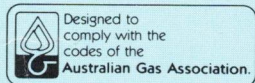


# PYROX Topliner 400

## The sensibly sized gas hot water service. **It's not just good looking, with automatic modulation it's . . .**



**PYROX "KNOW HOW":** WITH A BACKGROUND OF AUSTRALIAN GAS WATER HEATING EXPERIENCE SINCE THE EARLY 1930'S YOU CAN TRUST THE EXPERTS AT PYROX WHO KNOW WHAT AUSTRALIAN CONDITIONS DEMAND.



**LIKE A SINK HEATER** - The Topliner 400 will deliver 3.2 litres per minute of hot water at 55°C\*\* - USING JUST ENOUGH GAS.

**LIKE A BATH HEATER** - The Topliner 400 will deliver 6 litres per minute of hot water at 55°C\*\* - USING ABOUT 60% OF ITS TOTAL GAS INPUT.

**LIKE A FULL HOT WATER SERVICE** - The Topliner 400 will deliver up to a generous 10 litres per minute of hot water, that's 600 litres per hour of water at 55°C\*\* - USING ITS TOTAL GAS INPUT. You only pay for the water you use - you can't run out.

**NO FLOOR SPACE NEEDED:** Connect to an outside wall.

**PYROX HOT WATER EFFICIENCY:** At least 15%\* better than Australian Gas Association minimum performance standards.

**FLEXIBLE LOCATION:** Your Topliner 400 can usually be sited close to the most used draw off points. This reduces energy wastage through long pipe runs.

**SUMMER/WINTER CONTROL:** Allows for modulation at temperature rise selected, between 25°C and 50°C.

**CONTROLLED WATER FLOW:** Hot water is delivered to draw off taps at usable and economical levels. This contrasts with wasteful gushing deliveries experienced with some other forms of water heaters, especially with young children on the end of a tap.

**LOOKS GOOD:** Let Topliner, the neatest, most compact external gas hot water service in Australia, enhance the appearance of your home. It's worth the small additional cost.

**Q.** Are any additional flue components needed - **NO**

**Q.** Does it need a concrete slab base - **NO**

**Q.** Does it need floor space - **NO**

### **TOPLINER 400 SPECIFICATIONS:**

Input 134MJ/hr (126,800BTU)

Hot Water Output 7.5-16 litres/min raised 25°C

3.75-8 litres/min raised 50°C

Height 1105mm Width 545mm Depth 287mm

Connections Gas Inlet 3/4" BSP Water 1/2" BSP

Protective heat shield available for installations on combustible surfaces.



Melbourne  
543 4811

Sydney  
647 2844

Brisbane  
349 7111

Adelaide  
258 8088

Perth  
277 7577

Darwin  
84 3243

Launceston  
44 3944

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(Incorporated in New South Wales).

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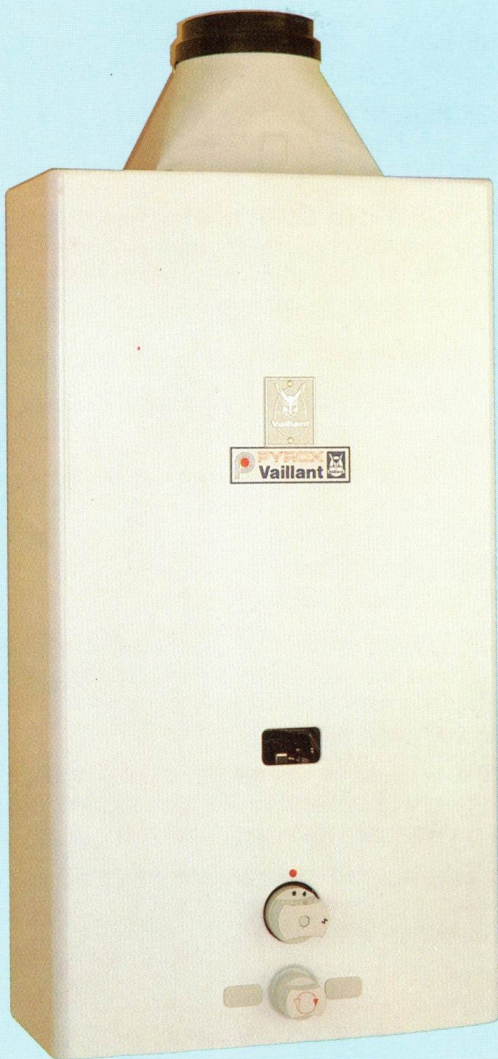
\*Based on water usage of up to 150 litres per day.

\*\*Temperature approximate and based on inlet cold water at 15°C.  
Products covered by Registered Design. Patent applied for.



