



LOCAL AIR CONDITIONER PAC 2100 X

The smart one among mobile air conditioners

26 m²
 65 m³
 2 kW
 7.000 Btu/h
 Dehumidifier
 2 Speed Levels
 Night Mode
 Timer
 IR
 Follow Me
 ENERGY LABEL: A, 2.0 kW, 2.7 EER, 63dB, 0.8 kWh/cooling

Fast cooling and agreeable room climate for little money

The 3-in-1 air conditioner PAC 2100 X provides efficient cooling even in extreme heat. Why don't you enjoy the summer at agreeable temperatures instead of having your life made more difficult by oppressive, hot room air in your office or at home.

Besides, its automatic cooling function, the convenient all-rounder comes with a dehumidification and a fan function and – with its powerful output of 2 kW and energy efficiency class A – is perfectly suited for living spaces and offices sized up to 65 m³.

Moreover, the device has a particularly smart integrated power saving solution: Upon reaching the preselected target temperature, which can be infinitely adjusted between 17 and 35 °C, the integrated thermostat of the PAC 2100 X switches the compressor off. In doing so, the air conditioner permits an extremely economic cooling operation compared to conventional devices. Naturally, the compressor will be reactivated automatically when the target temperature is exceeded for as long as the device is switched on.



Propane (R290) as environmentally friendly refrigerant in air conditioning systems

Every year, several million tons of harmful CO₂ emissions (greenhouse gas) are emitted to the atmosphere due to synthetic refrigerants. For this reason, the utilization of alternative refrigerants has become one of our key objectives. By using propane (R290) as refrigerant this air conditioner makes a valuable contribution to protecting our climate.

The natural refrigerant propane (R290) is an organic compound belonging to the group of hydrocarbons. Unlike synthetic refrigerants the environmentally friendly propane (R290) comes with neither ozone depletion potential (ODP = 0) nor a noteworthy greenhouse effect (GWP = 3).

Additional bonus for the environment: Owing to its excellent thermodynamic properties, propane (R290) is a particularly energy-efficient refrigerant thereby additionally reducing your energy costs.

Comfort functions for well-being

To ensure a good night's sleep the air conditioner is fitted with a night mode that slowly raises the temperature. On top of that, the LED display can be switched off completely to avoid any unnecessary, disturbing light.

Two fan stages and the variably adjustable air discharge direction guarantee an ideal distribution of the air current. In combination with the integrated 24-hour timer, this allows you to save additional costs, for the timer ensures time-controlled switch-on and -off of the device if you wish to use the room only at specific times. Unlike many other air conditioners, the condensation tank of the PAC 2100 X must only seldom be emptied. The device is equipped with an intelligent recycling system that uses the condensed water to cool the condenser, and thus the majority of the water evaporates.

The PAC 2100 X is controlled either via its control panel or the supplied infrared remote control as required.

Condensate recycling

Unlike many other air conditioners, the condensation tank of the PAC 2100 X must only seldom be emptied. The device is equipped with an intelligent recycling system that uses the condensed water to cool the condenser, and thus the majority of the water evaporates.

Installation and maintenance of the PAC 2100 X

The air conditioner is set up and ready for use in just a few steps. The preassembled air filter cleans the room air from fluff, dust and animal hair and can be removed and cleaned easily.



Calculation of the required cooling capacity



Find out how to easily calculate the cooling capacity required for your living and office spaces.

How much power is required to cool a room? The rule of thumb: Every cubic metre of room volume requires a cooling capacity of 30 watts ($1 \text{ m}^3 = 30 \text{ W}$).

Using this blanket value the required cooling capacity can be determined quickly and easily for every room size. Example: Assuming a room with **26 m² of floor space** and **a room height of 2.5 m**.

