

# BUYING GUIDE AIR CONDITIONING



 **DOMETIC**

# WHICH AIR CONDITIONER FOR RECREATIONAL VEHICLES?



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Criteria to consider when creating the perfect climate in your RV

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# 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



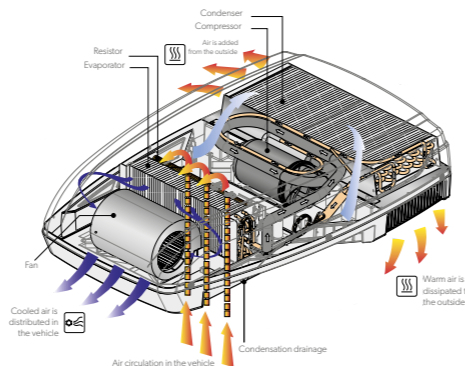
comfortable    
 still comfortable    
 uncomfortably dry or damp

**Our tip: compressor systems**

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

# 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 2200 watts or more – enough to get the vehicle warm in the early or late seasons.



CONVENIENTLY CONTROL  
YOUR ROOF AIR  
CONDITIONER FROM YOUR  
SMART PHONE



## 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?

# FOUR MODEL VERSIONS

## Air conditioners for recreational vehicles



### FreshJet FJZ4

Roof air conditioners with manual or electronic controls

### FreshJet FJZ7

Roof air conditioners with electronic inverter compressor

### FreshLight 2200

Roof air conditioner with roof window

### FreshWell FWX4

Under-bench air conditioner

### 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.



### FJZ7 premium models: The benefits of an inverter compressor

The premium roof air conditioners in the FreshJet FJZ7 series come with an electronic inverter compressor. This new type of compressor automatically adapts its speed to the cooling requirements. As a result, it is much more efficient and energy-saving than "classic" fixed speed compressors. And it's pleasantly quiet too. Read more on this on page 15.



### 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



# CHOOSING THE RIGHT ONE

## Choosing the right air conditioner depends on which vehicle you have



### Vehicle size

#### 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.



### 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.



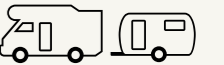
### OUR TIP – Don't save on power!

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.

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?



## Overview\* of air conditioners by vehicle type and lengths



AIR CONDITIONER	Roof air conditioners FreshJet						Roof air conditioner with window FreshLight	Under-bench air conditioner FreshWell	
	FJZ4 1500M	FJZ4 1700	FJZ4 2200	FJZ7 2200	FJZ7 2600	FJZ7 3000	FJZ7 3500	FL 2200	FWX4
CARAVAN									
up to 5.5 m	•	-	-	-	-	-	-	-	-
up to 6 m	-	•	-	-	-	-	-	-	-
up to 7 m	-	-	•	•	-	-	-	•	-
up to 8 m	-	-	-	-	•	-	-	-	•
up to 9 m	-	-	-	-	-	•	-	-	-
from 9 m	-	-	-	-	-	-	•	-	-
RECREATIONAL VEHICLES									
up to 5.5 m	•	-	-	-	-	-	-	-	-
up to 6 m	-	•	-	-	-	-	-	-	-
up to 7 m	-	-	•	•	-	-	-	•	-
up to 8 m	-	-	-	-	•	-	-	-	-
up to 9 m	-	-	-	-	-	•	-	-	•
from 9 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?

