

Traditional Fire Gas 800-1000-1200

Traditional Brick Built Open Gas Fire & Gas Burner Installation and Operating Instructions



Note: Brick Out Guide Details

When purchasing the fire bricks, the bricking guide will come with the bricks.

NOTE : Traditional open fires are the least efficient fires available and can lack in heat output.

Visit www.warmington.co.nz for specs, DWGs and PDF uploads of fires

Fire, flue system and instructions to comply with ASNZS 2918:2001 & Building Code C/AS1 7.5 Open Fires

Keep these instructions for further reference. Ensure that you have the correct and current installation details for the Warmington Fire.

Installation

The Warmington unit is to be installed by a certified Warmington installer or an approved NZHHA installation technician.

IMPORTANT

Read all the instructions carefully before commencing the installation. Failure to follow these instructions may result in a fire hazard and void the warranty.



COMPONENTS REQUIRED FOR CONSTRUCTION

Supplied as Trad. Gas Firebox	No:	NOT Supplied (sold separately)	No:
Traditional Firebox	1	Warmington Fluekit	1
Traditional Firebox Adaptor	1	Fire Bricks (H40) 75X115X230mm	Varied
		Other Sizes Available	
Gas Burner	1	Fire Brick Refractory Mortar	1
		Autoclaved Aerated Concrete (AAC) Heat cell Constructed on site	1
Caitec Venting System	2	Flashing System	1
*Caitec Steel Brick *Caitec Perf. Extension			
		Non Combustible Cladding	
Back Air Brick	1	(Promat-Superlux-Brick-Stone etc)	
		Fill /Crush (vermiculite etc)	
0		Aluminium Tape . 3M Scotch Brand	
•		Exhaust Sealant	
		Gas & Electrical Work Onsite	
		Fire / Flue kit / Flashing Installation	
		Installation of Brickwork	
		Council Permit	



GENERAL INFORMATION

Like the traditional brick back fires of yesteryear, the Warmington Traditional Fire is built with the experience and techniques of the past. These make a grand statement in the home. However, they can lack in efficiency. The gas version of the traditional fire benefits from the aesthetic appeal of a brick backed fire, while remaining convenient and simple to use. The gas version is installed with a wood flue kit and wood based clearances, so that the fire can be retrofitted to a wood fire at a later date without additional expense.

POINTS TO CONSIDER PRIOR TO INSTALLATION

Location of the fire:

Open fires are better located at one end of a room or area, as they project the heat away from their opening.

The Topography of the Land:

The slope and position of the land in relation to the home has a bearing on how the wind will interact with the fire and flue system. Care needs to be taken to ensure that the flue termination is in the correct position to maximise performance.

The Prevailing Wind.

Care needs to be taken to ensure that the flue termination is in the correct position, as wind gusts that hit the flue and cowl system may overcome the cowl and draught back down the flue into the home. This can be a combination of down draught and high pressure.

Pressure Differential, Venting & External Air into the Building:

All fires need air to burn and draw correctly. Kitchen fans, air conditioning units, high wind zones, and naturally forming draught spaces can all have an effect on the pressure differential from inside the building to the outside. A lower pressure in the building may induce a draught down the flue system and back into the building, causing the fire to smoke or spill into the building. Care needs to be taken at the design and installation stage to adequately vent the building to ensure that there is always a neutral or positive pressure at the fireplace and a negative pressure at the flue outlet (a mechanical system can be added to aid this if necessary). This will ensure that the draught in the flue system is always to the outside.

Wind Noise:

You may encounter wind noise in some installations. It is recommended to use an enclosed chase with a chimney pot to help reduce noise. There will always be some noise from the flue systems of all fireplaces.

"CAITEC" ROOM AIR REPLACEMENT TECHNOLOGY

Fitted in every Warmington traditional fireplace is Warmington's own "Caitec" technology. The Caitec system draws air from an external air source (outside the room) to ensure that the open fire has a steady supply of pre-heated combustion air. This maximises efficiency while maintaining a pressure equilibrium in the home, reducing the risk of back draughting.

The following references are used in this document for the Caitec system and venting requirements:

- 1. Air enters the cavity (and heat cell if one is used) through external vents in the surrounding structure. Excess air drawn in will cool the cavity structure.
- 2. The external air travels through the Caitec system within the firebox and enters the combustion chamber via two perforated air bricks (one on each side).
- 3. Combusted gases and particulates are exhausted through the flue system.
- 4. The excess air supply that entered the cavity (in 1), that has warmed and risen due to natural convection, exits through the vents at the top of the cavity (or through the liner and out of a venting cone in the case of venting through the flashing).





SERIAL NUMBER



GENERAL REQUIREMENTS

FLUED GAS APPLIANCES:

 All gas fires requiring Warmington Flue Systems shall be installed to the requirements of the current standards and shall be appropriately designed and constructed to permit safe and effective use. This appliance must be flued to the outside atmosphere. All Warmington fires must be Installed with a <u>minimum</u> of 3.6m of approved Warmington gas flue and liners.

GAS TYPE:

All gas fires shall operate safely on the gas type specified on the appliance and shall comply with the requirements of The Gas Act 1992.

ELECTRICAL REQUIREMENTS:

• All gas fire appliances installed with mains supplied electrical components for associated use with these appliances, and must comply with The Electricity Regulations 1993.

ELECTRONIC CONTROL SYSTEMS:

 Any gas fire appliance installed with manual or programmable electronic control system shall be tested and/or approved by a recognised person or Authority.

SEISMIC RESTRAINTS:

• All fires used for domestic and commercial purposes shall be firmly secured (unless defined as portable or mobile) to prevent dislodgement from their point of fixture or installation during seismic activity. Such restraint must be of a reasonable expectation.

