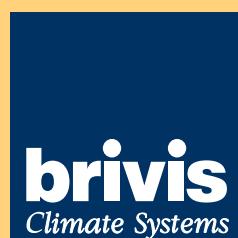


HEATING

Owner's Manual



PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE USE



Australia's favourite climate systems

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Introduction

Congratulations on your purchase of a Brivis heating system. For you to achieve the performance and efficiency expected from your new heater, ensure the installer is a qualified trades person, that the installer has commissioned the unit before you commence operating, and you take the time to read the contents of this manual.

In some Australian States it is mandatory that your heater installation is issued with a certificate of compliance to guarantee the installation workmanship. Please check with your installer or the local plumbing authority or association. The Brivis heater is covered by the warranty as outlined in this manual.

Brivis products are renowned for providing years of trouble-free performance. However that doesn't mean that they will operate at their peak for all of that time without some attention. To be at their most efficient they, like most things, need a little care. So, to ensure that every Brivis unit is always in perfect condition, we have established the Brivis Customer Care Program for our valued customers.

The Brivis Customer Care Program provides you with a maintenance service. This service includes cleaning the unit and ensuring that the system is operating at maximum efficiency. Not only does this guarantee peak performance, it also allows any minor problems to be detected early. This ensures that the system will always be ready when you need it.

Privacy Notification

Carrier Air Conditioning Pty Ltd ("Carrier") is the registered owner of the Brivis brand. Carrier will collect "personal information" from you when you complete your warranty and maintenance registration form. This personal information is collected under the guidance of the Privacy Information Protection Act 1998. The purpose of collecting this information is to:

- Process your request for us to provide service activities for you;
- Register your purchase of equipment for warranty;
- Register your request for a survey/quotations for Heating Ventilation Air Conditioning goods and services.

The intended recipients of the information are:

- Employees of Carrier.
- Federal and State Governments who may require the information for administration purposes.

While the supply of the information by you is voluntary, if you cannot provide or do not wish to provide the information sought, Carrier may not be able to provide the services you request. If you have already provided information but have changed your mind and do not want the information used, you may make application for access or amendment for that information not to be used.

You have a right of access to, and correction of, the information concerning yourself in accordance with the relevant procedures under the Act.

Enquiries concerning this matter can be addressed to the Business Practices Officer of Carrier, who can be contacted on (03) 9264 9555.

How does ducted heating work?

Your Brivis system consists of three major components; a heater, a ductwork system and a wall control.

The heater draws air out of the house through a large, centrally located return air duct into your heater where it is warmed. Once heated, the air is then distributed throughout your house via a network of smaller ducts and released into each room through floor or ceiling outlets.

The entire process is controlled by your wall control, which is usually positioned in the living area on an internal wall and away from windows and doors if possible. We recommend that you use the following guidelines to get the best performance from your heater and maximise its efficiency:

- Making sure your home is well insulated such as wall-to-wall floor coverings, drapes, pelmets and even wall insulation can help reduce your energy consumption.
- By turning your heater off at night and on again in the morning, you'll save energy and lower your gas bill.
- Keep the temperature setting low if you are active in the house. Normal operating temperature should be around 17°C to 21°C.
- Do not leave external doors and windows open.
- Fumes from candles, fragrant oil burners, cooking or smoking may be drawn into the system (especially if the Return Air inlet is in the ceiling) and can cause staining around the heating outlets. Installing an Electronic Air Filter in the Return Air will help to avoid this problem.

Just follow these few guidelines and your Brivis Central Heating System is sure to provide you with many years of warmth and satisfaction.

Operating your ducted heater

- Ensure your wall control is set at the OFF position.
- Ensure that the gas supply tap, adjacent to the unit is turned ON.
- Turn ON the 240V power supply at the power point located near the heater, ensuring the plug is firmly located in the socket.
- Now go to the Wall Control and turn it ON, the heater may now be operated from the Wall Control.

If the unit has never been operated before, or has been shutdown for an extended period of time or after any interruption to the gas supply, it may take several attempts to start the heater, as air may need to be purged from the gas pipe. All heater models (except LPG Classics) will automatically perform up to four re-ignition attempts before locking out. LPG Classic models will only perform one ignition attempt before locking out.

- StarPro Plus/Max models will display a 'busy' code at the top of the Networker display during these ignition re-attempts and if the unit locks out, a spanner will appear. Refer to section on coded messages (Page 9). Reset may need to be pressed several times, depending on how long it takes to purge the air from the gas pipe.
- Classic models that have not started to blow warm air after 8 minutes will require a reset. To do this, turn the Wall Control OFF, and then wait for 2 minutes before turning the Wall Control back ON. You may need to do this several times, depending on how long it takes to purge the air from the gas pipe.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

Supply Cord

If the supply cord is damaged, it must be replaced by Brivis, an authorised service agent or similarly qualified persons in order to avoid a hazard.

Notes on Heater Operation

When the heater is first turned ON, there will be a delay before warm air is delivered from the duct outlets. Allow approximately one minute for the burners to generate heat, before waiting for the fan to start. This process ensures that the air delivered into the house is warm. With any ducted heating system it is not unusual to see vapour discharging from the flue terminal when the unit is in operation. The flue terminal may be hot during operation. Brivis has preset and tested your unit on a typical system setting, however your Installer may have varied the fan speed settings to suit your installation. Please consult your installer to set the heater to suit your individual needs. The Brivis Network controls within StarPro Plus/Max heaters will automatically adapt the heaters output to suit the number of outlets that you have open. Check the Outlet Guide for the appropriate number of outlets you must have open for best performance.

Power supply interruption

If the power supply is interrupted during the heater's operation, safety mechanisms turn off the gas supply. When the power is restored, the heater will resume normal operation. If the power is off for more than 2 - 3 hours and the heating system is fitted with the Networker wall control, it may require the time and day to be reset.

Outlet Guide

The outlet chart provides recommendations based on using the Brivis "SuperSizeGuide" or a system designed using accepted design principles. These figures also relate to typical size registers and diffusers used on domestic heating systems i.e. 300 mm x 100 mm floor registers and 150 mm round ceiling diffusers, with 150 mm ductwork connection. For all systems, a minimum number of outlets must remain fully open (this includes both the outlet grille and the damper in the duct) if the heater is to operate properly without overheating. Similarly, ceiling outlet systems have a maximum number of outlets that can remain fully open, to ensure that the velocity through each outlet is sufficient. These maximum ceiling outlet figures relate to fully open outlets, however, the system will operate efficiently with more outlets open, if it has been properly balanced. There is no maximum number for floor outlets, so the chart below lists the typical number of floor outlets for each heater model.

The outlet chart has been divided up into four columns as follows:

- The maximum number of outlets that should remain fully open for a ceiling outlet system.
- The typical number of outlets for a floor outlet system.
- The minimum number of outlets that should remain fully open for floor/ceiling systems where the system does not have zone dampers installed or, where there are zone dampers but these zones are not operated from a Networker wall control (e.g. wall switches).
- The minimum number of outlets that should be fully open for floor/ceiling systems where the system has zone dampers installed, and these zones are being operated from a Networker wall control using the heater's on-board zone relays or a Network 506 module. Systems fitting this description are deemed to have Adaptive Zoning active, hence minimum outlet numbers are reduced. Where it shows half figures such as 1.5, it is possible to operate with 1 outlet fully open, and another outlet half closed (such as a bathroom).

***Note:** Column D only applies to StarPro Plus/Max heaters and should not be used unless the Networker has been configured for Adaptive Zoning only. Refer to column C instead.

