

Gore District Council

Building Consent Issuing Process Sheet

(to be filed with the Building Consent Application)

To be used as an aid, by the Building Control Officer, when processing Building Consents at the Processing table

- It is expected that there will be a tick in every line and that this will indicate that the BC application complies with the New Zealand Building Code. If it doesn't comply leave the line blank until it does.
- The shaded areas are not to be filled in.
- This document is to be used for all Building Consent applications.

Owners Name: Barr Robert William
Project Location: 25 WILLIAM ST, GORE
Proposed job: Install diesel fired boiler heating system
Date: 2/21/2013

PIM INFORMATION DETAILS		BUILDING CATEGORIES			
Wind Zone	Medium (50) High (54) Very High (52) Extra High (178) Specific Design (184)		App	Ins	Date
Inundation	1 2 3 4 28 46 Other (detail)	RES	1	1	26/2/13
Snow Loading	5 (53) 0/5kPA (54) 4kPA (55) Specific Design (56)				Initial
Zoning	Residential (62) Commercial (63) Industrial (64) Rural (61) Mixed (177)	COM			AP
Potential contamination	NOT KNOWN	Compliance Schedule required: Y ☒ N			
Location to mines or quarry's	NOT KNOWN	New or amendment required Y ☒ N			
Heritage information	N/A	Existing Compliance Schedule: Y ☒ N			
Essential Services Information	Wastewater (180) Stormwater (181) Water (182) N/A	RBW / LBP's involved? Y ☒ N			
Vehicle access details	Roading (168) (169) (170) (171) (172) (173) N/A	Financial Contribution required: Y / N			
Planning requirements	Fire Fighting (176) NES (179) N/A	Invoice generated: Y / N			

Documents to be contained on Property file with this consent:	YES	N/A
Application Form	✓	
Plans & Specifications (site specific, stamped and signed)	✓	
Processing Check Sheet	✓	
Producer Statements		✓
Enquiries relevant to consent		✓
PIM (once granted)		
Building Consent (once granted)		
Copies of all inspection notes (including any notices to fix issued)		
Energy Certificates		
Field Sheet		
Application for CCC		
Copy of CCC		
Additional information (specify)		
As Built Plans		

OK TO APPROVE & GRANT CONSENT

YES / NO

26.02.13
 Approving Officers Signature & Date

Checked by BCM: Date: 5/3/13

Reason if no: _____

Are there consent conditions: Y ☐ N ☒

ADVICE NOTES:	
92 96 174 (public) <u>175</u> (residential)	<i>(delete if not applicable)</i>

	Clause	Items	Alternative solution	N/A	Complies		Comments Including Endorsements, Conditions & Requirements NOTE:- there must be comments
					P & D	Build	
PIM	S31 - S39	Have you filled in PIM			✓		Yes / No
BA 2005	S47	Does this application need to go to the NZFS – DRU?		✓			Yes / No
	S71 - 74	Building on land subject to natural hazards (eg inundation)		✓			Yes / No
	S75 - 83	Building on 2 or more allotments		✓			Yes / No
	S112	Alterations to existing Buildings			✓		Yes / No MINOR CHANGE INSTALL BOILER
	S100 – 107	Is a compliance schedule required		✓			Yes / No / Needs amending
	S114 – 116	Change of use		✓			Yes / No
	S118	Access and Facilities – does the building need them		✓			Yes / No
	S122	Is it an earthquake prone building		✓			Yes / No / Not known
	S222	Required inspections marked on site Inspection report sheet				✓	
B1	Structure	Foundations		✓			
		Floor & Sub-Floor		✓			
		Wall Framing				✓	ANY ALTERATION TO 3604
		Roof Framing		✓			
		Trusses require a fully developed design		✓			
		Bracing elements, floor, wall, ceiling, roof		✓			
		Other (please specify)		✓			
B2	Durability					✓	5 YEARS
C1	Outbreak of Fire	Solid Fuel Appliances		✓			
		Oil or Gas Appliances				✓	MANUFACTURES INSTRUCTIONS
C2	Means of Escape	Single Escape				✓	NO CHANGE
		Exits				✓	NO CHANGE
		Travel Distance				✓	NO CHANGE
C3	Spread of fire	External fire separation		✓			
		Internal Fire separation		✓			
		Fire protection systems		✓			
		Smoke Control		✓			
C4	Structural stability During Fire			✓			
D1	Access Routes	Disabled access		✓			
		Stairs, Handrails		✓			
		Slip resistant Surfaces		✓			
		Lift required		✓			
D2	Mechanical Installations for Access	Producer Statement required		✓			
E1	Surface Water	Confirm FFL is min. 200mm above the 2%event level		✓			
		Hard surface areas		✓			
		Drainage system		✓			

	Clause	Items	Alternative solution	N/A	Complies		Comments Including Endorsements, Conditions & Requirements NOTE:- there must be comments
					P & D	Build	
E2	External Moisture	Risk Matrix		✓			
		Cavities		✓			
		Materials		✓		XX	ORIGINAL WALL
		Penetrations/openings Flashings	✓	✓			MANUFACTURERS FLASHINGS Stand alone (RP)
E3	Internal Moisture	Impervious, Overflow, Thermal resistance, Ventilation		✓			
F1	Hazardous Agents on site	MWH via the PIM		✓			
F2	Hazardous Building Materials	Glazing		✓			
F3	Substances & Processes	Hazardous Substances PIM note (9)		✓			
		Trade waste		✓			
		Gas, Solid, Liquid			✓		480 lt tank, back to concrete (RP)
F4	Safety from Falling	Barriers		✓			
		Restrictors		✓			
5	Construction & Demolition Hazards	PIM note (13) or schedule of proposed safety procedures		✓			
F6	Lighting for Emergency	Possible compliance schedule		✓			
F7	Warning Systems	Possible compliance schedule		✓			
		Smoke alarm			✓		AS PER PLAN
F8	Signs			✓			
G1	Personal Hygiene	Number of fixtures ok?		✓			
		Location of fixtures ok?		✓			
		Type of fixtures appropriate		✓			(Mens / Womens / Uni / Accessible)
G2	Laundrying	Number of facilities ok?		✓			
G3	Food preparation and prevention of contamination	Kitchen surfaces, food storage, commercial food premises - Send to EHO		✓			
G4	Ventilation	Natural, Mechanical, gas- fuel appliances		✓			
G5	Interior Environment	Heating, Space and Accessibility requirements		✓			
G6	Airborne & Impact Sound	STC, IIC		✓			
G7	Natural Light	% of glass, Visual awareness		✓			
G8	Artificial Light	Access routes, Common spaces, exit s		✓			
G9	Electricity	Is it part of this BC application - PS1		✓			
G10	Piped Services	Fuel gas only - all others alternate solution		✓			
G11	Gas as an Energy Source	Is it part of this BC application. AS1 / NZS5261		✓			
G12	Water	Back flow prevention		✓			TO BE CHECKED ON SITE (EXISTING MAY HAVE AIR GAP WATER TANK)
		Cold Water		✓			
		Hot Water		✓			
		Non-Potable		✓			
G13	Foul Water	Drainage		✓			
		Sanitary Plumbing		✓			
		Septic tank		✓			

	Clause	Items	Alternative solution	N/A	Complies		Comments Including Endorsements, Conditions & Requirements NOTE:- there must be comments
					P & D	Build	
G14	Industrial Liquid Waste	Containment, Disposal		✓			
		Trade waste		✓			
G15	Solid Waste	Storage		✓			
		Access		✓			
		Design		✓			
H1	Energy Efficiency	R – value building		✓			
		R – value plumbing			✓		ALL RELEVANT CLAUSES
		Have you Stamped the plans and specification			✓	✓	
		Have you signed the plans and specification			✓	✓	
		Have you signed the application form			✓	✓	
		Consent documents sorted ready for issuing			✓	✓	

Date Requested	Details Information Requested	Date Received	Info Adequate		Date Re-requested	Officers Initials
			YES	NO		

Producer Statements received from: (name)	Date Author Checked	Adequate		Officers Initials
		YES	NO	

Peer Review sent to:	Date sent	Date review received	Officers Initials

CONSENT CONDITIONS:	(These can only be the 5 prescribed conditions as allowed under the Building Act)

Form 2 Application for Building Consent and/or Project Information Memorandum Section 33 or 45, Building Act 2004

Gore District Council

29 Civic Avenue, P O Box 8, Gore 9740, New Zealand
Phone 03 209 0330 | Fax 03 209 0357 | Website goredc.govt.nz



1. THE BUILDING [If item is not applicable put NA in the space]

Street address of building: 25 William Street
GORE

[If no street address – details of nearest intersection]

Legal description of land where building is located: Lot 8 DP 2081
Site area :m2. Sec Block.....
Building name: Valuation Number 20800 48100

Location of building within site/block number: [Include nearest street access]
N/A

Number of levels: [Above & below ground] 1 Level /Unit Number: N/A

Floor area: (sq m) [Indicate area affected by the building work]

Current, lawfully established, use: Dwelling Year First Constructed : N/A

[Add no. of occupants per level and per use if more than 1]

OFFICE USE ONLY:

Consent /PIM Number :

207542/1

Compliance Schedule No:

Date received:

21-2-13

2. APPLICATION [Tick if applicable]

I request that you issue a (for the building work described in this application)

☐ Project Information Memorandum (PIM)

☐ Project Information Memorandum (PIM) and Building Consent

☒ Building Consent The existing PIM No [If applicable] is :

☐ Amendment to an existing Building Consent. The existing BC No is :

State the reference number if this application involves a National Multiple Use Approval:

Name: Shaun Eckert

Signature: [Signature]

Date: 12/2/2013

The signature is that of the ☐ Owner OR the ☒ Agent on behalf of and with the approval of the Owner

3. THE PROJECT

DESCRIPTION OF BUILDING WORK: (Provide sufficient information below to enable scope of work to be fully understood)

Installation of a diesel fired central heating system.

Current use of building: Dwelling [E.g. Home, implement shed, office]

Will the building work result in a change of use of the building? ☐ Yes ☒ No. If Yes, provide details of the new use of the building:

Intended life of the building if less than 50 years: N/A [Years]

List Building Consents previously issued for this project (if any): N/A

Estimated value of the building work on which the building levy will be calculated (including goods and services tax):

\$ 19,000.00

[State estimated value as defined in section 7 of the Building Act 2004]



4. OWNER

Name of Owner: Robert & Katherine Barrow
Contact person:
Mailing address: 25 William Street
GORE
.....
Street address/registered office:
.....
Phone No.: Landline: (03) 208 7090
Mobile:
Daytime:
After hours:
Facsimile:
Email:
Website:

THE FOLLOWING EVIDENCE OF OWNERSHIP IS ATTACHED:

- ☐ Certificate of Title ☐ Lease Agreement
☐ Agreement for Sale and Purchase ☒ Other document Rate

5. AGENT [Only required if application is being made on behalf of the owner]

Name of Agent: Pipewarx Heating Ltd
Contact person: Shaun Eckhout
Mail address: 44 Broughton St
GORE 0740
.....
Street address/registered office: 44 Broughton Street
GORE 0710
.....
Phone No.: Landline: 03 208 3580
Mobile: 027 816 8504
Daytime:
After hours:
Facsimile:
Email: Sales@pipewarx.net.nz
Website:
Relationship to owner: [State details of the authorisation from the owner to make the application on the owner's behalf] Agent - We get the
Bl consent as per quotation

FIRST POINT OF CONTACT for communications with the Council / Building Consent Authority:☐ Owner☒ Agent

Or: (If different to above details) Name: Email:

Mailing Address: Phone: Facsimile:

6. RESTRICTED BUILDING WORKWill the building work include any restricted building work? ☐ Yes ☒ No

If Yes, provide the following details of all licensed building practitioners who will be involved in carrying out or supervising the restricted building work (If these details are un-known at the time of the application, they must be supplied before the building work begins.):

Name	Licensing Class	Licensed Building Practitioner Number (or registration number if treated as being licensed under section 291 of the Building Act 2004)

Note: Continue on another page if necessary**7. PROJECT INFORMATION MEMORANDUM** [Do not fill in this section if the application is for a building consent only]

The following matters are involved in the project: [Tick the matters relevant to the project]

- ☒ Subdivision
☐ Alterations to land contours [e.g. digging out the site for a building platform]
☐ New or altered connections to public utilities [e.g. Council sewer, storm water or water mains]
☐ New or altered locations and/or external dimensions of buildings
☐ New or altered access for vehicles
☐ Building work over or adjacent to any road or public place
☐ Disposal of stormwater and wastewater
☐ Building work over any existing drains or sewers or in close proximity to wells or water mains
☐ Other matters known to the applicant that may require authorisations from the Territorial Authority: [Specify]
.....
- N/A

8. BUILDING CONSENT

The following plans and specifications are attached to this application:

Evidence of ownership, floor plan, diesel boiler & tank specs.