GAS CONNECTION:

A gas certificate must be obtained for the installation and commissioning of this appliance and flue system. Check that the gas type specified on the
data plate is correct for the available supply (LPG or NG). A copper gas supply capable of supplying the correct MJ/h, should be brought into the
rear of the installation cavity through the hole provided. A flare nut is provided on the burner for gas connection to the appliance.

SAFETY CONSIDERATIONS

Your Warmington Traditional Gas fire operates on the principle of dual radiant and convected heat. It is important to observe the following precautions associated with the heating appliance.

- Do not cover or restrict the fireplace upper or lower vents in any way as this may result in a build-up of hazardous gases within the room.
- The fire is not intended for the drying of clothing, bedding etc
- Avoid installing this appliance in high traffic areas, strong draughts or near drapes or furniture
- The use of an approved fireguard is recommended for the protection of young children
- Avoid using aerosols when the appliance is operating
- Avoid anyone leaning against or lying directly in front of the fire while operating
- Do not place anything objects into or against the gas fire at any stage
- The fire may release a small amount of smoke on its first start up which may take 1 or 2 hours to dissipate. This is part of the curing process so ensure there is adequate ventilation within the room.
- Always use a registered gasfitter or electrician for installation and maintenance work.
- Always use certified gas cylinders that have been tested and are safe to use
- Never modify your gas appliance or its settings from those specified by the manufacturer

WHAT TO DO IF YOU SMELL GAS

- Open windows and doors
- Do not light any gas appliance
- Do not use any electrical appliance or switches
- Do not use the telephone in your home
- Leave the building; shut off the domestic gas supply valve (beside your meter)
- Call your gas supplier/gasfitter or the fire service for further advice.



INSTALLATION

Important Notes:

- This is a general installation guide only. Contact a "NZHHA Installer" for installation advice or go to <u>www.homeheat.co.nz</u>, then select <u>Members</u> & follow instructions to find a certified NZHHA SFAIT installer.
- Install to AS/NZS 2918:2001.
- Install to manufacturer's specifications.
- All new installations require a permit.
- For special requirements concerning materials (timber mantle and surrounds) within close proximity of Warmington products, please contact your local Warmington technical consultant or designated installer.

STAGE 1: FRAME CONSTRUCTION PROCEDURE FOR BUILDER

- Mark out flue centre on floor.
- Mark out heat cell clearance requirements.
- Construct framing or block surround according to relevant minimum dimensions as referenced on pages 6 to 9.
- After framing surround is complete, construct plinth to required height (see page 8 for details).

1.1 WARMINGTON TRADITIONAL FIREBOX DIMENSIONS

Description		TFG 800	TFG 1000	TFG 1200
Firebox width	Α	1040	1230	1440
Firebox height	В	1315	1315	1415
Firebox depth	С	735	735	835
Flange width	D	800	1000	1200
Flange height	Е	700	700	800
Adaptor height	F	405	405	480
Minimum Flue Height]
Flue height		3600		
Measured from top of adaptor		B + F	+ 3600	1



1.2 AUTOCLAVED AERATED CONCRETE (AAC) HEAT CELL DIMENSIONS

Description		TFG 800	TFG 1000	TFG 1200
Heat cell width	G	1240	1440	1640
Heat cell height	Н	1820	1820	1995
Heat cell depth	I	865	865	965
To centre of flue	J	539	538	589
Flue diameter	K	300	300	350
Liner diameter	L	400	400	450
Heat cell clearance width	М	1290	1490	1690
Heat cell clearance depth	Ν	890	890	990
Heat cell clearance height	0	2150	2150	2150
Heat cell panel thickness	Т	75	75	75
Chimney chase clearance	Х	500	500	550



1.3 TIMBER FRAMING & TRIM OUT DETAILS - HEAT CELL CLEARANCE

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Description		TFG 800	TFG 1000	TFG 1200
To centre of flue	J	539	538	589
Flue diameter	Κ	300	300	350
Liner diameter	L	400	400	450
Heat cell clearance width	М	1290	1490	1690
Heat cell clearance depth	N	890	890	990
Heat cell clearance height	0	2150	2150	2150
Hearth width	Ρ	1350	1550	1800
Hearth projection	Q	500	600	750
Chimney chase clearance	Х	500	500	550



Non-combustible cladding eg. 10mm promina board, 10mm Supalux, latex plaster etc. (not supplied).

Note:

Centreline of flue is NOT in centre of alcove



1.4 PLAN, FRONT ELEVATION & CROSS SECTION





50mm clearance from the flue liner to timber framing is required

1.5 BLOCK ENCLOSURE 1 (WITH AAC HEAT CELL)

Description		TFG 800	TFG 1000	TFG 1200
Hearth width	Р	1350	1550	1800
Hearth projection	Q	500	600	750
Block clearance width	R	1610	1610	2010
Block clearance depth	S	1000	1000	1200
Block enclosure height	U	2390	2390	2390
To centre of flue	V	639	638	689
Chimney chase clearance	Х	500	500	550

Note:

With AAC heat cell, timber framing can be in direct contact with brick alcove

Note:

Centreline of flue is NOT in centre of alcove

Note:

Two 100mm diameter vents (minimum) required at base of block for Caitec system and cavity venting. Venting to external air recommended. Cut holes in block structure as required.







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1.6 BLOCK ENCLOSURE 2 - WITHOUT AAC HEAT CELL

Description		TFG 800	TFG 1000	TFG 1200
Hearth width	Р	1350	1550	1800
Hearth projection	Q	500	600	750
Solid poured top width	RR	1590	1990	1990
Solid poured top depth	SS	1190	1190	1190
Block enclosure height	TT	2390	2390	2390
To centre of flue	UU	554	553	604
Chimney chase clearance	Х	500	500	550

Note:

Without Autoclaved Aerated Concrete (AAC) heat cell, timber framing & any combustibles to be spaced 50mm away from blockwork, all around until 2400mm height.

