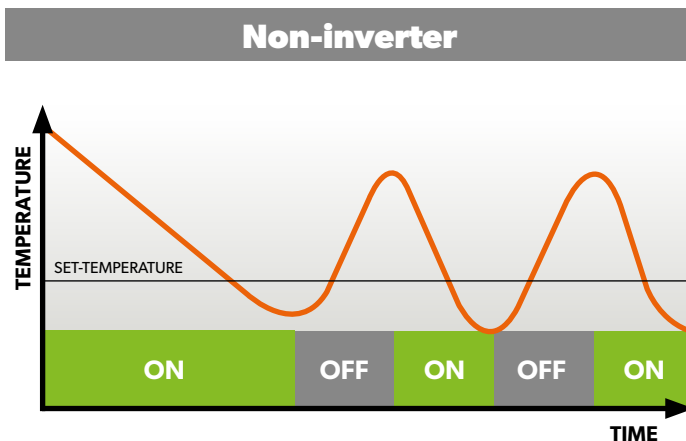
Compared to the compressors used in conventional A/C systems, the inverter compressor of the FreshJet 3000 is particularly quiet, efficient and energy-saving. The main reason for this is that the electronically controlled compressor type does not have the typical ON/OFF cycles. The compressor speed automatically adapts to the cooling requirements. When the preset temperature has been reached, the inverter compressor won't cut off. Instead, it continues running superbly quietly at a low speed to keep the temperature on a fairly constant level. A conventional A/C compressor, by contrast, switches on and off over and over again. This causes noise and consumes extra energy.

Conclusion: An inverter compressor runs more quietly than a classic compressor, and it consumes less energy.

The benefits at a glance:

- Pleasantly quiet running – scarcely any vibration
- Low temperature fluctuations – low energy consumption
- Long running times during self-sufficient camping using the second battery
- No current peaks in the start-up phase – hassle-free operation even on campsites with low electrical circuit protection

LEGEND: ■ OUTPUT POWER ■ TEMPERATURE



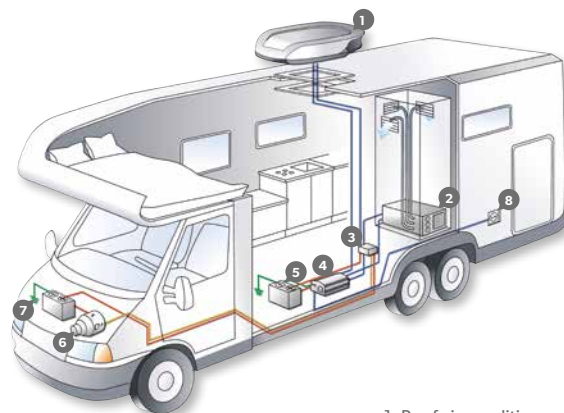


Keep cool on the road

All Dometic air conditioners can be supplied with matching DC kits for operation on the 12-volt vehicle battery. Equipped with the DC kit, you don't need to wait until you arrive at your destination – you can enjoy a perfect climate in your vehicle during the journey. This is especially pleasant when you are travelling with family, friends and pets.

Far more than “just” a converter

Dometic's A/C accessory range gives you a choice of two DC kits with different performance ratings, features and functions. The main components are a sine wave inverter (or one providing a sine-wave-like voltage) and a charging current distributor. The latter ensures optimal energy efficiency while driving. It regulates the power distribution between the starter battery, leisure battery and the generator. At the same time, it prevents excessive strain on the batteries or onboard electronics.



- 1. Roof air conditioner
 - 2. Under-bench air conditioner
 - 3. Charging current distributor
 - 4. Inverter
 - 5. Leisure battery
 - 6. Generator
 - 7. Additional battery
 - 8. 230 V outside socket
-
- +12 V cable
 - Earth cable
 - D+ generator
 - Sensing cable
 - 230 V cable



TWO DC-KITS TO CHOOSE FROM

Our two DC Kits integrate a high-quality inverter that generates a pure sine wave voltage to supply the air conditioner or other electrical devices during the journey. **DC Kit DSP-T 12** is for vehicles with 12-volt batteries, **DC Kit DSP-T 24** for vehicles with 24-volt batteries.