Note: For StarPro Plus/Max Internal models, the normal pop configuration is side entry, but can be changed to the end of the fan cabinet if necessary. If this is done, a total of two outlets must be removed from the allowable maximum number of outlets.

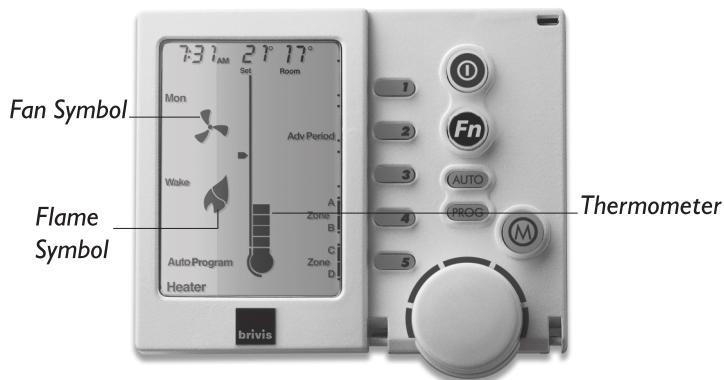
Outlet Register Chart

System Model	Airflow Rate (L/s)**	A Maximum Ceiling	B Typical Floor	C Minimum Floor/Ceiling	D* Minimum Floor/Ceiling (Adaptive Zoning Only)
StarPro Plus/Max Heaters					
External					
HX30E	955	15	23	7	3
HX30E-XA	975	17	23	7	3
MX30E	960	16	23	7	2
MX30E-XA	965	17	23	7	2
HX22E	695	12	12	5	2
HX22E-XA	720	13	12	5	2
MX21E	700	12	12	5	1.5
MX21E-XA	740	13	12	5	1.5
Internal					
MX35I	1160	17	24	7	2.5
HX30I	1055	16	22	7	3
HX30I-XA	1095	17	22	7	3
MX30I	1080	17	24	7	2
MX30I-XA	1140	17	24	7	2
HX22I	785	12	13	5	2
HX22I-XA	820	14	13	5	2
MX21I	785	12	13	5	1.5
MX21I-XA	830	14	13	5	1.5
Classic Heaters					
Buffalo - External					
B26	815	11	16	8	N/A
B26 XA	1060	13	16	8	N/A
B20	490	8	11	6	N/A
B20 XA	585	10	11	6	N/A
B15	490	8	9	5	N/A
2P Wombat - Internal					
2PW26	940	13	16	8	N/A
2PW26 XA	1025	15	16	8	N/A
2PW 20	590	11	11	6	N/A
2PW 20 XA	780	14	11	6	N/A
2PW 15	530	10	9	5	N/A
Upflow/Downflow - Internal					
U26	1050	13	16	8	N/A
U26 XA	1170	15	16	8	N/A
U20/D20	540	8	11	6	N/A
U20/D20 XA	605	10	11	6	N/A

****Note:** Airflow figures are based on a total static pressure of 125 Pa for 26, 30 & 35 models, and 50 Pa for other models.

The Networker Wall Control

Networker Components



Symbol	Description
	The On/Off Button This is the button to turn the Networker ON or OFF.
	The Function Key (Fn) The function key, when used in conjunction with keys 1 & 2, allows the user to perform specialised functions such as message repeating and Networker locking.
	The Mode Key If a Brivis Heater and Cooler are connected to the Networker, this key allows you to switch between them. When an appliance is selected, the mode of the appliance will appear at the bottom of the screen e.g. 'Heating'.
	Heartbeat A flashing heart icon in the bottom right hand corner indicates that the room temperature is being sensed from this Networker.
	Program Key This key has a permanent function written on it. This control key is used to set the Networker's automatic program.
	Auto Key This key has a permanent function written on it. The auto function allows the user to switch between the Auto Program and the Manual Operation.
	The Rotary Dial This Dial is used to change the Heating (or Cooling, if fitted) settings.
	Variable Keys The keys numbered 1-5 vary their function depending on the program or mode displayed. They will only have a function if text appears on the screen beside the key and in some cases a black rectangular box. Keys used for zone function may also display an arrow.
	Flame Symbol The flame symbol will appear on the display when the heater is switched on. This symbol will flash during cooldown at the end of the heating cycle.
	Fan Symbol The fan symbol will appear on the display when the heater is switched on. This symbol will flash during cooldown at the end of the heating cycle.
	Thermometer The thermometer on the display registers the current room temperature. Beside it is a small marker which indicates the temperature that the heater is currently set to maintain.
	Padlock Symbol When the child-proof lock has been set, a padlock will appear on the screen. For more information, refer to the section Locking the Networker (Page 11).
	Snowman Symbol (add-on air-conditioning only) The snowman symbol indicates the refrigeration compressor is running. A flashing snowman indicates the compressor is in a safeguard time off period.

The Display Screen

- Provides you with information about the system. The Screen shows the current time via a Digital Clock in the top left corner, the Day of the Week on the left-hand side, and the type of Appliance selected at the bottom.
- The display will also show scrolling messages across the top of the screen, which can display some of the unit's operational states.

Zoned Systems

An option for some systems is to divide the home into different zones. This can be done by using multiple heaters, or by using zone dampers that switch between different zones. These zone features (where installed) will have been set up and explained by the installer and can be operated in either 'Manual' or 'Auto' modes. Only the zones that have been installed and configured by the installer will be displayed and they will be labelled in order from Zone A to Zone D. Zones A & B are both operated by key number 4, while Zones C & D are operated by key number 5. Zones can be selected or deselected by pushing the corresponding key.

Zone operation is displayed by the use of symbols.

- If an arrow is beside a particular zone, then this zone has been selected for use.
- If no arrow appears beside a zone, then this zone has not been selected for use.
- If the arrow is solid, then this zone is open and receiving heating from the unit.
- If the arrow is flashing, then this zone has reached the desired temperature and has been closed.

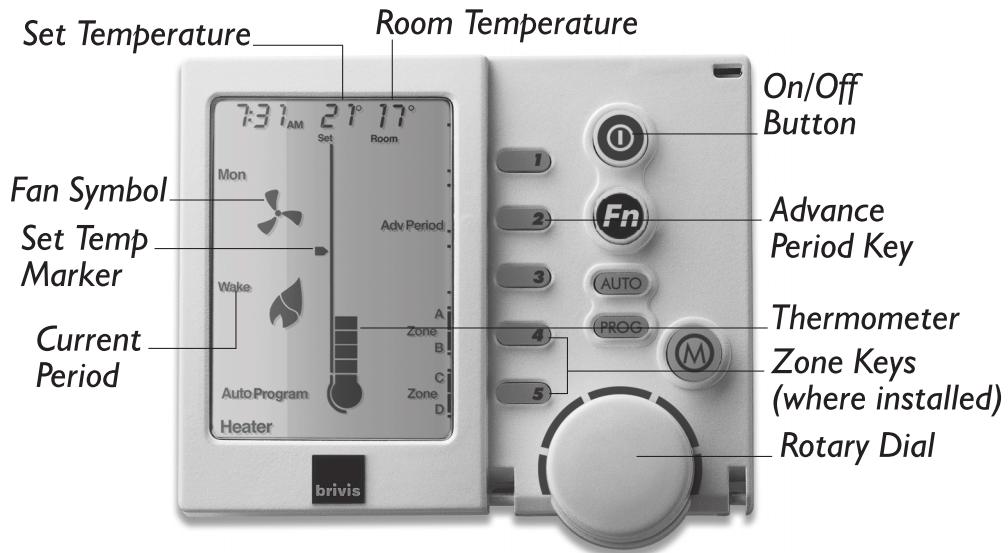
Setting the Time & Day



- Press the ON/OFF button to turn the Networker OFF.
- Press key 5 (clock) and the screen will display the message "Clock setting mode", and then the Digital Clock will flash.
- Use the Rotary Dial to select the correct time.
- To set the day, press key 1 (day) until the correct day of the week appears on the left of the screen, e.g. "Mon".
- Press key 5 (clock) again to save your new settings.