THE BUILDING WORK WILL COMPLY WITH THE BUILDING CODE AS FOLLOWS:

Building Code Clause <i>Tick relevant clauses</i>	Means of Compliance <i>Tick relevant compliance path(s) for each clause selected.</i>				
	Acceptable Solution	NZS 4121 Accessible Design	Verification Method	Alternative Solution <i>Please complete Form SBCG 34.1</i>	Waiver/Modification <i>Please complete Form SBCG 23.1</i>
☒ B1 Structure	☐ B1/AS1 ☐ B1/AS3		☐ B1/VM1 ☐ B1/VM4	☐	☐
☒ B2 Durability	☐ B2/AS1		☐ B2/VM1	☐	☐
☐ C1-4 Fire Safety Clauses	☐ C/AS1		☐ C/VM1	☐	☐
☐ D1 Access routes	☐ D1/AS1	☐	☐ D1/VM1	☐	☐
☐ D2 Mechanical installation for access	☐ D2/AS1 ☐ D2/AS2 ☐ D2/AS3	☐		☐	☐
☐ E1 Surface water	☐ E1/AS1		☐ E1/VM1	☐	☐
☐ E2 External moisture	☐ E2/AS1 ☐ E2/AS2 ☐ E2/AS3		☐ E2/VM1	☐	☐
☐ E3 Internal moisture	☐ E3/AS1			☐	☐
☐ F1 Hazardous agents on site			☐ F1/VM1	☐	☐
☐ F2 Hazardous building materials	☐ F2/AS1			☐	☐
☐ F3 Hazardous substances and processes			☐ F3/VM1	☐	☐
☐ F4 Safety from falling	☐ F4/AS1			☐	☐
☐ F5 Construction and demolition hazards	☐ F5/AS1			☐	☐
☐ F6 Visibility in escape routes	☐ F6/AS1			☐	☐
☒ F7 Warning systems	☐ F7/AS1			☐	☐
☐ F8 Signs	☐ F8/AS1	☐		☐	☐
☐ G1 Personal Hygiene	☐ G1/AS1	☐		☐	☐
☐ G2 Laundering	☐ G2/AS1	☐		☐	☐
☐ G3 Food preparation and prevention of contamination	☐ G3/AS1	☐		☐	☐
☐ G4 Ventilation	☐ G4/AS1		☐ G4/VM1	☐	☐
☐ G5 Interior environment	☐ G5/AS1	☐		☐	☐
☐ G6 Airborne impact sound	☐ G6/AS1		☐ G6/VM1	☐	☐
☐ G7 Natural light	☐ G7/AS1		☐ G7/VM1	☐	☐
☐ G8 Artificial light	☐ G8/AS1		☐ G8/VM1	☐	☐
☐ G9 Electricity	☐ G9/AS1		☐ G9/VM1	☐	☐
☐ G10 Piped services	☐ G10/AS1		☐ G10/VM1	☐	☐
☐ G11 Gas as an energy source	☐ G11/AS1			☐	☐
☐ G12 Water supplies	☐ G12/AS1 ☐ G12/AS2		☐ G12/VM1	☐	☐
☐ G13 Foul water	☐ G13/AS1 ☐ G13/AS2 ☐ G13/AS3		☐ G13/VM1 ☐ G13/VM4	☐	☐
☐ G14 Industrial liquid waste	☐ G14/AS1		☐ G14/VM1	☐	☐
☐ G15 Solid waste	☐ G15/AS1			☐	☐
☐ H1 Energy efficiency	☐ H1/AS1		☐ H1/VM1	☐	☐

9. COMPLIANCE SCHEDULE (specified systems are defined in regulations)

- ☐ The specified systems for the building are as follows:
- ☐ The following specified systems are being altered, added to, or removed in the course of the building work:
- or
- ☒ There are no specified systems in the building

Please provide the details required by completing either form :

- SBCG27 Compliance Schedule Specified Systems (or)
- SBCG11 Application for amendment to Compliance Schedule

10. ATTACHMENTS

The following documents are attached to this application: [Tick as applicable]

- ☒ Plans and specifications (list) *Evidence of ownership, floor plan, diesel boiler & tank specs.*
- ☐ Memoranda from licensed building practitioner(s) who carried out or supervised any design work that is restricted building work
- ☐ Project Information Memorandum ☐ Development contribution notice ☐ Certificate attached to Project Information Memorandum
- ☐ Other information relevant to this application: [Please specify]:

11. CONTACTS (involved in this project)

Designer

Name(s):

Postal Address:

Cellphone: Daytime:

Reg No: Email:

Engineer

Name(s):

Postal Address:

Cellphone: Daytime:

Reg No: Email:

Builder

Name(s):

Postal Address:

Cellphone: Daytime:

Reg No: Email:

Gasfitter

Name(s):

Postal Address:

Cellphone: Daytime:

Reg No: Email:

Drainlayer

Name(s):

Postal Address:

Cellphone: Daytime:

Reg No: Email:

Plumber

Name(s): *PIDEMONY Heating Ltd*

Postal Address: *PO Box 70*
GORE 0740

Cellphone: *0278168564* Daytime: *(03) 208 3580*

Reg No: Email:

Electrician

Name(s):

Postal Address:

Cellphone: Daytime:

Reg No: Email:

Other

Name(s):

Postal Address:

Cellphone: Daytime:

Reg No: Email:

13. Applicant / Agent's Check

Tick if provided or note as N/A where not applicable

Landowners information

This information should match information found on the rates assessment or Certificate of Title

Owners Agent information

This is only relevant when agent is working on behalf of the owner

Building Location

This information can be found on the rates assessment, Certificate of Title, or a Sales and Purchase Agreement

Description of Work

What is the building consent application for? Does the description of work accurately represent the work being undertaken?

Intended Use

This is the buildings use eg. dwelling

Building Code Clauses

Method of compliance with the Building Code

Value of Work

What is the value of work that is covered by the consent application

Application Form Signed

The application cannot be accepted if not signed

Memorandum – Certificate of Design Work

Has the designer provided the Form 2A for RBW

Licensed Building Practitioners identified (Form 2A)

Yes ☐ Some known ☐ Not yet identified ☐

Are the Designer and LBP's specified licensed for the RBW being undertaken

Registered Architect and CP-Engineer are deemed to be licensed Designers

14. Miscellaneous

Vehicle Access

Street Crossing New ☐ Existing ☒
Rural Access New ☐ Existing ☐
Rapid No. Required Yes ☐ No ☐
Street No. Required Yes ☐ No ☐

Note: All new or altered vehicle access require approval from the Roadway Department prior to installation. Street numbers and RAPID numbers must be issued by Council's GIS Department – please **do not** allocate or assume numbers yourself.

Utilities

New Water Connection Yes ☐ No ☐
New Sewage Connection Yes ☐ No ☐
New Stormwater Connection Yes ☐ No ☐

Note: If a new water connection is required, there is a separate application form and fee payable. Please enquire at the reception area in the Regulatory Department.

Trade Waste

The Trade Waste Bylaw 2008 regulates the discharge of Trade Waste to Gore District Council's Sewerage Systems operated by or on behalf of the Council as Wastewater Authority.

Does this consent require:

Trade Waste to be considered? Yes ☐ No ☐
Has an application been lodged? Yes ☐ No ☒

Council Use Only ↓

	Y	N/A
Application Form 2 Complete	☒	☐
Form 2A – Certificate of Design - RBW	☐	☒
Site Plan	☒	☐
Elevations	☐	☒
Floor Plan (existing, proposed, new)	☒	☐
Truss Details	☐	☒
Producer Statement	☐	☒
Specification (job specific)	☐	☒
Heater Installation & Flue Details	☒	☐
Plumbing & Drainage Plans	☐	☒
3 Complete Sets of Documents (x 3)	☒	☐
PIM (transportable)	☐	☒

The above is satisfactory for this application to be accepted for processing: ☒ Y ☐ N Date: 21-2-13

First Point of Contact

☐ Owner ☒ Agent

Consent posted to

☐ Owner ☒ Agent

Consent Fees

Building Consent \$ 330-00
Accreditation Levy \$ 19-00
BRANZ Levy \$
DBH Levy \$
Street Asset Deposit \$
Resource Consent \$
Other \$
Total Fee Payable \$ 349-00

Receipt Number 368398
Cash/Chq/Eftpos/EB
Consent paid for by: ☐ Owner ☒ Agent ☐ Other

Approvals

	Checked	Date	NA
Building	<i>Enter</i>	26-02-13	
Plumbing	<i>Enter</i>	26-02-13	
Drainage			☒
Planning			☒
Roadway			☒
Utilities			☒
Reserves			☒
Licensing			☒
Parking			☒
External Engineer			☒
NZ Fire Service			☒

	Yes	No
Compliance Schedule Required	☐	☒
Section 37 Notice Required	☐	☒
Section 72 - 75 Notice Required	☐	☒

Approved for Issue:

Officers Signature

Date

BUILDING CONSENT No. 207542 / 1

Section 51, Building Act 2004



29 Civic Avenue
P O Box 8
GORE
Phone (03) 209 0330
Fax (03) 209 0357

The Owner:

Name of Owner:

Barr Robert William

Barr Katherine Jane

Mailing address:

25 William Street

GORE 9710

Phone numbers:

Landline:

Mobile:

Daytime:

After hours:

Facsimile number:

Email address:

Contact Details:

Contact name:

Pipeworx

Mailing address:

PO Box 70

GORE 9740

Phone numbers:

Landline:

Mobile:

Daytime: **(03) 208 3580**

After hours:

Facsimile number:

Email address:

The Building:

Street address of building:

25 WILLIAM ST, GORE

Legal description of land where building is located:

LOT 8 DP 2981

Valuation No: 29800 / 48100

Building Work:

The following building work is authorised by this building consent:

Install diesel fired boiler heating system

This building consent is issued under section 51 of the Building Act 2004. This building consent does not relieve the owner of the building (or proposed building) of any duty or responsibility under any other Act relating to or affecting the building (or proposed building).

This building consent also does not permit the construction, alteration, demolition, or removal of the building (or proposed building) if that construction, alteration, demolition, or removal would be in breach of any other Act.

This building consent is subject to the following construction endorsements:

No conditions were required on this consent

Compliance Schedule:

A compliance schedule **is not** required for the building.

Attachments:

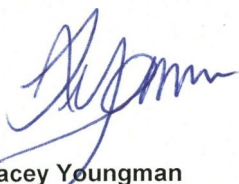
Copies of the following documents are attached to this building consent:

Project Information Memorandum number : 207542 / 1

Development contribution notice: N/A

Certificate attached to project information memorandum: N/A

Site Inspection Record: 207542 / 1



Tracey Youngman

Issuing Officer

On behalf of: **Gore District Council**

Date: **5 March 2013**

Advice Notes are attached to this Building Consent.

Please ensure that the signed and stamped documents are kept onsite during the construction process.

ADVICE NOTES

Consent No: 207542 / 1

Name: Barr Robert William Barr Katherine Jane

Address: 25 WILLIAM ST, GORE

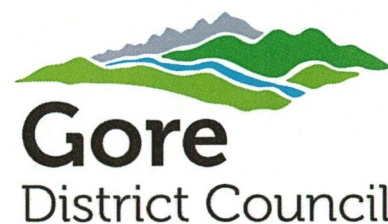
Description of works: Install diesel fired boiler heating system

These Advice Notes shall be read in conjunction with the above building consent.

-
- Smoke alarms with hush facility to be installed in dwelling as per NZBC F7.
- Heating unit to be installed in accordance with consented details and manufacturers instructions. Ensure that you contact the Gore District Council when the heating unit is installed to arrange for an inspection. No heater is to be lit until an inspector has approved the installation. The ceiling plate MUST be down at the time of inspection to allow viewing.