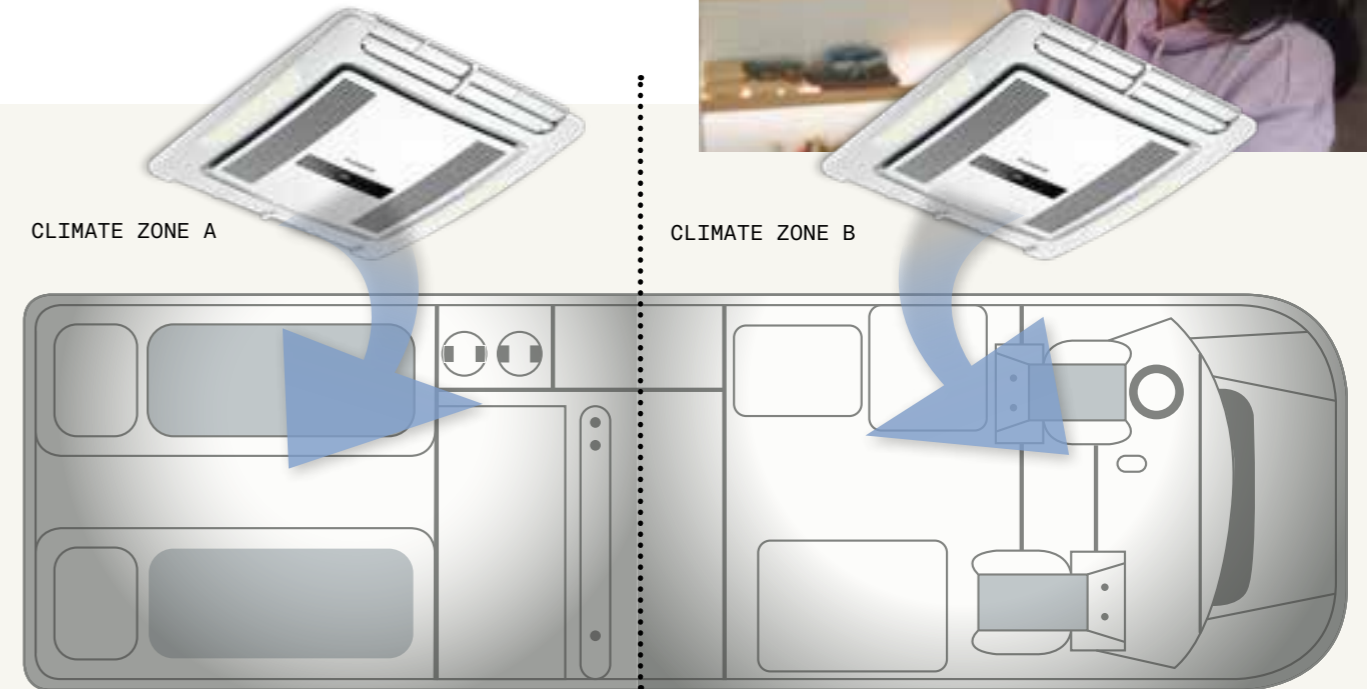
It's a question of common sense and energy usage. Basically, you should not demand the same performance from your RV air conditioner as you get from a vehicle A/C system, which is powered via the engine. Those wishing to have 18°C indoors at midday when the sun is right on top and the temperature way 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 FJZ4 2200 model is fitted with the soft-start function, the smaller FreshJet FJZ4 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

## Smooth start-up on the campsite – even with high-power air conditioners

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. Dometic innovations like the Adaptive Power Mode and the soft start function keep you on the safe side when you want to run a high-wattage air conditioner on a campsite with unstable power supply.



### Adaptive Power Mode

FreshJet FJZ7 roof air conditioners

The Adaptive Power Mode is a smart feature that was integrated in all FJZ7-series roof air conditioners to ensure reliable air conditioner operation on campsites with low fuse protection. As the name suggests, the maximum power draw of the A/C system can be adapted the situation at hand. Simply set the power level your air conditioner should not exceed via the Dometic Power App.



### Soft start function

FreshJet FJZ4 2200, FreshLight 2200, FreshWell FWX4

On these high-power air conditioners the Dometic soft start function provides the engine with additional support during the critical start-up phase. As a result, the start-up phase is significantly shorter – it's over before the fuse can blow. Another benefit: voltage drops due to improvised supply lines (cable drums) that are too long are generally tolerated.

# COMPRESSOR BENCHMARKING

## What are the benefits of an inverter compressor?

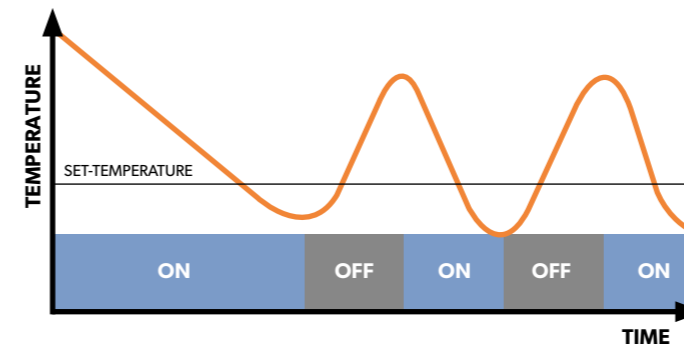
Compared to the compressors used in conventional A/C systems, the inverter compressor of the FreshJet series is particularly quiet, efficient and energy-saving. The main reason for this is that the electronically controlled compressor type does not have the typical ON/OFF cycles. The compressor speed 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.