Both comfort kits can be used with almost all FreshJet air conditioner models. Features and functions include a charging current distributor with low-voltage protection, a priority circuit for 230-volt mains operation, and the new remote control, **Dometic DSP-RCT**.

GENERATORS FILL THE GAP

Comfortable climate when Mains Power is unavailable

Power to go wherever you need it

Travelling off the beaten track with all the comfort you are accustomed to – Dometic generators make it possible. They ensure reliable power supply wherever mains power is unavailable. This makes them a must-have accessory for outdoor enthusiasts striving for maximum freedom and independence.



New

CLIMATE CONTROL AT ITS BEST

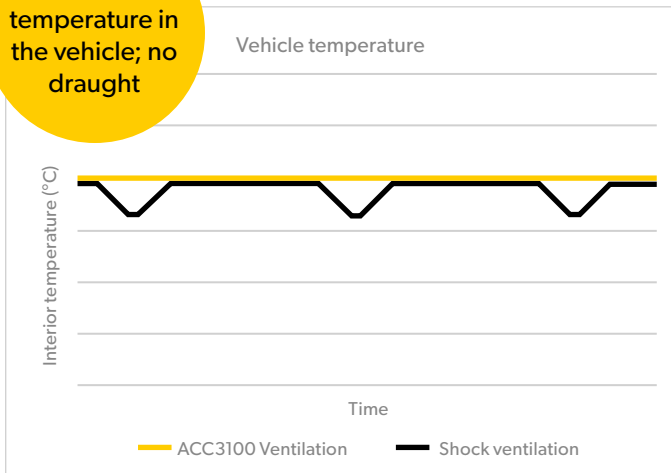
Roof air conditioner plus roof ventilator

The air conditioner creates pleasant temperatures and humidity levels in your RV. However, now and then, it's necessary to open the windows and doors to let stale air out and fresh air in. The drawback of this conventional "shock ventilation" method is that the indoor temperature rises or drops, depending on the season, which means extra work to do for the air conditioner or heating, and extra energy to spend.

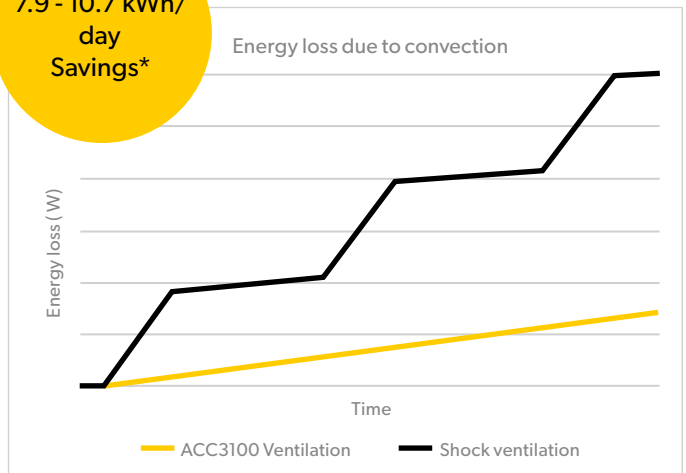
What sounds like a dilemma can be easily avoided if you complement your air conditioner with the ACC3100 rooftop ventilator. The special

benefit of this innovative ventilation system is that it works with all the windows and doors closed, entirely draught-free and without energy loss. Smart sensor technology constantly monitors the air quality inside the vehicle and automatically triggers the ventilation system if it falls below the preset threshold levels. That means you will always have the perfect holiday climate in your caravan or motorhome – pleasant temperatures and humidity levels as well as fresh, clean and healthy air to breathe.

Stable
temperature in
the vehicle; no
draught



7.9 - 10.7 kWh/
day
Savings*



* Example: 7.9 kWh/day savings occur at 25°C temperature difference between vehicle and environment, ventilation 50 m³/h, 72% energy recovery and 0 m/s wind [10.7 kWh/day savings occur in conjunction with Performance Booster (differential pressure sensor)].