Note: If you have dual Networkers installed, only the Master control has the ability to set the clock time and adjust program settings. The Master control can be identified by the word "clock" beside key 5, when the Networkers are in the off position.

Automatic Operation



In Auto mode the Networker allows you to preset your heater to turn On and Off when you wake, leave, return and just before you sleep.

The first time you go into 'Auto', just follow these steps:

- Use the On/Off button to turn the Networker ON.
- Press the Auto Key until 'Auto Program' appears on the screen (if it's not already in 'Auto Program').

In 'Auto' mode the Networker has a pre-set Auto-Program, which is already entered into its memory. This Auto-Program covers the entire week. It is based on average operation and has the following combination of pre-programmed time periods and settings. Zoning options will also appear where zone features have been installed.

Period	Time	Heating	
Wake	6:00am	20	Set a time and temperature to start the system and pre-warm the house before you get up in the morning.
Leave	9:00am	— —	Set a time and temperature to turn your heater down or off, when you leave for the day.
Return	4:00pm	20	Set a time and temperature to switch the system on just before you reach home.
Presleep	9:30pm	20	This feature can be used to slightly increase, or decrease the set temperature, at the same time every night. If you have zoning options, 'Presleep' can be used to switch Heating in selected zones ON or OFF, e.g. to pre-warm the bedrooms before going to sleep.
Sleep	10:00pm	— —	Sets a time and temperature for the night, when everyone is asleep. It is recommended that the system be set to turn OFF (--) overnight, to save energy and reduce your gas bill.

To Begin the Auto Program

If the pre-set Auto-Program settings suit your lifestyle, then all you need to do is run the system in automatic operation by following these simple steps:

- If you have more than one type of appliance, turn OFF the Networker.
- Press the Mode key until the word 'Heater' appears at the bottom of the screen.
- Now turn the Networker ON. Press the Auto key until 'Auto Program' appears on the bottom left of the screen.

Temporarily Overriding the Auto-Program Settings

If these pre-set Auto-Program settings do not suit your lifestyle, you may want to temporarily override them. To temporarily override the Auto Program complete the following steps:

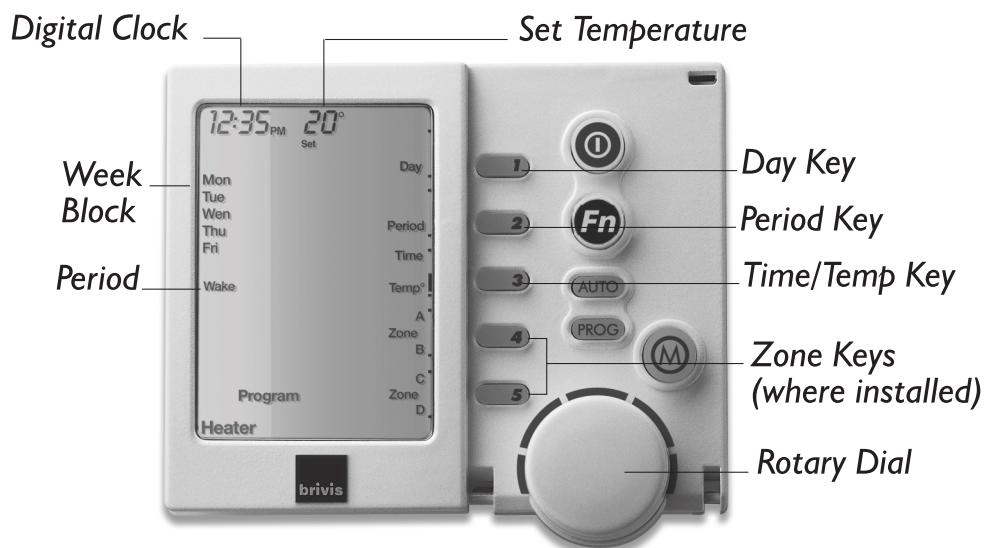
- Use the Rotary Dial to increase or decrease the current temperature setting.
- The word 'Temporary' will flash at the bottom of the screen until the current period ends.
- Key 2 (advance period) has now become the 'Cancel' key. Press it to return to the Auto Program.
- If you have zoning options, altering the zone settings will also result in a 'Temporary' change.

Note: The Networker will revert to Auto program after the current period ends.

You may wish to skip to the next period i.e. Wake to Leave. This can be done by completing the following steps:

- Press Key 2 (Adv Period)
- Key 2 (Adv Period) has now become 'Cancel Adv Period'.
- To return to the original program press Key 2 (Cancel Adv Period)

Permanently Changing the Auto-Program Settings



If your lifestyle doesn't match the pre-set Auto Program, you can change the settings to suit your requirements.

- Turn the Networker OFF and check that you are in heating mode. If you are not, press the Mode key until the word 'Heater' appears.
- Press the Prog key and you'll notice that the word 'Program' and the Digital Clock at the top of the screen will begin to flash. The Prog key enables you to change the time or the temperature for any period.
- When changing the settings, the Networker combines all the weekdays into one block and both days of the weekend into another block. These are listed on the left of the screen. To select the block that you want to change the settings for, press key 1 (day). This selects either the weekday block or the weekend block.
- To select the time period you want to change the settings for, press key 2 (period) until the required period is displayed.
- From here, you can change the Set Time, Set Temperature or change the zone settings (if you have zone features installed) for a particular time period. Please read on....

Permanently Changing the Set Time, Temperature or Zone Settings

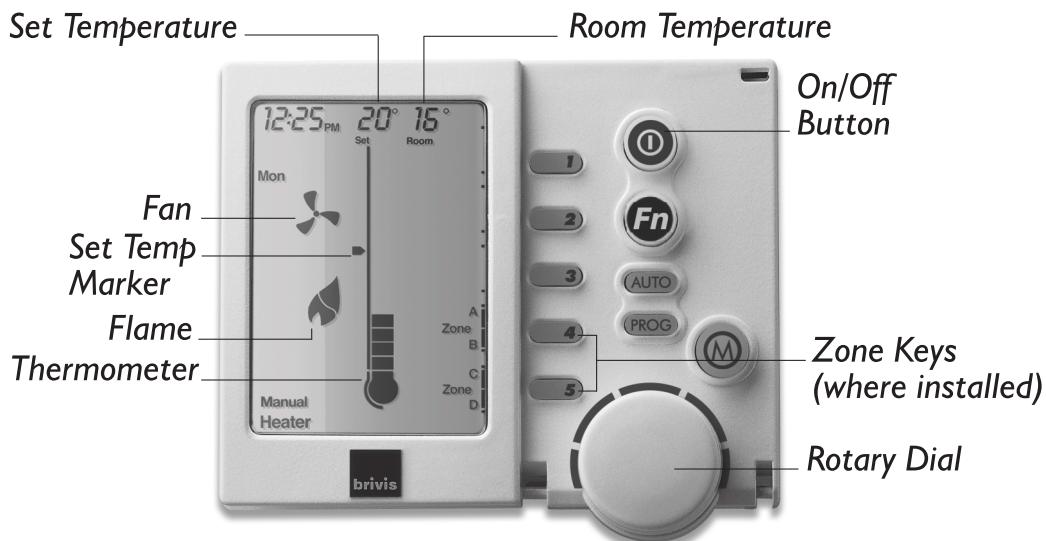
Before starting this, you should have completed steps in 'Permanently Changing the Auto Program Settings' section.

