PAC 14
Portable Air Conditioning

Operating Instructions
& Safety Guide

ANDREWS AIR CONDITIONING

General Safety

- Keep children and animals away from air conditioning units.
- Never leave them alone in a room where the units in use.
- Never operate this equipment if you are ill, feeling tired or under the influence of alcohol or drugs.
- Never put anything on top of the unit or block the air outlets.
- Good and correct air flow is essential. Ensure cold air from the unit does not re-bound off adjacent furniture back into the unit.
- The unit will provide the best effect if all windows and doors remain closed.
- Do not use the unit where sunlight is shining directly onto it.
- Moisture removed by the air conditioning process is passed to the external condenser to be re-evaporated. However, in certain conditions water may drip from condenser base. Take this into account when siting.
- The condenser unit MUST be sited externally. Make sure it is firmly supported using suitable brackets/chains and must not be allowed to hang by its flexible lines as this may cause serious damage. Ensure the lines are free from kinks and severe bends.
- The minimum size of extension cable that may be used is 2.5mm up to a max length of 10metres. If extension cable is of drum type please ensure it is COMPLETELY unwound otherwise serious damage may occur.
- Careful use of the thermostat will have to be observed. Excessive and rapid turning between coolest and hottest settings will possible blow the fuse or cause IRREPARABLE damage to the compressor.
- Check condition of equipment before use. If unit is showing signs of damage contact your supplier immediately.

Electrical Safety

- This unit requires a 230 volt electrical supply. It plugs into a standard BS1363 domestic socket.
- Always inspect plugs and leads for damage before plugging into the supply - DO NOT USE IF ANY DAMAGE IS FOUND
- Ensure cables are run as not to cause a hazard.
- If an extension lead is used, ensure it is of the correct standard , and fully uncoiled when being used.
- Do not lay electrical cables in wet / damp areas.
- Do not move equipment whilst operating.
- Do not pull equipment by its cable.
- It is recommended that electrical equipment is used via a suitable RCD.

Maintenance

- Disconnect from the electrical supply before any cleaning or maintenance.
- Clean eternal surfaces with a clean, damp cloth. Do not use solvents.
- Check the air filter everywhere every week.
  1. Pull forward the front panel (fig 3).
  2. The filter may not be removed (fig 4).
- The filter may be cleaned in warm soapy water (40°C). RInse and dry completely before replacing.
- Light dust may be vacuumed.

Fig. 4   Fig. 3

Laying Up

- Clean surfaces
- Clean filter
- Stow condenser
- Cover to keep clean

Getting started and operation

These units are supplied in two parts; a room unit and a condenser. The room unit placed within area of being cooled comprises of an evaporator and a compressor.

Before operating the unit, it should be positioned in the area to be air conditioned so that it is in reach of a 13 A socket outlet and where the condenser can be set up outside an opening window.

After unit is positioned, carefully remove the condenser from its stowed position (fig.1). The chains and hooks are for supporting the condenser. The flexible line connecting the condenser to the unit will be stiff until operated (fig.2).

The room air enters the unit and once passed across the evaporator is returned into the room as cooled air. The external unit which is connected to the room unit by a flexible pipe, contains the condenser which needs to be cooled by ambient air, therefore the external unit needs to be positioned outside of the room to be cooled.

The external condenser should never be positioned more than 1.5m above the level of the top of the room unit.

Cooling

Place the outdoor unit outside and insert the plug in the power socket.

1. Twist the knob (4) of the thermostat to the right until you reach the position of maximum cooling.

2. Switch on the air conditioner pressing the ON/OFF push-button (1) lamps of last operations are displayed.

3. Select the cooling operation pressing the push-button (2). lamp (5) lights.

4. Press the push-button (3) to select the high fan speed, the lamp (6) lights.

5. When room temperature has reached the most suitable value for your comfort, press again the push-button (3) to select the low fan speed, the lamp (7) lights.

6. Now slowly twist the thermostat knob hack towards the left

until the compressor stops. At this point the air conditioner is set for automatic operation under the control of the electronic thermostat to maintain the room temperature at the pre-set value.

7. To stop the air conditioner press again the ON/OFF push-button. (1).

Fan only

For this operation the outdoor unit can be placed either outside (on the window sill or hanging on the wall) or Inside, attached to the indoor unit.