The Dometic ACC3100 rooftop ventilator quickly achieves a proper air exchange in the vehicle even when all the windows and doors are closed. Its smart heat recovery system ensures that the cabin stays nicely warm when it's cold outside – or pleasantly cool in the summer. This also helps save energy for air conditioning and heating. The integrated air purifier effectively reduces dust, mold and odors.

Advanced sensor technology detects potential health risks. As soon as the programmed limits are exceeded, your ventilation system sets to work to ensure you can always breathe better quality air. When the camping season is over, you can switch over to storage mode to prevent mold build-up and unpleasant smells.

Dometic ACC3100

Ventilation system with heat recovery technology

- Effective air exchange even when all windows and doors are closed
- Patented heat recovery system reduces energy consumption
- Integrated air purifier system reduces dust particles, mold and odors
- Smart sensor control system monitors and improves the air quality inside the vehicle
- Ventilation during storage periods prevents mold build-up and unpleasant smells
- Easy to install – fits standard roof 400 x 400 mm cut-outs
- Prepared for connection to the Dometic Full Climate app

Ref. No. 9620005072



New

DOMETIC FRESHJET FJX4 1700/2200

Next generation roof air conditioners – with electronic controls

NEW

Compatible with the
Dometic
smart phone app

Available in black
or white



Fresh design, superior cooling performance, optimized airflow, amazingly quiet operation – these are the outstanding features of Dometic's new generation of RV air conditioners. The two electronic models in the new FreshJet FJX4 series come with a convenient touch control panel, advanced CleanAir technology, and a beautiful LED ambient light. The FreshJet FJX4 2200 additionally features a soft start-function, which ensures hassle-free operation even on campsites with low electrical circuit protection.

Dometic FreshJet FJX4 1700 / 2200

Roof air conditioner, 1700 or 2200 W, electronic controls

- Superior cooling performance – the cabin is cooled down in record time
- Quieter than other roof air conditioners available in the market
- Superior energy efficiency – reduced power consumption
- CleanAir air purifier system – keeps your motorhome smelling fresh and clean
- Remote control included as standard
- Compatible with Dometic smart phone app
- Integrated heating function
- Air distribution box with touch control panel and integrated ambient light (to be ordered separately)
- FreshJet FJX4 2200 with soft-start function

Dometic FreshJet FJX ADBD

Air distribution box, electronic controls, LED light

- Optimized airflow for increased efficiency and reduced noise
- Integrated touch control display – unique in the market
- Integrated lighting – warm white LEDs for soft ambient light
- Vertically adjustable outlet vents for individual airflow regulation
- CleanAir air purifier system – keeps your RV smelling fresh and clean
- Low-profile design (just 68 mm high) leaves more headroom in the cabin
- Reusable dust filter – easy to remove for cleaning



Air distribution boxes available separately



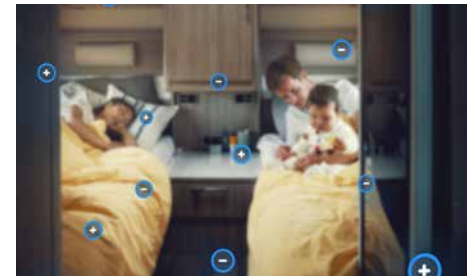
Optimised airflow

Low-profile air distribution box with powerful front and back airflow



Modern and fresh design

Aerodynamically shaped rooftop unit



CleanAir technology

Effectively reduces bacteria and unpleasant smells



Adjustable outlet vents

Simply adjust the direction of the airflow with your fingertips



Intuitive touch control

Simply set the temperature and blower level you want



Convenient operation

Compatible with Dometic smart phone app

New

DOMETIC FRESHJET FJX4 1500M

Next generation roof air conditioners – with manual controls



Available in black
or white

This inexpensive 1500 W roof air conditioner quickly cools the vehicle interior with its efficient, two-way air distribution system. It also dehumidifies the air and filters out dust particles. Powerful yet pleasantly quiet, it ensures travelers can enjoy a comfortable rest. Simply adjust the two rotary knobs on the manual control panel to set the desired temperature and airflow! Our tip: The FJX4 1500M can be upgraded with the Dometic CleanAir air purifier, which effectively filters out bacteria and unpleasant smells.