- To change the set time, press key 3 (Time/Temp) until 'Time' is selected and the digital clock will flash. Turn the Rotary Dial until the digital clock shows the set time you require for the period of the day selected.
- To change the set temperature, press key 3 (Time/Temp) until 'Temp' is selected and the temperature will flash. Turn the Rotary Dial until the temperature shows the temperature you require for the period of the day selected.

Note: Selecting a Set Temperature of (- -) will turn the heater OFF for that period. To change the zone settings (if zones are fitted), use the Zone keys (keys 4 & 5) to select the zones you wish to operate for that period.

- To change the set time or temperature in the other periods, press key 2 (period) until the required period is displayed, then select the function you want to set (time or temperature) and use the Rotary Dial to make the settings. To change the Zone settings, use the Zone keys (keys 4 & 5) to select the zones you wish to operate for each period.
- Using key 1 (day), select the second block of days you want to change the settings for and repeat the previous steps.
- To save the new settings, press the Prog key.
- If you want to review your new settings, press Prog again. The new settings should be the ones you have just saved.
- Press Prog again to end your review.

Manual Operation



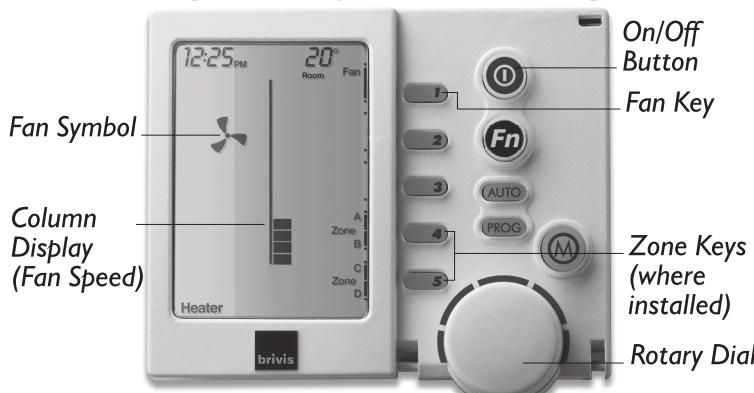
- Use the On/Off button to turn the Networker OFF.
- If you have other appliances on the network, press the Mode key until the word 'Heating' appears at the bottom of the screen. If you have the Networker ON while switching between appliances you could start the wrong one inadvertently..
- Turn the Networker ON and press the Auto key until 'Manual' appears near the bottom left-hand corner of the screen.
- The heater's Set Temperature will now appear at the top of the screen. The current Room Temperature is still visible in the top right hand corner of the screen.
- This Set Temperature is the temperature the heater is set to maintain. To change it, use the Rotary Dial to select the temperature you require.

If the temperature in the room is already warmer than the temperature that you have just set the heater to maintain, it will not switch on until the room temperature falls below the set temperature. If you have zone features installed, Zone keys (keys 4 & 5) will also appear on the lower right hand side of the screen.

- To change the zone settings, use the Zone keys (keys 4 & 5) to select the zones you wish to operate.
- To turn the system OFF, just press the On/Off button.

Note: The Networker remembers your last settings, and goes back to them the next time you select manual operation.

Operating the Fan Only



Another benefit of a central heating system is that its fan and ductwork system allow you to improve the quality of the air in your home. For example, in homes where there are asthma sufferers, air quality devices such as Electronic Air Filters can be fitted to clean the air. To use them, or to simply circulate the air in the house, the fan can be made to run continuously.

If the Networker is OFF:

- Press the Mode key to select 'Heating'.
- Press key 1 (fan). A small rotating Fan Symbol and a Column Display, that indicates the fan's speed, will appear.
- Now use the Rotary Dial to increase or decrease the fan speed (StarPro Plus/Max only).

Note: The Networker's capabilities are somewhat restricted when fitted to a Classic Series Heater. Although it appears that the Networker provides the option to either increase or decrease the fan speed, the fan will run at full speed regardless of your Dial setting.

If the Networker is ON, and is already in 'Heating' mode (StarPro Plus/Max only):

- Press key 1 (fan) and the fan will operate continuously.

In this mode, the fan continues to operate between heating cycles, but its output is controlled by the heater. The fan speed will be low and constant, and can only be adjusted by a Brivis Service Technician.

- To turn the fan OFF, press key 1 (fan) again.

If you have zone features installed, Zone keys (keys 4 & 5) will also appear on the lower right hand side of the screen and the zone settings can also be altered at this point.

Coded Messages (StarPro Plus/Max models only)



While the Networker is operating your system, it is also monitoring and controlling every aspect of the system's performance. If anything unusual occurs, the Networker will display a spanner symbol.

- Press the FUNCTION button followed by key 1 and a message stating "Heater Fault - H01 Code #?? For assistance call 13 26 65" will scroll across the top of the Screen. **Note:** The message will vary depending on the problem.
- Whenever such a message appears, it is a good idea to write it down before doing anything else. This code contains information that will enable Brivis to deal quickly and easily with anything that requires their attention. Most will ask you to contact Brivis Service and pass on the message, the model and the type of appliance. Refer to error codes on page 10 of this manual.

Message repeating

- Push the FUNCTION button then Key 1 quickly after to repeat a message.

Note: If no message repeats it means either the button combination was incorrect or the event has passed. The messages that may be displayed could be advising of appliance operations or faults.

Error Codes - StarPro Plus/Max Models

The following is a list of faults customers can rectify safely. If the faults continue it is advisable that you contact Brivis Service.

Error code 40, 41, 42 & 43

These errors indicate an overheat condition has occurred. The heater's fan will be forced to operate at maximum speed.

Check List:

- Check there are sufficient outlets open on the duct system.
- Check that the floor/ceiling register and baffle is fully open and not restricting air movement.
- Check the return air filter (if fitted) is sized correctly and is clean and no obstructions have been placed in front of the return air intake.

Error code 46, 47 & 55

Indicate that the unit has failed to light within the specified time.

Check List:

- Check the gas supply is turned ON at the meter, and at the appliance gas cock.
- Check if other gas appliances are operating such as Gas Cooker and Hot Water Service (if installed).
- Check the gas cylinders have gas, and the cylinder valve is open (LPG only).
- Check that there is gas supply to your home. Contact your gas provider to confirm this. There may be works in your area or a problem with the supply.
- The unit may require a general service.

Error code 50

Error 50 indicates the unit has locked out after 4 ignition attempts. This error can be reset by using the reset button to restart the heater, but the unit will probably lockout again if the condition has not been rectified.

Check List:

- Refer checklist for error 46, 47 & 55.

Error code 56

Error 56 indicates a lockout has occurred on the pressure switch, usually caused by too much restriction on the flue pipe or condensate drain on StarPro Max models.

Check List:

- Check the flue way for blockages
- Check the condensate piping for blockages (StarPro Max Models only).

Any other Error Codes that appear on the screen could indicate the unit is not operating due to a malfunction or fault with the electronic control module. This error may be reset at the power supply. If the error continues to appear, contact Brivis Service.

Resetting the Heater

StarPro Plus/Max Models

If something has interrupted the unit's operation, the word 'Reset' could appear beside Key 4 while a message is scrolling across the top of the screen. Press Key 4 to re-start the unit. If the unit does not resume normal operation or the error message re-appears, contact Brivis Service. If the unit is still operating but the Networker is showing an error message with the service symbol, try pushing the reset key 4 to clear the fault. If any other message appears, contact Brivis Service.

If the fault persists, use the On/Off button to turn the Networker OFF and then wait for 2 minutes before turning the Networker back ON. This may reset the unit and restore it back to normal operation.