The resulting calculation reads as follows:

Room volume calculation:

26 m² of floor space x 2.5 m ceiling height = a room volume of 65 m³

Calculation of the cooling capacity required for the room volume:

65 m³ cubature x 30 watts of cooling capacity = required cooling capacity of 1,950 watts

Conversion from watt to kilowatt:

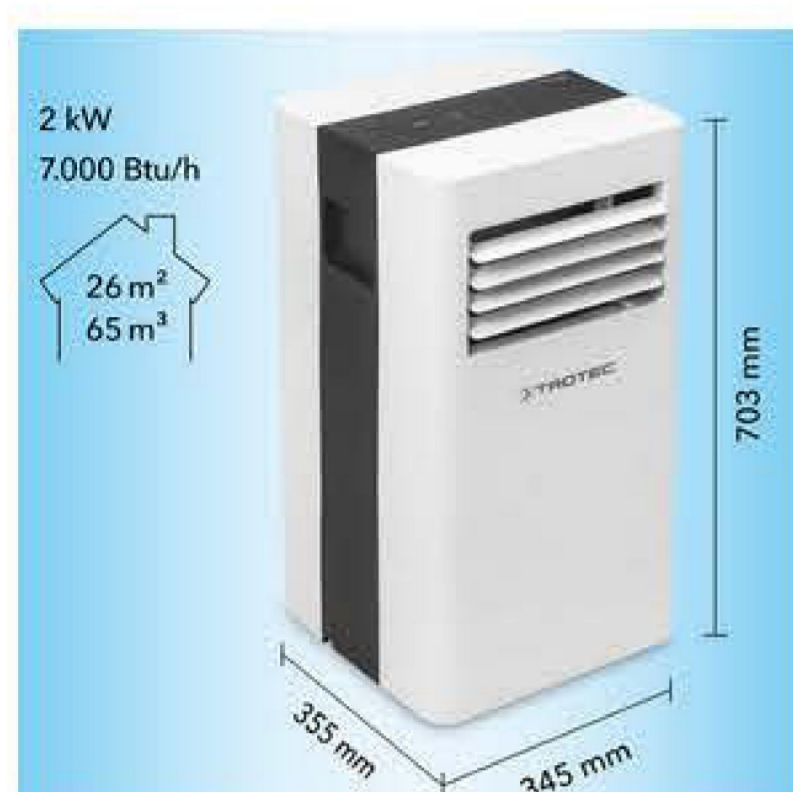
1,950 watts = 1.95 kW

Result: In a room with 26 m² of floor space and a height of 2.5 m you need an air conditioner with a cooling capacity of 1.95 kW – such as the PAC 2100 X.

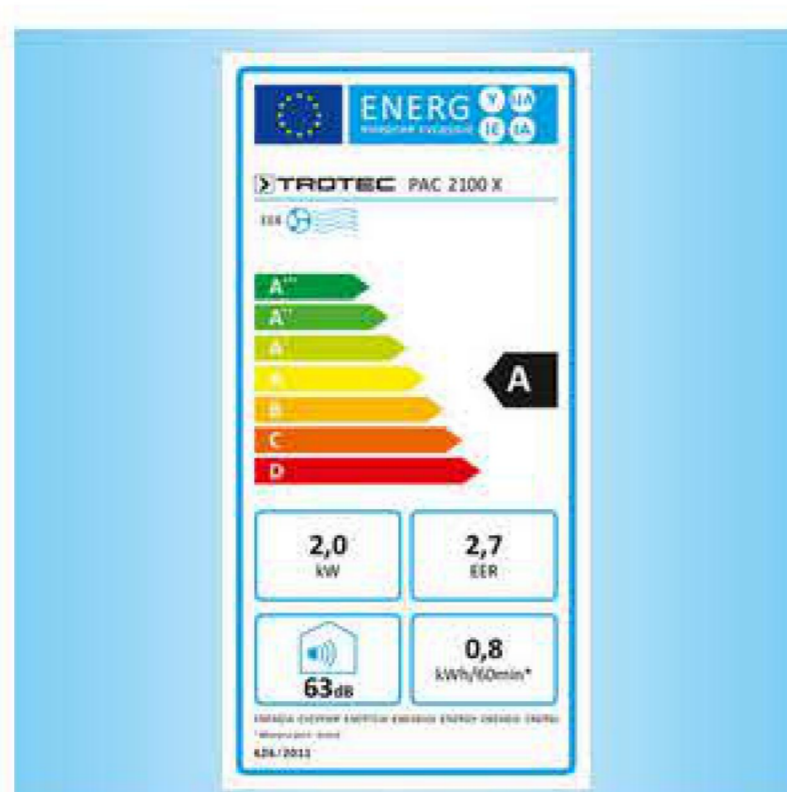
This is only a rough calculation formula for living and office spaces with modern insulation (passive house standard), though. The required cooling capacity further depends on the room's "thermal load": For selecting an appropriate air conditioner, the factors of insulation, insulation, window dimensions, the number of persons as well as the heat sources play an equally important role.

