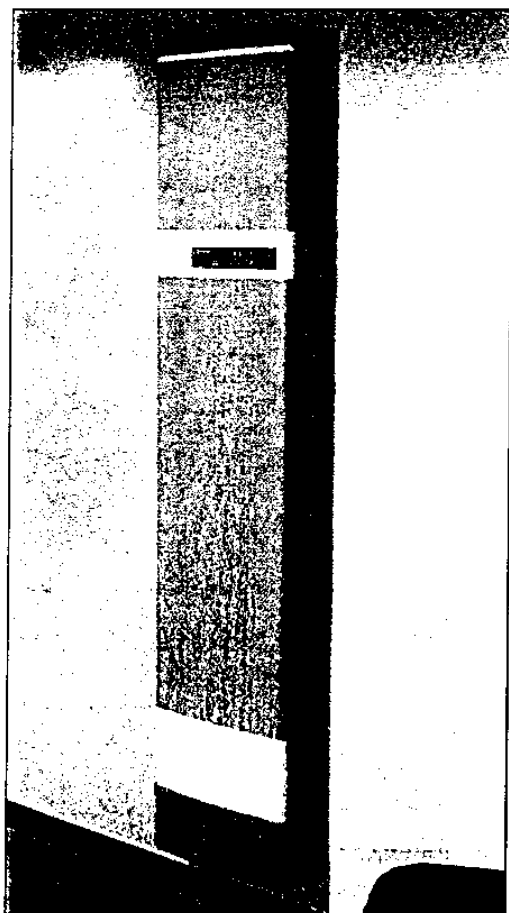




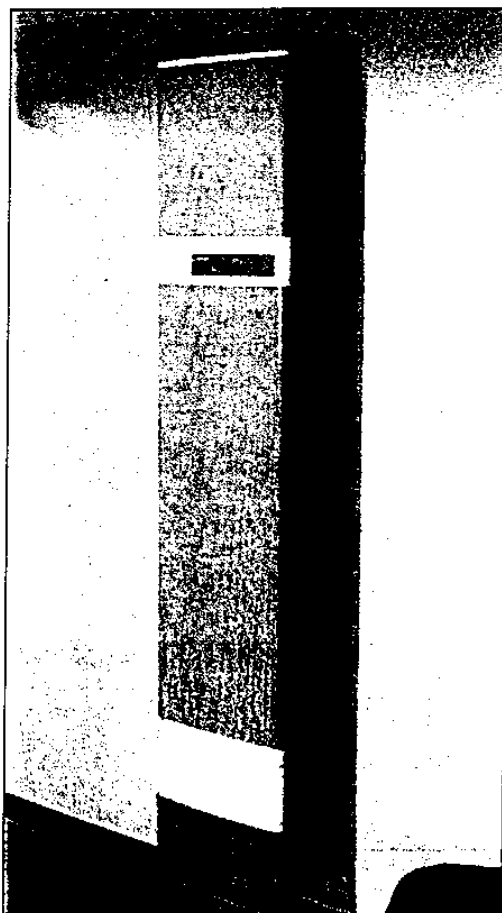
OPERATING INSTRUCTIONS FOR HIGH EFFICIENCY GAS WALL FURNACES FITTED WITH ELECTRONIC CLOCK CONTROL

Thank you for purchasing this Vulcan product. It has been designed to give you excellent service. Now it is installed, you are no doubt anxious to turn it on and enjoy the far-reaching warmth. Before you do, take a few minutes to read through this instruction and discover how to get the very best from your heater. After you have read it, we suggest you store these instructions in a safe place for future reference. If you have any questions or problems relating to your new heater do not hesitate to get in touch with your installer, or your nearest Vulcan service centre.

The Australian designed and manufactured Vulcan Gas Heater has been thoroughly life tested and carries the A.G.A. and Electrical approvals.



INBUILT MODEL



CONSOLE MODEL

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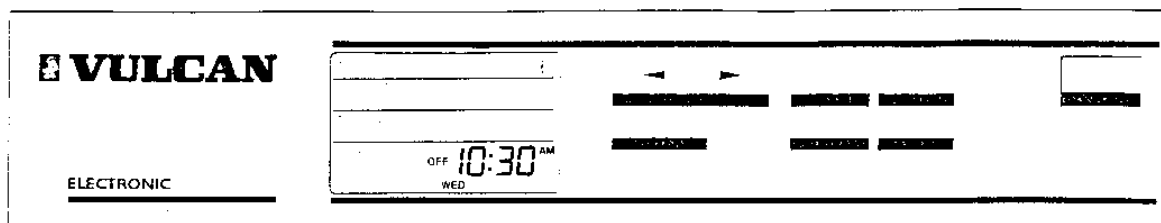
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SAFE OPERATION


