

Manufacturer	Appliance Name/Model
Chaffoteaux et Maury	Bayard 10 CFPV
(Aust.)	Bayard 13 CFPV
1	

#### **DESCRIPTION**

The Bayard 10 CFPV or 13 CFPV is an open flued, instantaneous multi-point water heater with a gas rate of 82 MJ/h and 105 MJ/h respectively. The unit is designed to produce an instant output of heated water to several areas of utilization such as baths, showers and sinks.

#### **TECHNICAL DATA**

#### **DATA PLATE LOCATION**

Adhesive label attached to the inside lower left of the front case.

#### GAS RATE (MJ/h)

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GAS KAIE (	(מ/נואו				
	N.G.	T.G.	T.L.P.	L.P.(P)	L.P.(B)
10 CFPV:	82.0	82.0	82.0	82.0	
13 CFPV:	105.0	105.0	105.0	105.0	
RATED OUT	TPUT (kV	V)			
10 CFPV:	17.4	17.4	17.4	17.4	
13 CFPV:	22.7	22.7	22.7	22.7	
INJECTOR C	RIFICE (	(mm)			
10 CFPV:	1.28	2.33	2.33	0.74	
13 CFPV:	1.28	2.23	2.23	0.78	
PILOT:	0.23	0.42	0.42	0.15	

#### **BURNER PRESSURE (Pa)**

10 CFPV:	800	280	350	2750
13 CFPV:	900	460	460	2500

#### IGNITION

Piezo ignited permanent pilot. Electrode spark gap 3mm. Chaffoteaux piezo, Part No.20267. Chaffoteaux spark electrode, Part No.34239.

### **FLAME SAFEGUARD**

Thermo - electric flame failure system. Open circuit test is 15 mV minimum.

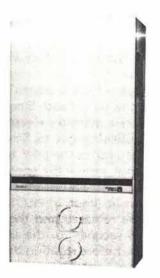
#### **BURNER**

10 CFPV Model:

12 bar, 12 injector stainless steel burner.

13 CFPV model:

14 bar, 14 injector stainless steel burner.



A.G.A. Approval No.	
3460 (10CFPV)	N.G
3461 (13CFPV)	

Approved N.G., T.G., T.L.P., L.P.(P)

#### PRESSURE RELIEF

Chaffoteaux Part No. 48987, pressure relief at 1000 kPa.

#### WATER FILTER

Chaffoteaux Part No. 39803 nylon mesh filter inserted into the water inlet connection.

# MAXIMUM INLET WATER PRESSURE 1000 kPa

1000 KPa.

# MINIMUM INLET WATER PRESSURE

50 kPa

#### PERFORMANCE CHARACTERISTICS

With water flow and gas rate controls at maximum settings;

10 CFPV, 10 litres per minute, 25°C temperature rise.

13 CFPV, 13 litres per minute, 25°C temperature rise.

With gas rate control at maximum setting and water flow rate control at minimum setting;

10 CFPV, 5 litres per minute, 50°C temperature

13 CFPV, 6.5 litres per minute, 50°C temperature rise.

#### **BAYARD 10 CFPV & 13 CFPV**

#### **OPERATION**

When the gas control knob is in the OFF position ( • ) there will be no gas flow into the gas section of the unit.

By rotating the knob anti - clockwise through the ignition position ( $\mathfrak{S}$ ) the integral piezo will operate and generate a spark between the electrode and the pilot head. Simultaneously the pilot valve and the thermo - electric valve will be pushed open, allowing gas to flow into the gas section chamber and to the pilot head. (The pilot should light; if not, repeat the operation) (Fig.1).

After the pilot is lit (knob in PILOT position the knob can be released and the pilot will stay alight. Allow 15 seconds for the thermo - electric valve to energise before rotating the knob.

By rotating the control knob further anticlockwise, the gas control side valve will gradually open; and on reaching the MAXIMUM position (4) (Fig.2) be fully open. By rotating this knob between maximum and minimum (4) the gas rate to the burner can be varied.

