

### LOCAL AIR CONDITIONER PAC 3900 X

Triple power for extra freshness: cooling, ventilation, dehumidification



### Refreshingly convenient. As flexible as possible.

With cooling technology of the latest generation as well as a comprehensive functional range the multifunctional air conditioner PAC 3900 X lives up to its reputation as genuine all-rounder. For cooling, ventilation or dehumidification: The ultra-compact <u>air conditioner</u> meets all requirements of an ideal room climate with flying colours. With a cooling capacity of 3.9 kW the air conditioner of the PAC series is especially well suited for large rooms of up to 130 m<sup>3</sup>. Apart from the reliable cooling on hot days the PAC 3900 X filters and dehumidifies the room air and generates a fresh breeze to top it all off. As desired in three fan stages and with swing function for an optimal distribution of the air in the room.

#### Functions of the PAC 3900 X

The PAC 3900 X comes equipped with a modern microprocessor control and a variety of individually programmable functions. Optionally, the device regulates the room climate autonomously. The smart air conditioner even automatically reduces the energy costs by switching off compressor and fan when reaching the predefined target temperature.

#### Saving tip:

The operating modes ventilation and dehumidification can also be selected with deactivated cooling function. Therefore, the 3-in-1 air conditioner PAC 3900 X can be used throughout the year to create a healthy, agreeable indoor climate – whilst keeping the power consumption at a minimum. This further reduces the energy demand of the already economical device and renders the purchase of a separate fan or dehumidifier redundant.

The integrated timer function permits operation by the hour as well as automatic switch-on and -off. An agreeably silent night mode with adapted temperature control guarantees a good night's rest and the necessary physical regeneration.



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

Every year, several million tons of harmful  $CO_2$  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.

# More time for the things that matter!

The set operating parameters such as mode, target temperature and fan stage will be saved when switching the device off and then automatically adopted for the next switch-on.

The monobloc air conditioner PAC 3900 X is optionally controlled via the supplied IR remote control or the neatly arranged control panel with membrane keys.

# Installation and maintenance of the PAC 3900 X

Ready for use in a breath.

If required, the already preassembled air filter can be removed and cleaned unproblematically. The humidity is collected in a collecting tank in form of condensate. If required, a permanent condensate drain can be connected at the rear of the device.

## Mobile, minimum space requirements, low in maintenance Of manageable size, versatile, intelligent design.

The bedroom today, the living room tomorrow? That is no problem at all. On the low-friction

rollers, the device can be easily moved from one location to another at the ergonomically shaped recessed handle. When storing the device at the end of the cooling season, the cable can be easily stored using the practical cable winder. One air conditioner - manifold application options

With its three operation modes cooling, ventilation and dehumidification the powerful and flexible all-rounder PAC 3900 X is recommended for use at home or in the office.

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

Calculation of the required cooling capacity



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  $m^3 = 30 W$ ). Using this blanket value the required cooling capacity can be determined quickly and easily for every room size.

Example: Assuming a room with 52 m2 of floor space and a room height of 2.5 m. The resulting calculation reads as follows:

Room volume calculation:

Calculation of the cooling capacity required for the room volume: 130 m3 cubature x 30 watts of cooling capacity = required cooling capacity of

52 m<sup>2</sup> of floor space x 2.5 m ceiling height = a room volume of 130 m<sup>3</sup>

3.900 watts Conversion from watt to kilowatt: 3,900 W = 3.9 kW

Result: In a room with 52 m2 of floor space and a height of 2.5 m you need an air conditioner with a cooling capacity of approx. 3.9 kW - such as the PAC 3900 X.

equally important role.