1. It is essential to have any existing power point to which the appliance might be connected checked by a qualified electrician to ensure that the power point is correctly earthed.
2. Each Vulcan Gas Heater is factory set to operate on a particular type of gas. **Do not** use any type of gas other than that specified on the appliance and carton.
3. **Never drape clothing etc., over the heater or place them on a clothes horse within 1.5 metres.**
4. **Do not** place articles on or against this appliance.
5. **Do not** cover the outlet louvres of the heater.
6. **Do not** drape clothes or any other articles over the heater.
7. **Do not** use or store flammable materials near this appliance.
8. **Do not** spray aerosols in the vicinity of this appliance while it is in operation.
9. **Do not** use an extension cord with this appliance.

THE HEATER CONTROLS

The Electronic Timer Control is mounted on the front panel of the heater.



THERMOSTAT

The heater is automatically controlled by a built in thermostat which regulates the gas supplied to the burner to maintain the temperature of the room at the selected level. The temperature at which this thermostat operates is set by pressing the  buttons on the keypad of the clock or on the remote control (if available) between the TEMPERATURE LO (one bar on the display) and TEMPERATURE HI (12 bars on the display).

The bars are for guidance only. Increasing or decreasing of the room temperature should be done in small steps (say one bar at a time) allowing at least 15 minutes for the thermostat to adjust and room temperature to stabilise before making further adjustments.

POWER SUPPLY INTERRUPTION

The heater will not operate if electric power is interrupted (due to supply failure or switching off at power point).

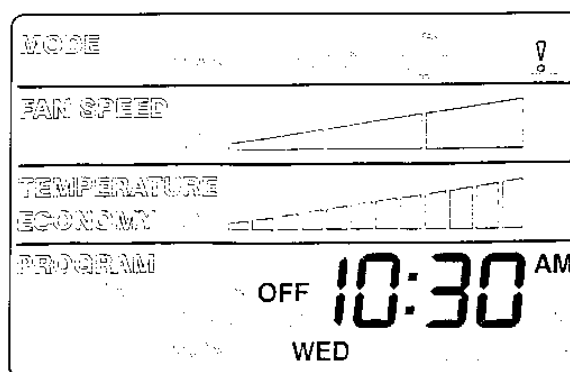
When power is restored, the display will indicate OFF and the time of day. The time of day must be re-set.

The heater will not automatically restart on restoration of power. The fan however may run for a couple of minutes if the heater is still warm.

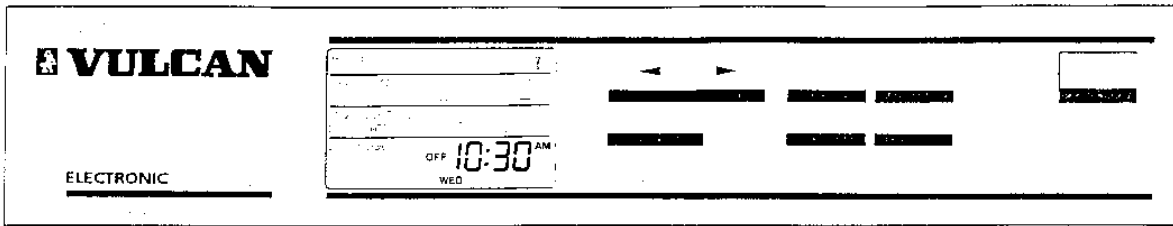
Note: During extended periods when the fan is off, dust may settle on the heat exchanger causing an odour when the heater is used. This is no cause for alarm and will cease when the fan resumes operation.

GETTING STARTED


Ensure power lead is plugged into power point. Switch on power. The display will show the time of the day when the unit was last switched on.





SETTING TIME OF DAY





PLEASE READ THE FOLLOWING SECTION COMPLETELY BEFORE SETTING THE CLOCK.



Select CLOCK SETTING Mode by pressing the **MODE** button repeatedly until the  symbol is displayed. Press **ENTER** to lock the selection in. Please note that MODE flashes on the display when **MODE** is selected.

You will notice the current day flashing.

To change the day press   repeatedly until the desired day flashes. To lock in your selection press **ENTER**.

The HOURS digits will flash when you lock the day selection in.


To change the HOUR press   repeatedly until the required time is displayed. To lock the selection in press **ENTER**.