You would like to find out more? Our info page "[Practical knowledge concerning air conditioning](#)" contains all the important information. By reading it you will quickly become an air conditioning expert.

PAC 2100 X – special equipment features



The compact air conditioner clad in stylish black and white blends in perfectly with any living or working environment. With 2 kW / 7,000 Btu/h it brings a pleasant fresh breeze to rooms sized up to 26 m² or 65 m³.



The energy consumption of an air conditioner is an important factor. With energy efficiency category A you can be on the safe side that your electricity costs will keep within reasonable bounds. With functions for condensate recycling and timer-controlled switch-on/off, the device itself permits a rather efficient and economical cooling operation.

AirLock window and door seals

ACCESSORY TIP: AirLock window seals prevent warm air from streaming back into the room you are trying to cool.

The warm air is discharged through an air conditioner's exhaust air hose and thus through a window into the open air. In order to keep the warm air from streaming right back into the room through the window gap we recommend using [AirLock window or door seals](#).

Suitable for windows with a maximum perimeter of up to 4 metres is the window seal [AirLock 100](#). The hose can be attached to any type of window (casement, bottom-hung or skylight windows). With the Velcro[®] tape mounting between window and frame only takes a few steps. This ensures an optimal cooling efficiency in the room and substantially reduces the consumption costs of your air conditioner.



Also perfect for floor-to-ceiling windows or balcony and patio doors.

The convenient door and window seal [AirLock 1000](#) was specifically designed for sealing floor-to-ceiling windows or balcony and patio doors – it is the only window seal on the market that has a perimeter of up to 5.6 metres. The AirLock 1000 can be used for both one- or two-hose devices. [Further information on all available AirLock versions is provided here.](#)



The stylish, neatly arranged LED display reveals all important setting options at one glance and so offers a very intuitive operation.



All functions can also be controlled via the infrared remote control. With the Follow Me function the remote control measures the room temperature at the current location and transmits the value to the air conditioner. The cooling capacity is automatically adjusted according to the measured value.



The device comes equipped with wheels. The integrated recessed handles serve for the quick and easy transportation of the air conditioner from one room to another.