Note:

Centreline of flue is NOT in centre of alcove

Note:

Two 100mm diameter vents (minimum) required at base of block for Caitec system and cavity venting. Venting to external air recommended. Cut holes in block structure as required.





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1.8 HEARTH & PLINTH CONSTRUCTION DETAILS

Notes:

For combustible flooring an insulating hearth and plinth of 75mm Autoclaved Aerated Concrete (AAC) is required.

To keep finishing on hearth flush with the plinth, the plinth should be offset from the ground by the thickness of the finishing material.



STAGE 2: INSTALL PROCEDURE FOR NZHHA CERTIFIED INSTALLER AND BRICKLAYER

Note: Recommended order of operations only. Installation order may vary depending on nature of build and/ or availability of bricklayer.

- Fit firebox to plinth in correct position using seismic restraint flanges on sides of firebox.
- Bricklayer to install bricks. Refer to section 2.2 to install 'Caitec' system during brick out. If installing fire with optional log-lighter, follow additional instructions 2.3 and 2.4.
- Fill cavity at back of firebox (behind installed brickwork) with vermiculite fill/ crush
- Fit adaptor to firebox using supplied M8 bolts, nuts and washers. Ensure that exhaust sealant is used between fire and adaptor.
- Construct autoclaved aerated concrete (AAC) enclosure around traditional firebox.
- Insert grate. Grate dimensions are to be specified after brick out is complete.
- Fit flue system. See page 16 for details.
- Fit cowl and flashing system

	TF 800	TF 1000	TF 1200
Bags of vermiculite fill required	1	1	1

2.1 BRICKS & BRICK OUT DETAIL

The fire bricks are sold separately from the firebox. Purchase from an associated retailer. The bricking guide will come with the purchase of the bricks.

Brick size and refractory:

The standard brick out is the stretcher bond style. However, other styles can be bricked according to your liking. Some bricklayers prefer to us their own refractory. Please check with the bricklayer.

Bricks come in a standard size of 230 x 115 x 75mm. 25 mm and 40 mm thick bricks are available, at a higher cost however due to more bricks being necessary for the brick out.

The figures below show different pattern styles that are bricked with the standard brick size of $230 \times 115 \times 75$ mm.





Stack Bond Pattern









2.2 CAITEC SYSTEM AND BACK AIR BRICK INSTALLATION

The Caitec system ensures that pre-heated external air is available for combustion, improving efficiency while reducing the risk of back draughting.

Warmington requires that 2x 100mm diameter (or equivalent cross sectional area or larger) vents are used to extract outside air into the cavity (and into the firebox).

Such vents should be accounted for at the design stage, and should be placed below the elevation of where combustion occurs within the firebox. Locating the vents flush with the profile of the base of the firebox (or close to) is sufficient.

For the Warmington Traditional Gas fire, an additional artificial brick is supplied which is to be installed in the place of one of the bricks in the centre of the fireback. This is to provide an air channel for the gas and electronic feeds, which exit through the back of the firebox.

<u>To install:</u>

- For bricklayer: Lay up the base layer of bricks, first two layers of the wings, leaving a one brick gap in the side of the second layer of each wing, about 100 150mm forward of the front face of the fireback (or where the gas burner is expected to be placed). Additionally, lay up the first layer(s) of the fireback, leaving one brick's worth of a gap in the centre of the base (or where the gas feed is located).
- For the bricklayer or builder: Cut down the 'perf extensions', specific to the length required and taper of the wings.
- Place the two 'perf extension' pieces with the 'steel bricks' attached, in situ within the firebox. Mark out the outline of where the perf extensions butt up against the perf sides (on the internal sides of the firebox). Remove the extensions and cover the surrounding area of the perf sides with aluminium tape.
- Additionally, cover the perf extensions with aluminium tape before placing them back into the cavity.
- Place the "back air brick" in situ, so that the front face sits flush with the front face of the fireback.
- Complete brick out, bricking around the inserted artificial bricks
- Slide 'steel bricks' into place to complete Caitec installation (front face of steel bricks should sit flush with bricks).



1. Lay up base layer of bricks, as well as first two layers of wings and first layer of fireback



Mark up outline of perf extension in situ



Cover relevant area of perf sides, as well as perf extensions with aluminium tape



Completed brick out with Caitec and back air brick installed.



2.3 AAC HEAT CELL ASSEMBLY

The heat cell is constructed around the firebox, using 75mm Hebel aerated autoclaved concrete (AAC) panels. (2400x600x75) Power Panels are required for basic heat cell construction as shown in detail "Firebox with Hebel Surround".

*Visit www.warmington.co.nz site for AAC instructions (PDF download).

2.3.1 TFG 800 HEAT CELL ASSEMBLED



Note: Heat cell assembly details

When purchasing the AAC heat cell kit, the assembly guide will come with the kit.

Note:

If solid plastering the heat cell structure, it is recommended to use a fibreglass mesh with a latex plaster to minimise the chance of the plaster cracking. (see your plasterer for correct materials and applications).

Note : Two 100 x 100mm holes in the bottom back Hebel panels provide venting for Caitec air system.



*Note: If plastering the Heat Cell structure, it is recommended to use a fibreglass mesh with a latex plaster to minimise the chance of the plaster cracking. (See your plasterer for correct materials and applications).