The MINUTES digits will then flash. To set the MINUTES, use the   buttons again. When you are happy with the selection, press **ENTER** or do nothing, as one minute after the last button being pressed, the clock will lock in all the selections and revert to normal operation.


MANUAL OPERATION OF HEATER

Press **ON/OFF** button. The LED shall light and the display will show the last settings before the unit was previously switched off. Please note that at this point the heater might automatically ignite the main burner. If this happens, the fan will start a few minutes after the main burner is lit.

To select manual operation, press **MODE** repeatedly until MAN flashes on the display. Pressing **ENTER** will lock in the selection, also, if no other button is pressed, the selection will be locked in five seconds after the last button was pushed.

To light the burner, the set temperature must be above the room temperature, therefore, if the burner is off, adjust the set temperature by pressing the  button one step at a time, until the burner lights.

FAILURE OF THE HEATER TO LIGHT

If the flame has gone out, check for the warning  symbol on the display. If the warning symbol is displayed, press **RESET**. The warning symbol will go off and the heater will attempt to relight.

TO TURN THE HEATER OFF

To turn the burner off, press **ON/OFF** once. The LED will go off and only the time of the day shall be displayed. The fan will continue running for a few minutes in order to utilise the heat remaining in the unit.

SETTING THE AUTOMATIC HEATING PERIODS

NOTE: To get the most out of the features of this heater is important to plan before programming the clock.

You can program the unit to come on and off either once or twice in any 24 hour period, any day of the week, weekdays, weekend or for the whole week - say for "wake-up" warmth and "come home" warmth.

PROGRAM SAMPLE							
	MON	TUE	WED	THU	FRI	SAT	SUN
TIMER 1 START	6:00AM	6:00AM	6:00AM	6:00AM	6:00AM	7:00AM	7:00AM
TIMER 1 STOP	9:00AM	9:00AM	9:00AM	9:00AM	9:00AM	9:00AM	9:00AM
TIMER 2 START	6:00PM	6:00PM	6:00PM	6:00PM	6:00PM	8:00PM	8:00PM
TIMER 2 STOP	10:00PM	10:00PM	10:00PM	10:00PM	10:00PM	10:00PM	10:00PM

Please find at the end of this booklet a blank PROGRAM SHEET for your convenience. You can use the blank PROGRAM SHEET to plan for your weekly comfort. You can copy the PROGRAM SHEET and use it every time you want to alter the settings.

NOTE: For the heater to turn on and off as set by you the AUTO mode must be selected.

Set the correct time of day. Refer to page 4.

To program the clock as per your requirements, follow the steps below, based on our PROGRAM SAMPLE.

PROGRAMMING FOR EACH DAY OF THE WEEK

To select the day of the week press **PROGRAM**.

The day of the week will flash on the display. If you want to alter the selection use the **◀▶** buttons to move through the available options. Pressing **ENTER** will lock in the selection.

Please note that there are several options available: you can either program the clock for each day individually, or you can program the clock on groups of days:

5 days (weekdays)

2 days (weekend)

7 days (all week)

It is recommended to use one of these options if you have a very regular program.

TIP: If at any point in the programming cycle you want to make corrections, press **PROGRAM** twice and you can start the programming process again. If at any stage in programming mode you want to revert to the initial condition, press **RESET** and the settings will be as they were before you started.

PROGRAMMING THE TIME ZONES

For cold mornings, there is nothing better than to wake up in the warmth of your home. Time zone 1 is designed to give you the option of setting the timer so that the heater starts at a time (set by you) before you wake up.

All you have to do is to tell the clock when to start, when to stop, the desired temperature for when you wake up to and the fan speed (if you wish).

Once you press **ENTER** to select the day(s), you will notice the ON (or OFF) flashing on the display. This allows you to set TIMER 1 active or inactive. If you select OFF (using the arrow keys), after pressing **ENTER** the clock will move on to set TIMER 2.

If you selected ON, the clock will move on to set the time limits of TIMER 1. The word START and the HOURS segments will then flash.

To set the HOURS use the **◀▶** buttons.

Pressing **ENTER** will lock the selection in and the clock will move on to set the MINUTES. The MINUTES segments will flash. To set the MINUTES use the **◀▶** keys. To record the selection, press **ENTER** again.

The STOP word and the HOURS will then flash on the display, indicating that you need to tell the clock a time to stop. Set the STOP time as described above, then as the TEMPERATURE display flashes, set the desired temperature and **ENTER**. The FAN SPEED will then flash. Set the fan speed using the **◀▶** keys, press ENTER and you can set TIMER 2 for evening heating.

Following similar steps as above, nothing is easier.