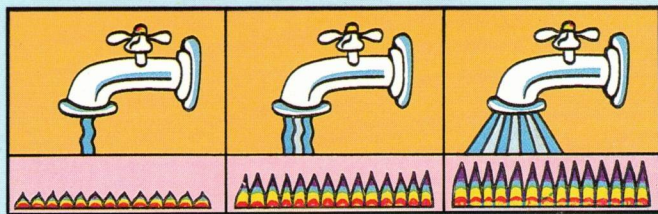
# PYROX 400/7

## The Magic of Modulation



**Now you can use a large capacity hot water service economically for the household. Before Automatic Modulation large sized instantaneous water heaters were suited only to commercial applications.**

**VERSATILE:** Unlike other models, Pyrox automatic modulation operates with flows as low as 3.2 litres/min., that is 50% lower than other models. This outstanding feature is exclusive to Pyrox.



**ECONOMICAL:** With automatic modulation you save energy. Use the right amount of gas to heat your water.

**NO FLOOR SPACE NEEDED:** Select a position on an internal wall sited close to the most used draw off points.

**PYROX HOT WATER EFFICIENCY:** At least 15%\* more efficient when compared with Australian Gas Association minimum performance requirements.

**SUMMER/WINTER CONTROL:** Allows for modulation at temperature rise selected, between 25°C and 50°C.

**EASY CARE CASING:** The Pyrox sparkling white enamel outer case is attractive and easy to clean.

**Your fresh cold water is heated as it flows through your Pyrox gas water heater. No storage, no sludge, just fresh hot water.**

### PYROX MAG 400/7 SPECIFICATIONS:

Input 134MJ/hr (126,800BTU)

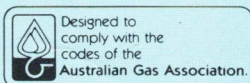
Hot Water Output 7.5-16 litres/min. raised 25°C

3.75-8 litres/min. raised 50°C

Height 925mm Width 422mm Depth 265mm\*\*

Connections Gas Inlet 3/4" BSP Water 1/2" BSP Flue (dia) 130mm

\*\*Additional Mounting Frame Depth 60 mm.



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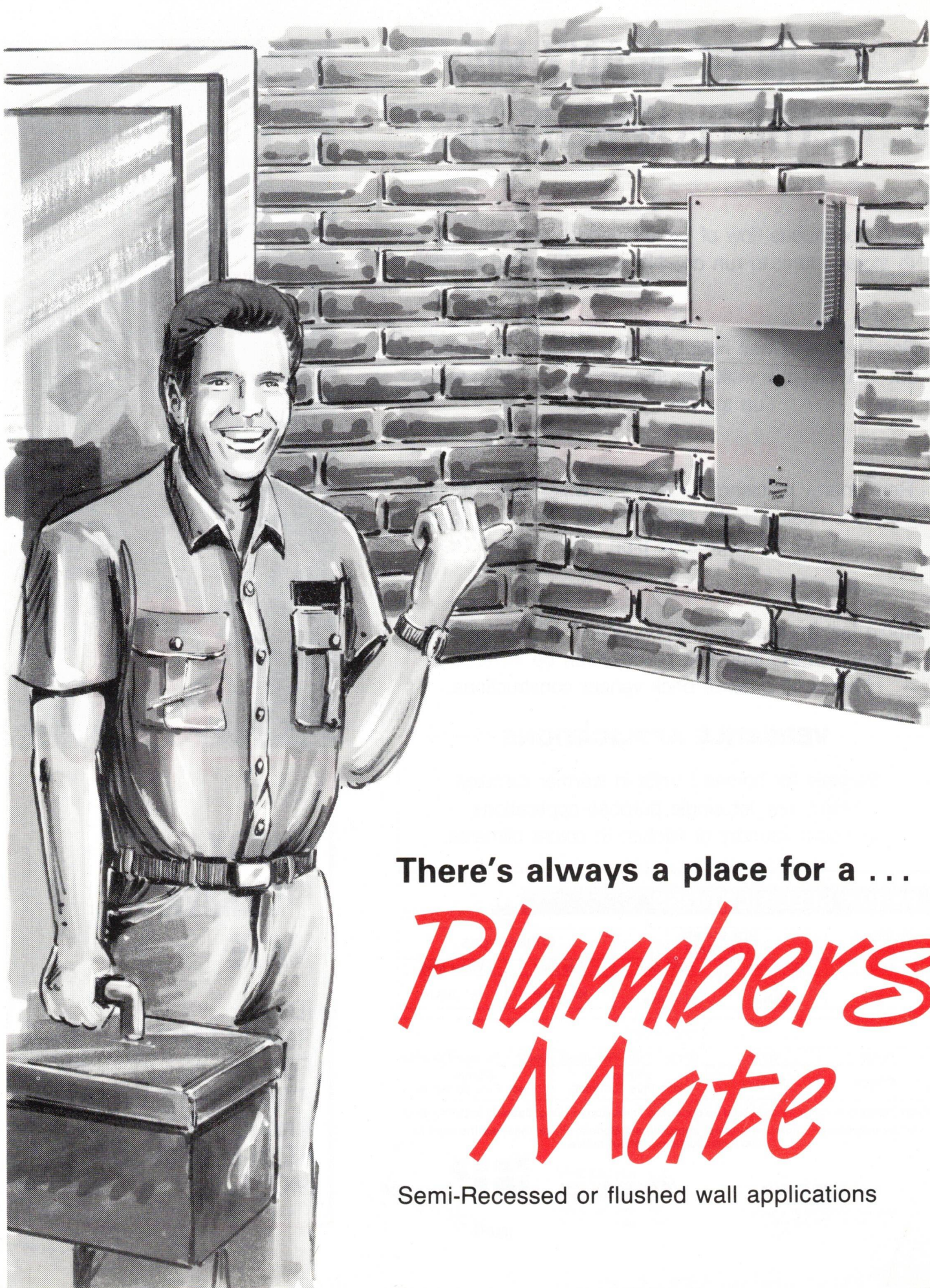
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\*Based on water usage of up to 150 litres per day.