STAGE 3: GAS BURNER INSTALLATION AND TESTING FOR GASFITTER

3.1 GAS SPECIFICATIONS

Tested to current gas standards: AS/NZS 5601:2010, NZS 5266:2014, NZS/AS 4558:2013, NZS/AS 3645

NOTE : All test pressures are tested by an independent test lab Inlet pressure not to exceed 4.0 kPa

MODEL	TFG 800	TFG 1000	TFG 1200
LPG			
Nominal Pressure kPa	2.75 kPa	2.75 kPa	2.75 kPa
Nominal Injector Size mm	2x 1.0 mm	2 X 1.1mm	2 X 1.6mm
Burner Pressure High kPa	2.50	2.5	2.5
Burner Pressure Low kPa	0.75	0.75	0.75
MJ/h	26	29	65
Flame Effect Output Only	Effect	Effect	Effect
Supply Pipe Size dia—min	3/8"	3/8"	1/2"
Natural Gas			
Nominal Pressure kPa	1.5kPa	1.5 kPa	1.5 kPa
Nominal Injector Size mm	2x1.6 mm	2 X 1.8mm	2x 2.4mm
Burner Pressure High kPa	1	1	1
Burner Pressure Low kPa	0.3	0.3	0.3
MJ/h	27	35	61
Flame Effect Output Only	Effect	Effect	Effect
Supply Pipe Size (minimum diameter)	3/8"	3/8"	1/2"
Lab. Test No	WAR 0112	GL 923	WAR 0115/0121
Lab. Test Dates	01/06/2017	20/04/2010	7/10/2017
ESS Declaration No	N/A	1149420106	N/A

WARMINGTON BURNERS

Burner		TFG 800	TFG 1000	TFG 1200
Burner Width	Α	555	674	754
Burner Height	В	205	205	205
Burner Depth	С	272	272	361





3.2 POSITIONING THE BURNER

The burner should be positioned in the centre of the firebox. Care should be taken to ensure the burner is placed in line with the Caitec vents. The burner sits by self weight on the bricks and does not need to be bolted to the bricks.

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There is a removable artificial steel brick at the back of the firebox, with two holes for gas feed and electronics feed where applicable.

3.3 VERMICULITE APPLICATION

Coarse vermiculite must be used so as not to block the gas outlet holes

Apply a thin layer of vermiculite over the burner, just enough to cover the burner tray.

Note: If the burner flame is uneven, the vermiculite may need to be changed or sifted to remove the smaller pieces that can block the burners holes. The smaller pieces can cause uneven burn and the unit to run dirty.



3.4 COALS AND LOGS

Care should to be taken when handling coals & logs due to the carbon on the coals, which can stain the surroundings. Warmington suggests wearing gloves when handling the coals and logs, and using metal tongs when hot.

- Bottom row: Assemble 2 bottom rows of coals onto the vermiculite base.
- **Top Row**: Assemble 2 top rows of coals onto the bottom row.



1: Bottom Row

2: Top Row

- Each coal should be randomly positioned with the rough face facing outward. Ensure coal positioning does not directly block the 3-flame pilot.
- The placement of the coals & logs may vary to make an even flame pattern.
- Logs and twigs may be scattered to achieve best visual effect.
- Fit burner grate by sliding R & L side metal pins on grate, into holes located on burner side plates, as shown.

	Number of Coals per Row		Number	Total Coals	
Model	Bottom	Тор	Bottom	Тор	Total
TFG 800	5	4	2	2	18
TFG 1000	6	5	2	2	22
TFG 1200	10	9	3	3	57



3.5 CONTROL VALVE ADJUSTMENT

3.5.1 SG MANUAL CONTROL VALVE

Control valves are factory set but may require adjustment onsite

- Turn appliance off & remove front plastic cover on igniter. Pull cover to slide off.
- Unscrew test nipple on the burner manifold & fit the test gauge securely see diagram.
- To set the high: Light the burner & turn to high then adjust the high screw to the desired pressure see specs.
- To set the low: Light the burner & turn to low then adjust the low screw to the desired pressure see specs.
- Extinguish appliance, remove test equipment and secure test nipple.
- Check valve & burner for correct operation & check fire for gas leaks.



High & Low Test Nipple for SG Fires

Note : Location of the Test Nipple - may vary from Model to Model

Your purchase of the Warmington traditional fire gas burner (included in the price of the firebox) comes with multiple options for lighting/ heat settings. The most affordable option is the 'SG' option, which is a manual start, manual adjustment option, working much like a barbeque. Alternatively, Warmington offers several electronic options- 'ON-OFF' with a switch at the wall to operate the fire, or 'ON-OFF-HIGH-LOW' with two settings for heat output. Furthermore, a fully adjustable electronic 'EG' option is available, supplied with remote control.

OPERATION OF A WARMINGTON SG GAS FIRE (MANUAL START)

To light:

- Open the front cover by pulling it outwards
- Push in the ignition control switch and hold in the 'PILOT' position for 5-10 seconds until you can hear the gas come through the pipe, making sure the ignition switch is pressed in firmly.
- To strike the igniter, turn anti clockwise to the ***STAR** position (with the ignition switch still firmly pressed in) until you hear the pilot ignite with a 'click'. Repeat this process 2 or 3 times if necessary.
- Once the pilot flame is lit, hold this position for 3-5 seconds, then gently let the ignition switch out and set the flame control to high. It may take a few seconds for the burner to light all the way across.
- Once the flame is established, adjust to the desired setting and close the cover.

To shut down:

- Open the cover by pulling it outwards.
- Turn the control ignition switch to 'PILOT' and the flame bed will extinguish. Pilot light may be left on and the pilot flame will still burn
- To fully extinguish, turn to the 'OFF' position before closing the cover.

Due to continued product improvement, Warmington Ind LTD reserves the right to change product specifications without prior notification.



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3.5.2 ON-OFF ELECTRONIC CONTROL VALVE

Note: Any alterations to pressure are to be carried out by a certified gasfitter

- Light appliance and check the pressure to the hi kPa value in the table for maximum output.
- If adjustments are necessary, remove the dust cap on the control value. The pressure adjustment screw is on the front side of the gas control valve and is factory set.

WARNING: Ensure that the dust cap is replaced after adjustment.