The air conditioner is running In cooling mode.

1. Press the cooling push-button (2) to stop the compressor, lamp (5) is released (deactivated).

2. Select the fan speed pressing the fan speed push-button (3).

Starting the air conditioner in fan only mode.

1. Switch on the air conditioner pressing the ON/OFF push-button (1).

2. Make sure that the lamp (5) is released (deactivated).

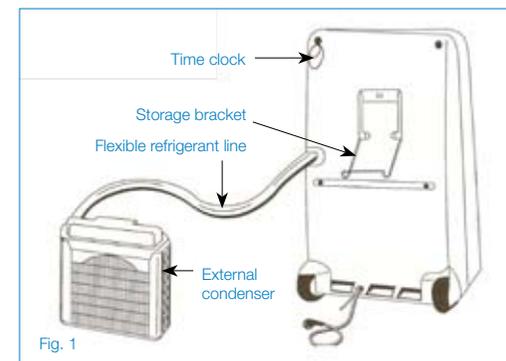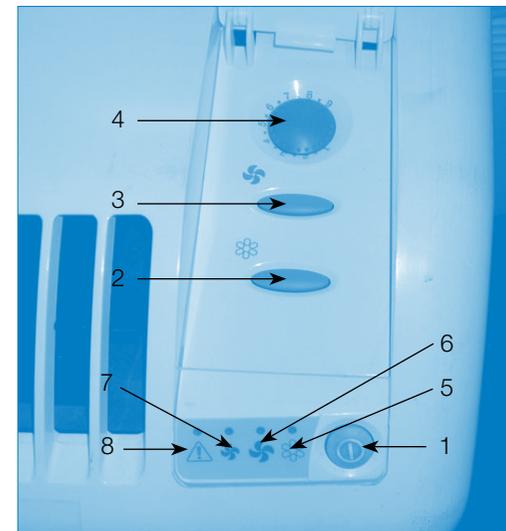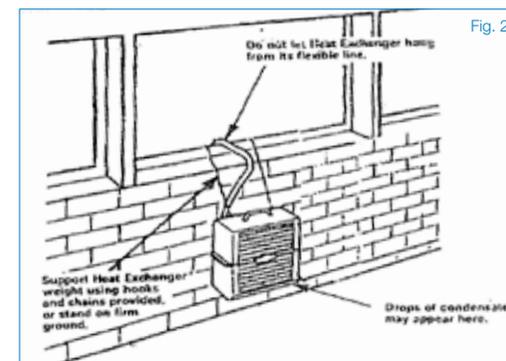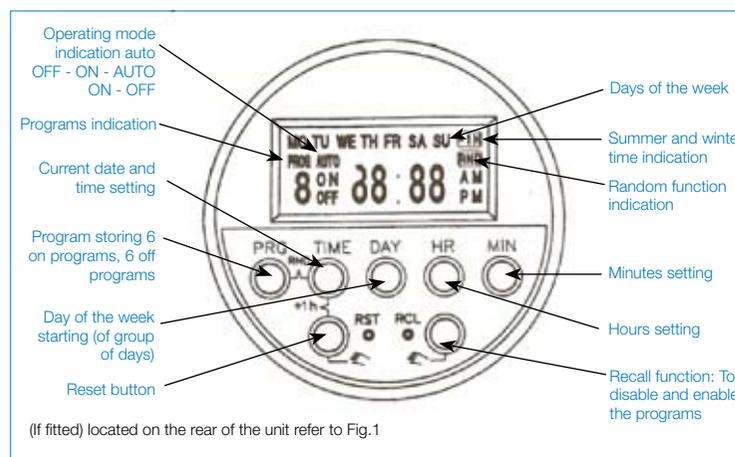3. Select the fan speed by pressing the fan speed push-button (3).

Time clock

Storage bracket

Flexible refrigerant line

External condenser

Fig. 1

Operating mode indication auto OFF - ON - AUTO ON - OFF

Programs indication

Current date and time setting

Program storing 6 on programs, 6 off programs

Day of the week starting (of group of days)

Reset button

Days of the week

Summer and winter time indication

Random function indication

Minutes setting

Hours setting

Recall function: To disable and enable the programs

(If fitted) located on the rear of the unit refer to Fig.1

Fig. 2

Operating Instructions For the Timer

1. Reset of the timer:

Press down the RST (reset) button with the tip of a pencil

2. Setting the current day and time:

Keep pressed down the TIME button while you are setting or correcting i: press down the the DAY button to set the current day (show by the english abbreviation on the display), press down the HR button to set the current hour, press down the MIN button to set the current minutes.