By turning on a hot water tap, the main gas valve (water diaphragm operated) will open and allow gas to the main burner.

The water flow through the unit can be controlled by the water control knob situated beneath the gas control knob (Fig.3).

#### NOTE:

Should the gas control knob be left in the PILOT position and the pilot extinguished, pilot gas will continue to flow from the pilot head. The knob should not be left in the pilot position. For extended OFF periods the knob should be returned to the OFF position.

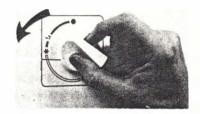


Fig. 1



Fig. 2



Fig. 3

# MAINTENANCE ENSURE THE APPLIANCE IS ELECTRICALLY SAFE AT ALL TIMES

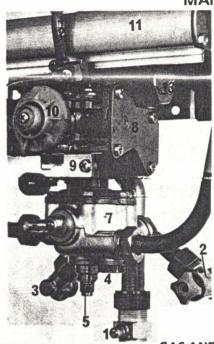
#### FRONT CASE REMOVAL

- 1. Pull off the control knobs.
- 2. Unscrew the case retention ring from the water flow control.
- 3. Pull the case outward at the bottom to release the snap catches.
- 4. Lift the case upwards off the retention tabs and remove case.

# BAYARD 10 CFPV & 13 CFPV



#### MAINTENANCE Cont'd.



- 1. Gas inlet pressure test point
- Cold water inlet connection
- 3. Heated water outlet connection
- 4. Slow ignition adjustment
- 5. Water regulator & drain
- 6. Water flow control spindle
- 7. Water section
- 8. Gas section
- 9. Piezo assembly
- 10. Operating cam
- 11. Burner manifold
- 12. Pilot supply pipe
- 13. Gas regulation adjustment

**GAS AND WATER SECTIONS (Fig. 4)** 

# GAS VALVE AND WATER SECTION ASSEMBLY REMOVAL (Fig.4)

- 1. Turn off the gas and water supplies.
- 2. Remove front case and drain the unit (5).
- 3. Unscrew the pilot supply pipe retention bracket and remove pipe and bracket (12).
- 4. Unscrew the burner manifold retention screws and lift off the manifold (11).
- 5. Disconnect the two inlet and two outlet water connections from the water section.
- 6. Disconnect the gas supply connection.
- 7. Ease the complete assembly downwards and lift away
- 8. On reassembly, test for water leaks and gas escapes.

#### **CONVERSION**

#### THE APPLIANCE SHALL ONLY BE CONVERTED TO A GAS FOR WHICH IT HAS BEEN APPROVED

#### T.G. & T.L.P. to N.G.

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REFER TO REPLACEMENT PARTS FOR N.G. SUBSTITUTES.

- 1. Remove the front case.
- 2. Remove pilot bracket and pilot supply pipe.
- 3. Fit N.G. pilot injector.
- 4. Remove the two screws from the burner manifold and withdraw the manifold.
- Fit N.G. burner injectors or the complete N.G. manifold.
- 6. Unscrew the gas governor from top of gas section and replace gas float with N.G. float.
- 7. Reassemble and set the correct gas pressure.
- 8. Amend the label.
- 9. Test for gas escapes on completion.

#### INSTALLATION

THE APPLIANCE SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS INSTRUCTIONS AND ALL RELEVANT STATUTORY REGULATIONS AND CODES OF PRACTICE.

#### LOCATION

Where a unit is to be fitted to a combustible wall surface the wall must be protected by a non-combustible panel. The rear of the unit has a retention slot designed for the wall bracket, which is packed with the appliance (Item 7 replacement parts). The wall bracket is attached to the wall by a single fixing screw.

Position the bracket on the wall so that the distance between the fixing screw and the centre of the water inlet pipe is 496 mm for the 10 CFPV model and 517mm for the 13 CFPV model.