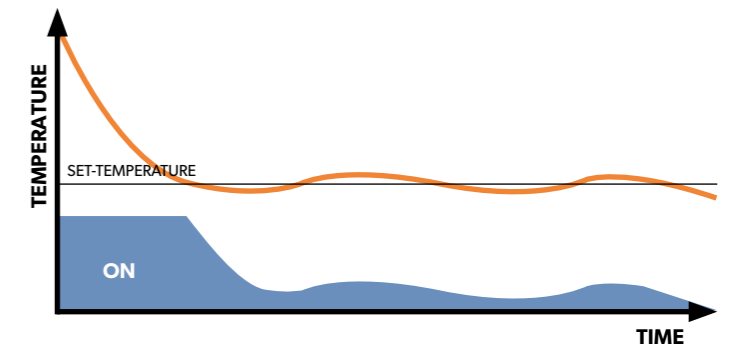
### The benefits at a glance:

- 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

### Non-inverter



### Inverter



LEGEND: ■ OUTPUT POWER ■ TEMPERATURE

# OFF-GRID CAMPING WITH SMARTECO

## Recommendations for off-grid air conditioning

Do you want to use your roof air conditioner not only at the campsite, but also in places where mains power is out of reach? Then we recommend you to choose one of our FJZ7 inverter models with SmartECO function.

## How does SmartECO work?

Connected to the vehicle battery via an inverter (e.g. our DPSI 1812iTS comfort model), the FJZ7 air conditioner permanently checks the battery state and adapts the air conditioning performance accordingly. Depending on the battery charge, it reduces the cooling power, changes to fan mode, or turns off completely – and on again when the charge level is sufficient.

## System requirements

To benefit from the SmartECO function, you need a vehicle grid that is partly or completely equipped with Dometic electronics. The minimal requirement is a Dometic TEMPRA lithium battery. We recommend a battery capacity of 300 Ah or larger – the TLB 540 is an excellent choice.

## CONNECTED VIA BLUETOOTH



## Dometic TEMPRA TLB 540 / TLB 540F

Lithium battery, 540 Ah, 12 V

- 540 Ah battery capacity – up to 300 A continuous power, up to 400 A peak power (for about 15 minutes)
- Dimensions (L x W x H, mm): 366 x 345 x 190 – fits under the seat in a Fiat Ducato
- Optimized Battery Management System for maximum efficiency and operating safety
- Compatible with any battery charger—even ones not designed for LiFePO4 batteries
- Advanced connectivity: CI-BUS, N-BUS, Bluetooth
- All important parameters in view – via a central display or the Dometic smartphone app
- Easy and practical cable management
- Up to 8 batteries can be connected in parallel
- Heated TLB 540F rated for operation down to –30 °C



# DOMETIC CLEANAIR AIR PURIFIER

Our new air purification system uses advanced bipolar ionizer technology to keep your motorhome smelling fresh and clean while greatly reducing allergens, viruses, bacteria and pollutants. Ionizers purify air through several methods. Firstly, they create positive and negative ions to help reduce pathogens, odours, and mould. Bacteria and virus cells are robbed of their life-sustaining hydrogen, reducing their number. Secondly, odours are reduced when they oxidise on contact with the charged ions. Last but not least, the positive and negative ions attach to the particles in the air. Their attractive forces make the particles bigger. This in turn allows the standard dust filter of your air conditioning system to remove more particles from the air.



STANDARD  
FEATURE IN  
ALL FRESHJET  
FJZ4 & FJZ7  
MODELS

Except FJZ4 1500M

Contents, specifications and availability are subject to change due to the technical improvement.

# PERFECT CLIMATE AND CLEAN AIR

Dometic's air purification technology comes standard with all new generation electronic FreshJet air conditioners (FJZ4 and FJZ7 series). If you have an older-make FreshJet model, or a FreshJet FJZ4 1500M with manual controls, you can retrofit this comfort feature anytime you want.

The retrofit is easily done. You can install the add-on kit installation on the fan, the ductwork, the transition boxes, or directly behind the air outlet grille. Our recommendation: Connect the air purifier directly to the fan. This ensures it will only come on when needed, which saves energy.