Dometic FreshJet FJX4 1500M

Roof air conditioner, 1500 W, manual controls

- Quickly cools the vehicle interior and dehumidifies the air
- Pleasantly quiet operation for a comfortable rest and a peaceful night's sleep
- Entry-level model with manual controls – designed for small and medium-sized motorhomes
- Optimised air distribution unit – increased airflow and less noise
- Reusable dust filter – easy to remove for cleaning
- Lightweight design helps save fuel
- Extremely durable and robust design
- Prepared for retrofitting of the CleanAir air purifier system

Dometic FreshJet FJX ADBM

Air distribution box, manual controls

- Optimized airflow for increased efficiency and reduced noise
- Manual operation with two turning knobs
- Low-profile design (just 79 mm high) leaves more headroom in the cabin
- Vertically adjustable outlet vents for individual airflow regulation
- Reusable dust filter – easy to remove for cleaning



Air distribution boxes
available separately



Optimised airflow

Low-profile air distribution box with powerful front and back airflow



Convenient manual control

Simply turn the knobs to adjust the temperature and airflow rate



Adjustable outlet vents

Simply adjust the direction of the airflow with your fingertips

FRESHJET POWER FOR LARGE VEHICLES

The Dometic FreshJet 3000 is the latest air conditioner innovation from Dometic. Specially developed for larger motorhomes and caravans from 7 m in length, it combines the benefits of a light, compact design with impressive cooling and heating performance. Equipment highlight: the new inverter compressor. This ensures a very quiet, pleasant run and is also extremely efficient. Therefore this air conditioner can be operated on almost all campsites.

- Patented dual-cylinder inverter compressor reduces vibration and is highly efficient
- Low fan noise with three standard speeds
- Vertically adjustable outlet vents allow individual air flow control
- Lightweight for a low centre of gravity
- Low-profile rooftop unit



Dometic FreshJet 3000

Roof air conditioner with air distribution box for vehicles over 7 m

- Patented dual-cylinder inverter compressor reduces vibration and noise
- Cool, warm or dehumidify air at the touch of a button
- Low start-up current ensuring easy start up even with low electrical protection
- Cooling capacity: 2516 W / 8600 BTU/h
- Heating Capacity: 3107 W
- LED ambient light in the air distribution box can be activated via the remote control

Ref. No. 9600026626

DOMETIC FRESHLIGHT

The unique combination of an air conditioner and window

For this innovative air conditioner, there's no need to sacrifice the roof window – quite the contrary. With Dometic FreshLight, the window is already built into the air conditioning unit and the result is perfect temperatures on board a caravan or motorhome with natural light still coming from above.

- Roof air conditioners with roof window, for vehicles up to 7 m
- Temperature and blower speed can be conveniently set by remote control
- Control panel with integrated, dimmable LED lights
- Individual air flow regulation with automatic blower control
- Energy-efficient cooling mode and heat pump system for heating mode
- Roof window with active ventilation system and single-pleated darkening screen

With soft-start



Incl. remote control

Dometic FreshLight 2200

Roof air conditioner with roof window for vehicle lengths of up to 7 m

- Roof window with active ventilation system and single-pleated darkening screen
- Cool or warm air at the touch of a button
- Energy-efficient cooling mode and heat pump system for heating mode
- Cooling capacity: 2050 W / 7000 BTU/h
- Heating Capacity: 2700 W
- Individual air flow regulation with automatic blower control
- Control panel with integrated, dimmable LED lights

Ref. No. 9102900165

DOMETIC FRESHWELL

Under-bench air conditioner

Is the under-bench storage space still free? Then there are a number of reasons for housing the air conditioner there: no roof load, and the centre of gravity and outside dimensions of the vehicle remain unaffected – meaning the vehicle will still fit under the carport at home. With the FreshWell 3000 Dometic offers the most compact under-bench air conditioner available in the category up to 2700 watts. Featuring state-of-the-art heat pump technology, this air

conditioner will gladly serve as powerful heating on cool days. FreshWell 3000 is superbly quiet in operation and its air diffuser system generates a pleasant air stream, which is distributed evenly over three air outlets with the help of accessories. The outlets can be positioned in the vehicle as required – concentrated at one point, and also in different rooms. With the matching DC kit, your under-bench air conditioner can even be used while driving.