Pressure Setting:

- Turn the burner on with the switch and wait for full ignition. Using a standard screwdriver, screw the adjusting screw clockwise to increase the outlet pressure, or screw counter clockwise to decrease the pressure to the desired settings.
- Set the pressure to the hi kPa value in the table for maximum output.



- After checking the pressure, turn the unit off, remove manometer from the test point and tighten the test point screw. Ensure to check for gas leaks.
- Turn the appliance on and off a few times to check ignition.
- When satisfied that the appliance is working correctly, fit the front panel assembly back to the gas burner.

Note : Ensure you peel the protective plastic coating from any stainless steel components if fitted.

- All burner aerations are factory preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, refer to troubleshooting before contacting your Local Service Contact.
- It may take approximately 2 hours of operation for the coals/logs or river rocks to achieve their full flame pattern and glow.
- During the initial burn period, some smoke and smell may be experienced. Because of this, run the appliance on the high position in a well ventilated room until these dissipate.



ON/OFF SWITCH (SIT 840) - WIRING DIAGRAM





3.5.3 ON-OFF-HIGH-LOW ELECTRONIC CONTROL VALVE

Note: Any alterations to pressure is to be carried out by a Certified Gas Fitter.

- Light appliance and check the pressure to the high and low kPa values in the gas specification table.
- If adjustments are necessary, remove the dust cap on the control value. The pressure adjustment screw is on the front side of the gas control valve and is factory set.

WARNING: Ensure that the dust cap is replaced after adjustment.

Pressure Setting:

- Turn the burner on with the switch and wait for full ignition.
- If adjustments are necessary, remove the cap . The Pressure Adjustment Screw and Nut are on the Front Side of the Gas Control Valve (shown in diagram **below**) and are **Factory** set.
- **High Pressure Setting**: Set the Burner to High with the switch. Screw in **Nut A** to Increase the Outlet Pressure then screw Nut A out to Decrease the Pressure to the desired settings . Use 10mm spanner.
- Low Pressure Setting: Set the Burner to Low with the switch See Wiring Diagram) and, keep Nut A stationary . Use a screwdriver to screw in Screw B to Increase the Pressure and Screw it Out to Decrease the Pressure . Carefully replace the Modulator Plastic Cap.
- Set the pressure to the hi kPa value in the table for maximum output. The burner will operate any pressure between the hi and the low pressures.



- After checking the pressure, turn the unit off, remove manometer from the test point and tighten the test point screw. Ensure to check for gas leaks.
- Ensure power is off & reconnect modulator harness connection in the main harness.
- Turn the appliance on and off a few times to check ignition.
- When satisfied that the appliance is working correctly, fit the front panel assembly back to the gas burner.
- Note: Ensure you peel the protective plastic coating from any stainless steel components if fitted.
- All burner Aerations are factory preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, refer to troubleshooting before contacting your local service contact.
- It may take approximately 2 hours of operation for the coals/logs or river rocks to achieve their full flame pattern and glow.
- During the initial burn period, some smoke and smell may be experienced. Because of this, run the appliance on the high position in a well ventilated room until fumes dissipate.



HIGH/LOW SWITCH (SIT 843) - WIRING DIAGRAM



NOTES: 1.** = Supplied by Warmington

Due to

ification.





SETTING THE DAY OF THE WEEK AND TIME

With the remote off, press and hold the 'T/P' button for 2 seconds or longer to initiate programming the time. The Time, Hour setting and AM/PM will flash.

Setting the hour function: Press and release the \blacktriangle or \triangledown button to increase or decrease the hour setting by 1 hour. Please ensure that AM/PM is set correctly. Press 'OK' to accept. The minute digits will begin to flash.

Setting the minute function: Press and release, the \blacktriangle or \lor button to increase or decrease the minute setting by 1 minute. Press and hold the \blacktriangle or \lor button for 2 seconds or longer to increase or decrease the minute setting by 1 minute every 0.5 seconds. Press 'OK' to accept. The days of the week will begin to flash.

Setting the day of the week function: Press and release the \blacktriangle or \lor button to change the day of the week to the following or previous day. Press and hold the \blacktriangle or \lor button for 2 seconds or longer to increase or decrease the day of the week by 1 day every 0.5 seconds. Press 'OK' to complete setting.

The time and day of the week is now set.

USING THE VARIOUS MODES

While the remote is switched on, pressing and releasing the MODE button will cycle between all available modes. These are:

Manual Mode→Auto Mode→Flame Mode→Manual Mode

Manual mode

Manual mode does not require that the time and day of the week to be set. Press the \blacktriangle or \triangledown button to increase or decrease the temperature as desired.

Automatic mode

The automatic mode allows the temperature to be regulated according to a programmed level and time. At any time, the temperature may be adjusted up or down. However, whenever the remote changes to a new time period, the temperature will be set automatically according to that period's setting.



Flame Mode

In Flame mode the flame level is selected as required, and remains at the selected level. A change in the temperature will not change the flame level. Press the ▲ or ▼ button to increase or decrease the Flame level desired.

Programming for Auto Mode

Each day of the week can be programmed individually for 4 periods P1, P2, P3 and P4, making a total of 28 programmed periods. Alternatively, a weekday program can be set, so the same program is used for Monday-Friday. Similarly, a weekend program can be set for Saturday-Sunday. The entire week can also have the same program. Alternatively, a weekday or weekend program can be set with individual programs for the remaining days.

The suggested period settings for each day/s are:

Period 1 - morning

Period 2 - daytime

Period 3 - evening

Period 4 - night-time

Entering programming mode:

With the remote off, Press and hold the 'T/P' button for 2 seconds or longer then release, followed by another press and release of the 'T/P' button. If successful, the LCD will display 'Pd' at the top, and the word PROG at the bottom. The time at which the remote is currently set, and MO will flash.