If the fault still persists, you can try turning OFF the power supply to the unit at the power point located adjacent to the heater. Leave this off for approximately 1 minute and then turn the power back ON. If normal operation still does not resume, call Brivis Service and inform them about the nature of your problem, the model and the type of appliance.

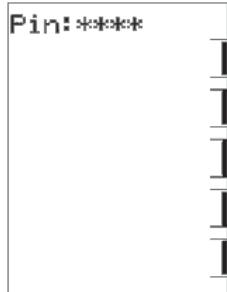
Classic Models:

If your Networker display screen indicates normal operation i.e. solid flame symbol and rotating fan symbol, for more than 8 minutes without any actual operation of the heater (no fan or heat), then something minor may have interrupted the unit's operation. Try turning the Networker OFF, then back ON as described above. If the fault persists, try turning OFF the heater and back ON as described above.

Locking the Networker

To prevent any unwanted alterations being made to the Heater's settings, the Networker can be locked via a 4-digit PIN number. In the case of dual Networkers, if one is locked the other is also locked. If dual networkers are installed, the user PIN numbers can only be set from the Master Networker. The Slave Networker can only lock and unlock the system and cannot access the PIN numbers.

Setting the PIN Numbers



- Press the **FUNCTION** button, followed immediately by **Key 2**. The screen will then display "Enter Your PIN number to lock the system". DO NOT enter numbers at this stage, please continue to the next step.
- Push the **MODE** key once. The screen will now display "User PIN number reset – Enter master PIN number". DO NOT enter numbers at this stage, please continue to the next step.
- Push the **MODE** key once again. The screen will now display the message "User PIN number 1 alteration - Enter current PIN". If this is the first time for setting the PIN numbers the current PIN will be "1111". If the PIN has been previously altered then enter your current PIN.
- The screen will then display the message, "Enter the new PIN".
- Enter your new 4-digit PIN number using a combination of Keys 1-5. The screen will now display, "Repeat the entry of the new PIN".
- Providing you re-enter the new PIN correctly, the screen will now display "Valid PIN – PIN altered".
- If an incorrect number is entered press the auto key to clear all digits, then re-enter your user PIN number.
- To exit this area at any time, just push the **ON/OFF** key.

To Lock the Networker

- Press the **FUNCTION** button, followed immediately by **Key 2**. The screen will now display "Enter Your PIN number to lock the system".
- Enter your current user PIN number to lock the Networker. The screen will now display "System locked out!"
- If an incorrect number is entered, press the auto key to clear all digits, then re-enter your PIN number.
- A flashing padlock icon indicates that the Networker is locked.

To Unlock the Networker

- Press the **FUNCTION** button followed immediately by **Key 2**. The screen will now display "Enter Your PIN number to unlock the system".
- Enter your current user PIN number to unlock the Networker. The screen will now display the message "System unlocked!"
- If an incorrect number is entered press the auto key to clear all digits, then re-enter your PIN number.

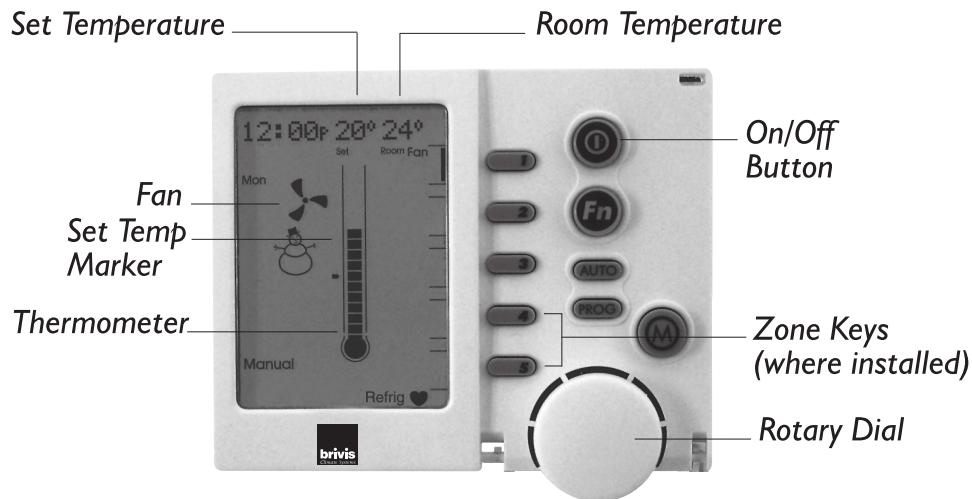
Note: If an invalid PIN is entered, the message "Invalid PIN entered - Try again" will scroll across the screen. The user has three attempts at entering a valid PIN number. On the third failed attempt the message "Invalid PIN entered!" will be displayed. At this point the Networker will abort the PIN entry screen, and return to its original state. You will then need to repeat the process.

Dual Networker Operation

It is possible to have two Networkers connected to the system. The two Networkers will operate together, one will be configured as a Master and the other a Slave, and the settings for the Heater will be common on both controllers. The benefit of having two controllers is the convenience of making adjustments to the Heater settings. If an adjustment is made on one of the Networkers it is immediately reflected on the other Networker. When locking one of the Networkers the other one will also be locked, and the system can be unlocked at either Networker. The Networkers can be set up as remote temperature sensors when used with zoning. Ask your installer for more information.

Note: If you have dual Networkers installed, only the Master control has the ability to set the clock time and adjust program settings. Look for the word "clock" beside Key 5, while both the Networkers are in the off position.

Operating Add-On Air Conditioning (StarPro Plus/Max models only)



If your Brivis central heating system has an add-on air-conditioning unit attached, the Networker operates in exactly the same way for the air conditioning as it does for central heating. To operate add-on air-conditioning, just follow the preceding heating instructions and note these few points of difference:

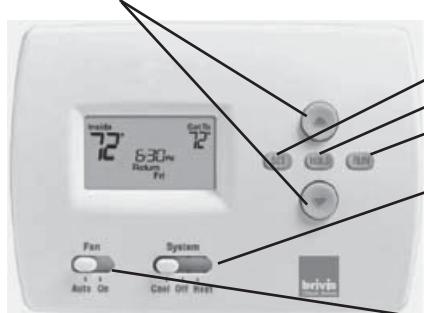
- When selecting the operation mode, use the Mode key to select 'Cooling'.
- When the air-conditioning system is in operation a Snowman symbol is used to indicate that the refrigeration unit is operating and the Fan symbol indicates that the fan is operating. If the Snowman is flashing this means the refrigeration unit is in a delay period and will commence shortly.
- To operate the fan only, follow the same steps as mentioned previously but use the Mode key to select 'Cooling'.
- To operate the Auto Program, follow the same steps as previously mentioned but use the Mode key to select 'Cooling'.
- The relationship between Room Temperature and the Set Temperature is reversed. The air-conditioner will operate to bring the room temperature down to the temperature you have set, not up to it.

Batteries

The Networker requires no batteries. If the Networker has no display, check your 240volt power supply or thermostat cable.

Programmable Wall Control Quick reference to controls

Temperature adjustment



- **Set:** Press to set time/day/schedule.
- **Hold:** Press to override programmed temperature control.
- **Run:** Press to resume program schedule.