PROJECT INFORMATION MEMORANDUM No. 207542

Section 33, Building Act 2004



29 Civic Avenue
P O Box 8
GORE
Phone (03) 209 0330
Fax (03) 209 0357

The Owner:

Name of Owner:

Barr Robert William
Barr Katherine Jane

Mailing address:

25 William Street
GORE 9710

Phone numbers:

Landline:

Mobile:

Daytime:

After hours:

Facsimile number:

Email address:

Contact Details:

Contact name:

Pipeworx

Mailing address:

PO Box 70
GORE 9740

Phone numbers:

Landline:

Mobile:

Daytime: **(03) 208 3580**

After hours:

Facsimile number:

Email address:

The Building:

Street address of building:

25 WILLIAM ST, GORE

Legal description of land where building is located:

LOT 8 DP 2981

Valuation No: 29800 / 48100

Description of Building Work:

This PIM is issued for the following building work:

Install diesel fired boiler heating system

This Project Information Memorandum is issued under Section 33 of the Building Act 2004 and includes all information known to this authority.

This Project Information Memorandum is subject to the following conditions.

Council's MapInfo system indicates that the wind zoning for this site is Medium. Site specific verification will be required. NZS 3604:2011 and AS/NZS 1170 are two methods available under the NZ Building Code for verification of wind zones.

This site is shown to be clear of inundation on records provided by Environment Southland.

According to our records, this site is located in Snow Zone : 5

According to our records, the Snow Loading for this site is 0.5 kPA
Residential Zone.

Attachments:

There are no attachments with this Project Information Memorandum



Tracey Youngman

Issuing Officer

On behalf of: Gore District Council

Date: 5 March 2013

CODE COMPLIANCE CERTIFICATE 207542 / 1

Section 95, Building Act 2004



29 Civic Avenue
P O Box 8
GORE
Phone (03) 209 0330
Fax (03) 209 0357

The Owner:

Name of Owner:

Barr Robert William

Barr Katherine Jane

Mailing address:

25 William Street

GORE 9710

Phone numbers:

Landline:

Mobile:

Facsimile number:

Email address:

The Building:

Street address of building:

25 WILLIAM ST, GORE

Legal description of land where building is located:

LOT 8 DP 2981

Valuation No: 29800 / 48100

Current, lawfully established, use: **Dwelling**

Year first constructed: **1940s**

Contact Details:

Contact name:

Pipeworx

Mailing address:

PO Box 70

GORE 9740

Phone numbers:

Landline:

Mobile:

Facsimile number:

Email address:

Building Work:

Building Work:

Install diesel fired boiler heating system

Building consent number:

207542 / 1

Issued by:

Gore District Council

Code compliance

The building consent authority named below is satisfied, on reasonable grounds, that —

(a) the building work complies with the building consent

Gillian Bedwell
Issuing Officer

On behalf of: **Gore District Council**

Date: **10 April 2013**

Limitations of this Code Compliance Certificate 207542 / 1

- This Code Compliance Certificate has been issued because the Gore District Council was satisfied, on reasonable grounds, that at the date of its issue, the building work was completed in accordance with the Building Code in force at the date of issuing the Building Consent, (and where applicable, any previously approved waiver or modification of the Building Code contained in the building consent for the work).
- Since the date the Building Consent was granted, the Building Code may have been amended. This certificate is not a representation that the building work meets the requirements of any amendments to the Building Code made since the Building Consent was issued.
- This Code Compliance Certificate is not a guarantee that the whole of the work has been completed in accordance with the Building Code or Building Consent, but that the Council was reasonably satisfied.
- The Code Compliance Certificate relates only to the state of the building work at the date of issue, and is not a statement that the building will remain sound throughout its life.
- Various types of building methods and materials do have specific requirements for ongoing inspection, cleaning & maintenance. The owner needs to be familiar with these standard practices, manufacturer's instructions, and warranty conditions which must be complied with in order to maintain the integrity of the building work. All materials and components will deteriorate over time.
- Regular Inspection and maintenance by the building owner is particularly important in the harsh environment and climate experienced in the Gore District. In some cases – complete replacement of building components will be a requirement where they have deteriorated, or have passed their manufacturer's warranty period – for example – sealants, waterproofing membranes, paint coatings.
- No representation is made as to the compliance of all items of building work on the specific site to which this Code Compliance Certificate pertains. This certificate relates solely to the building work specifically described in it. It does not relate to any other work. The Gore District Council cannot be held responsible for any other subsequent, or preceding building work, including maintenance, which has been done other than in accordance with an approved building consent.
- Nobody should rely solely upon this Code Compliance Certificate as representing that the building work is weather tight or otherwise sound, fit for its purpose and of acceptable quality. It is a snapshot only, which assesses the Building's compliance with the Building Consent, and Building Code on the date of issue. The soundness of the building will depend, among other things on its subsequent use and the ongoing maintenance performed.

FIELD/INSPECTION SHEET

Building Consent No 207542

Date Applied: 2/21/2013

Contractor: **Pipeworx**

Owner: Barr Robert William

Project Description: Install diesel fired boiler heating system

Project Address: **25 WILLIAM ST**

Officer Name: *Steve Holder*

Officer Signature: *[Signature]*

All building elements must be ticked (✓) either Y:Yes, N:No, or NA

General				Building Envelope			
Building Element	Y	N	NA	Building Interior	Y	N	NA
Have all previous inspections passed?	✓			Warning Systems / Smoke Alarms	✓		
Are there any outstanding requisitions?		✓		Personal Hygiene			✓
Have all energy certificates been received?			✓	Laundrying			✓
Have all producer statements been received?			✓	Lighting			✓
Building Exterior				Seismic Restraints	✓		
Gutters			✓	Waste Traps			✓
Down-pipes			✓	Wall and Ceiling Linings			✓
Surface water disposal			✓	Joinery			✓
Protection from flooding			✓	Glazing			✓
Access routes			✓	Slip Resistance			✓
Barriers/Handrails			✓	Barriers/Handrails			✓
Gully Traps			✓	Internal Moisture			✓
Venting			✓	Food Preparation			✓
Manholes			✓	Airborne and Impact Sound			✓
Silt-Traps			✓	Solid Fuel Heater <i>orl</i>	✓		✓
Wall Cladding			✓	Electricity			✓
Wall Flashing Details			✓	Energy Efficiency			✓
Wall Junction Details			✓	Gas			✓
Roof Covering			✓	Ventilation			✓
Roof Flashing Details			✓				
Misc Penetrations			✓				
Flat Roofing System			✓				

SITE INSPECTIONS REQUIRED					
CONSTRUCTION			PLUMBING / DRAINAGE		
Inspections	Signature	Date	Inspections	Signature	Date
☐ Siting			☐ Underfloor		
☐ Foundations/piles			☐ Prelining pipe		
☐ Pole holes (sheds)			☐ Waste and soil		
☐ Pre-floor Slab			☐ Foul water		
☐ Sub floor framing			☐ Stormwater		
☐ Blockwork			☐ Driveway sump		
☐ Cavity batten preline			☐ Water Heater / Wetback		
☐ Window flashings/tape			☐ Tempering valve		
☐ ½ height brick cavity			☒ Backflow preventor <i>TO BE CHECKED</i>	<i>D</i>	<i>10.4.13</i>
☐ Bracing fixings/screws			☐ Drainage plan		
☐ Pre-roof fixings/screws			☐ Effluent field		
☐ Moisture content			☒ Street/Road opening	<i>D</i>	<i>10.4.13</i>
☐ Framing prelining			☒ FINAL		
☐ Insulation					
☐ Claddings			OTHER DETAILS		
☐ Disabled facilities			☐ Compliance Schedule		
☐ Fire ratings			☐ Evacuation Scheme		
☒ Smoke alarms	<i>D</i>	<i>10.4.13</i>	☐		
☒ Heating appliance	<i>D</i>	<i>10.4.13</i>	☐		
☒ FINAL	<i>D</i>	<i>10.4.13</i>	☐		

[illegible]

Comments:

Inspection Notes / Comments continued (Tick P : Pass or F : Fail and initial)

(Tick P : Pass or F : Fail and initial)

[illegible]

OK to Issue CCC Yes / No

Date _____



**IMPORTANT : Please
give this form to the
Building Inspector at
the Final Inspection.**

APPLICATION FOR CODE COMPLIANCE CERTIFICATE

Section 92, Building Act 2004

Building Consent No: **207542 / 1**
 Issued by: Gore District Council
 Location: **25 WILLIAM ST, GORE**
 Description of work: **Install diesel fired boiler heating system**

Owners Name: Barr Robert William
Postal Address: 25 William Street
 GORE 9710

Landline:
Mobile:
Fax:

Contact Name: Pipeworx
Postal Address: PO Box 70
 GORE 9740

Landline:
Mobile:
Fax:
Email:

The following evidence of ownership is attached to this application showing full name of legal owner(s) of the building:

- ☐ copy of certificate of title
☐ Lease
☐ agreement for sale and purchase
☐ other (*specify*)

Agent:

(only complete this section if the application is being made on behalf of the owner)

Name of Agent:

Contact Person:

Mailing Address:

Street Address:

Contact Phone: Cell Phone:

After Hours: Fax Number:

Email Address: Website:

Relationship to Owner:

First point of Contact:

The first point of contact with the Building Consent Authority (Gore District Council) regarding this consent is:

- ☐ Owner
☐ Agent detailed above; or
☐ Contact Person detailed above
☐ Other (*specify*)

Application:

All building work to be carried out under the above building consent was completed on:

The licensed building practitioner(s) (LBP's) who carried out or supervised the restricted building work is/are as follows:

Name	Licensing Class	Licensed building practitioner number (or registration number if treated as being licensed under Section 291 of Building Act 2004)	Particular work carried out or supervised

The personnel who carried out building work other than restricted building work are as follows:

.....
.....
.....

.....
List names, address, phone numbers, and where relevant and if not provided above) licensed building practitioner numbers or Plumbers, Gasfitters, and Drainlayers Board registration numbers. Please continue on additional sheet if required.

The following specified systems are contained on the compliance schedule for the building and, in the opinion of the personnel who installed them, are capable of performing to the performance standards set out in the building consent: *(List specified systems)*

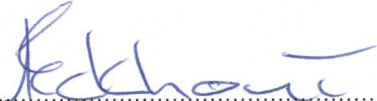
.....
.....
.....

Please continue on additional sheet if required.

I request that you issue a code compliance certificate for this work under Section 95 of the Building Act 2004.

The code compliance certificate should be sent to:

- ☐ Owner;
☒ Agent detailed above; or
☐ Contact Person detailed above;
☐ Other *(specify)*



Signature of owner/agent

on behalf of and with the authority
of the owner (delete one)



**Name of Person
Signing**



Date

Attachments

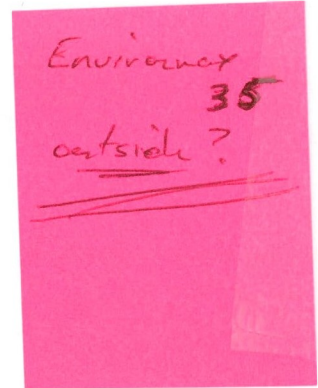
The following documents are attached to this application *(please tick)*:

- ☐ Memoranda (records of building work) from licensed building practitioner(s) stating what restricted building work they carried out or supervised.
☐ Other documents from the personnel who carried out the work.
☐ Evidence that specified systems are capable of performing to the performance standards set out in the building consent.



12th February 2013

Gore District Council
P O Box 8
GORE
ATTENTION: BUILDING DEPARTMENT



RE: ROBERT & KATHERINE BARR, 25 WILLIAM STREET, GORE

Dear Sir/Madam,

Please find enclosed an application for a building consent to be lodged for the above name. We would appreciate if this could be done as soon as possible.