#### **FLUE CONNECTION**

10 CFPV 110mm nominal 13 CFPV 125mm nominal

## **BAYARD 10 CFPV & 13 CFPV**

# REPLACEMENT PARTS

# SELECTED CHAFFOTEAUX PARTS LISTING;

								1		
KEY NO.	DESCRIPTION	PART NO.					HE			1
4	(100)/) Cos sontrol knob	50256				10000	ar albertons and			1
4	(10PV) Gas control knob	58356		7		A				1
4	(13PV) Gas control knob	39218						188		
5	(10PV) Wat.temp.control kno									1
5	(13PV) Wat.temp.control kno	b 42341				100	<b>阿克斯拉斯斯</b>	100		
6	(10PV) Heat exchanger	20385/6			6 —			1811		J
6	(13PV) Heat exchanger	20353/6				-		80 6		
	, ,					170			0	L 1
10	(10PV) Main burner	59303				T. W.		1911	Q.	1
10	(13PV) Main burner	43005				1		UI		
14	Main burner inj. N.G.	14154/24					3	4		
14	Main burner inj. T.G./ T.L.P.	19224/4							5	
14	Main burner inj. L.P. (P)	14154/20						11		
15	(10PV) Gas section N.G.	56310				10		3		
15	(TOPV) das section N.d.	30310				- CO				
15	(100)/) Connection T.C. (T.L.D.	56317							b <del>−</del> 12	
15	(10PV) Gas section T.G./T.L.P.					6			/)	
15	(10PV) Gas section L.P. (P)	59494				-		////		
15	(13PV) Gas section N.G.	56311					- 7			
15	(13PV) Gas section L.P. (P)	59495					1	*		
20	Pilot injector N.G.	49378	-			14		Con	_ 18	
20	Pilot injector T.G./ T.L.P.	42728								
						29	. 4		19	
20	Pilot injector L.P. (P)	34079			1		. 4		7	
21	Gas float N.G.	60746			6	_2	1-	10	00	
21	Gas float T.G./ T.L.P.	60747			-	0		/	- 20	
22	Float holder N.G.	60468			2	6 -8		- 22		
22	Float holder T.G./T.L.P.	25367				88	23 —		<b>—</b> 26	
26	Main valve spring N.G.	61275			30	0 —	23			
					31 -	-				
26	(10PV) Main valve spring L.P.(	P) 46722								
26	(13PV) Main valve spring L.P.(				1				-	
30	(10PV) Main valve N.G.	60780			1	15			and the same of th	
30	(10PV) Main valve L.P. (P)	46724			15			20 6	33	
30	(13PV) Main valve N.G.	60757					32	19	25	34
30	(13PV) Main valve L.P. (P)	37042				36 —	_0 6	2	35	
	(101)	0.0					30			37
33	Side spring	44371					33		36 M	37
34	Side valve N.G.	42727								9
34	Side valve L.P. (P)	34624			7	3	8		Ag 38	
35	Gasket N.G. / T.G. / T.L.P.	11750			1 4	0			40	
35	Gasket L.P. (P)	30305			(	1	1	0.0		
36	Thermal gasket	19866/10					63	00	19	
30	merma gasket	19000/10							All .	9
37	Gas control operating assy.	21061/3				0			Be	
38	Pilot valve	21061/34								
39	Thermo magnetic valve	41064					450			
40	Piezo							7		
	Thermocouple	20267								
41	Diaphragm assembly	35087								
41	Diaphiragin assembly	21061/7								
50	(10PV) Watersestics N.G.	60925					and I	¥		
	(10PV) Water section N.G.	60825 D 60873					5		_ 62	
50	(10PV) Water section T.G./ T.L.						كر الما ا		- 52	
50	(10PV) Water section L.P. (P)	60873		/			AUT TO	0	- 53	
50	(13PV) Water section N.G.	60824			Y	2		· Co		
50	(13PV) Water section T.G./T.L.				KN			7	0	
50	(13PV) Water section L.P. (P)	60875					51		50	
54	'O' ring water section	24164/10				•			1 - 0	
. 4					0	<u>a</u> 55			54	
Page 4										





#### INSTALLATION

THE APPLIANCE SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS INSTRUCTIONS AND ALL RELEVANT STATUTORY REGULATIONS AND CODES OF PRACTICE.