System switch

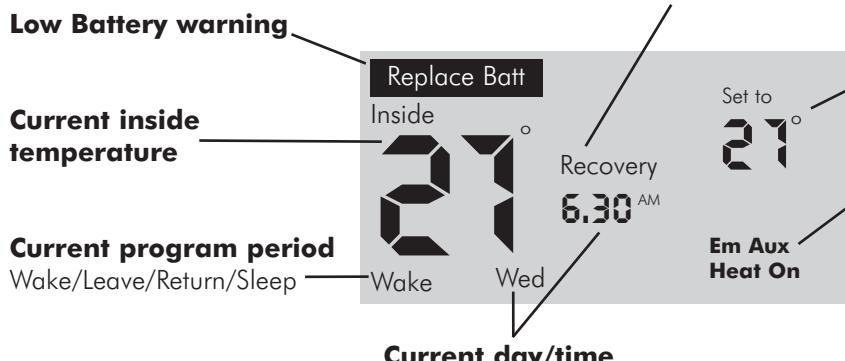
- **Cool:** Cooling system control.
- **Heat:** Heating system control.
- **Em Heat:** Emergency & Auxiliary Heat control. Compressor is locked out (Select models only).

Fan Switch

- On:** Fan runs continuously.
- Auto:** Fan runs only when heating or cooling is on.

Quick reference to display screen

Adaptive intelligent Recovery



Low Battery warning

Current inside temperature

Current program period

Wake/Leave/Return/Sleep

Temperature setting

System status

- Cool on:** Cooling system is on.
- Heat on:** Heating system is on.
- Em:** Emergency heat is on. **
- Heat on:** Auxiliary heat is on.

** Only for heat pumps with this capability (select models only).

Set the time and day

1. Press the SET button, then press **▲** or **▼** to set the clock time.
2. Press the SET button, then press **▲** or **▼** to select the day of the week.
3. Press RUN to save & exit.

Note: If the display flashes Set Clock, the thermostat will follow your settings for the weekday "Wake" time period until you reset the time and day.

System Switch

The system switch can be set to control your heating or cooling system, depending on the season.

- **Cool:** Cooling system control.
- **Off:** All systems are off.
- **Heat:** Heating system control.
- **Em Heat:** Emergency & Auxiliary Heat control. Compressor is locked out. (Select models only).

CAUTION: EQUIPMENT DAMAGE HAZARD

Do not operate the cooling system when outdoor temperature is below 10°C.

Fan Switch

Set the FAN switch to AUTO or ON.

In AUTO mode (the most commonly used setting), the fan runs only when the heating or cooling system is on.

If set to ON, the fan runs continuously. Use this setting for improved air circulation, or for more efficient air cleaning.

Note: This facility can be added, however you need to ask the installer to make the connection when installing the system.

Save money by setting program schedules

It's easy to program your system for maximum energy savings. You can program four time periods each day, with different settings for weekdays and weekends.

WAKE 21° Set to the time you awaken and the temperature you want during the morning, until you leave for 6.00am the day.

LEAVE 16.5° Set to the time you leave home and the temperature you want while you are away (usually an 8.00am energy saving level).

RETURN 21° Set to the time you return home and the temperature you want during the evening, until bedtime. 6.00pm

SLEEP 16.5° Set to the time you go to bed and the temperature you want overnight (usually an energy saving 10.00pm level).

Energy Star settings for maximum cost savings

This thermostat is pre-set to use Energy Star program settings. We recommend these setting, since they can reduce your heating/cooling expenses.

	Heat (Mon-Fri)	Cool (Mon-Fri)	Heat (Sat-Sun)	Cool (Sat-Sun)
Wake (6:00am)	21°C	24°C	21°C	24°C
Leave (8:00am)	16.5°C	28.5°C	16.5°C	28.5°C
Return (6:00pm)	21°C	24°C	21°C	24°C
Sleep (10:00pm)	16.5°C	25.5°C	16.5°C	25.5°C

To adjust program schedules

1. Press SET until Set Schedule is displayed.
2. Press **▲** or **▼** to set your weekday Wake time (Mon-Fri), then press SET.
3. Press **▲** or **▼** to set the temperature for this time period, then press SET.
4. Set time and temperature for the next time period (Leave). Repeat steps 2 and 3 for each weekday time period.
5. Press SET to set weekend time periods (Sat-Sun), then press RUN to save & exit.

Note: Make sure the thermostat is set to the system you want to program (Heat or Cool).

Note: To cancel an unwanted time period (except Wake), press and hold **▲ + HOLD** for 4 seconds while in the Set Schedule mode.

Program schedule override (temporary)

Press **▲** or **▼** to immediately adjust the temperature. This will temporarily override the temperature setting for the current time period.

The new temperature will be maintained only until the next programmed time period begins. For example, if you want to turn up the heat early in the morning, it will automatically be lowered later, when you leave for the day.

To cancel the temporary setting at any time, press RUN.

Program schedule override (permanent)

Press "HOLD" to permanently adjust the temperature. This will override the temperature settings for all time periods.

The "HOLD" feature turns off the program schedule and allows you to adjust the thermostat manually, as needed.

Whatever temperature you set will be maintained 24 hours a day, until you manually change it, or press RUN to cancel "HOLD" and resume the program schedule.

Battery replacement

Install fresh batteries when the REPLACE BATT warning begins flashing. The warning flashes for about two months before the batteries are depleted.

Replace batteries once a year, or before leaving home for more than a month. If batteries are inserted within one minute, the time and day will not have been reset. All other settings are permanently stored in memory, and do not require battery power.

Pull at bottom to remove thermostat from wallplate.

Turn thermostat over, insert fresh AA alkaline batteries, then reinstall thermostat.

Manual Wall Control

Operating the heater

The temperature displayed on the screen is the current room temperature.

Turn the thermostat ON by pressing the OFF button for approximately 2-3 seconds.

Note: The word OFF will disappear from the bottom left hand corner of the screen. (Refer figure A).

Press the **▲** or **▼** arrows to adjust the temperature.

Note: For the heater to turn on, the set temperature must be higher than the current room temperature.

When the heater turns on, you will see a picture of a flame on the left hand side of the screen and you will hear a click. (Refer figure B).

Once the heater has reached the set temperature, the picture of the flame will disappear. When the room temperature drops below the set temperature level, the heater will automatically start again.



To turn the heater OFF press the OFF button for approximately 2-3 seconds.

Note: The word OFF will appear in the bottom left hand corner of the screen and you will hear a click.

Spanner

If a spanner appears in the top left hand corner of the screen, please call Brivis Service on 13 26 65 for assistance.

Batteries

If a battery appears in the top right hand corner of the screen, this indicates that the batteries require replacing. To replace the batteries remove the front cover of the thermostat. (Refer figure C).



On the backing plate will be two AA Alkaline batteries. Remove the batteries and insert 2 new **AA Alkaline only** batteries, making sure the top battery is inserted first, then replace the front cover.

Resetting

If the unit has not started blowing warm air after 30 minutes (during which the unit will attempt to light four times), then something minor may have interrupted the unit's operation. To reset the unit:

- Press the OFF button to turn the unit off, wait five seconds and then press the OFF button to turn the unit on. Do this three times within a minute to reset the unit.
- You will have to wait for up to 5 minutes before the unit tries another ignition attempt.

If this does not work, cycle the power to the unit by turning off the power supply to the unit at the power point adjacent to the heater, wait approx. 1 minute and then turn the power back on. Then repeat the above sequence of cycling the thermostat.

If this still does not restore the heater to normal operation, call Brivis Service on 13 26 65 (or Fax 1800 655 465) and inform our representative about the nature of the problem, the model and the type.

Heater Maintenance

The frequency of cleaning the heater will depend on local conditions, so an inspection should be performed regularly.

- Check that the power lead is in good condition. If it is damaged, call Brivis Service for assistance.
- If a Return Air Filter is fitted in the return air grille, it requires regular cleaning and should be checked every fortnight. A blocked filter will seriously affect the heater's performance and economical operation.
- If you wish to close the heater down for summer or holidays, just turn off the external gas cock and switch off the power to the heater.