## Dometic BREATHE 2500

Air purification add-on kit, 2.5 kV

- Latest bipolar ionization technology reliably reduces dust particles, bacteria, mould build-up and odours
- Easy installation with flexible mounting options: fan, ductwork, transition boxes, or directly behind the air outlet grille
- No consumables or replacement parts required, simply clean the ionizer brushes
- Energy-saving – can be connected directly to the fan to ensure power supply only when needed
- Universal power supply – wide input voltage range (100 to 245 VAC)
- Fits Dometic FJZ4 1500M as well as Dometic FreshJet 1100, 1500, 1700, 2000, 2200, 3000 and 3200

Ref. No. 9620000428



NEW



5 YEARS  
WARRANTY  
ON PARTS

OFF-GRID  
CAMPING  
WITH  
SMARTECO

Learn more on page  
16/17

# SMARTER. QUIETER. COOLER.

These premium roof air conditioners are engineered for top-tier performance – smarter, quieter, cooler. Packed with exclusive FJZ7 series features, they cool, heat and purify the air in your motorhome, caravan or campervan with impressive efficiency. Simply set the climate you want – remotely from your smart phone, or via the touch control panel of the air distribution box (sold separately).



**Four performance classes  
available**

FJZ7 2200, 2200 W  
FJZ7 2600, 2600 W  
FJZ7 3000, 3000 W  
FJZ7 3500, 3500 W

**Dometic FreshJet FJZ7  
2200 / 2600 / 3000 / 3500**

Roof air conditioner, electronic inverter compressor

- Advanced inverter compressor and heat pump technology – cools down your vehicle in record time
- Premium design – aerodynamic rooftop unit with eye-catching LED light curve
- Advanced Sleep Mode – whisper-quiet operation with constant compressor frequency
- Integrated heating function – quick heat at the touch of a button
- Adaptive Power Mode – smooth start-up on campsites with low fuse protection (s. p. 14)
- Wi-Fi connectivity – easily control and monitor your climate remotely from everywhere
- SmartECO function – economical use of battery resources when you camp off-grid (s. p. 16/17)

**Dometic FreshJet FJZ ADBD**

Air distribution box, electronic controls, LED light

- Optimised 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



**Top-tier performance**

Cools your camper in record time, while maintaining impressively low energy consumption



**Whisper-quiet – for a restful sleep**

Advanced Sleep Mode with constant compressor frequency for especially quiet operation



**CleanAir technology**

Effectively reduces bacteria and unpleasant smells



**Adjustable outlet vents**

Simply adjust the direction of the airflow with your fingertips



**Wi-Fi connectivity**

Easily control and monitor your climate remotely from everywhere.



**Convenient operation**

Compatible with Dometic smart phone app

NEW



5 YEARS  
WARRANTY  
ON PARTS

WI-FI  
CONNECTIVITY

Easily control  
and monitor your  
climate remotely  
from everywhere.

# FRESH DESIGN. QUIET PERFORMANCE.

The two electronic models in the FJZ4 series cool down your motorhome, caravan, or campervan in record time – with minimal energy consumption, and impressively quietly too. The integrated CleanAir system keeps your vehicle smelling fresh and clean. Simply set the climate you want – remotely from your smartphone, or via the touch control panel of the air distribution box (sold separately).

## Dometic FreshJet FJZ4 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
- Integrated heating function – quick heat at the touch of a button
- Wi-Fi connectivity – easily control and monitor your climate remotely from everywhere
- FreshJet FJZ4 2200 with soft-start function (s. p. 14)

## Dometic FreshJet FJZ ADBD

Air distribution box, electronic controls, LED light

- Optimised 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



### Optimized airflow

Flat air distribution box with powerful airflow to the front and rear



### Modern and fresh design

Aerodynamically designed roof unit



### CleanAir technology

Effectively reduces bacteria and unpleasant smells



### Adjustable outlet vents

Simply adjust the direction of the airflow with your fingertips



### Wi-Fi connectivity

Easily control and monitor your climate remotely from everywhere.



### Convenient operation

Compatible with Dometic smart phone app

# DOMETIC FRESHJET FJZ4 1500M

Entry-level roof air conditioner – with manual controls

Value for money: This entry-level 1500 W roof air conditioner quickly cools the vehicle interior with its efficient, two-way air distribution system. It also cleans the air and filters out dust particles. Powerful yet pleasantly quiet, it lets you enjoy a comfortable rest. Simply adjust the two rotary knobs on the air distribution box (to be ordered separately) to set the desired temperature and airflow!