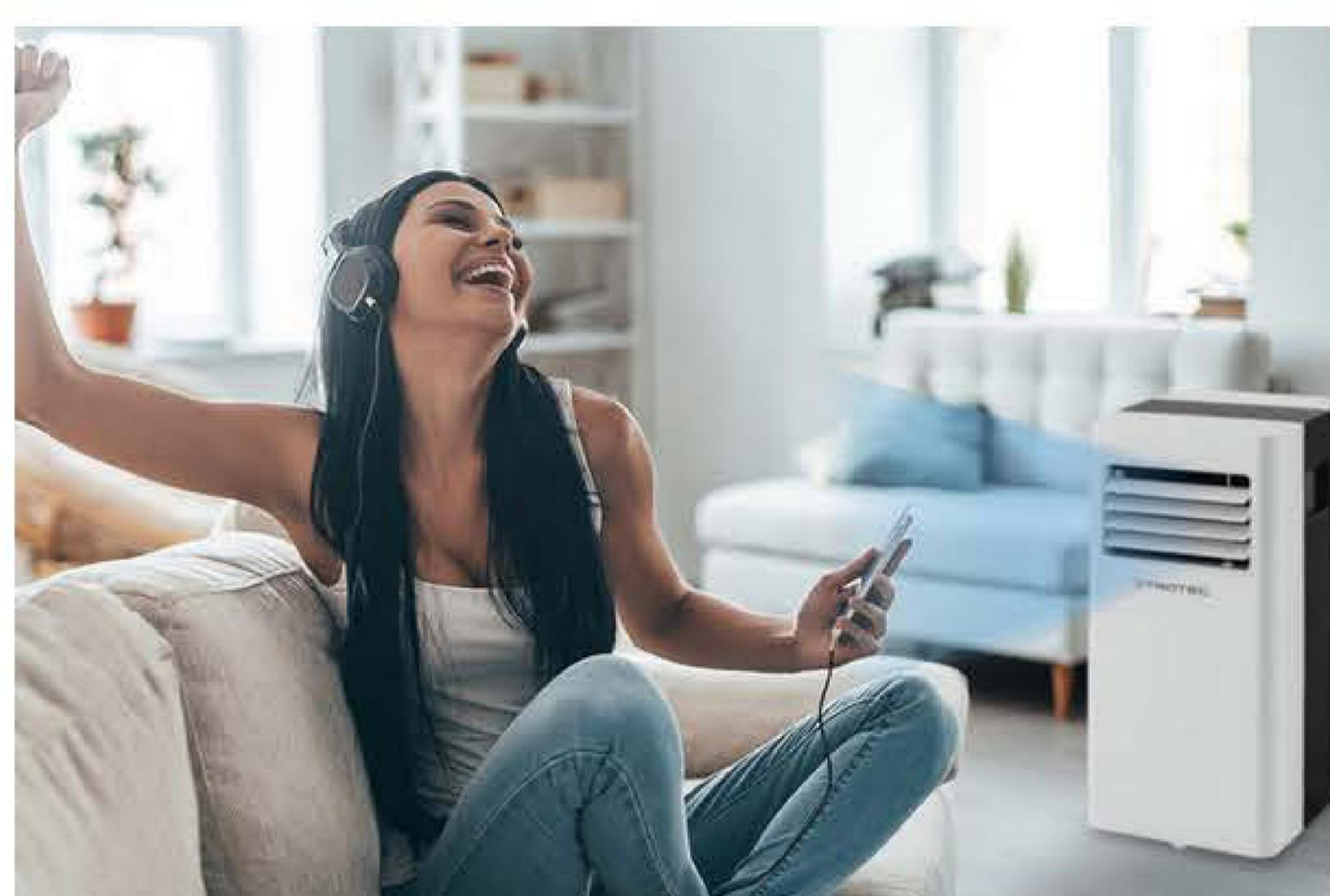


In dehumidification mode the condensate produced within the device is reused for cooling, which means that there is hardly any residual water. In case of a high humidity level or continuous cooling operation, the accumulating condensate can be collected in the residual water tank. Connecting a discharge hose renders it superfluous to empty the tank by hand.

Cooling down in every room



When the room becomes uncomfortably warm and oppressive, we quickly feel drained and groggy. But the air conditioner PAC 2100 E ensures an agreeably cool and dry room climate. This allows you to keep a cool head even on hot days.



Attic flats and rooms with large windows often heat up particularly fast. Overnight guests in holiday homes, hotels, boarding houses and B&Bs will also appreciate agreeable temperatures. Using the PAC 2100 X you can flexibly cool the room you are currently occupying yourself.