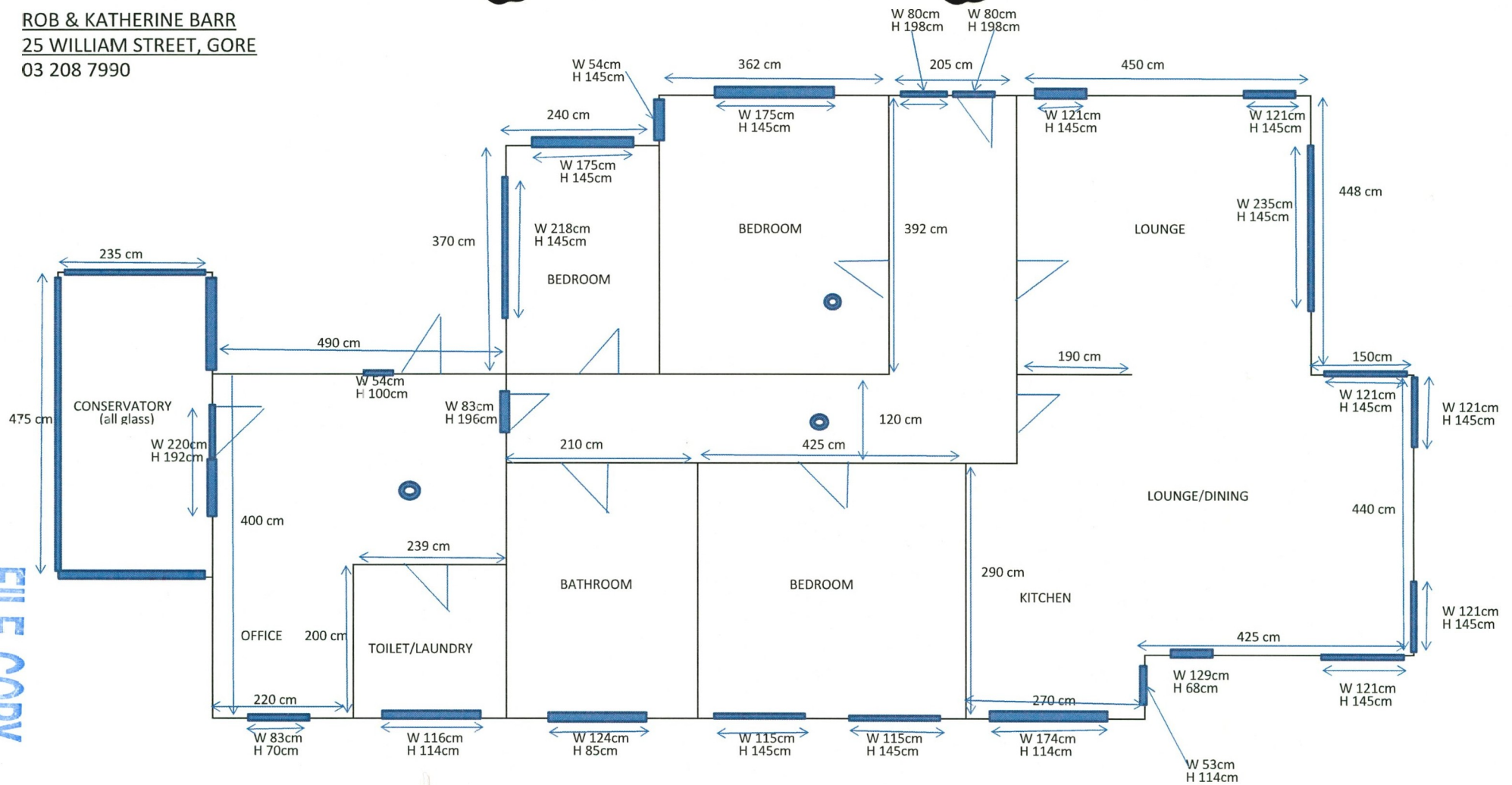
If you have any questions or require any further information, please phone Shaun on 027 816 8564.

Kind regards,

Shaun Eckhout
MANAGER

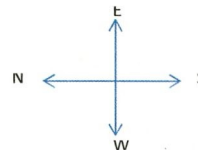
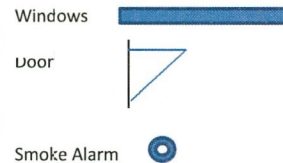
Installation of a Diesel Central Heating System Running to Radiators

ROB & KATHERINE BARR
25 WILLIAM STREET, GORE
03 208 7990



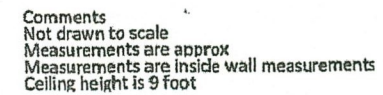
FILE COPY

GORE DISTRICT COUNCIL	
Consent No. 207542/1	Building 26-02-13
Plumbing 26-02-13	Drainage
Planning	Roading
Utilities	Reserves
Licensing	Parking
Date	Initials



Comments
Not drawn to scale
Measurements are approx
Measurements are inside wall measurements
Ceiling height is 9 foot

ROB & KATHERINE BARR
25 WILLIAM STREET, GORE
03 208 7990



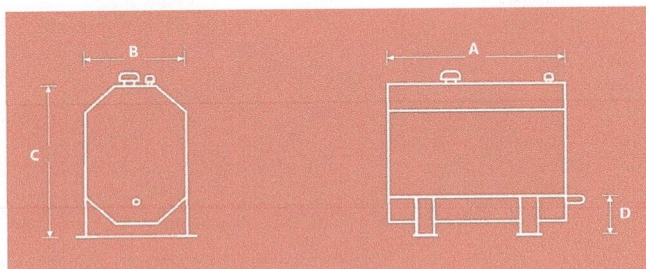
DIESEL TANKS & BUNDS

Aluminium Diesel Tanks

FEATURES

- Welded aluminium construction
- Designed for above ground, stationary installation only
- Suitable for diesel fuel storage
- Manufactured within an ISO 9001: 1994 QA System
- Fuel Gauge Port for Apollo Wireless Liquid Level Monitor

STORAGE CAPACITY	480 LITRE	960 LITRE
A: Overall Length	1200 mm	1200 mm
B: Overall Width	559 mm	700 mm
C: Overall Height	902 mm	1282 mm
D: Outlet Height	130 mm	145 mm
Fuel Outlet	10 mm BSP male	10 mm BSP male
Empty Weight	38 kg	65 kg
Drain Bung	25 mm	25 mm
Fuel Gauge Port	32 mm	32 mm



480 Litre
Diesel Tank



960 Litre Diesel Tank

DIESEL TANK REGULATORY INFORMATION

- Designed and manufactured to current ERMA New Zealand requirements for Hazardous Substances (Transfer notice 2004, ACT 1996), Class 3.1D of Hazardous Substances, Diesel Fuel Oil;
- Welding in accordance to AS 1665-1992 (*Welding of Aluminium Structures*). Welding procedure for tank qualified as GP (*general purpose*);
- Tank is classified as Category 1 in accordance to Standard AS1692-2006 (*Steel tanks for flammable and combustible liquids*);
- Plans of tank and details on tank support are certified by Registered Engineer to complying with AS/NZS1170.

DIESEL TANKS & BUNDS

Bunds

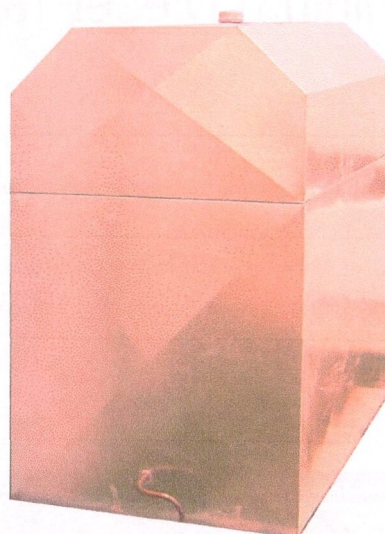
Some local authorities require diesel tank installations to have a protective outer tank, or bund, to prevent against spills. Central Heating New Zealand offer bunds for both available diesel tank sizes.

Refer to your local council for diesel tank and bund requirements.

FEATURES

- Galvanised Steel Construction
- Weatherproof design
- Designed to hold total volume of fuel tank
- Lid can be cut to allow for Wireless Liquid Level Monitor

FUEL TANK SIZE	480 LITRE	960 LITRE
A: Overall Length	1485 mm	1485 mm
B: Overall Width	630 mm	785 mm
C: Overall Height	935 mm	1315 mm



960 Litre Diesel Tank with bund fitted



Typical bund & tank installation with Firebird Heatpac external diesel boiler

Specifications are given as guide only and the right is reserved to change specifications, colour and prices of the models & items illustrated at time of the publication. Central Heating New Zealand cannot accept any liability for errors or omissions. For further details contact Central Heating New Zealand on 03 357 1233 or info@centralheating.co.nz



Central Heating
NEW ZEALAND

Authorised Dealer

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25 William Street

Date: 19/02/2013

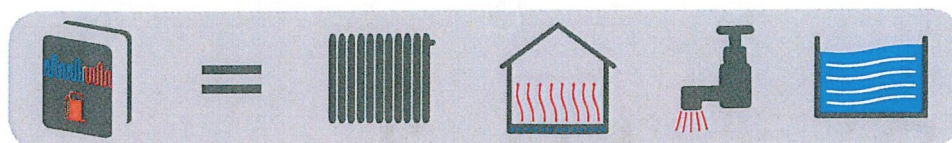
Scale 1:159

Ref:

NORTH
PO Box 8, Gore
Ph (03) 209 0330
www.goredc.govt.nz

Gore
District Council

Firebird Diesel Boilers



How does a Firebird Diesel Boiler heat my home?

Firebird boilers are compact and powerful heating units. They burn diesel fuel to heat up water that is piped around the home, heating radiators, underfloor heating, domestic hot water, spas and swimming pools. Transferring heat in this way is very efficient and silent; to transfer the same amount of heat as you can pumping 1 litre of water you would have to pump 1700 litres of air.

The boiler is controlled automatically by thermostats and timers, running for months with virtually no attention other than making sure there is fuel in the fuel tank.

Manufactured in Ireland, Firebird boilers are leaders in innovative technologies and efficiency, easily exceeding New Zealand's stringent emission laws. They are the most popular heat source in the South Island and rural New Zealand due to a combination of low capital and running cost. The latest condensing range can reduce bills by 20% over standard versions (seasonal efficiency). Biodiesel versions are available.

Description

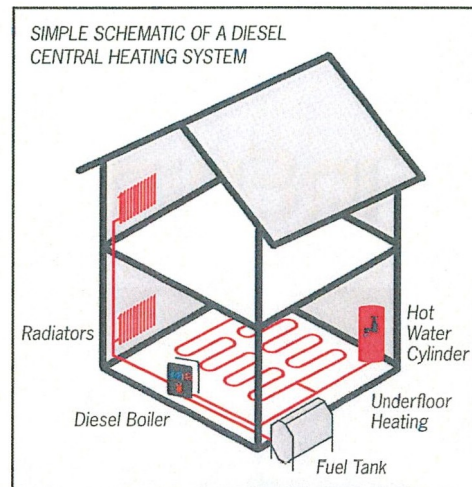
Diesel boilers are floor standing and typically, they measure 900mm high x 600mm wide x 600mm deep, about the same size as a modern washing machine. All models are flued externally and are convenient to place inside the house due to the compact size and virtually silent and odourless operation of the boiler. Typical positions for the boiler are in an attached garage, laundry or cupboard, or outhouse.

Diesel boilers require the installation of a fuel tank outside the house. Local authority

laws sometimes require a bund or secondary containment for the fuel tank to be installed as well. Fuel tanks are installed on a concrete pad. A 480 litre tank measures 1200mm x 530mm x 900mm – only slightly larger than a four bottle gas station. Diesel fuel delivery is available in all urban and rural areas in New Zealand.

How do they work?

Firebird boilers use high tech Riello Snorkel Burners. They are designed to be installed with a balanced flue. This is a concentric arrangement where the intake of air for combustion is drawn into the burner from around the outside of the exhaust, meaning that the flue has a cool exterior. This enables efficiency of up 90% for the standard version and 98% for the Enviromax Condensing versions. It is smokeless and

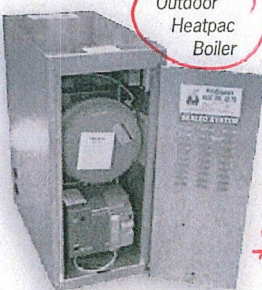


odourless at the flue terminal with extremely quiet boiler operation.

The boiler is controlled by a thermostat programmer located within the house. Being fully programmable, desired comfort levels can be achieved at any time of the day or night. Manual override is a standard feature. This control and the reliability of the boiler ensures a 'No Fuss' hands-off heating system.



Indoor System Boiler



Outdoor Heatpac Boiler

Firebird System Boilers

CODE	DESCRIPTION	OUTPUT (kW)	DIMENSIONS
FB90SS	90 Sealed System	20-26kW	840x505x600
FB120SS	120 Sealed System	26-35kW	840x545x600
FB150BS	150 Basic Boiler	35 - 44 kW	1045x442x704

Firebird Enviromax High Efficiency System Boilers

CODE	DESCRIPTION	OUTPUT (kW)	DIMENSIONS
FBE26	Enviromax C26 System	26 kW	845x545x600
FBE35	Enviromax C35 System	35 kW	845x545x600

Firebird Heatpac System Boilers

CODE	DESCRIPTION	OUTPUT (kW)	DIMENSIONS
FBHP90BASSLM	Heatpac 90 System Slimline	20 - 26 kW	410x760x925
FBHP120BAS	Heatpac 120 System	26 - 35 kW	625x665x945
FBE26HP	Enviromax C26 Heatpac	26 kW	945x715x625
FBE35HP	Enviromax C35 Heatpac	35 kW	945x715x625



Heat large spaces with radiators & underfloor heating

Systems supplied by:

The company named above is an approved supplier and/or installer of Central Heating New Zealand products.