Our tip: The FJZ4 1500M can be upgraded with the Dometic CleanAir air purifier, which effectively filters out bacteria and unpleasant smells.

- Quickly cools the vehicle interior and cleans 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 FJZ4 1500M

Roof air conditioner, 1500 W, manual controls

Ref. No. 9630000069 (black)

Ref. No. 9630000065 (white)

## Dometic FreshJet FJZ ADBM

Air distribution box, manual controls

- Optimised 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

# 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 opposite. 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



## 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 FWX4

## 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: the roof window can be retained, there's more space left for a solar panel, and the vehicle height remains unaffected – meaning it will still fit under the carport at home. With the FreshWell FWX4 Dometic offers one of the most compact and lightweight under-bench air conditioners available in the category up to 2000 watts. Featuring state-of-the-art heat pump technology, this air conditioner will gladly serve as powerful heating on cool days.

Thanks to optimized fan and compressor controls, the FreshWell FWX4 is pleasantly quiet in operation. The use of an external temperature sensor also contributes to a smooth running behavior. Our new under-bench air conditioner has the same compact dimensions as the predecessor model, so it can easily replace it. With the matching DC kit, the unit can even be used while driving.



### Dometic FreshWell FWX4

Under-bench air conditioner for vehicles up to 8m in length

- The under-bench position means the vehicle's height is unaffected
- Better temperature regulation due to new room temperature probe
- One of the lightest storage box air conditioners available and significantly lighter than roof air conditioners with comparable cooling capacity
- Cooling capacity according to ISO 5151\*: 2000 W / 6824 BTU/h
- Heating capacity according to ISO 5151\*: up to 2500 W / 8530 BTU/h
- Soft-start for reliable start-up at campsites with low electrical protection
- Convenient activation of all functions by remote control

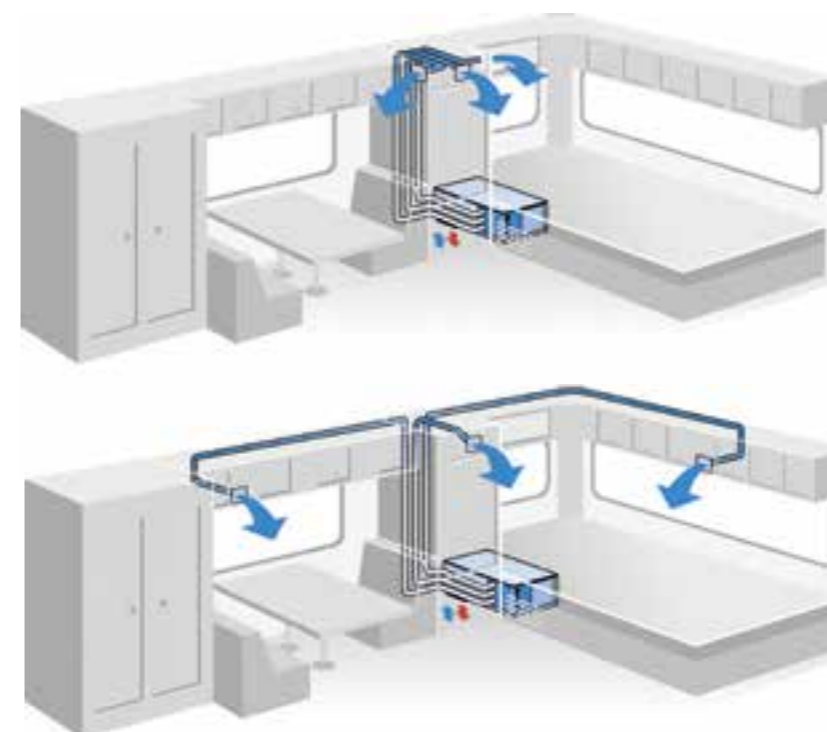
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# FLEXIBLE AIR DISTRIBUTION

## Concentrated or in different rooms

Once FreshWell FWX4 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.



