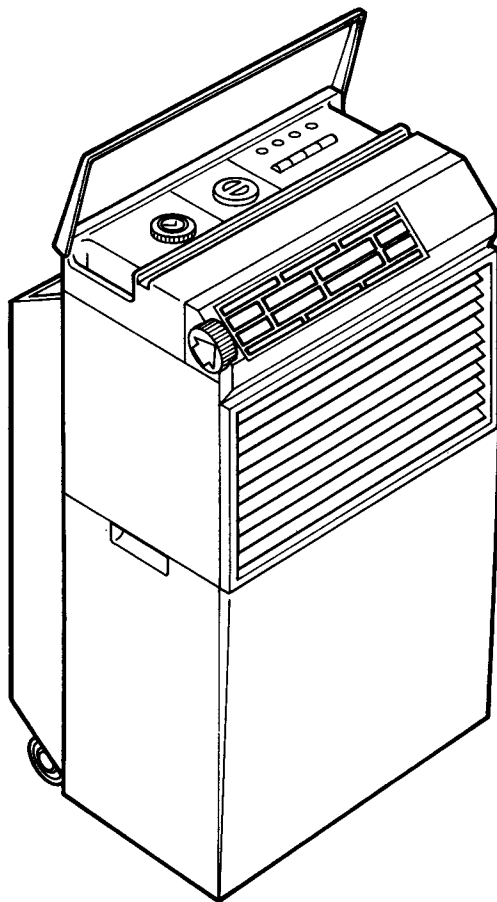

Air-conditioner PAC A1



Use and maintenance manual

For best results
and for safety purposes
please read this instruction
booklet carefully before
installing or operating
the appliance.
Pay particular attention
to the warnings
on page 23.



GENERAL DESCRIPTION

The new PAC A1 is an extremely versatile air-conditioner: it can be used to **cool** air in summer, **heat** in winter and **de-humidify** damp environments (cellars, laundries, etc.).

A **HE** (High Efficiency) system with low energy consumption has been installed on this appliance. Such system needs about 4 minutes, once the appliance has been started, to produce cold air.

SPECIFICATIONS

Power supply voltage	220...240 V ~ 50 Hz
Max.input power when cooling	780 W
*Cooling capacity (6500 Btu/h)	1890 W
Max.input power when heating	2000 W
Fan speeds	2
Max.air flow capacity	370 m ³ /h
*Dehumidification quotient	0,9 l/h
Timer	24 h

Dimensions:

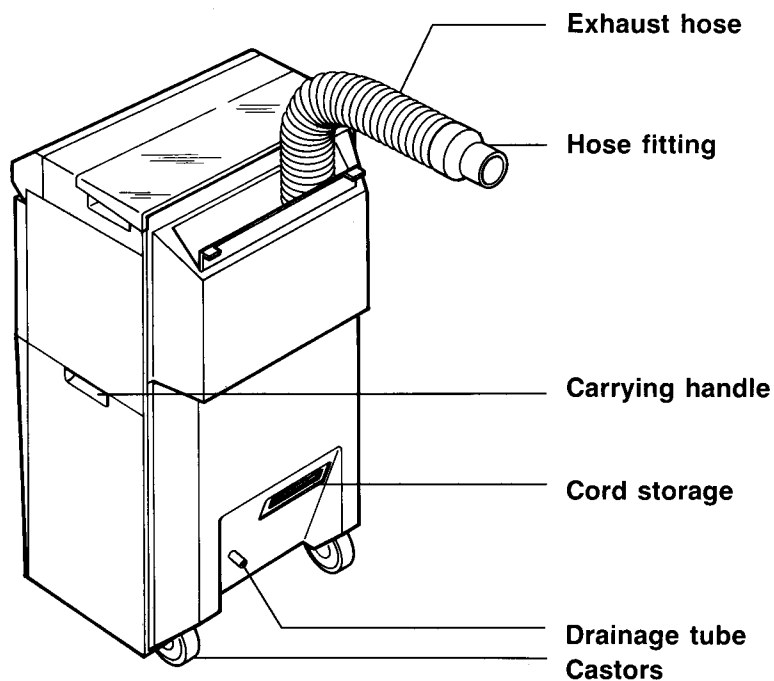
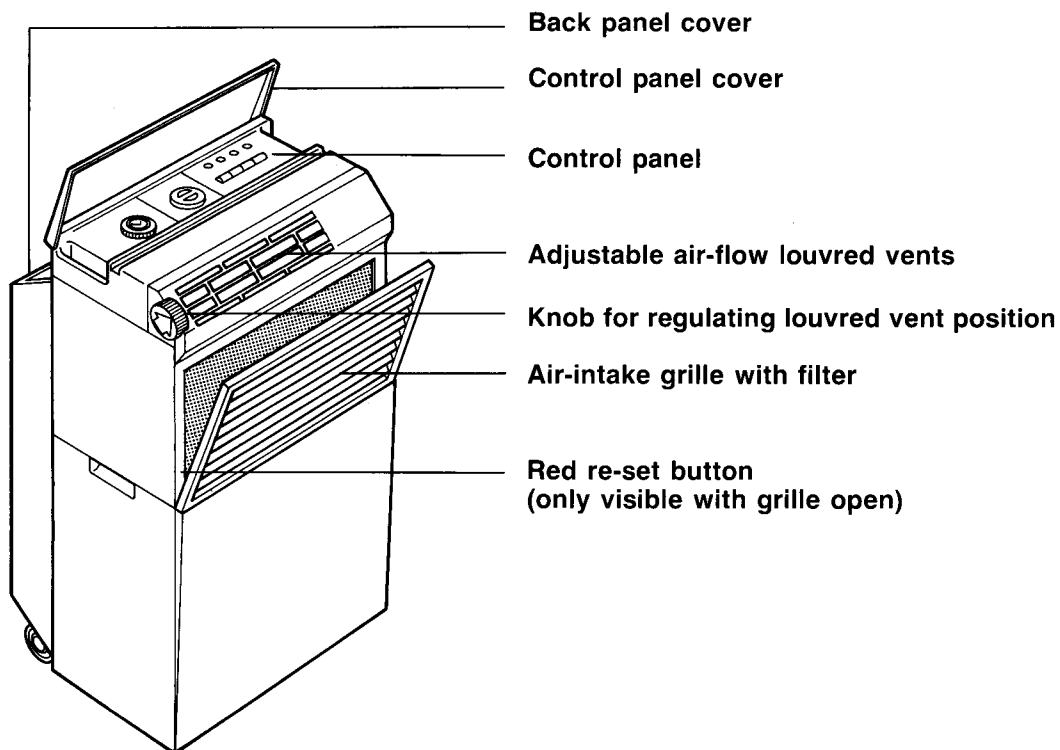
— Width	458 mm
— Height	836 mm
— Depth	400 mm
— Net weight	40 kg

* Average figures: variable according to environmental conditions of humidity and temperature





OPTIMUM OPERATING CONDITIONS

Room temperature	21 ÷ 32°C
Room humidity factor	less than 80%

DESCRIPTION



ACCESSORY SET

ILLUSTRATION	DESCRIPTION	No. SUPPLIED
	Stopper + Flange	1
	Castor stop	2
	Window nozzle	1
	Suction pad	2

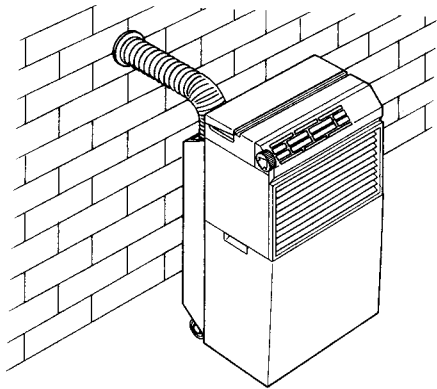
INSTALLATION FOR AIR COOLING FUNCTION

A) Fixed installation

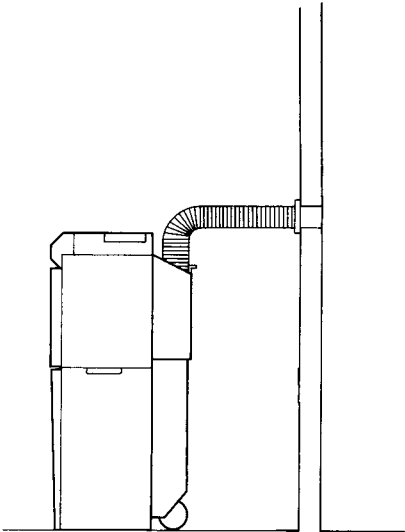
This new air-conditioner is portable and versatile: for permanent positioning it includes one set of flange & stopper.