Central Heating
NEW ZEALAND

11 Parkhouse Rd, Sockburn
PO Box 31-274, Christchurch.
Ph 03 357 1233 Fax 03 343 1236.
Email info@centralheating.co.nz.
www.centralheating.co.nz



FIREBIRD

ENVIROMAX

CONDENSING RANGE

TECHNICAL MANUAL

For use with Kerosene 28 Sec. Oil

TECHNICAL MANUAL INCLUDES

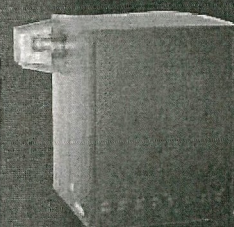
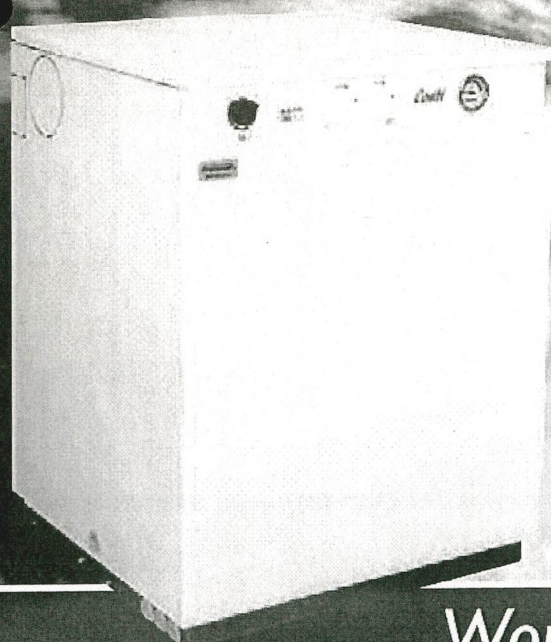
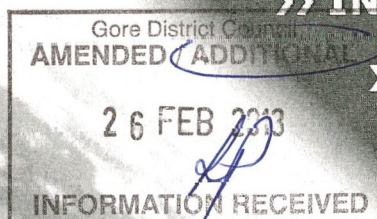
>> HOUSEHOLDER INSTRUCTIONS

>> INSTALLER GUIDE

>> COMMISSIONING

>> SERVICING

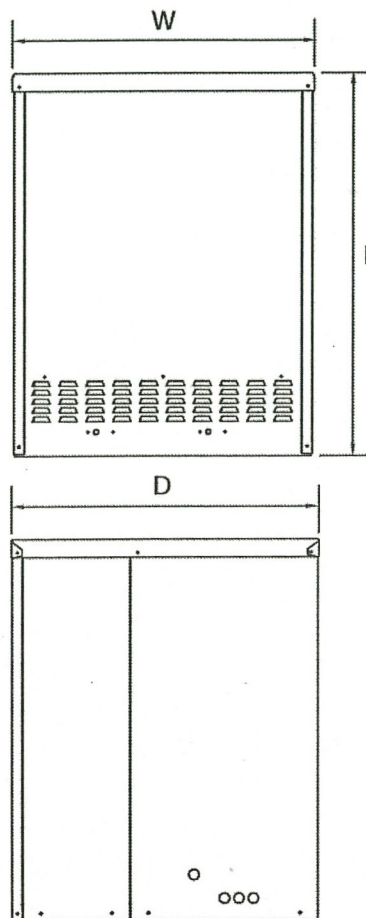
>> SPARE PARTS



Working towards a greener planet

This manual must remain with the householder on completion of installation

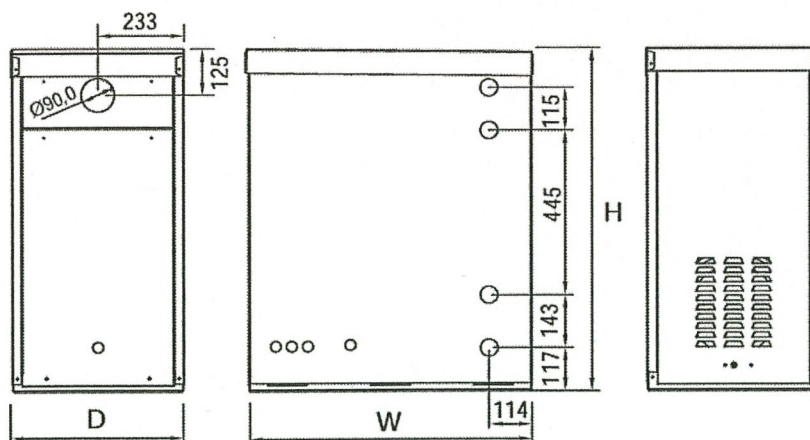
Firebird Enviromax Heat Pac C Range Dimensions (mm)



COMBI, SYSTEM & HEAT PAC

Model	Output	Weight	Dimensions(mm)		
Enviromax	Kw/hr	kg	H	W	D
Heatpac	C20	151	945	715	625
Heatpac	C26	154	945	715	625
Heatpac	C35	158	945	715	625
Heatpac	C44	244	1074	843	856
Heatpac	C58	250	1074	843	856
Heatpac	C73	280	1200	903	856
Systempac	C20	160	945	715	625
Systempac	C26	163	945	715	625
Systempac	C35	166	945	715	625
Systempac	C44	270	1074	843	856
Combipac	C20	203	945	715	625
Combipac	C26	206	945	715	625
Combipac	C35	209	945	715	625

Firebird Enviromax Slimline C Range Dimensions (mm)



SLIMLINE HEAT PAC

Model	Output	Weight	Dimensions(mm)		
Enviromax	Kw/hr	kg	H	W	D
Slimline	C20	147	927	760	466
Slimline	C26	150	927	760	466
Slimline	C35	153	927	760	466

Copper Pipe Not Plastic to be used for a minimum of 1 metre off the boiler

ENVIROMAX		Combi Pac		System Pac			Heat Pac / Slimline Heatpac			
Boiler Model		C20/26	C35	C20/26	C35	C44	C20/26	C35	C44/58	C73
Max Heat Output		20/26	35	20 / 26	35	44	20/26	35	44 / 58	73
Kw										
Btu/h ('000)		68/89	119	68 / 89	119	150	68/89	119	150 / 198	249
CONNECTIONS										
Heating Flow		22 mm	28 mm	22 mm	28 mm	1 1/2" Bsp.	1" Bsp.	1" Bsp.	1 1/2" Bsp	1 1/2" Bsp.
Heating Return		22 mm	28 mm	1" Bsp.	1" Bsp.	1 1/2" Bsp.	1" Bsp.	1" Bsp.	1 1/2" Bsp.	1 1/2" Bsp.
Mains Cold Feed (Copper)		15 mm	15 mm	15 mm	15 mm	15 mm				
Hot Water Delivery (Copper)		15 mm	15 mm							
Drain Off Cock		1/2" Bsp.	1/2" Bsp.	1/2" Bsp.	1/2" Bsp.	1/2" Bsp.	1/2" Bsp.	1/2" Bsp.	1/2" Bsp.	1/2" Bsp.
Safety Pressure Relief valve outlet (Copper)		15 mm	15 mm	15 mm	15 mm	15 mm				
Condense Drain Off Connection.										
White Cased		3/4" Bsp. Female		3/4" Bsp. Female				3/4" Bsp. Female		
Heat Pac & Popular B.H.		22 mm PLASTIC		22 mm PLASTIC				22 mm PLASTIC		
Circulating Pump (Grundfos)		25/60	25/60	25/60	25/60	25/80				
Domestic Hot Water Plate Heat Exchanger		25plate	31plate							
Boiler integral Expansion Vessel Normal Capacity		12 litres	12 litres	12 litres	12 litres	18 litres				
		pre-charged to 1 bar.		pre-charged to 1 bar.						
WATER CONTENT										
Water Content Boiler		24	24	24	24	45	24	24	43.5	54
Water Content Primary Tank (Litres)		40	40							
D.H.W. GUIDE PERFORMANCE		C20/26	C35							
120 litre at 40°C At. Litres per minute		14 / 16	20							
FLUE (Indoor Boilers)		BOILER SAFETY LIMIT, FROST AND OVER-RUN THERMOSTATS FITTED ON ALL HEAT PAC MODELS								
TEMPERATURE CONTROL										
Boiler Central Heating Control		60°C - 80°C +- 3°C		60°C - 80°C +- 3°C			60°C - 80°C +- 3°C			
Boiler Safety Limit		110°C +- 3°C		110°C +- 3°C			110°C +- 3°C			
Tank (DHW)- Fixed		78°C +- 3°C								
Early Alert - Fixed		87°C +- 3°C								
Over-run - Fixed		93°C +- 3°C		87°C +- 3°C			87°C +- 3°C (Heatpac & Kitchen only)			
FROST THERMOSTAT FITTED TO ALL HEAT PAC MODELS										
HEATING SYSTEM (SEALED)										
Fit in accordance with BS 7074 Part 1, BS 5449, OFTEC Standards, etc										
Max. Operating Pressure		2.5 Bar		2.5 Bar						
Max. System Pressure cold		1.5 Bar		1.5 Bar						
Min. System Pressure cold		0.5 Bar + 0.3 Bar		0.5 Bar + 0.3 Bar						
Boiler Test Pressure		4.5 Bar		4.5 Bar			4.5 Bar			
Safety Valve Operating Pressure Gauge		0 to 4 Bar		0 to 4 Bar			0 to 4 Bar			
MAINS WATER SUPPLY		Limescale excess: When over 150/200 ppm. Fit appropriate scale reducer.								
Pressure		5 bar Maximum Operating Pressure (Tested to 10 bar) (Fit pressure reducing valve as necessary)								
Max Min		1 bar min. For user Comfort reduce pressure at tap to between 1 and 5 Bar.								
WATER SIDE RESISTANCE		Flow Rate To Give A Nominal Output At 10k Differential								
Flow Rate Measured (Kg h ⁻¹)		2874.24								
Waterside Resistance (mbar)		0.18								
		Flow Rate To Give A Nominal Output At 20k Differential								
Flow Rate Measured (Kg h ⁻¹)		1522.92								
Waterside Resistance (mbar)		0.19								
Pressure Jet Oil Burners		RIELLO RDB 2.2 up to C35 & RIELLO RDB 4.2 up to C58 - C73								
Fuel		C2 Kerosene								
Electrical Supply		230v. AC 50Hz To be fused at 5amp.								

ELECTRICAL SUPPLY

The boiler and controls require **230V 1 phase 50Hz mains electric supply** protected with a **5amp fuse**.