On StarPro Plus/Max model External heaters ensure that:

- The flue terminal is in place whenever the unit is operating.
- The top panel is only ever removed by an authorised service technician or installer.
- The air intake (located at the burner end of the heater's roof panel) and flue terminal, are clear of leaves or obstructions.
- The condensate tube is clear. A blockage will seriously affect performance and may shutdown the heater. (Applies to StarPro Plus/Max models only).

Cautions

- Do not place articles on or against your heater.
- Do not use or store flammable materials near the heater.
- Do not spray aerosols in the vicinity of the heater while it is in operation.
- The controls access cover of the heater must be in place whenever the unit is in operation.
- Do not hose the flue terminal on external heaters.
- Ensure that the flue terminals on external heaters are kept clear of plant growth or any other obstructions.

Ductwork Maintenance

Brivis does not warrant any duct work or installation. Brivis recommends your ducts are cleaned every 3 years. Allergy sufferers may wish to have them cleaned more frequently.

Heater service

To ensure that your Brivis heater continues to operate at peak efficiency, it should be serviced at two year intervals by an authorised person trained in the service of Brivis heaters – please contact Brivis Service for authorised Brivis Service Technicians. Refer to the back of this manual for contact details. This service of the heating unit will include all maintenance and adjustments required to the following components to ensure your heater runs at its peak efficiency:

- Burners
- Ignition system
- Fan assembly
- Heat exchanger

Please note that to maintain your warranty, the above servicing needs to be conducted by an authorised person trained in the service of Brivis Heaters. Please contact our Brivis Service (13 26 65) for an authorised Brivis Service Technician.

Note: Service maintenance is not covered under warranty and is a chargeable service. All units must have safe and reasonable access and be installed in compliance with the installation instructions supplied with the unit. Some installations may require two service personnel to attend, in accordance with EH & S requirements.

Brivis Customer Care Program

Brivis products are renowned for providing years of trouble free performance. However that doesn't mean that they will perform at their peak all of that time without some attention. To be at their most efficient they, like most things, need a little care. So to ensure that every Brivis unit is always in perfect condition, we have established the Brivis Customer Care Program for our valued customers.

When you are a member of our Brivis Customer Care Program you will receive a courtesy call regarding maintenance service to your unit. This service includes cleaning the unit and ensuring that the system is operating at maximum efficiency. Not only does this guarantee peak performance, it also allows any minor problems to be detected early. This ensures that the system will always be ready when you need it.

TERMS OF WARRANTY

- Australia & New Zealand Definitions

The following words have meaning in these terms unless the contrary attention appears:

- "Carrier" means Carrier Air Conditioning Pty Ltd ABN 81 000 024 742.
- "Installation Site" means the site in which the Product is installed.
- "Purchaser" means the person named as purchaser in the warranty card of this manual.
- "Product" means the Brivis heater and Brivis ancillary components purchased by the Purchaser and described in the warranty card of this manual.

Warranty

Subject to the conditions below, the Product is warranted by Carrier to be free from defects in materials and workmanship for a period of 3 years following the date of purchase (the "Warranty Period"). Carrier also offers the Purchaser the option to extend the Warranty Period by a further 2 years on StarPro Plus/Max heaters only, which will bring the total Warranty Period up to 5 years (the "Extended Warranty Period"). In addition, the heat exchanger and burners in the heater are covered by a 10 year parts only warranty, provided that the Product is serviced every 2 years during that 10 year period by an authorised person trained in the service of Brivis heaters.

Conditions of the warranty:

1. During the Warranty Period, and Extended Warranty Period (if applicable), Carrier, or its service agent, will repair or replace at its option the Product or any part of the Product, which its examination shows to be defective.
2. Consumable items, including but not limited to, igniters and batteries, are not covered under this warranty.
3. The Product must be installed and operated in accordance with the instructions set out in this manual and current Australian Standards, Gas Installation, AS 5601.
4. The Product must be serviced and maintained every 2 years in accordance with the instructions set out in the Heater Maintenance section under Heater Service on page 17 in this manual.
5. This warranty does not cover loss or damage to the Product caused, directly or indirectly, by adverse environmental conditions including, but not limited to, power surges, electrical storm damage, incorrect power current and floods.
6. The warranty does not apply to Product that is connected to unsuitable voltages or gas supply pressures.
7. This warranty applies only to the original Purchaser and original Installation Site.
8. This warranty does not apply to any Product which has been installed in a portable building or structure.
9. This warranty does not apply to normal wear and tear or any service which is needed as a result of an accident, misuse, abuse or negligence.
10. The Purchaser must, where deemed necessary for safe work practice, pay all costs in respect of making the Product accessible for service personnel and associated parts.
11. A travel charge will apply for service calls beyond a 100km radius from an authorized service agent.
12. Any claims made under the terms of the warranty must be supported by the original invoice issued at the time of purchase or in the case of a newly constructed dwelling, a copy of the certificate of occupancy.
13. This warranty does not apply to any ancillary components of any installation such as: control wiring, ducting, pipe work, grille, register, diffuser and fabricated or added components.
14. This warranty does not apply to any Product which has been used for any purpose other than artificially heating or cooling the air within a building or room, so as to provide a comfortable environment for the persons occupying the building or the room.
15. This warranty does not apply to installations where electrics/electronics may be subjected to moisture/chemicals, for example, swimming pools or nurseries.
16. The extended warranty needs to be purchased from Carrier within 30 days of acquiring the Product at a cost of A\$300 (NZ\$400). If you wish to purchase the extended warranty, please complete the warranty extension form and return with your remittance in the reply paid post envelope.
17. Carrier and any related company will not be liable for any (i) special, incidental or consequential damages or loss, or (ii) damage or expense for personal injury, or (iii) loss or destruction of property arising directly or indirectly from the use or inability to use the Product or any of its parts, or the servicing of the Product.

Consumer Laws

1. Australian Purchasers have the benefit of conditions or warranties implied by the Trade Practices Act 1974, and nothing in this warranty has the effect of excluding, restricting or modifying these statutory rights.
2. For New Zealand purchasers, nothing in this warranty is intended to limit the rights you may have under the Consumer Guarantees Act 1993. The Consumer Guarantees Act 1993 does not apply if the product is acquired for the purposes of a "business" (as defined in the Act).

FOR SERVICE IN AUSTRALIA PLEASE CALL 13 26 65

FOR SERVICE IN NEW ZEALAND PLEASE CALL 0800 427 484

FOR SERVICE IN SOUTH AFRICA PLEASE CALL 011 704 6112

Warranty and Maintenance Registration

Brivis Customer Care Program

The Brivis Customer Care Program is designed to help you get the most out of your new unit.

We will write to you before each winter or summer season with some terrific discounted offers for preventative maintenance services which will keep your Brivis unit in great condition!

Would you like to join the Brivis Customer Care Program? Yes, please!

No Thanks

Please note: Preventative Maintenance Services are chargeable and not covered under your product warranty. Your unit needs to have reasonable and safe access and be installed in line with the installation instructions supplied with the unit. An extra charge may apply if Brivis is required to allocate two service personnel to enable compliance with safety regulations.

Heater Warranty Card Form

For Australia - please return in reply paid envelope.

For New Zealand - please return to Warmair, PO Box 38523, Wellington Mail Centre.

Site Details

Name _____

Postal Address _____

Site Address (if different to above) _____

State _____

Country _____ Postcode _____

Home phone no. () _____

Work phone no. () _____

Mobile phone no. _____

Heater Purchase Details

Heater Model _____

Date of purchase _____

Installation company _____

Serial No.