#### FITTING THE FLUE ASSEMBLY

Where the unit is to be fitted to a combustible wall surface, the wall must be protected by a non-combustible panel. Select the position on the wall and make a hole 305 mm. wide by 205 mm. high. If the hole is cut accurately there will be no need to line it, as the wall liner will seal off the cavity Fig. 2. The standard flue set is suitable for walls with a thickness of 75mm. to 355mm. An optional flue kit is available for thicker walls of up to 610mm.

#### FITTING THE WALL LINER

Slide the wall liner through the wall horizontally, ensuring that the flanged end is flush with the face of the inside wall. If necessary trim to length so that the outer end of the duct is flush with the face of the outside wall Fig.2.

#### FITTING THE TERMINAL

The flue terminal may be fitted from the inside or outside of a building, by fixing the two spring loaded chains over the hooks on the inside of the wall liner Fig.2. If necessary bend the hooks to achieve better chain retention.

Where the terminal is to be installed from inside the building, it can be passed through the wall liner and pulled back into position by using the chains. Ensure that there can be no risk of the terminal falling. It is recommended that a length of cord or string be secured to the terminal, to prevent any risk of damage to the terminal, the building, or to persons in the vicinity.

#### FITTING THE UNIT

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The unit is attached to the wall by two bolts at the top and two bolts at the bottom. A further optional fixing bracket is provided for installations where the wall adjacent to the top fixing holes is of unsound construction. The fixing bolts, screws and optional bracket are packed together with the connections and a gasket placed inside the heater.

#### **PROCEDURE**

Remove the flue bend from the top of the heat exchanger, by releasing the fixing clip and removing the two screws.

If the optional top fixing bracket is to be used, this should now be attached to the top of the rear case, using the screws already fitted to the case.

Using the neater as a template, locate the spigot of the appliance into the wall liner. Ensure that the appliance is vertical, then mark the fixing holes. Drill and plug the wall and fasten the top and bottom bolts into position then secure the heater to the wall.

Slide the flue duct through the rectangular hole in the rear case and engage into the central spigot of the terminal so that it touches the two end stops.

Refit the flue bend so that the flue duct engages by at least 25mm. It may be necessary to cut the flue duct to the correct length. Ensure that the flue bend is seated correctly on the heat exchanger with the gasket in place. Replace the two screws and the clip which secures the flue bend.

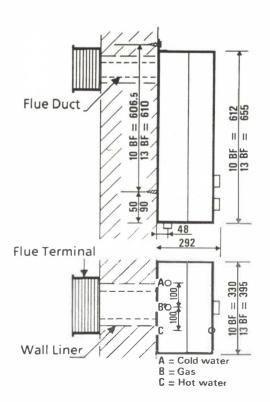


Fig.2

# **BAYARD 10 BFPV & 13 BFPV**

# **REPLACEMENT PARTS**

SELECTED	CHAFFOTEAUX PARTS LISTING	ā:	17 19	<b>18</b>	
KEY NO.	DESCRIPTION	PART NO.		24	1
4 5 6 20 20	Gas control knob Water temp. control knob Retention screw (10BF) Heat exchanger (13BF) Heat exchanger	36246 36732 14044 54618/6 48171/6	20	18	9-8-11 9-8-10
25 25 28 28 31	(10BF) Gas section (13BF) Gas section Pilotinjector N.G. Pilot injector T.G./ T.L.P. Gas float holder N.G.	56319 56314 49378 42728 60468	57	16 7	8-9-12   0-14
31/1 33 33 34 35	Gas float N.G. (10BF) Main valve spring N.G. (13BF) Main valve spring N.G. Main valve stop (10BF) Main valve	25367 61275 38474 39222 60781		59—58	7
35 36/38 39 40 42	(13BF) Main valve Valve gasket Side valve Side spring Pilot valve assembly	39223 11750 42727 44371 21061/34	53 31	56	27
43 45 48 49 49	Piezo Magnetic valve Top cover (water diaphragm) (10BF) Diaphragm spindle (13BF) Diaphragm spindle	20267 35478 18961 60759 44117	32 33 34 35	36 39	25
51 53 54 57 57	Electrode Thermocouple Operating cam (10BF) Burner (13BF) Burner	34239 61645 44370 40117 49995	30-	29 42	55 
58 58 60 60 61	(10BF) Burner manifold assy. (13BF) Burner manifold assy. (10BF) Water section (13BF) Water section Water diaphragm	61283 60998 60790 56785 25809/20	51 48-	44 52 50	
67 70	Water regulator Slow ignition valve	48987 18376		61	
	N N		63—69	62	
			70	67 65	60