### Required accessories for individual air distribution (FreshWell FWX4):

#### 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

# CUSTOM FIT FOR YOUR VAN



NEW

## Adapter frames for panel vans

No matter if you have a Mini-Heki roof light, a FanTastic Breathe 3100 roof vent or a FreshJet FJZ roof air conditioner – the new adapter frames from Dometic fit all three roof-mount products. Our product designers have created vehicle-specific frames for the three currently most popular campervans: Fiat Ducato III, Ford Transit (from year 2014) and Mercedes Sprinter (from year 2016). Simply pick the frame to match your van! For FJZ roof air conditioners, you will additionally require the matching rear adapter ledge.

- Easy installation using the existing roof cut-out (400 x 400 mm)
- Perfect finish – like with an original product installed in the factory
- Universal use – fits Mini-Heki, Fantastic Breathe 3100, FreshJet FJZ4 1500/1700/2000 and FreshJet FJZ7 2200/2600
- Custom frames available for Fiat Ducato III, Ford Transit and Mercedes Sprinter

## Dometic adapter frames

**Fiat Ducato III**  
(from 2006) Adapter frame  
Rear adapter ledge (FJZ)

9620018467

9620018465

**Ford Transit**  
(from 2014) Adapter frame  
Rear adapter ledge (FJZ)

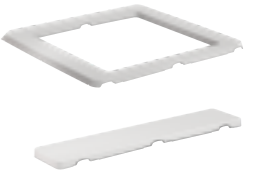
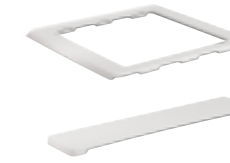
9620018468

9620018466

**Mercedes Sprinter**  
(from 2016) Adapter frame  
Rear adapter ledge (FJZ)

9620018469

9620018461



2.13 / Dometic Roof air conditioners

WITH SOFT-START



FRESHJET FJZ4 1500M

FRESHJET FJZ4 1700

FRESHJET FJZ4 2200

FRESHJET FJZ7 2200

FRESHJET FJZ7 2600

FRESHJET FJZ7 3000

FRESHJET FJZ7 3500

<b>Ref. No.</b>	9630000065 (white) 9630000069 (black)	9630000054 (white) 9630000058 (black)	9630000061 (white) 9630000052 (black)
<b>Suitable vehicle length</b>	max. 5.5 m	max. 6 m	max. 7 m
<b>Cooling capacity</b>	1500 W	1700 W	2200 W
<b>Heating capacity</b>	-	800 W	1000 W
<b>Compressor</b>	Fixed speed	Fixed speed	Fixed speed
<b>Operating temperature</b>	-2 °C to +52 °C	-2 °C to +52 °C	-2 °C to +52 °C
<b>Current consumption</b>			
Cooling	3.1 A	3.4 A	4.6 A
Heating	-	3.5 A	4.6 A
<b>Input voltage</b>	220 – 240 V AC / 50 Hz	220 – 240 V AC / 50 Hz	220 – 240 V AC / 50 Hz
<b>Required circuit protection</b>			
Cooling & Heating mode	4 A	4 A	5 A
<b>Refrigerant</b>	R410a	R32	R32
Refrigerant quantity	380 g	320 g	360 g
CO <sub>2</sub> equivalent	0.793 t	0.216 t	0.243 t
Global warming potential (GWP)	2088	675	675
<b>Dimensions (W x H x D)</b>	752 x 225 x 702 mm	752 x 225 x 702 mm	752 x 225 x 702 mm
<b>Roof opening (W x D)</b>	400 x 400 mm	400 x 400 mm	400 x 400 mm
<b>Roof thickness</b>	25–60 mm	25–60 mm	25–60 mm
<b>Weight</b>	25.2 kg	28.4 kg	29.8 kg
<b>Remote control</b>	—	•	•
<b>Test marks</b>		E-zertifiziert nach EMV/Kfz-Richtlinien	

/ AIR DISTRIBUTOR BOXES

<b>Dometic Freshjet FJZ ADBE</b> Air distributor box, electronic control panel, LED lighting	-	9630000066	9630000066
<b>Dometic Freshjet FJZ ADBM</b> Air distributor box, manual control	9630000057	-	-
<b>Dimensions (W x H x D)</b>	579 x 59 x 518 mm	579 x 48 x 518 mm	579 x 48 x 518 mm
<b>Weight</b>	4.2 kg	3.9 kg	3.9 kg
<b>Air flow</b>	341 m <sup>3</sup> /h	318 m <sup>3</sup> /h	350 m <sup>3</sup> /h