All Comfort air conditioners of the PAC series in direct comparison:

To find the Comfort air conditioners of the PAC series which exactly meets your requirements, please consult the concise overview of all Comfort air conditioners of the PAC series from Trotec, which we're providing to you here so that you can compare them directly to each other.

Models which you do not wish to include in your comparison can be easily dismissed with only one click.

Technical data by comparison

A FEW PRACTICAL BENEFITS:

- ✓ Energy efficiency class A
- ✓ 2 kW cooling capacity
- ✓ Three operating modes: cooling, ventilation, dehumidification
- ✓ Two fan stages
- ✓ Timer function
- ✓ Practical LED display
- ✓ Room temperature display

- ✓ Easy-to-clean membrane keypad
- ✓ Adjustable air discharge direction
- ✓ IR remote control
- ✓ Removable air filter
- ✓ Air cleaning function (animal hair, fluff, dust)
- ✓ Quiet operation <53dB(A)

All important features at a glance

| | | | | | |
|--|---|--|---|--|---|
| <p>Cooling capacity</p> <p>With its 2 kW the air conditioner provides a pleasantly chilled feel-good climate.</p> | <p>Dehumidification function</p> <p>The humidity level in the room can be reduced even without the cooling function.</p> | <p>2 fan settings</p> <p>The room air is circulated even when the cooling function is switched off.</p> | <p>Automatic mode</p> <p>Controls the cooling level depending on the ambient and target temperature.</p> | <p>Remote control</p> <p>Control your air conditioner conveniently using the infrared remote control, incl. follow-me function.</p> | <p>LED display</p> <p>The LED display provides information on all important parameters.</p> |
| <p>Self-diagnosis</p> <p>Detection of faults and precise indication of the source of error.</p> | <p>Night mode</p> <p>Helps you to sleep healthily by way of a slow, constant temperature increase.</p> | <p>Timer function</p> <p>The air conditioner automatically switches on or off after the desired period.</p> | <p>Room thermostat</p> <p>The current room temperature is determined by the integrated thermostat.</p> | <p>Air filter</p> <p>Anti-bacterial, washable filter for air quality improvement.</p> | <p>Auto restart function</p> <p>Remembers the previously selected settings for the next switch-on.</p> |
| <p>Condensation water recycling</p> <p>Reduces energy demand and constant emptying of the container.</p> | <p>Castors</p> <p>Thanks to the low-friction castors the air conditioner can be positioned as needed.</p> | | | | |

Monobloc or split? One-hose or two-hose technology?

Don't get deceived by competitive statements, we provide the big picture. Before purchase make sure to get an overview of device differences, functional principles and possible applications.

Trotec, your climate expert, has compiled the most important facts in a reader-friendly overview! Direct link to the "[Practical knowledge concerning air conditioning](#)"...

Benefit from the Trotec brand quality guaranteeing high value, safety and functionality. Via the registered GS mark the inspection authority TÜV SÜD certifies that, if used foreseeably and as intended, the device does not pose a risk to the health and safety of the user.

A boost of freshness: Enjoy maximum refreshment anywhere in the room!

Do you want to additionally support the effect your air conditioner has? In order to really distribute the cool air into every last corner of the room we recommend using the [powerful fan TFH 2000 E](#) with turbo spin technology. The extremely compressed turbulent air flow pushes out of the TFH 2000 E as tornado-like air column that revolves around itself and advances deep into the room. The air current breaks through warm and cold room air zones mixing it all up. The exiting air current encounters the opposite wall or the ceiling and from there is deflected to all sides.

In a constant circulation the air returns to the rear of the fan flowing along the side walls and the ceiling. It is sucked in once more to start a new cycle. This effective turbo spin method ensures maximum circulation and mixing of the room air. The temperature difference between cold air near the ground and warm air just beneath the ceiling is substantially reduced, instead the air temperature in the entire room is noticeably evened out.