Manufacture Chaffoteaux et Maury (Aust.) Appliance Name/Model Bayard 10 BFEPV Bayard 13 BFEPV

#### DESCRIPTION

The Bayard BFEPV is a multi-point instantaneous water heater. The appliance is for external installation, is weather protected and has a balanced flue.

#### **TECHNICAL DATA**

#### DATA PLATE LOCATION

Adhesive label attached to the inside lower left of the front case.

#### GAS RATE (MJ/h)

	N.G.	T.G.	T.L.P.	L.P.(P)	L.P.(B)
10 BFEPV:	72.0	72.0	72.0	72.0	
13 BFEPV:	93.0	93.0	93.0	93.0	
RATED OUTF	PUT (k\	N)			

#### 10 REEPV: 17 4 1

10 RLEDA:	17.4	17.4	17.4	17.4
13 BFEPV:	21.0	21.0	21.0	21.0

#### INJECTOR ORIFICE (mm)

10 BFEPV:	1.13	2.08	2.08	0.70
13 BFEPV:	1.18	2.23	2.23	0.72
PILOT:	0.23	.0.42	0.42	0.15

#### **BURNER PRESSURE (Pa)**

0&13 BFEPV: 800 300 350 2450	)
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#### **IGNITION**

Piezo ignited permanent pilot. Electrode spark gap 3mm. Chaffoteaux Piezo Part No. 20267. Chaffoteaux spark electrode, Part No. 34239.

#### FLAME SAFEGUARD

Thermo - electric flame failure system. Chaffoteaux thermocouple, Part No. 35087. Open circuit test is 15mV minimum.

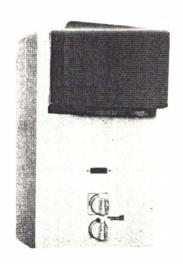
#### BURNER

10 BFEPV model:

12 bar, 12 injector stainless steel burner.

13 BFEPV model:

14 bar, 14 injector stainless steel burner.



A.G.A. Approval No
3707 (10BFEPV)
3845 (13BFEPV)

Approved for N.G.,T.G.,T.L.P., L.P.(P)

#### PRESSURE RELIEF

Chaffoteaux Part No. 48987, pressure relief valve. Pressure relief at 1000 kPa.

#### **WATER FILTER**

Chaffoteaux nylon mesh filter inserted into the water inlet connection

## MAXIMUM INLET WATER PRESSURE

1000 kPa

## MINIMUM INLET WATER PRESSURE

50 kPa

#### PERFORMANCE CHARACTERISTICS

With water flow and gas rate controls at maximum settings;

10 BFEPV, 8.6 litres per minute, 25°C temperature rise.

13BFEPV, 11.0 litres per minute, 25°C temperature rise.

With gas rate control at maximum setting and water flow rate control at minimum setting;

10 BFEPV, 4.3 litres per minute, 50°C temperature

13 BFEPV, 5.5 litres per minute, 50°C temperature rise.

#### **BAYARD 10 BFEPV & 13 BFEPV**

#### **OPERATION**

THE OPERATION OF THIS APPLIANCE IS THE SAME AS THAT FOR THE BAYARD 10 CFPV & 13 CFPV. FOR INFORMATION, REFER TO PAGE 2 OF THIS SECTION.