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

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.

room's "thermal load": For selecting an appropriate air conditioner, the factors of insolation,

insulation, window dimensions, the number of persons as well as the heat sources play an

PAC 3900 X – special equipment features

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

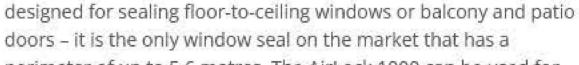
AirLock window and door seals

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

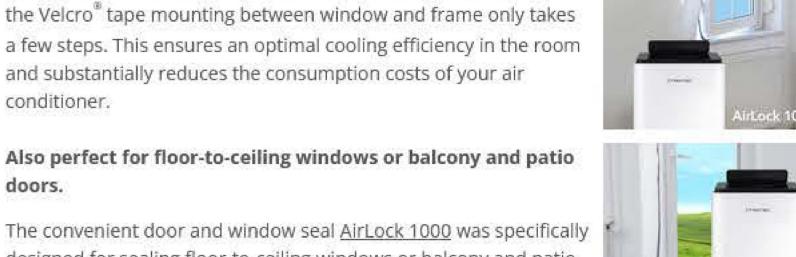
room through the window gap we recommend using AirLock window or door seals. Suitable for windows with a maximum perimeter of up to 4 metres

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.

is the window seal AirLock 100. The hose can be attached to any

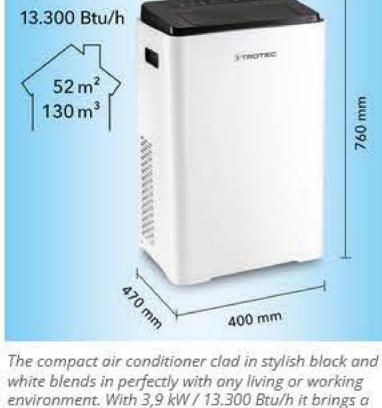


perimeter of up to 5.6 metres. The AirLock 1000 can be used for both one- or two-hose devices. Further information on all available AirLock versions is provided here.

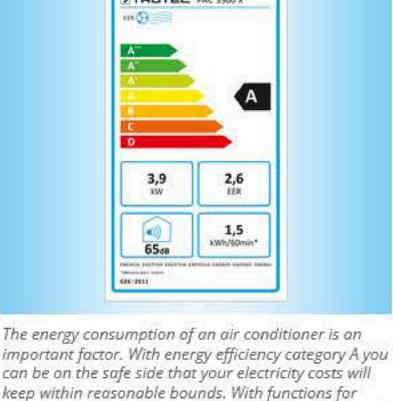




#### 3,9 kW 13.300 Btu/h TROTEC PAC 3900 X



pleasant fresh breeze to rooms sized up to 52 m² or 130 m3.



condensate recycling and timer-controlled switch-on/ off, the device itself permits a rather efficient and economical cooling operation.





effort. All in all the PAC 3900 X combines an uncomplicated, quick and easy installation, maintenance and servicing.



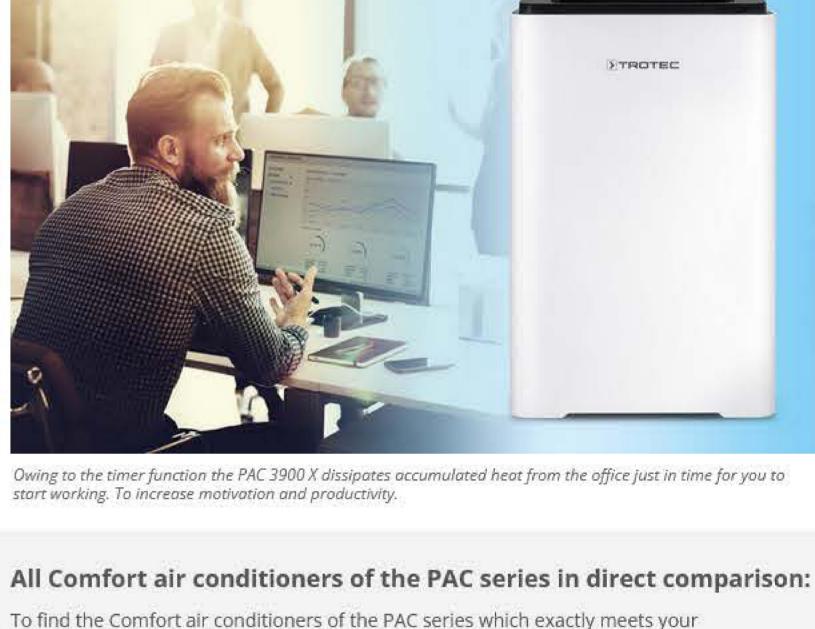
Cooling down in every room











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:

# Easy-to-clean membrane keypad

Swing function for optimum air distribution IR remote control

Quiet operation < 53 dB(A)

Removable air filter

**AUTO** MODE

Automatic mode

Controls the cooling level

depending on the ambient and

target temperature.

Room temperature display

All important features at a glance

### Three fan speeds Timer function

Three operating modes: cooling, ventilation, dehumidification

Practical LED display

Energy efficiency class A

3.9 kW cooling capacity

Cooling capacity

With its 3.9 kW the air conditioner

provides a pleasantly chilled feel-

good climate.

The LED display provides

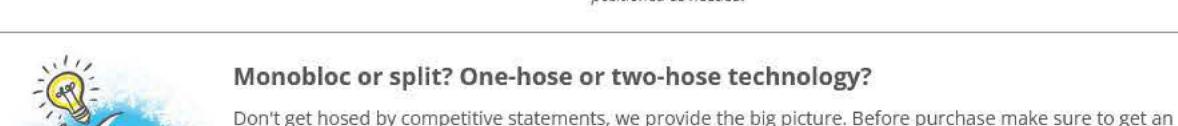
information on all important

parameters.





Auto restart function Remembers the previously selected



settings for the next switch-on.



Dehumidification function

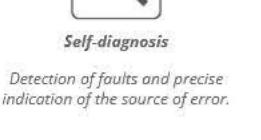
The humidity level in the room can be reduced even without the

cooling function.

Condensation water recycling

Reduces the energy requirement

and the constant emptying of the



the air conditioner can be positioned as needed.

overview of device differences, functional principles and possible applications.



3 fan settings

The room air is circulated even

when the cooling function is

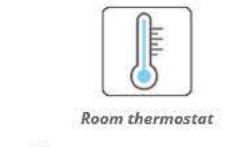
switched off.



### Helps you to sleep healthily by way of a slow, constant temperature increase.



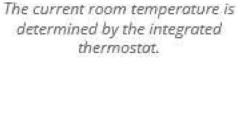
period.

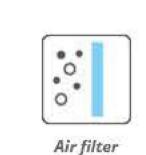


Swing function

Ideal air distribution thanks to on-

demand swing function of the fins.





Anti-bacterial, washable filter for

air quality improvement.

Remote control

Control your air conditioner

conveniently using the infrared remote control.

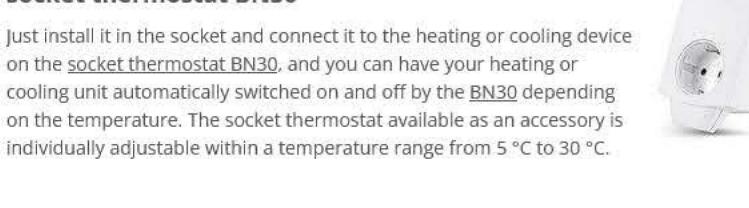




socket thermostat BN30

# the "Practical knowledge concerning air conditioning" ...

Optimum room temperature control with the



# Trotec, your climate expert, has compiled the most important facts in a reader-friendly overview! Direct link to

consists of a radio-controlled socket and a radio

thermostat. Simply plug the radio-controlled socket in

between a wall outlet and your heating or cooling unit.

Radio thermostat BN35 with timer switch for the socket With the radio thermostat BN35 you can easily determine at which room temperature your heating or cooling unit will switch on or off using the remote control. The BN35 set

Place the radio thermostat within approx. 20 metres in the place where the room temperature is to be measured. As an alternative, time-controlled regulation can also be carried out.







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 gushes 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.