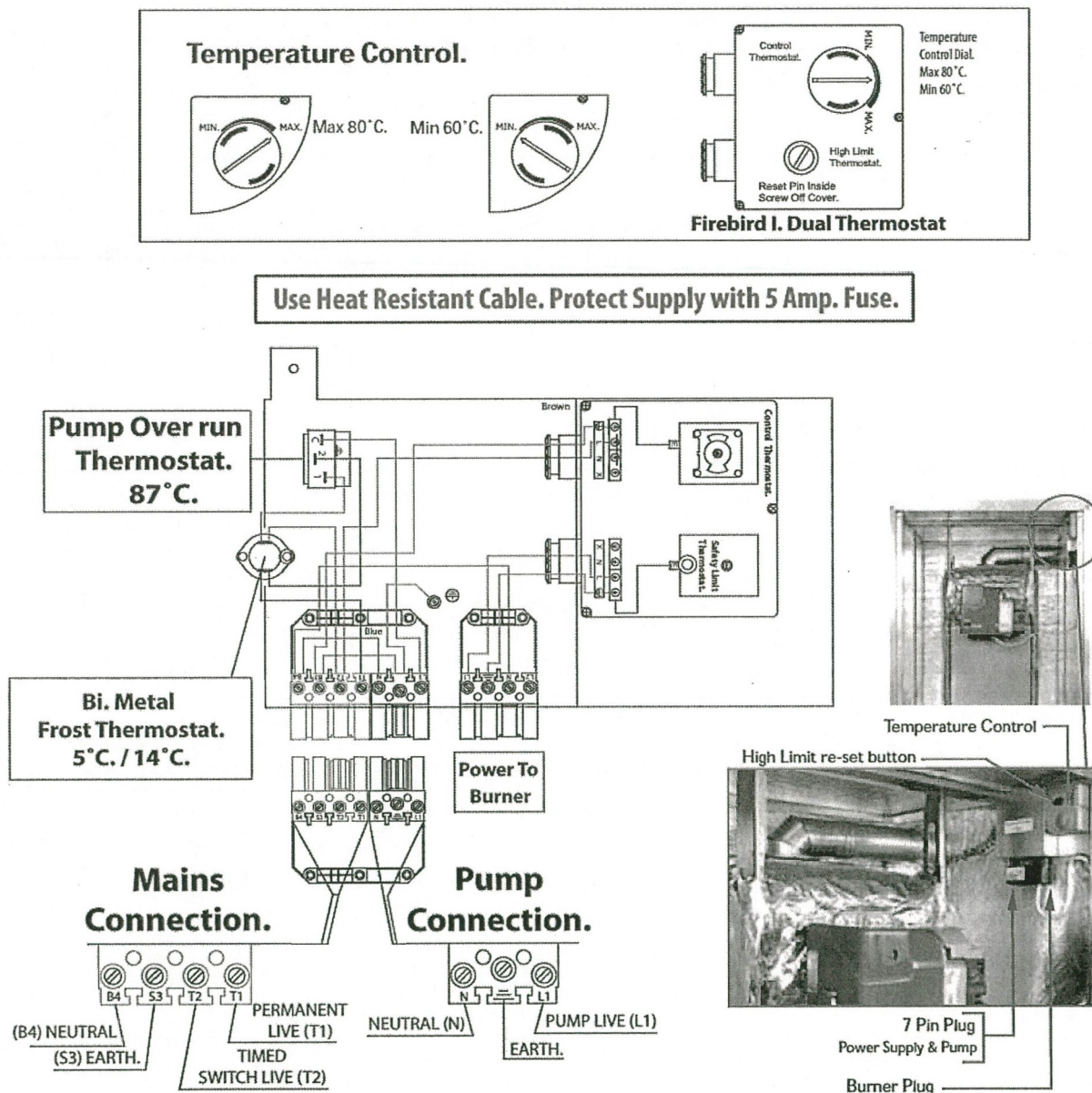
The guarantee on this product will be rendered void if damaged by power from a stand by electricity supply. i.e. (Generator.)

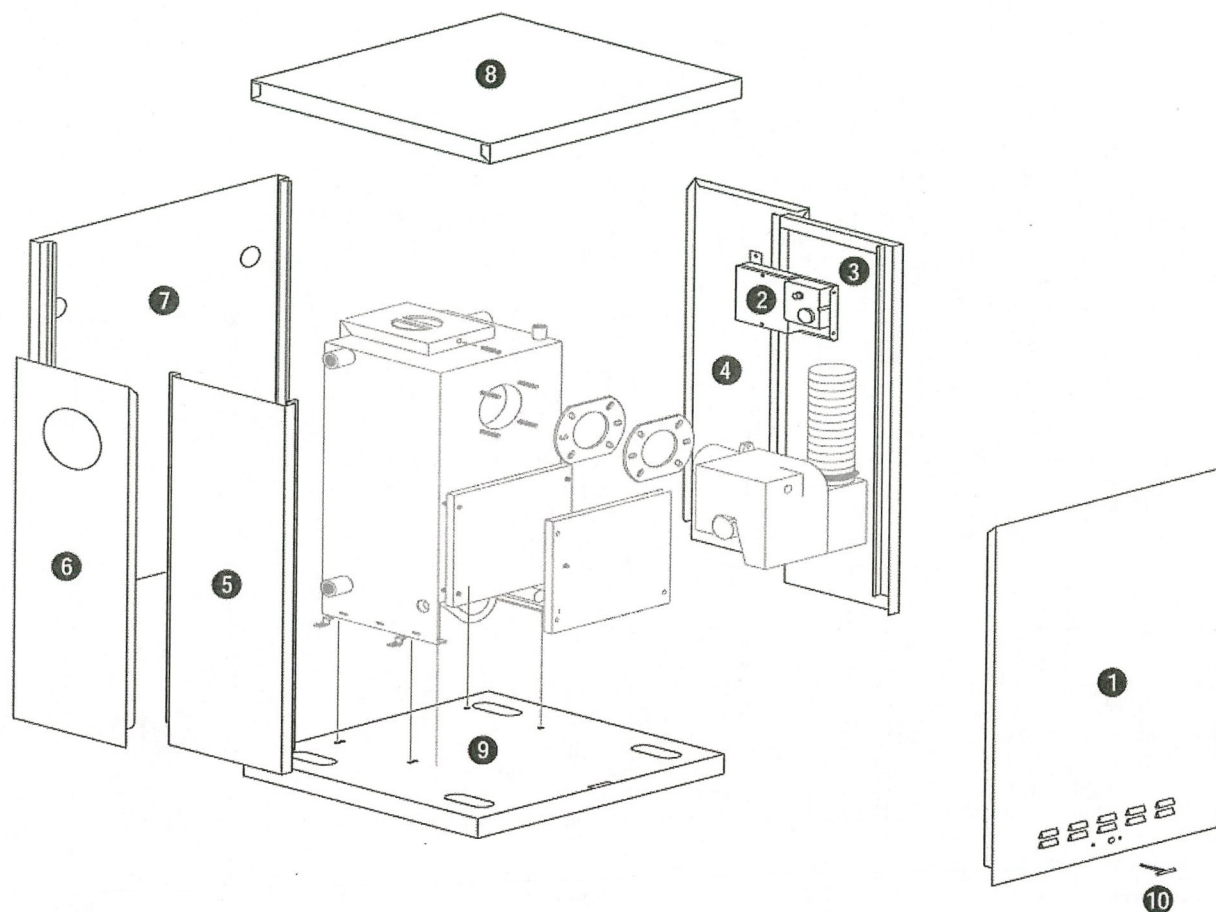
A qualified electrician must carry out all electric wiring in accordance with current I.E.E Regulations and any local regulations which may apply.

The mains electrical supply must be taken from a double pole isolating switch with a 5amp fuse, positioned somewhere close to the boiler. Heat resisting cable must be used which can be routed into the boiler through the access provided on either side of the base. Ancillary controls may be provided for with terminal connections in the control panel.

Firebird Enviromax Heatpac Wiring Diagram

Enviromax 7 Pin Plug Heat Pac Wiring



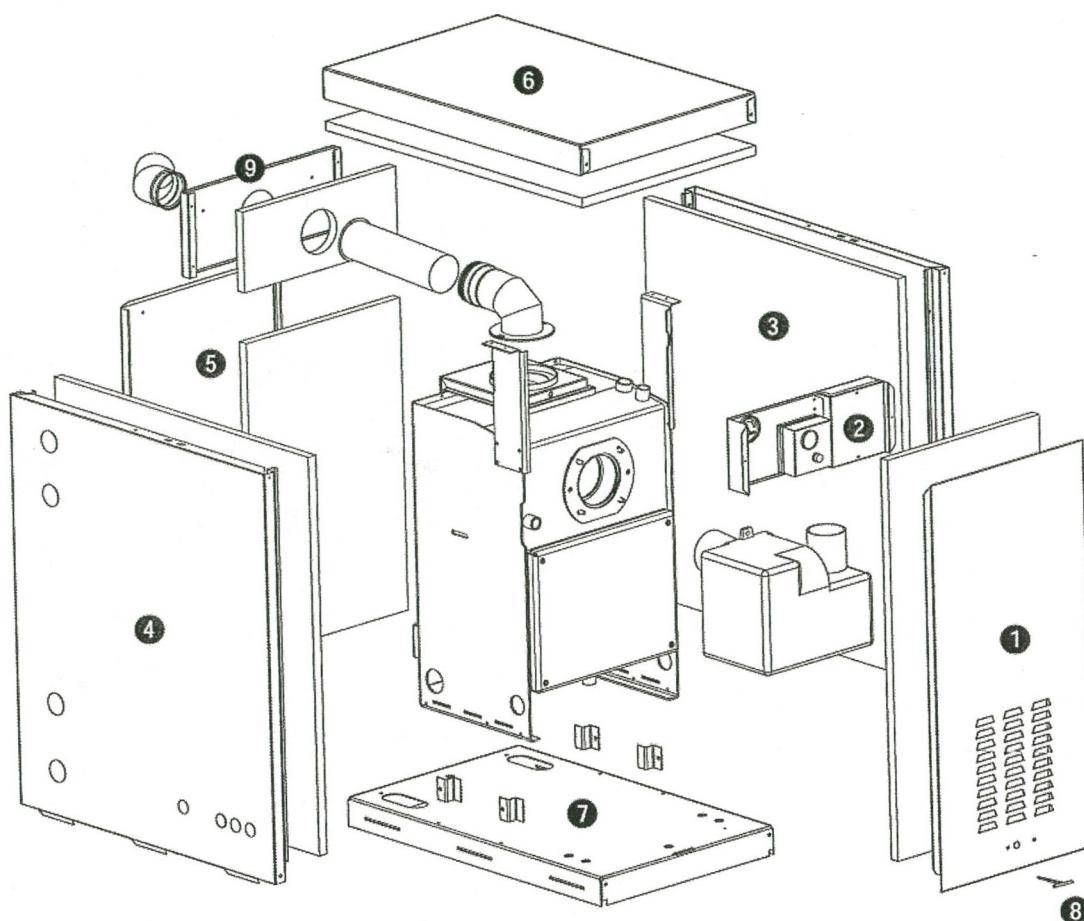


ENVIROMAX HEAT PAC - Outdoor Models C20, C26, C35, C44, C58 & C73

No.	Description	C20/26/35	C44/58	C73
1	Front Panel	211527	211754	211815
2	Control Panel	310453	311804	311819
3	Fixed Right Side	211518	211758	211818
4	Removeable Right Side	211521	211751	211812
5	Fixed Left Side	211517	211752	211813
6	Removeable Left Side	211520	211750	211811
7	Back Panel	211547	211748	211809
8	Top Panel	211519	211753	211814
9	Base	211528	211746	211807
10	Key	110267	110267	110267

3 3.5 - SLIMLINE HEAT PAC PARTS

Firebird Enviromax Condensing Range



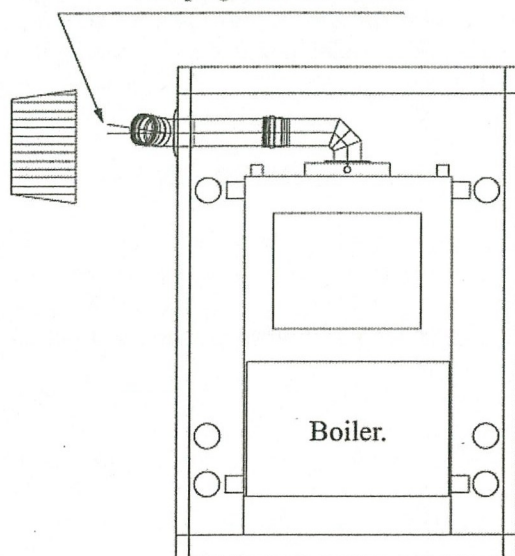
ENVIROMAX **SLIMLINE HEAT PAC** - Outdoor Models C20, C26 & C35

No.	Description	C20	C26	C35
1	Front Panel	211604	211604	211604
2	Control Panel	311146	311146	311146
3	Fixed Right Side	211608	211608	211608
4	Fixed Left Side	211607	211607	211607
5	Back Panel	211605	211605	211605
6	Top Panel	211609	211609	211609
7	Base	211594	211594	211594
8	Key	110267	110267	110267
9	Flue Panel	211606	211606	211606