With soft-start



Incl. remote control

Dometic FreshWell 3000

Under-bench air conditioning unit for vehicle lengths of up to 8m

- Under-bench position means the vehicle's height is unaffected
- Cool or warm air at the touch of a button
- Soft-start for reliable start-up at campsites with low electrical protection
- Cooling capacity: 2700 W / 9200 BTU/h
- Heating Capacity: up to 3000 W
- Quiet air circulation
- Lightweight and compact unit

Ref. No. 9105306670

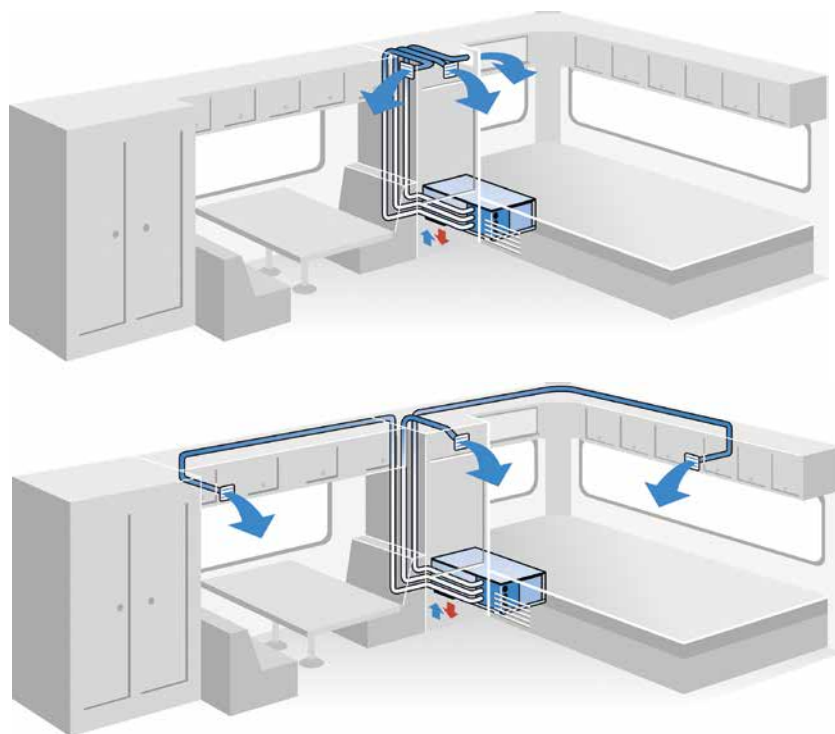
* When the ambient temperature drops, the heating capacity of the heat pump reduces. We recommend you operate this at ambient temperatures of +2 °C and above.

FLEXIBLE AIR DISTRIBUTION

Concentrated or in different rooms

Once FreshWell 3000 has been installed, the air distribution system can be customised to meet individual preferences using the supplementary accessories. It provides the option of concentrating all three air outlets in one place and directing them onto one single point. Alternatively, the vents can be fitted on different places inside

so that the air streams area. All of the functions can be effortlessly activated by remote control: ON/OFF, the temperature selection, blower speed and operating mode. The digital display on the remote control shows the setting selected.



ACCESSORIES FOR THE INDIVIDUAL AIR DISTRIBUTION:

Dometic FreshWell FW-ADC

90°- curved section, 60 mm
Ref. No. 9100300015

Dometic FreshWell FW-ADG

Circular air inlet grille, two-part, ø 190 mm
Ref. No. 9100300018

Dometic FreshWell FW-ADG

Rectangular air intake grille, 240 x 240 mm
Ref. No. 9100300017

Dometic FreshWell FW-ADG

Round air outlet grille kit, ø 60 mm
Ref. No. 9100300077




Dometic FreshWell FW-ADH

Flexible hose, ø 60 mm x 10 m
Ref. No. 9100300019

CLIMATE

RV AIR CONDITIONERS

2.13 / Dometic Roof air conditioners




TECHNICAL DATA			 <div>With soft-start</div>
AIR CONDITIONERS	FRESHJET FJX4 1500M	FRESHJET FJX4 1700	FRESHJET FJX4 2200
Ref. No.	9600050998 (white) 9600050999 (black)	9600051000 (white) 9600051001 (black)	9600051002 (white) 9600051003 (black)
Suitable vehicle length (m)	max. 5.5	max. 6	max. 7
Cooling capacity (watts/Btu/h)	1500	1700	2200
Heating capacity (watts)	no heating	800	1000
Current consumption			
Cooling (A)	<3.3	3.6	4.8
Heating (A)	no heating	<5.2	<5.2
Input voltage	220 - 240 V AC / 50 Hz		
Required circuit protection			
Cooling & Heating mode (A)	4	4	5
Refrigerant	R410c	R32	R32
Refrigerant quantity	380 g	320 g	360 g
CO ₂ equivalent	0.793 t	0.216 t	0.243 t
Global warming potential (GWP)	2088	675	675
Dimensions (W x H x D mm)	752 x 225 x 702	752 x 225 x 702	752 x 225 x 702
Roof opening (W x D, mm)	400 x 400	400 x 400	400 x 400
Roof thickness (mm)	25–60	25–60	25–60
Weight (kg)	25.8	29	30.4
Test marks	E-approved to EMC / automotive directive		
/ Air distributor boxes			
Dometic FreshJet FJX ADBE Air distributor box, electronic control panel, LED lighting	–	9600051008	9600051008
Dometic FreshJet FJX ADBM Air distributor box, manual control	9620000074	–	–
Dimensions (W x H x D mm)	579 x 59 x 518	579 x 48 x 518	579 x 48 x 518
Weight (kg)	4.2	3.9	3.9
/ Optional extras			
Suitable generators	TEC 29, TEC 30EV, TEC 40D, T 2500H		
DC-Kits	DSP-T 12 / DSP-T 24	DSP-T 12 / DSP-T 24	DSP-T 12 / DSP-T 24
Adapter frame	Adapter frame for the FreshJet models in roof openings which exceed the standard opening size of 400 x 400 mm / 9103500476		
Adapter frame	Adapter frame for air conditioners or roof lights on a trapezoidal sheet metal roof / 9104114007		

2.13 / Dometic Roof air conditioners

2.10 / Dometic Roof air conditioners

2.13 / Dometic Under-bench air con

With
soft-start

TECHNICAL DATA			
AIR CONDITIONERS	FRESHJET 3000	FRESHLIGHT 2200	FRESHWELL 3000
Ref. No.	9600009483	9102900165	9105306670
Suitable vehicle length (m)	over 7	max. 7	max. 8
Cooling capacity (watts/Btu/h)	2516 / 8600	2200 / 7500	2700 / 9200
Heating capacity (watts)	3107*2	2700 *1	3000 *2
Consumption			
Cooling (watts)	594 / 898	950 / —	990 / —
heat pump (watts)	—	1200	1100
Input voltage	230 V AC / 50 Hz	230 V	230 V
Current consumption			
Cooling (A)	4.6 / 7.4	4.1 / —	4.3 / —
Heating (A)	—	5.2	4.8
Required circuit protection			
Cooling (A)	8	5	5
Heating (A)	7.4	6	5
Refrigerant			
Refrigerant quantity	R410a	R407c	R410a
CO ₂ equivalent	0.78 kg	0.560 kg	0.600 kg
Global warming potential (GWP)	0.1629 t	0.9934 t	1.2528 t
	2088	1774	2088
Dimensions (W x H x D mm)			
External	665 x 240 x 997	758 x 210 x 1105	400 x 286 x 628
Internal	518 x 48 x 579	550 x 53 x 880	—
Roof opening (W x D, mm)	400 x 400	400 x 700	—
Roof thickness (mm)	25 – 60	25 – 60	—
Weight (kg)	37	42	21
Number of air vents	4 (front / rear / left / right)	2 (front / rear)	3 air outlets
Air vent functions	Continuous air flow regulation for all vents		3 air outlets (optional) to be placed centrally or where required
Number of blower speeds	4	4	
Remote control	•	•	•
Test marks	E-approved to EMC / automotive directive		
/ Optional extras			
Suitable generators	TEC 29, TEC 30EV, TEC 40D, T 2500H		TEC 29, TEC 30EV, TEC 40D
DC-Kits	DSP-T 12 / DSP-T 24		DSP-T 24
Protective cover	—	9103500237	—



*1 Maximum heat = heat pump output.