Lift back cover, pull out exhaust hose and position as shown in the figure below.

When the appliance is not in use, stopper is supplied to seal outlet.

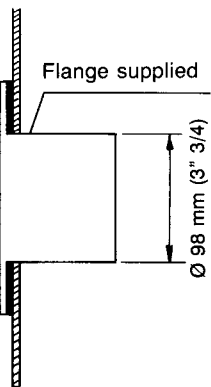


In the case of fixed installation, air discharged from rear hose has been extracted from the room where the appliance is installed. Check that the room (especially if small) is not "air-tight"; a drop in pressure would cause irregular functioning, which could consequently activate reset switch. If deemed necessary, leave a door ajar (approx. 1 cm is enough).



Outlet holes must be made in an exterior wall or window (figures A1, A2, A3).

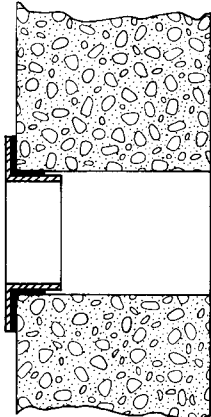
A1 in a window pane



A2 trough the wooden base-section of a glass door

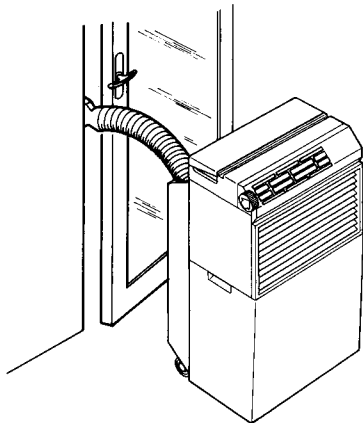


A3 trough the wall



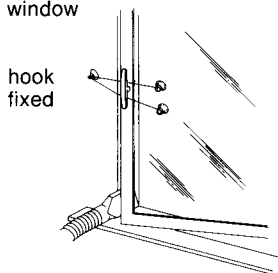
B) "Temporary" installation

"Temporary" installation can be carried out by fitting the window nozzle onto the end of the exhaust hose, facilitating use in any room, provided there is a window or glass door. This "temporary" installation makes PAC A1 ready for immediate use.

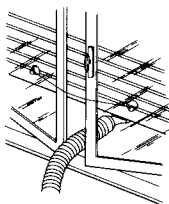


Three optional methods for "temporary" installation are shown (figures B1, B2, B3).

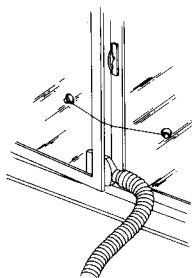
B1 Single-casement window



B2 Double-casement window



B3 Triple sliding window



In any case, for maximum cooling efficiency the window should be closed as much as possible. It is advisable to:

- keep outlet obstruction-free;
- partially lower the blind, without obstructing outlet, so as to reduce exposure to direct sunlight and indoor/outdoor air exchange.

N.B.:

Make sure the appliance is **kept level** by using the 2 castor stops if necessary.

INSTALLATION FOR HEATING FUNCTION

- Place appliance in the room to be heated.
- **Leave exhaust hose in back of appliance making sure back cover is well closed.**

INSTALLATION FOR DEHUMIDIFYING FUNCTION

- Place appliance in the room to be dehumidified.
- **Open back cover and leave exhaust hose in "position" for air to discharge directly into the room.**

ELECTRICAL CONNECTION

Before plugging in check that:

- the mains supply corresponds to the value shown in the specifications table;
- the socket and mains lead correspond to the power requirements of the appliance;
- the socket is suited to the plug, otherwise have the socket changed;
- the socket is properly earthed. **The manufacturer cannot be held responsible for any damage due to failure in following normal safety procedures.**

This product is manufactured to comply with the radio interference requirements of the Council Directive 87/308/EEC.