# MAINTENANCE ENSURE THE APPLIANCE IS ELECTRICALLY SAFE ALL TIMES

#### **FRONT CASE REMOVAL**

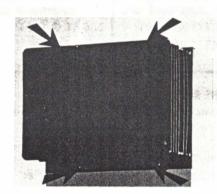
- 1. Pull off the control knobs.
- 2. Unscrew the three retention screws (above the water flow control and top and bottom of the unit).
- 3. Pull the case forward and off.

  NOTE: This is a sealed case therefore when replacing the case, ensure that the unit is air tight.

#### **BALANCED FLUE TERMINAL REMOVAL**

The flue terminal can be removed from the front case by unscrewing the four retention screws, Fig.1.

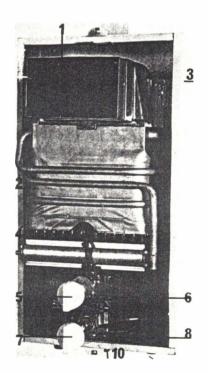
- 1. Flue exhaust
- 2. Heat exchanger
- 3. Sealing gasket
- 4 Main burner
- 5. Gas control
- 6. Gas section
- 7. Water flow control
- 8. Water section
- 9. Piezo assembly
- 10. Water regulator / drain



**BALANCED FLUE (Fig 1)** 

#### GAS VALVE AND WATER SECTION, REMOVAL.

- 1. Turn off the gas and water supplies.
- 2. Remove the front case and drain the unit.
- 3 Unscrew the pilot supply pipe retention bracket and remove pipe and bracket.
- 4 Unscrew the burner manifold retention screws and lift off the manifold.
- 5 Remove the screws which retain the gas section to the rear case.
- 6 Disconnect the four water connections from the water section.
- 7 Disconnect the gas supply connection.
- 8 Ease the complete assembly downwards and lift away.



MAIN COMPONENTS (Fig.2)

# CHAFFOTEAUX ET MAURY Date: May 1987 Supersedes: —

#### **BAYARD 10 BFEPV & 13 BFEPV**

#### INSTALLATION

THE APPLIANCE SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS INSTRUCTIONS AND ALL RELEVANT STATUTORY REGULATIONS AND CODES OF PRACTICE.

#### LOCATION

Where a unit is to be fitted to a combustible wall surface the wall must be protected by a non-combustible panel.

The unit must be installed so that the flue terminal is exposed to external air. The terminal must not discharge into a room, or space such as an outhouse or lean - to.

#### FITTING THE FLUE TERMINAL

The flue terminal and the appliance are packaged separately. A box which contains the plumbing fittings, securing screws, bracket, and a gasket are packed with the appliance.

First fit the gasket to the flue terminal. The flue terminal is then screwed onto the front case by the four screws provided (Fig. 1).

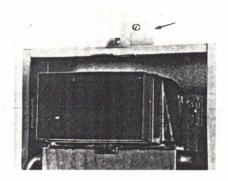
#### **FITTING THE UNIT**

The securing bracket is fitted to the top of the appliance by utilizing the screws already fitted to the rear case. The appliance is attached to the wall by a single screw fitted into the securing bracket and two retention screws fitted into the lower rearcase (Fig.3).

Using the appliance as a template, locate it onto the wall in the required position and mark the fixing holes. Drill and plug the wall and fasten the top and bottom screws into position.

#### NOTE

Where inlet water pressure exceeds the 1000 kPa.maximum, a suitable pressure reduction valve must be fitted.



**SECURING BRACKET Fig.3** 

#### **CONVERSION**

THE APPLIANCE SHALL ONLY BE CONVERTED TO A GAS FOR WHICH IT HAS BEEN APPROVED

#### T.G. & T.L.P. to N.G.

REFER TO REPLACEMENT PARTS FOR N.G. SUBSTITUTES.