9630000068 (white) 9630000053 (black)	9630000059 (white) 9630000063 (black)	9630000072 (white) 9630000062 (black)	9630000051 (white) 9630000071 (black)
max. 7 m	max. 8 m	max. 9 m	über 9 m
2200 W	2600 W	3000 W	3500 W
2000 W	2300 W	3000 W	3200 W
Inverter	Inverter	Inverter	Inverter
-2 °C to +52 °C	-2 °C to +52 °C	-2 °C to +52 °C	-2 °C to +52 °C
5.7 A 3.0 A	5.73 A 4.1 A	6.4 A 5.9 A	7.0 A 6.6 A
220 – 240 V AC / 50 Hz	220 – 240 V AC / 50 Hz	220 – 240 V AC / 50 Hz	220 – 240 V AC / 50 Hz
6 A	6 A	7 A	8 A
R32 380 g 0.793 t 2088	R32 380 g 0.793 t 2088	R32 480 g 0.324 t 675	R32 650 g 0.439 t 675
752 x 225 x 702 mm	752 x 225 x 702 mm	1090 x 240 x 700 mm	1090 x 285 x 700 mm
400 x 400 mm	400 x 400 mm	400 x 400 mm	400 x 400 mm
25–60 mm	25–60 mm	25–60 mm	25–60 mm
28.2 kg	30 kg	35.8 kg	38.3 kg
•	•	•	•
		E-zertifiziert nach EMV/Kfz-Richtlinien	

9630000066	9630000066	9630000066	9630000066
-	-	-	-
579 x 48 x 518 mm	579 x 48 x 518 mm	579 x 48 x 518 mm	579 x 48 x 518 mm
3.9 kg	3.9 kg	3.9 kg	3.9 kg
350 m <sup>3</sup> /h	350 m <sup>3</sup> /h	350 m <sup>3</sup> /h	350 m <sup>3</sup> /h

WITH SOFT-START

2.10 / Dometic Roof air conditioners



2.13 / Dometic Under-bench air conditioner



AIR CONDITIONERS	FRESHLIGHT 2200	FRESHWELL FWX4
<b>Ref. No.</b>	9102900165	9620013224
<b>Suitable vehicle length</b>	max. 7 m	max. 8 m (30 m <sup>3</sup> )
<b>Cooling capacity *</b>	2200 W / 7500 BTU/h	2000 W (325 m <sup>3</sup> /h)
<b>Heating capacity *</b>	2700 W* <sup>1</sup>	2500 W * <sup>2</sup>
<b>Input voltage</b>	230 V	230 V AC / 50 Hz
<b>Operating temperature</b>	-2°C to +52°C	-5 °C to +52 °C
<b>Current consumption</b>		
Cooling	4.1 A	4.9 A
Heating	5.2 A	4.5 A
<b>Required circuit protection</b>		
Cooling	5 A	6 A
Heating	6 A	6 A
<b>Refrigerant</b>	R407c	R32
Refrigerant quantity	0.560 kg	0.43 kg
CO <sub>2</sub> equivalent	0.9934 t	0.29 t
Global warming potential (GWP)	1774	675
<b>Dimensions (W x H x D)</b>		
External	758 x 210 x 1105 mm	
Internal	550 x 53 x 880 mm	400 x 286 x 628 mm
<b>Roof opening (W x D)</b>	400 x 700	-
<b>Roof thickness</b>	25 - 60	-
<b>Weight</b>	42 kg	21 kg
<b>/ AIR DISTRIBUTOR BOX</b>		
<b>Number of air vents</b>	2 (front / rear)	3 air outlets
<b>Number of blower speeds</b>	4	3
<b>Remote control</b>	yes	yes
<b>Test marks</b>	E-approved to EMC / automotive directive	E-approved to EMC / automotive directive

\*1 Maximum heat = heat pump output.

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

\* Specification based on a cooling or heating capacity tested in accordance with the ISO 5151 standard under realistic conditions instead of a theoretical maximum capacity.

Contents, specifications and availability are subject to change due to the technical improvement.

## Required accessories for individual air distribution (FreshWell FWX4)



**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**

Round air intake grille, 240 x 240 mm

Ref. No. 9100300017



**Dometic FreshWell FW-ADG**

Rectangular 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





# THE FULL COMFORT RANGE

View Products:  
**[dometic.com](http://dometic.com)**

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