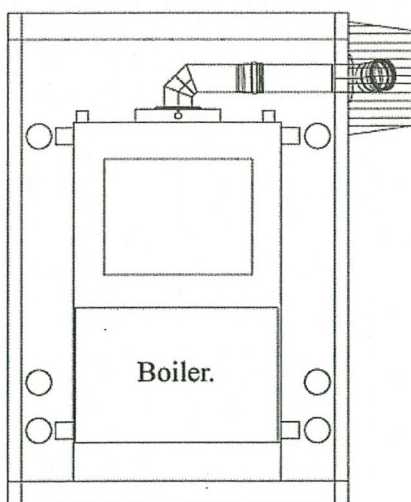
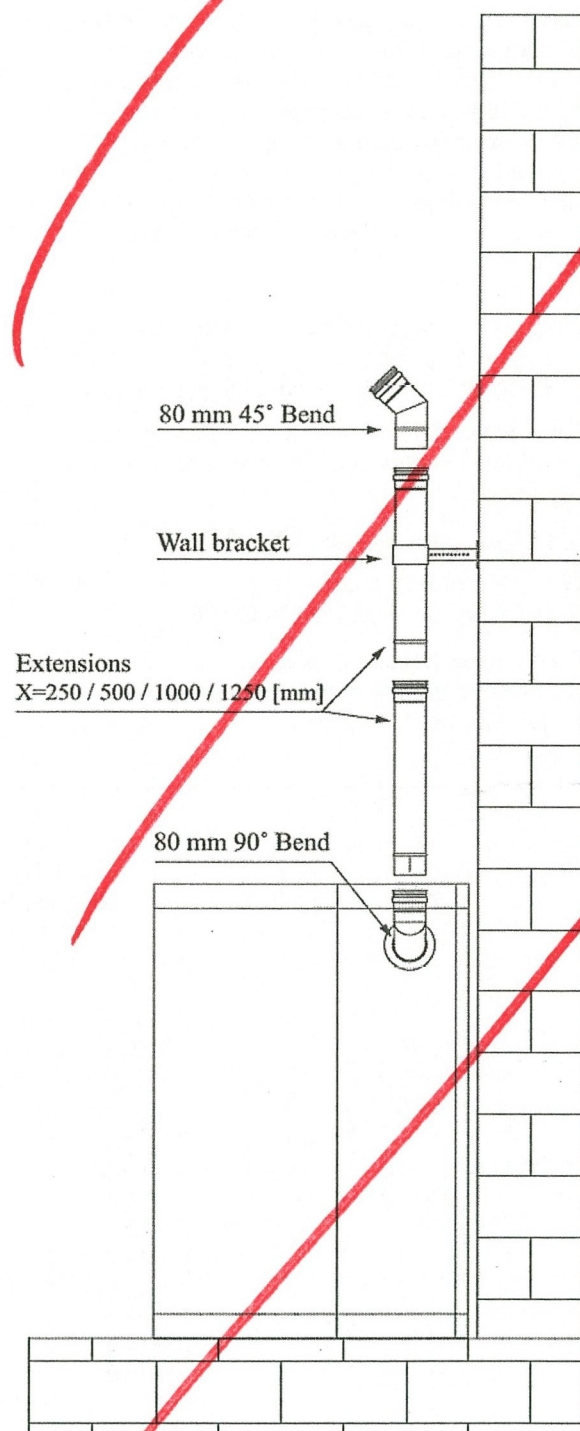
INSTALLATION INSTRUCTIONS SUPPLIED WITH ALL FLUE KITS

HEAT PAC FLUE

45° Terminal should be tilted up to prevent condensate dropping from end of flue.



For Right Hand Flue option.
Remove the two screws securing the flue, rotate flue and swap the removable side panels.

**PLUME KIT.**

OIL STORAGE TANK SITING

Consult OFTEC Manuals

It is very unlikely that a fire should start from a domestic oil tank, however it does need to be protected from a fire which may originate in a building nearby. For this reason, the tank should be located at least 1.8 metres from any building and no closer than 760mm from any boundary. If it must be closer than 1.8 metres, the building wall should not have any openings other than ventilation openings. In addition, the wall should have at least 30 minutes fire resistance and extending 300mm higher and extends 300mm beyond both ends of the tank is provided between the tank and the terminating position and the wall should have a half hour resistance to an internal fire and extend 1.8 metres from any part of the tank.

A non-combustible radiation barrier is an alternative but this must meet the requirements of BS 5410 Part 1: 1997, "clause 28" Section 6.4.

Steel tanks must be mounted on brick or block piers with a waterproof membrane between the piers and tank.

See Oftec Technical Information T19

Oil storage tanks should not be sited within 1.8m of boiler flue outlets.

Do not allow household waste or hot ashes container in vicinity of oil storage tank or boiler flue outlet.

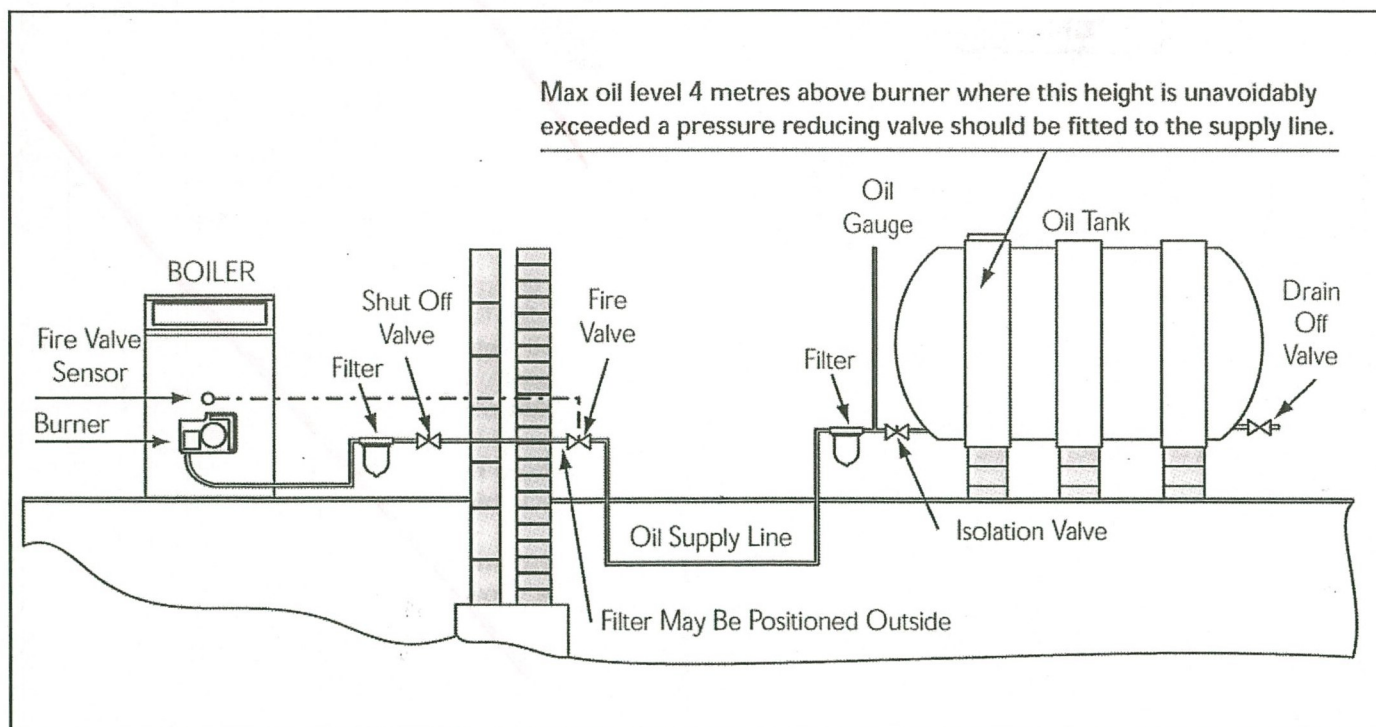
FLEXIBLE OIL PIPE(S)

A flexible burner oil hose is supplied with the boiler which must be wholly contained within the appliance case.

Please note: A filter must not be fitted inside the boiler and all joints in the oil line MUST BE OIL-TIGHT. Soldered joints are not permissible. Before connecting to the boiler always flush the complete oil supply line and ensure that oil supply is completely clean and free of any dirt or foreign matter.

SINGLE PIPE SYSTEM

Where installations have the bottom of the tank above the oil burner, a single pipe system may be used. The oil burner should then be set for single pipe operation - See also manufacturers oil burner manual





FIREBIRD

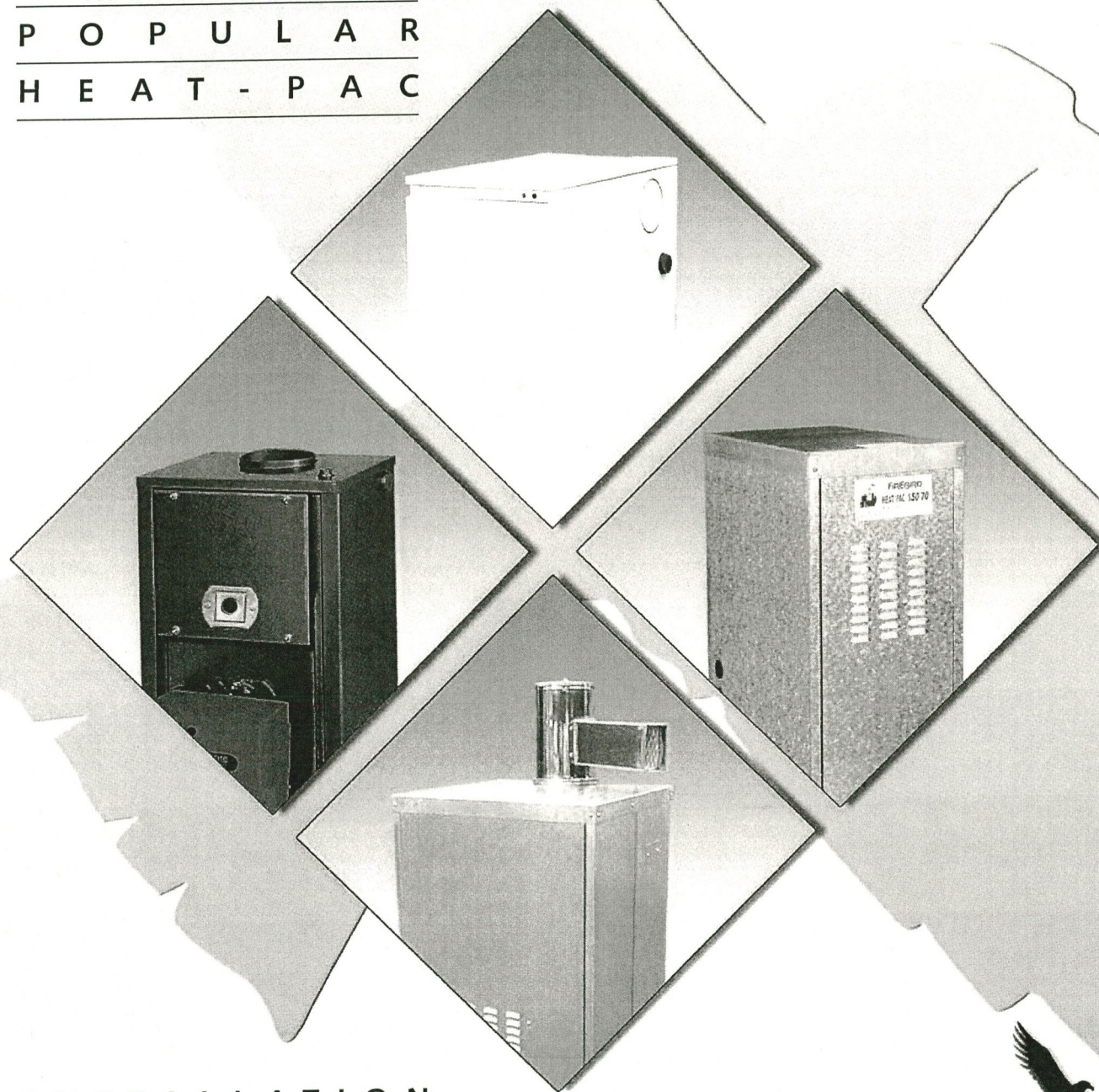
OIL FIRED BOILERS

FIREBIRD 'S' RANGE

P O P U L A R

H E A T - P A C

** Deleted info as most of it
is not relevant for this
installation* *LP. 26.2.13*



INSTALLATION
COMMISSIONING
SERVICING &
USER INSTRUCTIONS

THIS MANUAL MUST REMAIN WITH
THE HOUSEHOLDER ON COMPLETION
OF INSTALLATION



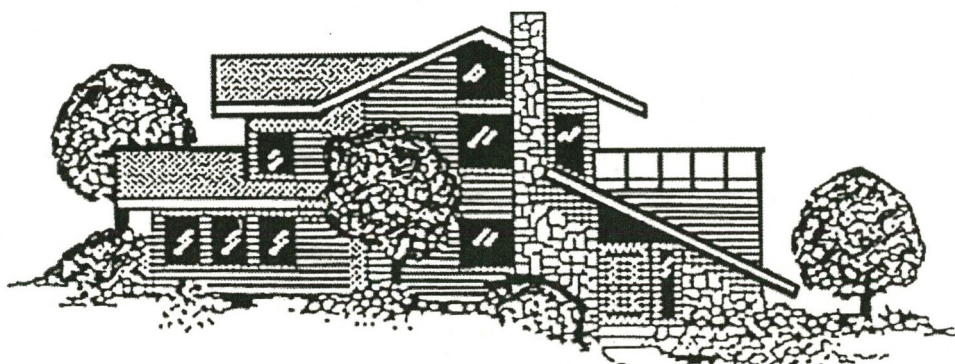
FIREBIRD



A

FIREBIRD BOILERS

*Formula
For Better Boiler Service*



HOUSEHOLDER

Switch on your central heating boiler and check its operation before commencement of heating season.