Select which day/s to program. You must choose which day/s of the week you wish to program. Press and release the \blacktriangle or \checkmark button to change the day of the week to the following or previous day. Press and hold the \blacktriangle or \checkmark button for 2 seconds or longer to increase or decrease the day of the week by 1 day every 0.5 seconds. The order that you can scroll through the days is as follows:

 $MO \rightarrow TU \rightarrow WE \rightarrow TH \rightarrow FR \rightarrow 'MO TU WE TH FR' \rightarrow SA \rightarrow SU \rightarrow 'SU SA' \rightarrow 'MO TU WE TH FR SA SU' To accept the selected day/s of the week press 'OK'.$

First period's start time. The display will indicate 'P1' on the top. The Hour and AM/PM settings will now flash. <u>To set the P1 starting time:</u>

Press and release the \blacktriangle or \lor button to increase or decrease the hour setting. Press and hold the \blacktriangle or \lor button for 2 seconds or longer to increase or decrease the hour setting by 1 hour every 0.5 seconds.

Please ensure that AM/PM is set correctly. Press 'OK' to accept. The Minute setting will now flash.

Adjust the minute setting:

Press and release the ▲ or ▼ buttons to increase or decrease the minute setting. Press 'OK' to accept. Setting the temperature. The Set Temperature setting will now flash.

Adjust the desired set temperature:

Press and release the \blacktriangle or \lor button to increase or decrease the temperature setting by 1 °C. Press and hold the \blacktriangle or \lor button for 2 seconds or longer to increase or decrease the temperature setting by 1 °C every 0.5 seconds. Press 'OK' to accept. Period 1 is now set for the day/s of the week that you have chosen. The LCD will display 'P2' to indicate that Period 2 can now be set for the same day/s of the week. Repeat the programming process for periods 2, 3 and 4. After program 4 is set, press 'OK' and the program for the selected day/s will be set. Repeat the programming process for any other periods/days that are required.

Restore factory default settings

With the remote off, press the following sequence of buttons: 'F', 'T/P', 'T/P' again, $\mathbf{\nabla}$. If done correctly, the icon 'rE' will be indicated on the LCD.

Teaching RF remote ID code to control unit

CAUTION: The remote has already been programmed with a unique code. Do not attempt to teach the RF Remote ID code unless instructed by the manufacturer. With the remote off, press the following sequence of buttons: 'F', 'T/P', 'T/P' again, \blacktriangle . The LCD display will show 'LC' (Learn Code) for 2 seconds then return to the normal OFF state display. During this time a special code will be transmitted by the RF Remote to the Control Unit, causing the Control Unit to learn its ID.



APP OPERATION

The app can be used both on iOS and Android devices they can be downloaded here:

Apple Store: https://apps.apple.com/jm/app/intelligy-thermostat-mkii/id1327577138

Google Play Store: https://play.google.com/store/apps/details?id=com.millec.intelligythermostatmkii

For instructions on how to push the appliance to your Wi-Fi, please go to the Warmington website and find details located under the 'Downloads' tab for your fireplace model.

The app has both manual control and automatic controls.

In manual control you can adjust the flame height by touching the < and > symbols next to the flame icon.

In automatic control you can adjust the desired room temperature by touching the < and > symbols next to the temperature.





MANUAL ON/OFF SWITCH



AS SHOWN FROM THE FRONT OF THE BURNER

The switch is located behind the grate on the control valve heat shield as shown above.

Press and release the power button. This will start the electronic spark and the power LED will be on permanently. The pilot will ignite first and once this is on, it will ignite the main burner. Pressing and releasing the power button again will switch off the appliance.

When the appliance is turned on, the gas fire will be set to medium flame setting.

If the gas fails to light, the appliance will go into lock out mode. To start the appliance again turn appliance off and wait 3 minutes before turning it on.

Please note that the power button is for use when the remote controller is lost or damaged and can't be used. This controller can not adjust flame height, hence is supplied for emergency use, if remote and phone App is not able to



PROCEDURE FOR THE TEST AND COMISSIONING OF YOUR DECORATIVE FIRE

Ensure Gas Supply and the Power Supply (caution 240V) to the Unit

- Refer to Data Plate on this specification for settings. The Data plate is attached to the under carriage of the Burner.
- Remove front grate.
- Loosen the Jet test point and attach manometer (digital is preferred). The test point is on the right hand side of the gas burner, as shown below:



Note : Location of the Test Nipple - may vary from Model to Model

• Light appliance, adjust to high flame setting and check pressure, adjust to low flame and check pressure.

NOTE: Any alterations to pressure is to be carried out by a Certified Gasfitter

• If adjustments are necessary, remove the cap. The Pressure Adjustment screw and nut are on the front side of the Gas Control Valve (shown in diagram **B** in this specification) and are **factory** set.

High Pressure Setting: Set the modulator to maximum condition. Screw in **Nut A** to increase the outlet pressure then screw nut A out to decrease the pressure to the desired settings. Use 10mm spanner.

Low Pressure Setting: Turn off the power to the modulator (by disconnecting the modulator harness connection at the valve - see wiring) and keep nut A stationary. Use a screwdriver to screw in **Screw B** to increase the pressure and screw it out to decrease the pressure. Carefully replace the modulator plastic cap.

WARNING: To ensure the correct operation of the modulator it is necessary that the plastic cap is returned to its original location.



DIAGRAM B (SHOWING CONTROL VALVE WITH TEST POINTS AND ADJUSTING SCREW).