ELECTRICAL CONNECTION (FOR U.K. ONLY)

WARNING - THIS APPLIANCE MUST BE EARTHED

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow: Earth
Blue: Neutral
Brown: Live



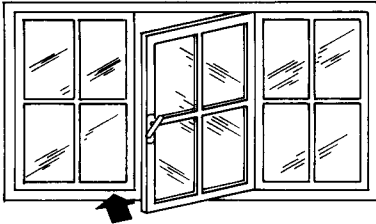
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol \perp or coloured green or green-and-yellow. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

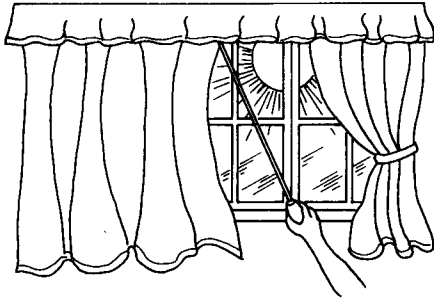
FINAL CHECK

In order to obtain the maximum performance from your air-conditioner make sure that:

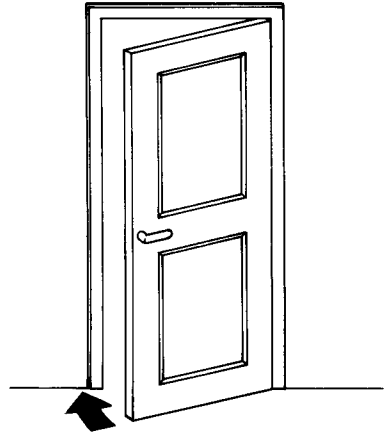
- doors and windows of room to be air-conditioned are closed (with the sole exception of "temporary" installation where a partially-opened window is necessary).



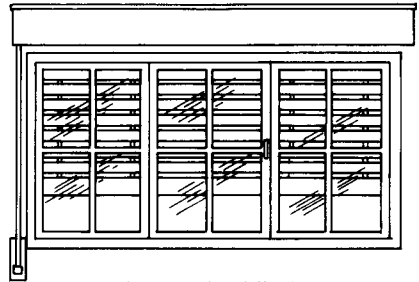
Close the windows



Draw the curtains



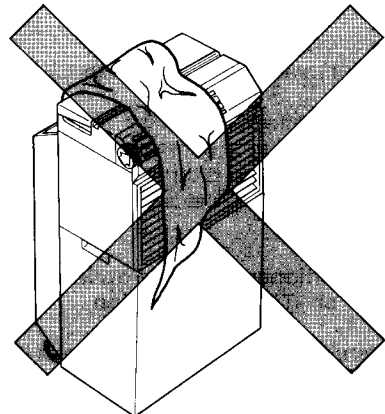
Close the doors



Lower the blinds

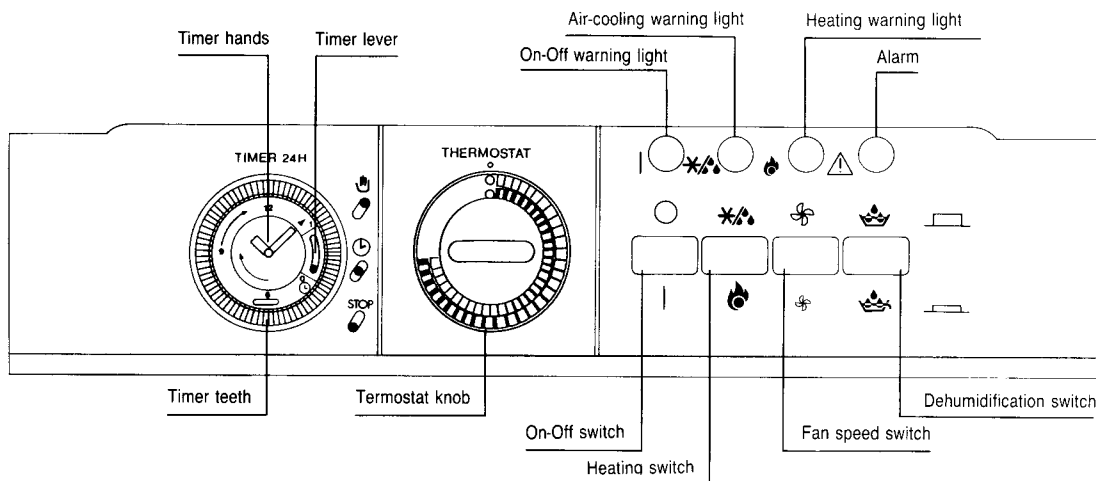
- shade the room as far as possible from direct sunlight by drawing curtains and/or lowering blinds or shutters, for economical and efficient air cooling;
- do not place anything on the air-conditioner;
- ensure that intake and outlet vents are obstruction free at all times;
- make sure there are no sources of heat in the room;

YOUR AIR-CONDITIONER IS NOW READY FOR USE.