# PYROX

PIPING HOT WATER

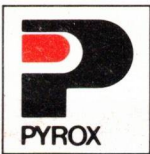


There's always a place for a . . .

# *Plumbers Mate*

Semi-Recessed or flushed wall applications





# PYROX

## PIPING HOT WATER

# SAVE IN SO MANY WAYS WITH THE PLUMBERS MATE

### SAVE MONEY & TEMPERS

Continuous flow of instantaneously hot water. No storage tank to run dry. No wasted heating of water.

### SAVE SPACE

Semi-recessed wall hugging slimline cabinets don't jut out into valuable walk-way space. Flue tested in winds up to 65km per hour.

### SAVE ENERGY

Real energy efficiency — only the water that is being used is heated. Sited close to draw-offs — no loss through long pipe runs.

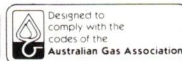
### SAVE TIME

Simple fast installation and connection. No concrete slab to pour. Saves time and money. Can be installed in either solid brick or brick veneer constructions.

### VERSATILE APPLICATIONS

Suitable for homes / units in warmer climates. Works well for single purpose applications, bathroom, laundry or kitchen in colder climates.

### PYROX SPECIFICATIONS



NOMINAL INPUT	HOT WATER FLOW RATE		CONNECTIONS	
	25°C rise	50°C rise	Gas Inlet	Water Inlet
MJ/h	litres/min.	litres/min.		
85	10.0	5.0	¾" B.S.P.	½" B.S.P.

DIMENSIONS			
Height	Width	Depth - Fully Recessed	Depth - Surface Mounted
815mm	355mm	213mm (incl. Flue Terminal)	475mm (incl. Flue Terminal)

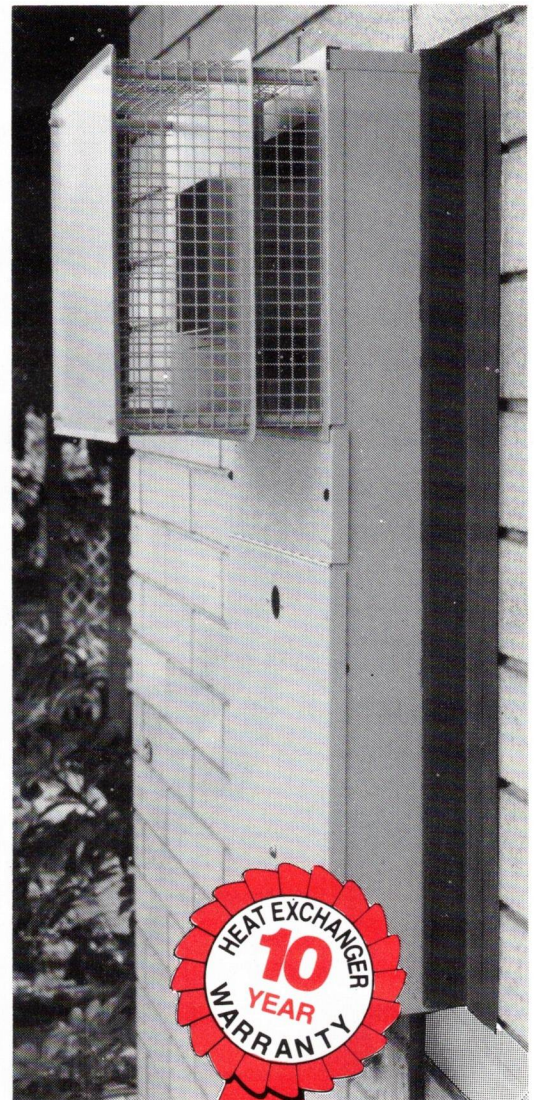
Pyrox installation instructions should be consulted in relation to siting, flashing and insulation. In the interests of continued product improvement Bonaire Pyrox reserves the right to alter specifications without notice.