*2 Maximum heat = heat pump output + heating resistor capacity

2.13 / Dometic roof top ventilator

TECHNICAL DATA	
INVENTILATE	ACC3100
Ref. No.	9620005072
Input voltage	12 V
Power consumption	15.6 W
Energy consumption	0.374 kW/24h 31.2 Ah/24h
Energy consumption (Memory mode)	0.059 kW/24h 4.9 Ah/24h
Dimensions (W x H x D) Outside Inside	542.6 x 553 x 127 mm 517.6 x 517.6 x 46 mm
Cut-out dimension	400 x 400 mm
Weight	7.14 kg
Efficiency of heat recovery	72% - 87%

2.08 / Comfort solutions







TECHNICAL DATA		
DC KITS FOR 12 OR 24 VOLT OPERATION	DC KIT DSP-T 12	DC KIT DSP-T 24
Ref. No.	9600007286	9600007287
Power consumption (12 volts DC) (A)* ¹	30 – 113	50 – 75
Recommended generator capacity (A)* ²	→ 150	→ 75
Recommended total battery capacity (Ah)* ³	→ 250	→ 250
Continuous output (W)	1800	1800
Size (W x H x D mm) Inverter	284 x 118 x 405	284 x 118 x 405
Scope of delivery Sine inverter Mains priority circuit Remote control, control cable (m) 2 battery cables, 1.5 m long (mm ²) 230-volt connection cable (piece) Charging current distributor with power relay	<ul style="list-style-type: none">••7.5352•	<ul style="list-style-type: none">••7.5352•
/ Compatible with Dometic air conditioners		
FreshLight 2200	•	•
FreshJet FJX4 1500M	•	•
FreshJet FJX4 1700	•	•
FreshJet FJX4 2200	•	•
FreshJet 3000	–	–
FreshWell 3000	•	•

*¹ Power consumption depends on the type of air conditioner and ambient temperatures.

*² Generator capacity depends on the type of air conditioner and ambient temperatures.

*³ Total battery capacity depends on the type of air conditioner and ambient temperatures.

3.39 / Optional upgrades for air conditioners

TECHNICAL DATA				
GENERATORS	T 2500H	TEC 29	TEC 30EV	TEC 40D
Ref. No.	9102900005	9102900299	9102900033	9102900295
Operating mode/fuel	Normal ROZ 91 petrol	Normal ROZ 91 petrol	Diesel	Diesel
Consumption	max. 1.2 l/h	max. 1.2 l/h	max. 0.7 l/h	max. 1.4 l/h
Continuous output (W)	2000	2600	2500	3500
Peak output (W)	2200	2900	2900	3900
Output voltage	230 volts AC $\pm 10\%$ (continuous)/pure sine wave 		230 volts AC $\pm 1\%$ (continuous)/pure sine wave 	
Short circuit protection	•	•	•	•
Max. starting current (A)	24	33	33	45
Sound level at 7 metres	60	54–59	60	64
Soundproofed	•	•	•	•
Operation via external control panel	•	•	•	•
Test marks	E3	E13	E13	E24
Engine output (kW (PS))	4.0 (5.5)	4.0 (5.5)	3.3 (4.5)	4.7 (6.4)
Width with suspension (mm)	640	580	572	765
Size (W x H x D mm)	530 x 290 x 385	480 x 290 x 385	465 x 465 x 466	765 x 457 x 467
Housing finish	Stainless steel			
Weight (kg)	50.0	44.0	70.0	96.5
/ Compatible with Dometic air conditioners				
FreshLight 2200	•	•	•	•
FreshJet FJX4 1500M	•	•	•	•
FreshJet FJX4 1700	•	•	•	•
FreshJet FJX4 2200	•	•	•	•
FreshJet 3000	—	•	•	•
FreshWell 3000	—	•	•	•

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