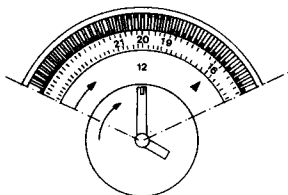
Do not cover

DESCRIPTION OF CONTROLS



CLOCK SETTING

The programmer/timer, as in all clocks, must be set to the correct time. If for example the time is 4 p.m., rotate the dial clockwise (following the direction of the arrow) until number 16 is aligned with the triangular pointer. (Timer hands are also aligned at approximately 16 i.e. 4 p.m.).



N.B.: - Do not rotate clock dial counter-clockwise!

The timer is, in effect, an electric clock and only works while the plug is connected to the power supply. Whenever the plug is disconnected or there is a power failure, the timer stops and must be re-set.

Your air-conditioner offers the option of either «MANUAL» or «TIMER» operation.

The appliance also offers the options of «COOLING», «HEATING», or «DEHUMIDIFYING».

COOLING FUNCTION


COOLING by
«**MANUAL**» operation.

1. Put timer lever to (Manual) .
2. Select fan speed desired by means of the switch .
3. Set thermostat knob at max-cold (blue).
4. Press On-Off switch O/I.
5. Choose desired temperature.

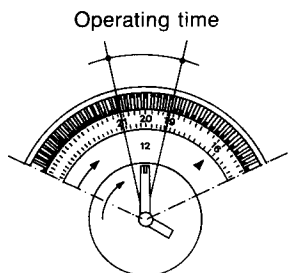
Note!

For universal consumer convenience, the temperature is shown by spaced blue marks rather than in degrees. It is recommended that the thermostat be placed on max-cold until room temperature has reached the desired level of comfort, then slowly turn the thermostat knob **clockwise** until the thermostat shuts off the function. In so doing, you will have programmed your PAC A1 on to this exact level of comfort which the thermostat will automatically maintain.



COOLING by "TIMER" operation

- Put timer lever to ⌚ (timer) .
- Be sure that the timer shows the correct time (see page 20).
- Set operating times by pushing outwards all the teeth of the timer included in the interval of time desired:

Example: from 7 p.m. to 9 p.m. (19-21)






Thus set, the appliance will repeat the pre-determined programme every day. Now complete starting operations by following steps 2, 3, 4 and 5 as in manual operation. To turn off the appliance, press the On-Off switch O/I again.

IMPORTANT: Should air-conditioning be desired at other times than those pre-programmed, it is not necessary to alter the timer; just place the timer lever on  (Manual) .

With the appliance on cooling function, air humidity in the room is automatically reduced and condensate eliminated through the exhaust hose.

HEATING FUNCTION

HEATING by "MANUAL" operation


1. Put timer lever to  (manual) .
2. Press «heating» switch .
3. Set thermostat knob at max-heat (red).
4. Press On-Off switch O/I.
5. Choose desired temperature.

Note!



For universal consumer convenience, the temperature shown by spaced red marks rather than in degrees. It is recommended that the thermostat be placed on max-heat until room temperature has reached the desired level of comfort, then slowly turn the thermostat knob **counter-clockwise** until the thermostat shuts off the function.

In so doing, you will have programmed your PAC A1 on to this exact level of comfort which the thermostat will automatically maintain. During heating the fan only works at one speed.

HEATING by "TIMER" operation

- Put timer lever to ⌚ (timer) .
- Be sure that the timer shows the correct time (see page 20).
- Set operating times by pushing outwards all the teeth of the timer included in the interval of time desired.