2. Setting the current day and time:

Keep pressed down the TIME button while you are setting or correcting i: press down the the DAY button to set the current day (show by the english abbreviation on the display), press down the HR button to set the current hour, press down the MIN button to set the current minutes.

3. Selection of the days or the groups of days to be set:

Press the PRG (programming) button once: you will see 'PROG 1 ON' on the display which indicates the switch-on time command to be entered.

Press the DAY button and the display will show you in sequence (each time you press it) the following groups of days or single days.

Mo-Tu-We-Th-Fr-Sa-Su (group of days from Monday to Sunday)

Mo-Tu-We-Th-Fr-Sa-Su (each day of the week, one by one)

Mo-Tu-We-Th-Fr (group of days from Monday to Friday)

Sa-Su (Saturday and Sunday)

Mo-We-Fr (Monday, Wednesday, Friday)

Tu-Th-Sa (Tuesday, Thursday, Saturday)

3. Selection of the days or the groups of days to be set:

Press the PRG (programming) button once: you will see 'PROG 1 ON' on the display which indicates the switch-on time command to be entered.

Press the DAY button and the display will show you in sequence (each time you press it) the following groups of days or single days.

4. Programming the switching times:

After having pressed down the PRG button and the DAY button until you set the day or the group of days to be stored (see section 3)

- Press down the HR button and the the MIN button to set the switching ON hour.
- Press the PRG button again to set the switching OFF hour (you will see 'PROG 1 OFF' on the display which indicates the switch-off time command to be entered).
- Confirm the day or group of days with the DAY button and set the switching OFF hour with the HR and MIN buttons.
- Repeat these operations in sequence up to 6 switching ON and 6 switching OFF programs maximum, divided among the days you want set.
- At the end of programming press the TIME button to switch to the current line, otherwise these switching times will not be executed. (However, the display will be switched to current time mode automatically if no button is pressed within about 2 minutes).

Note: During the non set days the air conditioner will be OFF

5. Visualise, correct, disable and enable the stored programs

You can visualise the stored programs, during operation, pressing many time the PRG button.

In this way, you can modify the switching ON and OFF hours with the HR and MIN buttons and disable or enable one or more programs, pressing the RCL button (see RECALL function, section 6)

6. RECALL function:

The RECALL function allows you to disable a switching time of a program, without losing preset memory:

- Press the PRG button until the preset memory you want to disable is present.
- Press the RCL button, using the tip of a pencil (the set time disappears and the display shows '--:--' for the hours and minutes, indication that the specified memory location will not be executed).
- Press the TIME button to switch to thew current time
- You can enable again by switching time, following the same procedure and pressing again the RCL button.

7. SUMMER / WINTER changeover:

- To change from winter to summer time, keep TIME button pressed while pressing one of the (insert hand icon) button (the display will indicate the '+1h' sign and the current time will be advance one hour).
- To change form summer to winter time simply perform the step before (the '+1h' will disappear from the display and the current time will retard one hour).

8. RANDOM function:

- The programmed memories you have preset will be executed in a random delay from 2 to 32 minutes, in case of current interruption, using this function.
- Keep the TIME button pressed while pressing PRG button (the display will indicate RND sign).
- Press again the TIME and PRG button to cancel the random mode (the RND sign will disappear from the display).

9. Manual Operation:

If you press one of the (insert hand icon) buttons, you can set the timer manually; the display will show in the sequence: AUTO ON to AUTO OFF

AUTO: the air conditioner is controlled by the timer (it is possible to change from AUTO ON to AUTO OFF or vice versa, if you want to switch on or off the air conditioner without losing the control of the timer that will go on executing the other set programs).

ON: the air conditioner is permanently ON (use directly the ON/OFF push button of the air conditioner to switch it OFF).

OFF: the air conditioner is permanently OFF (use directly the ON/OFF push button of the air conditioner to switch it ON).