- After checking the pressure, turn the unit off, remove Manometer from the Test Point and Tighten the Test Point Screw. Ensure to check for gas leaks.
- Ensure Power is Off & Reconnect Modulator Harness Connection in the Main Harness. See Diagram B Above .
- Turn the Appliance On and Off a few times to check ignition.
- When you are satisfied that the Appliance is working correctly, fit the Front Panel Assembly back to the Gas Burner.
- NOTE : Ensure you peel the Protective Plastic Coating from any Stainless Steel components if fitted.
- All Burner Aerations are Factory Preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, refer to troubleshooting before contacting your Local Service Contact as listed.
- It may take approximately 2 hours of operation for the coals/Logs or river rocks to achieve their full flame pattern and glow.
- During the Initial Burning in period, some smoke and smell may be experienced, the appliance should be run on the high position in a well ventilated room until these dissipate.





FULLY MODULATING (SIT 845) - WIRING DIAGRAM





3.6 ADJUSTMENT OF PILOT

Note to Gasfitters

The 3 flame pilot may need adjustment after a period of running time on set up as the increase in heat in the fire will induce a higher draught in the fire, and may pull in flame away from the file tube causing the fire to shut down.

When the base screw is removed, gas will leak from the outlet. Ensure that the pilot is not adjusted or the screw is removed when the fire is burning.

- Adjustment of pilot 3 Flame: Unscrew base screw as shown in Diagram 2.
- Insert a screwdriver as shown in Diagram 3 and adjust the adjustment screw up inside the 3 Flame Pilot to adjust the flame height.
- The flame must always be passing over the electrodes &/or file tube on either side.
- Replace the base screw and check for leaks.



3 Flame Pilot in







Correct operation of 3 Flame Pilot

3.7 COMMISIONING AND TESTING

Read all the instructions before commissioning. Install coals and logs and burner before commission.

Light appliance and check HIGH/LOW settings. Check operation of appliance and adjust to suit.

Adjust control valve setting if required. After a period of running (30min plus) check the setting of the pilot and adjust if required. See specs for details.

Extinguish appliance, remove test equipment and secure test nipple. Check for gas leaks.

Note: The control valves are factory set and should not require adjustment.

Gasfitter to carry out standard testing for commission:

- Spill test taken at top of opening with smoke or smoke match
- Leak testing appliance and joints
- Correct operation of the burner and coal and log lay out
- Test gas pressures high and low, drop test on supply line
- 5 second light time across burner, Other testing that may be required
- Ventilation requirements to the standards
- Clean and or touch up paint of fire box and burner
- Hand over to client, tests to comply to relevant standards



STAGE 4: FINISHING PROCEDURE FOR BUILDER

- Construct hearth to required thickness
- Close in AAC enclosure and chimney chase (if in timber alcove)
- Finish autoclaved aerated concrete (AAC) enclosure and hearth to customer's requirements (e.g. paint/ tiles etc). Due to the expansion and contraction of metal fireplaces, a 3mm gap between the flange and the finished surround should be maintained.
- Remember to install required 2 x 100mm diameter vents for Caitec system
- Construct mantle if required

4.1 COMBUSTIBLE MANTLE CLEARANCES : REF BUILDING CODE



4.2 HEARTH CLEARANCES



A hearth extension ABOVE the curved minimum requirement line on the graph for a selected model of traditional fire is an acceptable hearth extension. A hearth extension BELOW the curved minimum requirement line is NOT acceptable.







Note: FLUE SYSTEMS Casing....

Ref ASNZS:2918:2001 4.3 Flue pipe casing

Flue system may require to be Doubled lined to comply.

SINGLE 3.6m FLUE KIT DETAILS

FLUE DETAILS DIMENSIONS

Minimum Flue Height	
Flue Height	3600
Measured From Top of Adaptor	B + F + 3600

Flue Details	No:	TF 800	TF 1000	TF 1200
Cowl	1	300	300	350
Top Spider	1	300	300	350
Cone	1	300	300	350
Flue Diameter	3	300	300	350
Liner Diameter	3	400	400	450
Spacer	3	300/400	300/400	350/450

NOTE: Ensure that a Standard Tested Warmington Flue system is used on the Warmington fires.

FLUE SYSTEM INSTALLATION GUIDE

This is a general installation guide only – Contact a "NZHHA Installer" for Installation Advice or go to www.homeheat.co.nz then select <u>Members</u> & follow Instructions , to find a Certified NZHHA SFAIT Installer .

- 1. Install the first length of flue pipe with the crimped end down, inside the Adaptor collar, ensure that the flue pipe is sealed into the collar with exhaust sealant. Rivet the flue in 3 places around the Adaptor collar. Place a spacer around the flue pipe approximitaly150mm above the adaptor collar. Secure in position by tightening the screw and nut.
- 2. Install the second length of flue pipe with the crimped end down and fit by riveting in at least 3 places around the flue pipe joint. Ensure that the flue is sealed into position with sealant.
- Install the first section of flue pipe liner with the Crimped end up, over the flue pipe and over the spacer that is fixed to the flue pipe. This spacer will keep the liner concentric about the flue pipe.
 Position flue spacer at the flue pipe joint for every length of "Flue pipe" and "Liner".
- Repeat the Steps from 1 4 to the installed required height of the flue system. The flue system is to comply with ASNZS 2918:2001 4.9.1
 - a "the flue pipe shall extend not less than 4.6m above the top of the floor protector."
 - b " the minimum height of the flue system within 3 m distance from the highest point of the roof shall be 600mm above that point."
 - c "the minimum height of the flue system further than 3 m from the highest point of the roof shall be 1000mm above the roof penetration."
 - d "no part of any building lies in or above a circular area described by a horizontal radius of 3 m about the flue system exit."

NOTE: The last length of flue pipe needs to extend past the liner so that when the "top spider" and the "Flashing cone" are fitted, that the "flashing cone" and the "flue pipe" are **flush**, or that the "flue pipe" is **5mm lower** that the "Flashing cone".