--

Heater Customer Questionnaire

Please tick the appropriate box.

- **Have you been given a certificate of compliance?** Yes No
- **Where is the heater located?** Outside Roof Cavity Under floor Cupboard On roof
- **If your unit is installed in the roof cavity, has a walkway, platform and fixed light (with switch at the roof access panel) been installed?** Yes No Not Applicable
- **If your unit is installed under the floor, has a fixed light (with switch at the access point) been installed?** Yes No Not Applicable
- **What type of wall control do you have?** Manual Programmable Networker
- **Did your installer explain to you how to operate the system?** Yes No

WARRANTY EXTENSION PLAN (STARPRO PLUS/MAX MODELS ONLY)

You are invited to extend your Warranty Term from 3 years to 5 years by filling in the WARRANTY EXTENSION FORM enclosed with payment for A\$300 (NZ\$400).

This warranty is subject to the terms and conditions as set out in the Owner's Manual.

WARRANTY EXTENSION FORM

Name _____

Address _____

State _____ Country _____

Postcode _____

Home phone no. () _____ Work no. () _____

Mobile no. _____

Cheque Money Order Mastercard Visa

Credit card no: _____ Expiry Date: ____ / ____

Cardholder Name _____ Cardholder Signature _____

Amount \$ _____

BEFORE YOU CALL FOR SERVICE OR ASSISTANCE ...

Service calls can often be avoided!

If you feel your heater is not operating properly, please check these possible causes first:

Problem

Action

An error message is appearing on the Networker (StarPro Plus/Max models)

Refer to the section "Coded Messages" on page 9 and follow the checks.

The Networker display is blank

Check the power point is plugged in and turned on to the unit. Check there is power to the power point with another appliance.

The unit is turning on and/or off when I don't want it to

Check the automatic settings in the Networker or Programmable wall control. Reprogram them if necessary or change to manual mode.

The heater will not turn on

Check the circuit breaker has not been tripped - if so, reset it. Reset the unit at the power supply. Check the gas supply is turned on at the heater and the meter. Is the set temperature higher than the room temperature?

There is a whistling noise

Check the return air and/or filter has been cleaned with a vacuum.

The fan is running continuously

Check that the fan only option has not been selected on the Networker or Programmable wall control. Check that sufficient vents are open. Check the return air and/or filter has been cleaned with a vacuum. Check the ductwork has not been crushed and/or collapsed, if so contact our Service Department.

There is no air coming out of some vents

Contact Brivis Service to place a service call.

The padlock is appearing on the screen

This indicates that the child proof lock has been activated. Refer to the section on "Unlocking the Networker" on page 12.

Frequently Asked Questions

Q. How often should the heater be serviced?

A. Brivis recommend the heater is serviced every 2 years to ensure it operates at peak efficiency.

Q. What is done in a service?

A. The following is done during a service:

- Clean burners.
- Check/adjust the ignition system.
- Check/clean the fan assembly.
- Check/clean the heat exchanger.
- Check the gas supply flow and lockup pressure.

Please note that to maintain your warranty, the above servicing needs to be conducted by an authorised person trained in the service of Brivis Heaters.

Q. How much does it cost to run my heater?

A. The cost of running a heater varies depending on the design of your house, i.e. window coverings, insulation, floor coverings, ceiling height, outlet/return air location, running time, other gas appliances. Also the cost of electricity and gas varies depending on the supplier and type of gas (NG/LPG), hence we cannot advise on the running cost of the heater.

Q. How can I reduce the running cost of my heater?

A. You could reduce the running cost in the following ways:

- Turn the heater off when you go to sleep and any other time heating is not required.
- Install insulation in the ceiling and walls.
- Seal gaps around doorways and windows.
- Make sure the return air and optional filter are clean.
- Make sure the wall control is located in a living area.
- Reduce the "set" temperature.

Q. Does my heater have a pilot light which needs to be lit?

A. No. New unit is electronic ignition. 2P Wombat, Buffalo, Downflow and Upflow models have a non-standing pilot which means the pilot light will only turn on when you turn the heater on.

Q. Can I have zoning on my heater?

A. Yes. StarPro Plus/Max models can have zoning which operates through the Networker wall control.

Q. Can I run cooling through the same ductwork as my heater?

A. Add-on refrigerative air-conditioning can run through the same ductwork as the heater. It uses the fan of the heater and the Networker or Programmable wall control.

Note: The ductwork may need to be upgraded to a larger size due to the increased airflow required. Contact an installer for more information.

Q. There is no air coming out of some of the vents. Can Brivis fix this?

A. Yes. Contact our service department to place a service call.

Q. How often does my return air filter need to be cleaned?

A. If a return air filter is fitted in the return air grille, it requires regular cleaning, and should be checked every fortnight. A blocked filter will seriously affect the heater's performance and economical operation.

Q. Can a filter be fitted to my return air?

A. A return air filter can be fitted but the size of the return air grille will need to be increased as the filter will restrict the airflow going back to the heater.

Q. Do my ducts need to be cleaned?

A. We offer a comprehensive duct clean and sanitize of your ducted system. Like any other part of your home, dirt, dust and other foreign particles can accumulate and breed in the ductwork and on system components which can be associated with recirculated air in ducted heating and cooling systems.

Q. What does duct cleaning entail?

- Remove dust from your heating system.
- Kill any potential dust mites living & breeding throughout your heating system.
- Remove odours from your heating system.
- Remove pet hair from your heating system.
- Help improve indoor air quality.
- Allergy sufferers may benefit from clean ducts.
- Assess if return air filter is installed (if installed clean).
- Clean return air grill & duct.
- Clean the heater's fan and assembly.
- Clean the supply air register and boots.

Q. Why use Brivis to have my ducts cleaned?

A. We now offer a full service & maintenance package on all aspects of your heating ventilation system. We are the manufacturer of the heating system and cover warranty on all works undertaken.

Q. How is the duct cleaning done?

A. The ducts are cleaned with brush technology, including high pressure vacuums. The system is sanitized with Tea Tree Oil.

Q. How often should the ducts be cleaned?

A. As a guide we recommend every 3 years. Allergy sufferers may wish to have the ducts cleaned more frequently.

Q. How much condensate does my StarPro Max model produce?

A. Approximately 2 to 3 litres per hour of condensate may be produced under continuous running conditions, depending on the size of the unit.

Q. On my programmable wall control I set the fan to ON but nothing happens. Why?

A. This facility can be added, however you need to ask the installer to make the connection.

For Brivis Service

Australia

Phone: 13 COOL (13 2665)
Fax: Toll free 1800 655 465
Internet: www.brivis.com.au
Address: 61 Malcolm Road,
Braeside Victoria 3195
Hours: 7.30am - 7.00pm Monday to Friday
8.00am - 2.00pm Saturday
Closed some public holidays.

New Zealand

Phone: 0800 WARMAIR or 0800 427 484
Fax: (04) 920 1674
Address: 69 Marsden Street, Lower Hutt
Wellington NZ
P.O. Box 38523
Wellington Mail Centre NZ
Internet: www.warmair.co.nz

South Africa

Phone: 011 704 6112 or 0861BRIVIS
Fax: 011 704 0022 or 011 704 6115
Address: Northlands Deco Park
Cnr Witkoppen Rd and New Market St
Randburg, Gauteng 2032
Internet: www.brivis.co.za



- Service & Repair your Brivis system
 - Duct Repairs and Cleaning
 - Grille Cleaning

Contact us on **13 COOL** and have one of our
dedicated technicians attend to your home.

Part Number: 21918
Patents Pending
April 2009

Information correct at time of printing and subject to change without notice.