**BONAIRE PYROX**  
A DIVISION OF  
RHEEM AUSTRALIA LIMITED  
A.C.N. 004 213 665

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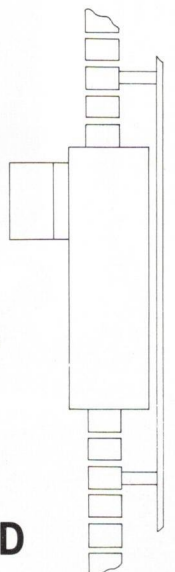


*Making Life Comfortable*

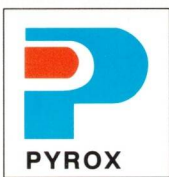


## PYROX 'PLUMBER'S MATE'

### IDEAL REPLACEMENT FOR PYROX PF1E AND OTHER SEMI-RECESSED MODELS







# PYROX

PIPING HOT WATER

## SIZE UP YOUR OPTIONS

# WATER HEATERS



Pyrox gives you a 10 year warranty on the Heat Exchanger, protecting your investment right through to the next century.

Now, that's confidence!

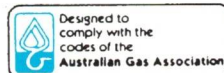
<b>125 SERIES</b>	Low demand single outlet for kitchens, caravans etc.
<b>250 SERIES</b>	Single purpose for bathroom, laundry or kitchen in colder climates. Suitable for whole home in warmer climates.
<b>325 SERIES</b>	Suitable for whole home (multi-outlet) use.

# BUILT-IN ECONOMY

Simple, fast installation and connection  
... saves time and money.

TECHNICAL DATA	MAG INTERNAL			TOPLINER EXTERNAL		
	125	250	325	250	325	
Nominal Input MJ/hr	41	85	110	76	110	
Hot water Flow Rate litres/min.	25°C rise	5.0	10.0	10.0	13.0	
	50°C rise	2.5	5.0	6.5	6.5	
CONNECTORS GAS INLET	1/2" BSP	3/4" BSP	3/4" BSP	3/4" BSP	3/4" BSP	
Water Inlet	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP	
Flue (dia) mm	90	110	130	N/A	N/A	
DIMENSIONS (inc. Draught Diverter)	Height	615	730	864	1062	
	Width	280	352	422	395	460
	Depth	170	265	265	287	287

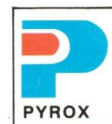
AVAILABLE FROM



In the interests of continued product improvement, Bonaire Pyrox reserves the right to alter specifications without notice. All illustrations are indicative only for cabinet colour and installations depicted may not comply with all local regulations.

**BONAIRE PYROX**  
A Division of Rheem Australia Limited  
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*Making Life Comfortable*



# PYROX — VAILLANT MAG 250 T/EBF INSTALLATION, REGULATION, SERVICE AND OPERATING INSTRUCTIONS

**NOTE:** This appliance must be installed in accordance with the Manufacturer's Installation Instructions, Uniform Building Regulations, Water Supply By-Laws, Local Gas Fitting Regulations and all other relevant Regulations. A regulator is supplied with each natural gas appliance and must be fitted.

1. Data Plate Details

**NOTE:** Label on inside of front panel at the bottom.

Pyrox Vaillant MAG 250/8 ARTZ T/EBF for N.G. T.G. T.L.P.

Pyrox Vaillant MAG 250/7 ATZ T/EBF for L.P.

Pyrox Vaillant MAG 250/7 ATZW T/EBF for N.G. L.P.

/8 with suffix "N" for low water pressure application

Gas Type		N.G.	T.G.	T.L.P.	L.P.
Burner Test Pressure	kPa	0.65	0.60	0.35	2.75
Pilot Rate	MJ/h	0.50	0.50	0.50	0.35
Pilot Injector Diameter	mm	0.40	0.65	0.65	0.18
Main Burner Injector Diameter	mm	1.40	2.10	2.50	0.78
Nominal Hourly Gas Consumption	MJ/h	76	76	76	78

Water Pressure Maximum 1300 kPa

150 kPa "N" Model

Minimum 60 kPa ATZW Model

18.5 kPa "N" Model

30 kPa ARTZ Temp Selector "HOT"

120 kPa ARTZ Temp Selector "WARM"

Water Heating Capacity 8.34 L/min Raised 30 C

A.G.A. Certificate No. 3449



## 2. Installations

### 2.1 Overall dimensions:

Height	865mm
Width	358mm
Depth	285mm

### 2.2 Position:

The unit must always be installed on an external wall face.

#### **WARNING:**

Flue terminal should be free from any combustible material e.g. trees etc.

#### **Clearance:**

The heater must be positioned with 0.5m minimum sideways clearance to projecting walls and opening windows and 1.0m minimum clearance below each opening window. The minimum distance from the eaves or the ground is 0.5m and a gas meter must not be within 1.0m vertically or horizontally from the appliance

### 2.3 Fixing Heater on an External Wall:

2.3.1 Hang heater on wall by brackets on the back of casing, the two screws provided should be securely located in the wall and the heater then hung on them by the key hole slots on the mounting brackets.