- 5. Fit the "Top Spider" into position, ensure that the legs of the spider are fitted inside the liner and that the spider is positioned hard down onto the liner and tighten with the screw and nut.
- 6. Place the "Flashing cone" over the "flue pipe" and press hard down onto the "Top Spider". (Note that the "Flue pipe" and the "Flashing Cone" are either flush or the "Flue pipe" is 5mm Lower than the "Flashing cone".) Ensure that the "Flashing cone" is clear for the venting from the "Liner" and the "flue pipe".
- 7. Fit the "Cowl" to the top of the flue pipe. The "Cowl", "Flashing cone", and the "Flue pipe" can be secured to each other with the uses of a stainless steel self tapping screw. This will allow the "Cowl" to be removed for cleaning.

Flue system may require Bird Proofing due to the installation and locations, discuss this with your installer for the best advice.

If the Flue system is installed into a "Chimney Chase", allow for air vent as close to the top of the chase as practical, or allow venting through the "Chimney Chase Flashing". A "Venting Flashing cone" and a 25mm gap around the Liner with a "Venting Flashing Cone-Spider" can be used.

ADD Cowl Flashing Cone Top Spider S/S Flue Galv Liner -50mm Spacer S/S Flue Galv Liner 50mm Spacer Galv Liner S/S Flue 50mm Spacer



Flue Pipe double casing can touch timber at four tangible

Min 25mm gap between flue pipe single casing & Flue pipe double casing

points

FLUE PENETRATION VENTED THROUGH ALCOVE (SINGLE LINED FLUE SYSTEM)

FLUE PENETRATION VENTED THROUGH ALCOVE (DOUBLE LINED FLUE SYSTEM)



FLUE PENETRATION VENTED THROUGH TOP FLASHING



Note: Flue system casing....

Flue system may require to be Doubled lined to comply. Ref ASNZS:2918:2001 4.3 Flue pipe casing

Notes:

External requirements: refer to AS/NZS2918:2001 4.9.1 All flashing to comply with E2.

Install Flue system to AS/NZS2918:2001

When using a rubber or bitumen flashing (Butynol, Dectite) an additional flue pipe baffle is required.

All external air vents & ceiling penetrations must be bird proofed with permanently fixed screens. Additionally, all external air vents and ceiling penetrations are to be vermin and rodent proof.

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board or similar under flashing

CHIMNEY CHASE FLASHING DETAILS SETTING ADD COWL AND FLASHING CONE HEIGHT STEP 1 General Chimney Chase Flashing Note: Lay Out Flashing Spigot height is determined by the Insulation that is fitted under the Height to be ADD Cowl-Flashing ... See Details at bottom of determined by page. flashing cone Flashing Cone Flue Chimney Cover to Comply with E2 sheet metal (light gauge STEP 3 STEP 2 ADD Cowl Sits on Top of Fixing through side Flue 5mm Below Top to comply with E2 Flashing Cone, screw to secure Of Flashing Cone Promina 12mm Flue Liner S NOTE: Clearances Vent for chase if required to be maintained To Comply with E2 Strap & Support Liner to Framing milli CHIMNEY CHASE FLASHING AND AIR VENTILATION OP-VENTING THROUGH CHIMNEY CHASE Cowl Spigot Flashing Cowl Spigot Flashing to suit flue pipe to suit flue pipe Casing Cover Casing Cover Hebel block or 3 12mm Promina Drip Line 385 board or similar under flashing Drip Line 50 50 100 x 100 x 100mm 100 mm Air Vent Air Vent "No Insulation "Insulation under VENTING THROUGH FLASHING under flashing" flashing" Spigot Flashing Cowl Cowl to suit flue pipe Spigot Flashing Casing Cover to suit flue pipe Casing Cover ≣ 22 min Drip Line Hebel block or 385 12mm Promina

Due to continued product improvement, Warmington Ind LTD reserves the right to change product specifications without prior notification.

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Drip Line

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FLUE HEIGHT MINIMUM DETAILS



FRAME OUT AND TRIM OUT DETAILS FOR CHIMNEY CHASE

Option X – Singled Lined Flue System

Option Y – Double Lined Flue System





ADDITIONAL INFORMATION

GENERAL NOTES

- These installation and operating instructions should be kept in a safe place. Should you require another copy, download from the Warmington website: www.warmington.co.nz
- The appliance and flue system must be installed in accordance with relevant standards and the appropriate building codes.

MAINTENANCE

Warmington Industries recommend annual servicing of your gas fire by an approved Warmington gasfitter.

Clean the bricks of the fire using a stiff brush as required. Warmington does not recommend using water or a wet cleaning product due to the porous quality of the bricks.

WARNINGS

- WARNING: THE APPLIANCE AND FLUE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2918 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES
- WARNING: APPLIANCES INSTALLED IN ACCORDANCE WITH THIS STANDARD SHALL COMPLY WITH THE REQUIREMENTS OF AS/NZS 4013 WHERE REQUIRED BY THE REGULATORY AUTHORITY, I.E. THE APPLIANCE SHALL BE IDENTIFIABLE BY A COMPLIANCE PLATE WITH THE MARKING 'TESTED TO AS/NZS 4013'.
- ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED TO BE IN BREACH OF THE APPROVAL GRANTED FOR COMPLIANCE WITH AS/NZS 4013.
- CAUTION: MIXING OF APPLIANCE OR FLUE-SYSTEM COMPONENTS FROM DIFFERENT SOURCES OR MODIFYING THE DIMENSIONAL SPECIFICATION OF COMPONENTS MAY RESULT IN HAZARDOUS CONDITIONS. WHERE SUCH ACTION IS CONSIDERED, THE MANUFACTURER SHOULD BE CONSULTED IN THE FIRST INSTANCE.
- CAUTION: CRACKED AND BROKEN COMPONENTS e.g. GLASS PANELS OR CERAMIC TILES, MAY RENDER THE INSTALLATION UNSAFE.



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