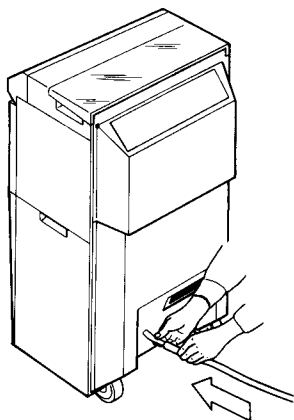
Thus set, the appliance will repeat the pre-determined programme every day. Now complete starting operations by following steps 2, 3, 4 and 5 as in manual operation. To turn off the appliance, press the On-Off switch O/I again.

IMPORTANT: Should air-conditioning be desired at other times than those pre-programmed, it is not necessary to alter the timer; just place the timer lever on  (Manual) .

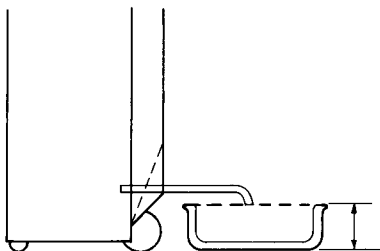
DEHUMIDIFYING FUNCTION





DEHUMIDIFYING by "MANUAL" operation

1. Pull out the condensate drainage tube from rear of appliance and place it directly into a drain at floor level. The drainage tube may be extended (max 2 metres) by fitting on a tube of equal diameter, provided it remains at floor level.





Water may also be drained off into a basin (max. height 11 cm), which must be EMPTIED WHEN FULL.



2. Put timer lever to  (Manual) .
3. Check that «Fan speed» switch  is not pushed in.
4. Press «Dehumidification» switch .
5. Set thermostat knob at max-cold (blue).
6. Press On-Off switch O/I.



The appliance will now operate as a dehumidifier. Momentarily switch off the appliance when emptying water from basin.

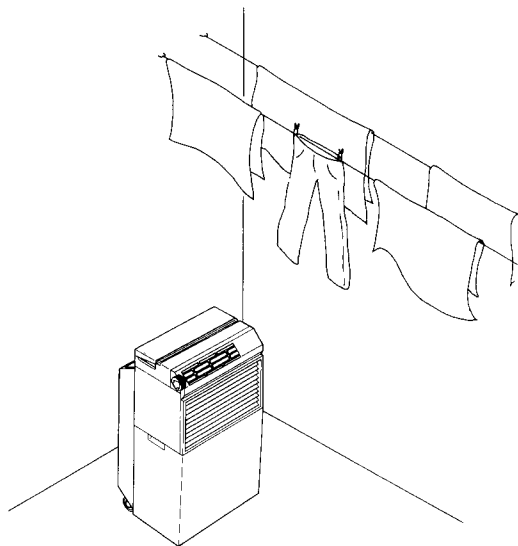
DEHUMIDIFYING by "TIMER" operation

1. Pull out the condensate drainage tube from rear of appliance and place it directly into a drain at floor level. The drainage tube may be extended (max. 2 metres) by fitting on a tube of equal diameter, provided it remains at floor level. Water may also be drained off into a basin (max. height 11 cm), which must be EMP-TIED WHEN FULL.
2. Put timer lever to  (timer) .
 - Be sure that the timer shows that correct time (see page 20).
 - Set operating times by pushing outwards all the teeth of the timer included in the interval of time desired.

Thus set, the appliance will repeat the pre-determined programme every day.

Now complete starting operations by following steps 3, 4, 5 and 6 as in manual operation.

IMPORTANT: Should dehumidifying function be desired at other times than those pre-programmed, it is not necessary to alter the timer; just place the timer lever on  (Manual) .



During dehumidifying function, appliance also heats at a power of 780 W.

MAINTENANCE

Before cleaning or normal maintenance operations, always remove plug from socket.

Under no circumstances should appliance be washed with running water.

CLEANING OF EXTERNAL HOUSING

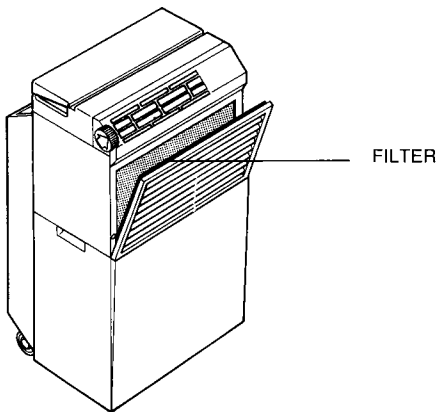
Clean with a damp cloth and dry thoroughly with a clean dry cloth.