2.3.2 In addition to instruction 2.2, ensure that the appliance position permits easy access to and sufficient clearance for removal of the cover and of any components.

2.3.3 If the appliance is to be installed on a combustible wall, a heat shield must also be fitted. The heat shield is available as an optional extra from the manufacturer. The lower edge should be far enough above the appliance mounting brackets to allow removal of appliance from the wall. Refer to Fig. 1. The heat shield should be mounted such that there is at least a 15mm gap between it and the wall.

### 2.4 Installer:

2.4.1 Locate the temporary gas type label on the bottom of the cabinet near gas inlet pipe.

2.4.2 The appliance is packaged in a cardboard carton and requires no assembly prior to installation.

2.4.3 Instruct the user in the operation of the appliance before leaving.



## 2. Installations (continued)

### 2.4 Installer (continued)

2.4.4 Refer to the A.G.A. Installation Code for gas burning appliances and equipment. The code contains the general requirements for appliance instructions, including pipe sizing details.

2.4.5 An accessible isolating valve is required near the appliance on the cold water supply to the appliance.

## 3. Removal of Front Cover:

To remove front cover of the appliance to gain access to controls and for servicing, unfasten centre fixing screw at base of panel and pull bottom panel forward; lower panel slightly to disengage top edge. To remove whole of front panel, remove the two additional screws one on each side of the front panel, then lower panel slightly to disengage top edge.

## 4. Pipe Connections:

**NOTE:** It is essential that all pipe connections be correctly aligned or otherwise, component connections within the heater may be strained and/or components themselves misaligned. It is recommended also, that wherever possible, pipe connections be made at the heater first and that final pipe runs be made in soft copper pipe to allow some adjustment for misalignment.

### 4.1 Piping Sizing:

Refer to the A.G.A. Installation Code for Gas Burning Equipment for the relevant pipe sizing.

### 4.2 Gas:

Refer to Local Gas Fitting regulations. Connection is made to R<sup>3</sup>/<sub>4</sub>" male GWIP at the centre of the wall box bulk head plate. A regulator is supplied with each natural gas appliance and must be fitted. Refer to 7.2 for gas pressure adjustments.

### 4.3 Cold Water:

Connection as required by Local Authorities is made at the R<sup>1</sup>/<sub>2</sub>" male brass bush on the right hand side of the bulk head plate. Ensure that an approved isolating valve is fitted.

### 4.4 Hot Water:

Connection as required by Local Authorities is made at the R<sup>1</sup>/<sub>2</sub>" male brass bush on the left hand side of the bulk head plate. Use copper pipes for hot water lines.



#### 4. Piping Connections (continued)

##### 4.5 Lagging:

It is recommended that hot water pipes be lagged, if runs are long and are exposed on outside of building etc. Waterproof lagging should be used on external hot water pipes.

##### 4.6 Water Pressure:

Refer to Page 1. "Water Pressure" on data plate.

4.7 If sludge or foreign matter is present in the water supply, it is recommended that a suitable filter be incorporated in the water supply line to the heater.

4.8 All pipes should be well flushed before connection is made.

#### 5. Flue Terminal:

Supplied attached to the appliance.

#### 6. Initial Regulation:

**NOTE:** All heaters are carefully tested and adjusted before despatch, but further adjustments may become necessary because of local conditions. **IMPORTANT — CHECK BURNER GAS PRESSURE TO DATA PLATE, REFER TO 7.2 BELOW.**

6.1 The automatic water governor incorporated in the water valve requires no adjustment.

6.2 Ensure that main gas cock in supply line and isolating valve in cold water supply line are fully open.

6.3 To expel air from water pipes, open all hot water draw off taps then close when all air is purged.

6.4 Prepare heater for operating (see Initial Lighting Procedure).

6.5 Check to ensure that the flow from each connected hot water tap is sufficient to operate the heater.

#### 7. Operating Instructions:

##### 7.1 Initial Lighting Procedure:

7.1.1 Remove lower front cover of appliance by removing the centre fixing screw at base of panel and pull bottom panel forward; lower panel slightly to disengage top edge.

7.1.2 Check that gas cocks and water valves in lines to heater are open.

7.1.3 Light Pilot Burner as follows —

1. Turn gas knob anti-clockwise from the shut-off position, which is indicated when the "Black Dot" on the knob is at the top.



## 7. Operating Instructions (continued)

### 7.1 Initial Lighting Procedure (continued)

#### 7.1.3 Light Pilot Burner as follows (continued)

2. Keep turning until there is a "click" indicating that a spark has been produced at the pilot.

Hold the knob hard anti-clockwise with the spark symbol at the top position for 10 to 15 seconds.

If the spark did not ignite the pilot, repeat the operation, returning the unit to the OFF position after each attempt.

Delays may occur if there is air in the gas line or gas control of a newly installed appliance. When the pilot has been operating for 10 to 15 seconds with the control knob held hard on anti-clockwise rotation, sufficient current should be generated to hold open the gas valve.