When you have finished programming, if you do nothing, 15 to 60 seconds after the last button was touched, the clock will revert to its normal operation. Alternatively, pressing **PROGRAM** at any time during programming will exit the programming mode.

Remember the heater will only start and stop automatically if you are in AUTO mode. Going into MANUAL mode will ignore any automatic settings you have programmed.

ECONOMY MODE

The Vulcan Gas Heater is able to run on a low gas rate just to keep the room cosy. No temperature setting is necessary, just press **ECONOMY** and it's all happening.

THE RESET BUTTON

The Vulcan Gas Heater carries the most advanced features regarding its safe operation. There are though instances when, due to some unlikely factors the heater might not light or it might switch off and the alarm symbol is displayed. The **RESET** button is there to help you fix the problem.

Note: If after pressing **RESET** two or three times the alarm is still on, switch the heater off from the **ON/OFF** button and call our Service Division on 13226 (National Capital Cities).

OPTIONAL REAR REGISTER CONTROL

The Vulcan Gas Heater can be supplied with an optional Rear Register Control which, if installed, allows you to heat two rooms from one heater.

The Rear Register can be open or closed from the Rear Register lever placed on the Rear Register outlet.

Note: THE REAR REGISTER KNOB MIGHT BE HOT!!

PROGRAM SHEET							
	MON	TUE	WED	THU	FRI	SAT	SUN
TIMER 1 START							
TIMER 1 STOP							
TIMER 2 START							
TIMER 2 STOP							

The above table can be used to make programming the clock easier. We encourage you to make copies of the table and after filling them in according to your preferences, keep them handy.

CLEANING THE HEATER

Clean the sides and front panel of the heater with a soft damp cloth. Do not use abrasives or chemical cleaners.

THERMOSTAT OPERATION

You will soon establish the best setting for your personal comfort level. For most economical performance, always operate your heater at the setting which just gives you desired comfort level.

Setting the temperature to a very high setting for a 'quick warm up', then turning down to a low setting when the room is hot will not result in any faster warm up but rather an uncomfortable room temperature, uneconomical operation and a "cold and drafty" feeling after the thermostat is brought back to its normal setting.

FAN OPERATION

The fan On/Off mode is automatic. The fan switches on a few minutes after the burner ignites to ensure that discharged air is warm enough for comfort. It switches off a few minutes after the burner extinguishes in order to utilise the heat remaining within the unit. The three speed fan increases air circulation and efficiency. Switch fan to low, medium or high as desired. The positions are marked on the display. The highest speed is available to bring the area to be heated up to even temperature in the shortest possible time. "Medium" or "Low" settings are generally used once the area is up to desired temperature and the heater is maintaining that temperature

Do not sit close to the air outlet. This is a **Space Heater** not a personal heater. Avoid directing air onto room occupants - use air deflectors to ensure discharged air does not blow directly onto furniture or people.

PROBLEM SOLVER

We have prepared this problem solver in case you have any difficulties with your heater. Check the chart first before you phone for service so you won't be paying for an unnecessary service call.

PROBLEM	CHECK	REMEDY
Burner will not light	That power is turned ON (display on) That gas is available to the heater That the Thermostat is not set on a low setting. The unit is not set on AUTO	If OFF turn on If ON check further Repeat lighting procedure Check if the alarm icon is displayed. If yes, press RESET. If it is, turn to a higher setting until burner lights. Set to MANUAL or check the programming
Burner flame decreases and may even go off.		Thermostat has automatically regulated burner flame to maintain temperature setting. Burner will relight when temperature falls.
Burner flame on full fire after lighting		Room temperature is lower than the thermostat setting. Thermostat will automatically reduce burner flame as room temperature rises.
Room Temperature too low		Check rear register (if fitted) setting. Turn temperature control to a higher setting.
Smoke or smell		This may occur only during initial firing when protective oils on the metal work are removed or at the start of each heating season when dust that has settled on the heat exchanger during summer is burnt off.
Fan fails to come on when burner turned on		The fan is operated by a thermostat and will come on after a few minutes when the heater is warm.
Fan continues to operate after burner turns off		Fan will operate after the burner goes off until the heater cools down. Fan will then switch off.
Fan blowing cool air	Fan setting and thermostat setting Air deflecting from adjacent furniture onto thermostat Air blowing direct onto legs	High fan speed and low heat could cause cold air. Set fan to lower speed. Reset air deflectors Reset air deflectors
Clock showing wrong time		Power interruption has occurred. Reset time of day.
No heat in timer mode	AUTO not selected or timer wrong set	Switch clock to AUTO and/or check programme.