Precaution

Never use benzine, oil or other solvents for cleaning. Never spray insecticides or similar liquids on it. Serious damage may result to paintwork and plastic.

AIR-FILTER CLEANING

- A clogged air-filter reduces the quantity of circulating air and the efficiency of the appliance. It is therefore recommended to clean filter every week.
- To remove air filter, open air-intake grille and pull out filter.




- To remove dust deposited on filter, use a vacuum cleaner. If it is very dirty, soak in luke-warm water and rinse thoroughly. The temperature of the water must be kept below 40°C. After washing, leave filter to dry before replacing.

CONTROLS AT THE BEGINNING OF THE SEASON

Meticulously observe all the installation procedures.

Check for any defects in power cord and plug and check earthing.

END OF SEASON OPERATIONS

Put timer lever to STOP  and disconnect plug. Remove plug from drainage tube and empty water from internal water-collecting tray. Clean filter and dry well before replacing. Cover appliance with a plastic bag to prevent dust from entering.

SPECIAL PRECAUTIONS

- ☐ This appliance has been manufactured to cool, heat or dehumidify domestic environments and should not be used for any other purpose.
- ☐ It is dangerous to change or alter this appliance in any way whatsoever.
- ☐ Should repair be necessary, contact the nearest Service Centre authorised by the manufacturer. Unqualified servicing can be dangerous.
- ☐ This appliance is to be used by adults only; do not allow children to play with it.
- ☐ Always earth the appliance. Have electrical system checked by a qualified electrician.
- ☐ Avoid the use of extension leads.
- ☐ Before cleaning or maintenance operations, always disconnect plug from socket.
- ☐ When dehumidifying, check condensate-water level to avoid overflow.
- ☐ Do not place any strain on the power cord when moving appliance.
- ☐ The appliance should not be installed where the atmosphere could contain combustible gases, oil or sulphur or near sources of heat.
- ☐ Wait at least 3 minutes before restarting after air conditioner has been switched off.
- ☐ Do not place hot or heavy objects on the appliance.
- ☐ Clean air filter at least once a week.
- ☐ The appliance should be transported either upright or placed on its side, having first emptied the internal water-collecting tray.
- ☐ After transportation, wait at least 1 hour before switching on appliance.

TROUBLESHOOTING

Malfunction is sometimes caused by a small and easily solved problem, so first consult the following trouble-shooting check-list. Should this fail to remedy malfunction, contact your nearest authorised Service Centre for qualified assistance.

PROBLEMS	CAUSE	SOLUTION
The PAC A1 does not function	<ul style="list-style-type: none">— power failure— plug is disconnected— TIMER operation selector is in STOP position— teeth of TIMER are in rest position— ON/OFF switch is off	<ul style="list-style-type: none">— wait— insert plug— move operation selector lever from STOP position— push teeth outwards— switch on
PAC A1 functions for only brief periods because reset switch activates	<ul style="list-style-type: none">— exhaust hose in throttled— exhaust hose blocked— exhaust hose twisted or bent— condenser fan has jammed— safety ball cock has activated	<ul style="list-style-type: none">— place exhaust hose correctly— check for obstruction of air outlet— eliminate irregularities— call Service Centre— drain off condensate water through drainage tube
The appliance does not heat	<ul style="list-style-type: none">— the safety thermostat has activated	<ul style="list-style-type: none">— to restart, remove plug from wall socket for a few minutes, eliminate cause of overheating, the connect appliance again
PAC A1 functions but does not cool	<ul style="list-style-type: none">— window open— source of heat in room (heater, lamp etc.) or room is overcrowded with people— air exhaust hose has become disconnected— thermostat regulated too high— air filter blocked— appliance capacity is unsuitable for room size or conditions.	<ul style="list-style-type: none">— close window— remove source of heat— re-insert exhaust hose— lower thermostat setting— clean filter
Ventilation only function	<ul style="list-style-type: none">— the red reset button has activated (alarm light on)— Thermostat has activated	<ul style="list-style-type: none">— press red button— to make room cooler rotate thermostat knob counter-clockwise