- 7.1.4 Turn the control knob clockwise to the position where the "Black Flame" symbol is at the top position. This unit is now ready for operation, the main burner will ignite and extinguish automatically when any connected hot water tap is turned ON and OFF.

- 7.1.5 Replace lower front cover of appliance, ensuring that it is firmly located, and that the centre fixing screw is replaced and tightened.

- 7.1.6 If appliance does not operate, contact the State Office of the Local Gas Authority or the Manufacturer.

### 7.2 Gas Pressure Adjustment:

Open front cover. Locate gas pressure test point on left hand side of the pilot inlet connection on the burner manifold.

#### 7.2.1 250/8 ARTZ

Remove wire clip and cover from front of Volumetric gas regulator. Turn main burner on and run hot water full on. With burner operating at maximum rate, adjust manifold pressure by rotating adjusting screw on Volumetric regulator to the operating gas pressure given on the data plate.

Shut down the appliance, remove manometer tube, tighten test point screw, replace volumetric regulator adjustment screw cover and replace front cover.



## 7. Operating Instructions (continued)

### 7.2 Gas Pressure Adjustment (continued)

#### 7.2.2 250/7 ATZW

Locate gas adjusting screw between modulating gas control and main gas valve. Unscrew to open fully. Rotate temperature selector control clockwise. Turn on main burner and run hot water full on. Adjust manifold pressure by setting the regulator (which is connected to the inlet of the appliance) to the operating gas pressure given on the data plate. Shut down the appliance, remove manometer tube, tighten test point screw and replace front cover.

### 7.3 Water Temperature Adjustment

7.3.1 Appliances designed for operating on mains water supply incorporate a temperature selector operated by a control knob located immediately below the gas control. To increase water temperature, turn knob clockwise, to reduce water temperature, turn knob anti-clockwise.

### 7.4 Taking Out of Operation:

To take appliance out of operation turn gas control knob clockwise, to shut off position, (indicated by the "Black Dot" on the knob at the top position), pilot will extinguish and the main gas valve will be closed. Turn off gas cocks and water valves in lines to heater.

**NOTE:** When the gas control knob is turned off it cannot be turned on again until the thermo-electric control snaps to the closed position — this could take approximately one minute. Do not try to force knob as this could cause damage to the assembly.

## 8. Maintenance:

8.1 It is recommended that the heater be inspected and cleaned by a qualified person, periodically, depending on the frequency and duration of its operation, never less than once a year.

This will not only ensure trouble free operation, but will also maintain the highest efficiency and economical operation of the heater.

8.2 Ensure that the appliance flue terminal is not obstructed in any way at any time.

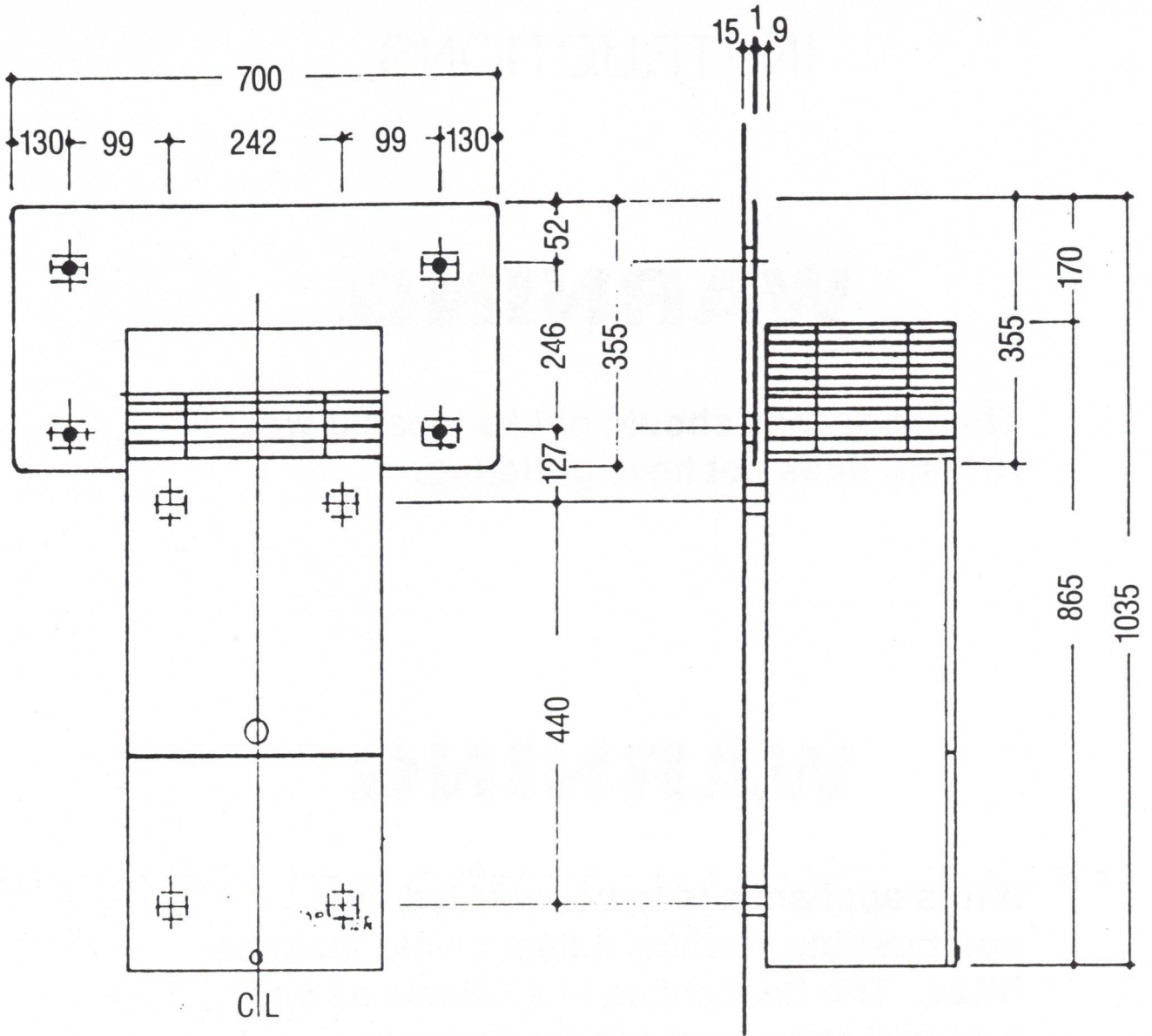
8.3 Always ensure that maintenance or correction of any fault is carried out by a qualified person and that only parts supplied by the manufacturer are used for replacements when necessary.