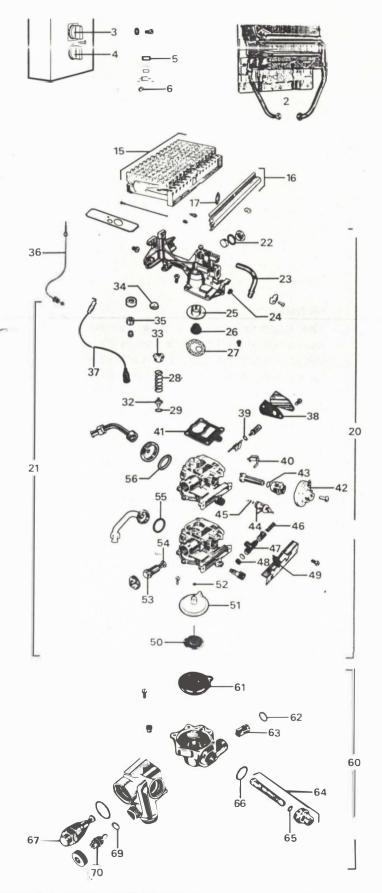
- 1. Remove the front case.
- 2. Remove pilot bracket and pilot supply pipe.
- 3. Fit N.G. pilot injector.
- 4. Remove the two screws from the burner manifold and withdraw the complete manifold with injectors attached.
- 5. Fit N.G. burner injectors or the complete N.G. manifold. ~
- Unscrew the gas governor from top of gas section and replace gas float with N.G. gas float
- 7. Reassemble and set the correct gas pressure.
- 8. Amend the label.
- 9. Test for gas escapes on completion.

# **BAYARD 10 BFEPV & 13 BFEPV**

# **REPLACEMENT PARTS**

#### SELECTED CHAFFOTEAUX PARTS LISTING:

KEY NO.	DESCRIPTION	PART NO.
2 2 3 4 6	(10BFE) Heat exchanger (13BFE) Heat exchanger Gas control knob Water temp. control knob Retention screw	56418 48171/6 55814 55815 14044
15 15 16 16 21	(10BFE) Burner (13BFE) Burner (10BFE) Burner manifold assy. (13BFE) Burner manifold assy. (10BFE) Gas section	
21 24 24 25 26	(13BFE) Gas section Pilot injector N.G. Pilot injector T.G./ T.L.P. Gas float N.G. Gas float holder N.G.	56314 49378 42728 25367 60468
28 28 32 32	Main valve spring N.G. Main valve spring T.G./ T.L.P. (10BFE) Main valve (13BFE) Main valve	61275 38474 60781 39223
36 37 39 39 39	Thermocouple Electrode Valve gasket Side valve Side spring	61645 34239 11750 42727 44371
42 44 47 50 50	Operating cam Pilot valve assembly Piezo (10BFE) Diaphragm spindle (13BFE) Diaphragm spindle	44370 21061/34 20267 60759 44117
51 53 60 60 61	Top cover (water diaphragm) Magnetic valve (10BFE)Water section (13BFE)Water section Water diaphragm	18961 35478 60790 56785 25809/20
67 70	Water regulator Slow ignition valve	48987 18376





# FAULT FINDING, INSTANTANEOUS WATER HEATERS (BAYARD MODELS)

This guide should be used in conjunction with the appliance data relevant to the instantaneous water heater at fault.

### **FAULT FINDING**

FAULT	CAUSE	REMEDY
Pilot not lighting	No gas supply Incorrect operation Air in gas pipes Pilot filter, injector or pipe blocked Operating cam or pilot valve fault No spark at electrode Weak spark from electrode	Check supply at meter and gas cock Refer to operating instructions Purge the gas pipes Replace filter, clean pipe or injector Replace cam, clean or replace valve Check piezo, wiring and electrode Check spark gap or replace electrode
Pilot will not remain alight (after control knob moved to max./min.position)	Incorrect operation, (premature movement of control knob) Incorrect gas pressure or aeration Thermocouple malfunction, incorrect flame position Thermo-electric valve malfunction	Refer to operating instructions  Check, adjust gas pressure /aeration Check thermocouple and connections, also flame position Replace thermo-electric valve
Pilot flame poor	Pilot filter, pilot pipe or head blocked Pilot injector incorrect, damaged or partially blocked	Replace filter, clean pipe or head Replace or clean the injector
Main burner not lighting (pilot established)	Control knob left in pilot position Water rate insufficient, filter blocked Gas valve malfunction; spindle, valve seating etc. Water valve malfunction; venturi, diaphragm, etc.	Refer to operating instructions Check water rate, clean/replace filter Rectify malfunction or replace part Rectify malfunction or replace faulty part
Explosive ignition	Pilot flame or the flame direction incorrect Main burner tracking and/or lighting ports blocked Slow ignition device faulty Gas escape within appliance	Clean or replace pilot assembly, redirect flame direction Clean out the tracking and lighting ports Repair or replace slow ignition device Locate and rectify gas escape
Fluctuating and unstable flames	Water in gas supply Gas valve malfunction Water valve malfunction	Clear gas supply Rectify malfunction or replace part Rectify malfunction or replace part
Yellow flames, and / or carboning of unit	Heat exchanger blocked or holed Primary aeration restricted Injectors incorrect Fault in flue system	Clean heat exchanger or replace Check manifold for restrictions Replace injectors Check for flue blockage or incorrect installation