## 9. Conversion:

For conversion of heater for operation on an alternative gas to that for which it was originally supplied, please contact your local Gas Authority.



FIG. 1



● Screw positions.

Heat shield is only required on installations where the appliance is mounted on a combustible wall. The clearance between the heat shield and the wall must be at least 15mm.



# PYROX TOPLINER 250

## INSTRUCTIONS

### **WARNING**

This appliance should not be located where roofing does not have guttering.

### **WARNING**

If this appliance is to be installed on a combustible surface, a heat shield must be fitted. The heat shield is available as an optional extra from the manufacturer. Refer page 2 and figure 1 for further information.

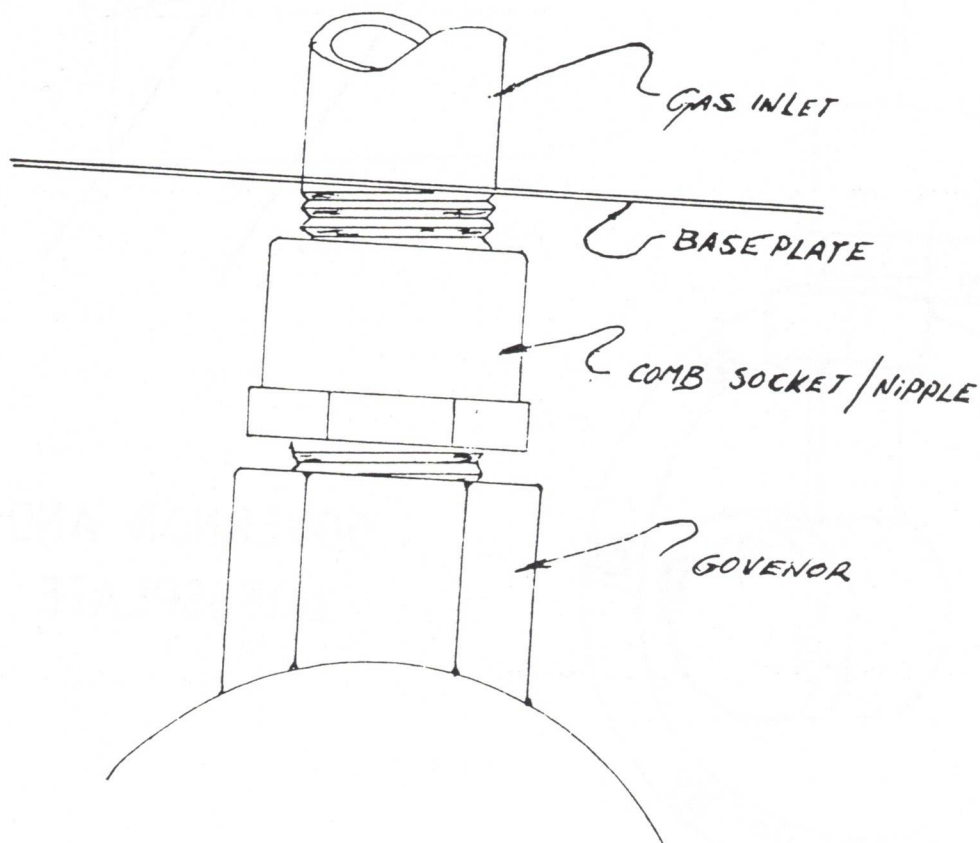


SERVICE PROCEDURE:

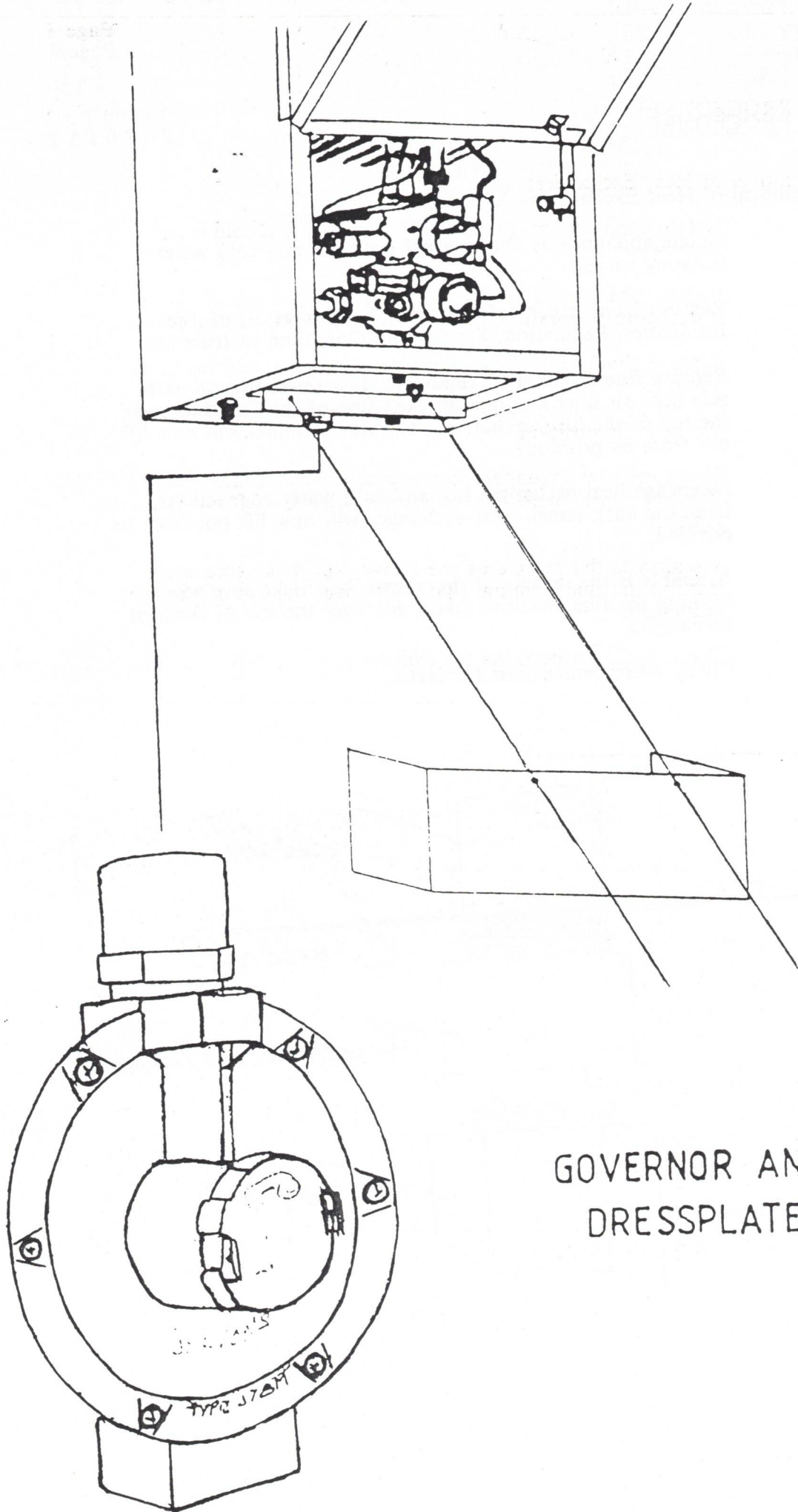
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1. Removal of Heat Exchanger:
  - a). Isolate appliance by shutting off both gas and cold water isolating valves.
  - b). Remove front panel, refer to Item 3. on page 3., of the Installation Regulation, Service and Operating Instructions.
  - c). Remove flue terminal by removing six screws, two on each side near air inlet and one on each side of the flue duct near the top of the heat exchanger. The flue terminal will now lift out from its position.
  - d). Disengage heat exchanger hot and cold water connections from the back panel, heat exchanger will now lift out from its position.
  - e). Assembly is the reverse of the above, but make sure when refitting the flue terminal that it fits over the top of the heat exchanger.

Check water connections for leaks.







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DRESSPLATE