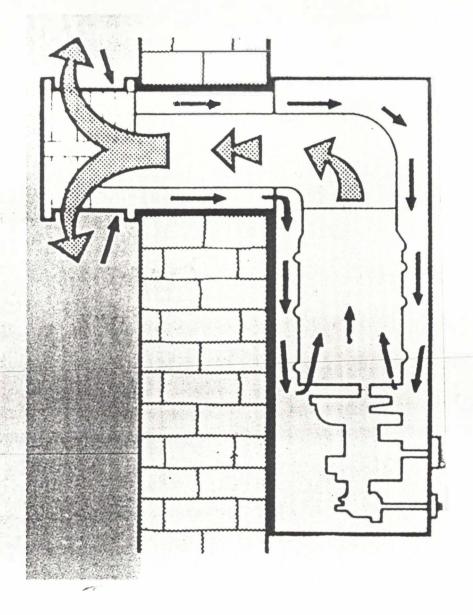
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# FAULT FINDING, INSTANTANEOUS WATER HEATERS (BAYARD MODELS) Cont'd.

FAULT	CAUSE	REMEDY
Main burner remains alight or is slow to	Gas valve malfunction; dirt or grit contamination, faulty valve seat etc.	Clean rectify malfunction or replace valve
shut off (tipping)	Water section malfunction; dirt or grit contamination	Clean, rectify malfunction or replace
Heat exchanger noisy	Scaling of heat exchanger Excessive gas flow Insufficient water flow	De-scale heat exchanger Adjust gas pressure Investigate water supply (see below)
	*	
Insufficient water flow	Water flow restricted Blocked venturi Poor water pressure Malfunction or foreign matter in water section	Investigate, remove restriction Clean venturi or replace Investigate water supply Clean water section or replace faulty part
Water temperature not hot enough	Water flow control fully open Incorrect gas pressure Venturi fault	Refer to operating instructions Check gas pressure, adjust gas rate Clean or replace venturi
	Water governor malfunction	Clean, rectify or replace part
Water temperature too hot for requirements	Water flow control retarded	Refer to operating instructions
Gas smell	Pilot flame extinguished (knob left in pilot(*) position) Incomplete combustion Gas escaping from appliance or fittings	Check cause of outage, and observe Chaffoteaux operating instructions Check ventilation, flue and burner Test appliance and fittings
	Heat exchanger sooted Thermo-electric valve malfunction	Clean, determine cause and rectify Rectify /replace thermo-electric valve
Water leak	'O'ring's, seals or gaskets leaking Water connections loose Pinhole in heat exchanger coil Water section screws loose Diaphragm fitted incorrectly	Replace leaking parts Check washers, tighten connections Repair or replace heat exchanger Check water section secure screws Refit diaphragm

ON COMPLETION OF WORK TEST FOR GAS ESCAPES

# Balanced flue



This unique water heater uses outside air and doesn't rob the room of oxygen. Its twin flow (admission/exhaust) sealed construction is connected to outside air through a "suction cup" terminal piece, fitted onto the outer face of the wall. There is no need for a conventional flue.