During the summer season your boiler may be switched off for long periods. In our climate, summer dampness attacks electrical circuits, burner and boiler parts. Deposits on boiler and flue surfaces dampen, and may fall loose resulting in flues and ducts becoming clogged. Deposits also act as an insulator and thus reduce efficiency.

Boilers and burners should be cleaned and serviced before summer switch-off, then switched on and checked again before needed for the winter heating.

This eases seasonal rush on your service engineer and helps him/her give you a better service. Arranging a regular service contract with him/her will help keep your boiler in top condition.

"A stitch in time saves nine" - and disappointment.

*Issued by FIREBIRD BOILERS in the interest of
our customers and the heating industry.*

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INSTALLATION & COMMISSIONING:

Boilers must be installed, commissioned and serviced by qualified and experienced persons and as set out in the Installation Manual, using correct test equipment.

EXPANSION VESSEL:

Total water content of system and boiler must be calculated to determine the correct size of pressure vessel.

WARNING:

The manufacturer cannot accept responsibility for any damage to persons, animals or property due to error in installation or in the burner adjustment or due to improper or unreasonable use or non observance of the technical instruction enclosed with the burner, or due to the intervention of unqualified personnel.

GUARANTEE:

- All Firebird oil Boilers have a 2 year comprehensive warranty which extends to 5 year on the boiler shell.
- The Guarantee card must be fully completed and returned to Firebird within 28 day's of complete installation & commissioning.
- Consumable components, the nozzles and the oil hose are excluded.
- The terms laid down on the Guarantee must be adhered to.

We would like to thank you for purchasing a high efficiency Firebird domestic central heating oil fired boiler. This instruction manual is produced for the reference and guidance of qualified installation engineers such as those who are OFTEC registered. EU legislation governs the manufacture, operation and efficiency of all domestic central heating oil boilers. Our boilers and burners will be supplied as matched units tested and approved to OFTEC Standard OFS A100.

FIREBIRD Boilers are full manufacturing members of OFTEC (Oil Firing Technical Association) and are participating in its Boiler testing and approvals programme to comply with OFS A100 and EC Efficiency Directive.

Boilers must be installed, commissioned and serviced by qualified and experienced engineers (OFTEC approved/competence certified required in UK.) It is the responsibility of the Installer/Householder to ensure that the boiler is properly commissioned. Failure to do so may invalidate the boiler Guarantee and extended warranty.

All appropriate OFTEC manuals and BS Standards should be studied and their requirements adhered to and used in conjunction with these instructions. This manual includes a list of some BS Standards and Building Regulations.

OFTEC is conducting training and registration of engineers and this is to be commended, as reading of this manual alone for installation and servicing procedures cannot replace the critical advantage provided by training and years of experience.

1 INTRODUCTION

The Firebird range of Oil Boilers includes the Firebird S Range, Kitchen Model, Room Sealed and Boilerhouse models. The range is further extended with the Popular Conventional flue Boilerhouse models, Heat Pac Outdoor models.

All units give clean combustion while Kitchen-quiet operation is a feature of balanced flue indoor models. The entire range is complemented by a highly efficient matching pressure jet burner which produces very low NO_x emissions.

A drain-off cock is fitted inside the boiler beside the burner and there are flow and return connections provided under top lid of the boiler for connection to the heating and hot water systems. As all servicing can be carried out from the front, the boiler may be fitted under a kitchen worktop.

The burner is factory set for use with C2 kerosene to BS 2869:1998. However, **Class D fuel to BS 2869:1998 (gas oil) may only be used on a conventional flue installation, a oil pre-heater may be necessary.**

To ensure the highest standards of installation & safety, it is important that the boiler be installed in compliance with the following regulations where applicable.

All **CURRENT** editions of the appropriate Building Regulations:-

Part L & J	England & Wales
Part F	Section III Scotland - Conservation of Fuel Power
Part L	Northern Ireland - Conservation of Fuel Power
Part J	Republic of Ireland - Conservation of Fuel Power
BS 5410	Part 1 1997. Code of practice for Oil Firing Installations.
BS 799	Part 5 1987. Specification for Oil Storage Tanks.
BS 4876 1984.	Performance requirements for oil burning appliances.
BSEN 12828:2003	(UK National Annex). Heating Systems in Buildings - Designed for water based heating systems
BS 7074	Part 1 1989. Application, selection and installation of expansion vessels and ancillary equipment for sealed water systems.
BS 5446 1990.	Installation of hot water supplies for domestic purposes.
BS 7593 1992.	Code of Practice for treatment of water in heating systems.
BS 715 1989.	Metal flue pipes, fittings, terminals and accessories.
BS 1189 1989.	Clay flue linings and flue terminals.
BS 4543 part 3 1990.	Factory made insulated chimneys for oil fired appliances.
BS 6700.	Design, installation, testing and maintenance of Services supplying water.
BS 7671.	
	Current IEE Regulations. Local Water Undertaking Bylaws.
	Water supply (water fittings) Regulations 1999.
	The Control of Pollution (Oil) Regulations.

In addition, the work must comply with OFTEC Installation Requirements for oil fired boilers and oil storage tanks.

The installer should also be aware of his/her responsibilities under The Health and Safety at Work Act. The interests of safety are best served if the boiler is installed and commissioned by a competent engineer, OFTEC trained and Registered. If not a Building Notice is required in England & Wales. Other parts of the British Isles including the Channel Islands also require notification to building Control.

It is the responsibility of installer and everyone concerned with any aspect of installation to ensure that all applicable standards and regulations are fully adhered to.

OFTEC also publish excellent guides including: Safe Working Practices for Oil Firing Technicians' - OFTEC Technical Book Three (Installation requirements for Oil Fired Boilers and Oil Storage Tanks) - OFTEC Technical Book Four (Domestic Heating Systems) and it is recommended that these should be adhered to Domestic Heating Design Guide.

COPIES OF BRITISH STANDARDS MAY BE PURCHASED DIRECT FROM:

BSI (Customer Services),

389 Chiswick High Rd., London W4 4AL. Tel.: 0181-9967002 Fax: 0181-9967001

International and EC Standards are also available from above.

OFTEC PUBLICATIONS ARE AVAILABLE FROM:-

OFTEC, Oil Firing Technical Association,

Foxwood House, Dobbs Lane, Kesgrave, Ipswich. IP5 2QQ

www.oftec.org

BOILER INSTALLATION:

BS 5410 : Part 1 1997 gives the requirements for domestic boiler and oil storage installations.

For boilers installation with regard to cleaning and flushing and providing inhibitors as are followed for any other boiler. Manufacturers instructions must always be followed together with the requirements of BSEN 12828, 2003 & BS EN 12831, 2003, which supersede BS 5449 1990, and the statutory requirements of the Building Regulations.

HEALTH & SAFETY INFORMATION

Under the Consumer Protection Act 1987 and Section 6 of the Health and Safety Act 1974, we are required to provide information on substances hazardous to health.

INSULATION AND SEALS

Ceramic Fibre, Alumino - Silicone Fibre material are used for boards, ropes and gaskets. Known hazards are that people may suffer reddening and itching of the skin. Fibre entering the eye will cause foreign body irritation. It may also cause irritation to the respiratory tract.

Precautions should be taken by people with a history of skin complaints or who may be particularly susceptible to irritation. High dust levels are only likely to arise following harsh abrasion. Suitable personal protective equipment should be worn where appropriate.

Generally, normal handling and use will not give discomfort. Follow good hygiene practices, wash hands before consuming food, drink or using the toilet.

First Aid - Medical attention should be sought following eye contact or prolonged reddening of the skin.

The small quantities of adhesives and sealants used in the product are cured. They present no known hazards when used in the manner for which they are intended.

THIS PRODUCT HAS BEEN DESIGNED TO THE FOLLOWING STANDARDS:

EMC Directive

(Electromagnetic compatibility) 89/336/EC

Standards:

EN 61000-6-1: Electromagnetic Compatibility Generic Standard - Immunity for residential, commercial and light industrial environments. (Feb.2001)

EN 61000-6-3: Electromagnetic Compatibility Generic Standard - Emission standard for residential, commercial and light industrial environments. (Feb.2001)

LV Directive

(Low voltage) 73/23/EEC

Standard:

IEC 60335-1: Household and similar electrical appliances - Safety (May 2001)

Boiler Efficiency Directive 92/42/EEC

Standard:

BSEN 304: Oil boilers with forced draft burners.

FUEL SPILLAGE

1. Switch off all electrical and other ignition sources.
2. Remove all contaminated clothing to safeguard against fire risk and skin damage. Wash affected skin thoroughly with soap and water and remove clothing to a safe well ventilated area and allow to air before cleaning.
3. Contain and smother the spill using sand or other suitable oil absorbent media or non-combustible material.
4. Do not allow fuel to escape into drains or water courses. If this happens, contact the relevant authorities in your area. (Ireland Only)
Contact The Environment Agency on 0800 807060 (UK Only)
5. Consult local Authority about disposal of contaminated soil.

SAFETY

Safe use of Kerosene and Gas Oil.

These fuels give off a flammable vapour when heated moderately. Vapour ignites easily, burns intensely and may cause explosion. The vapour can follow along at ground level for considerable distances from open containers and spillages collecting as an explosive mixture in drains, cellars, etc.

Fuels remove natural oils and fats from the skin and this may cause irritation and cracking of skin. Barrier cream containing lanolin is highly recommended together with good personal hygiene and where necessary appropriate personal protection equipment. (P.P.E.)

Gas oil may also cause irreversible damage to health on prolonged or repeated skin contact.

Always store fuels in a properly constructed and labelled tank. Always handle fuel in open air or well ventilated space away from sources of ignition and refrain from smoking.

Always drain fuel using a proper fuel retriever, funnel or mechanical siphon. Never apply heat to a fuel tank, container or pipework. Never siphon fuel through tube by mouth. If accidentally swallowed contact doctor immediately and do **NOT** induce vomiting. Avoid inhaling fuel vapour as this can cause light headedness and seriously impair judgement.

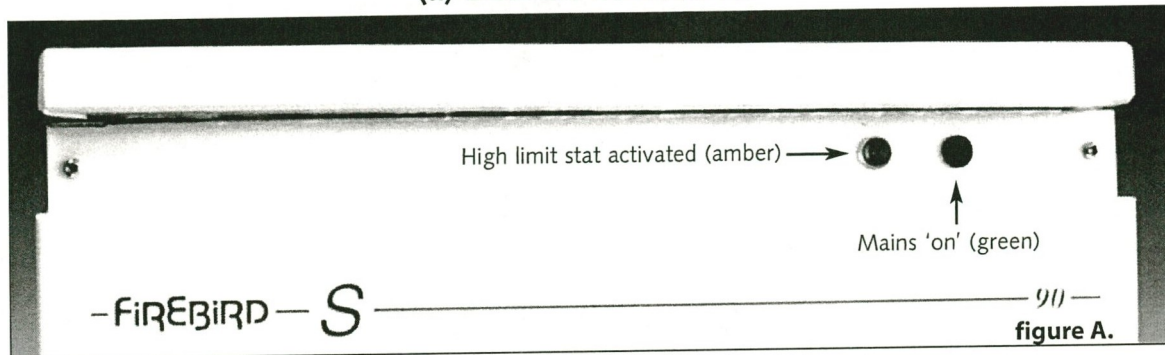
FIRST AID

If fuel is accidentally swallowed:-

- * Seek medical attention immediately. Do **NOT** induce vomiting.

If fuel is splashed into eyes:-

- * Wash out with running water for at least ten minutes and seek medical attention.

(a) BOILER CONTROLS**(b) OPERATING PROCEDURE** (All models)**TO START THE BOILER FOLLOW THIS SEQUENCE:**

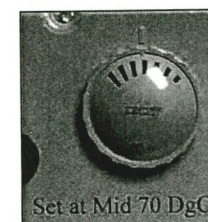
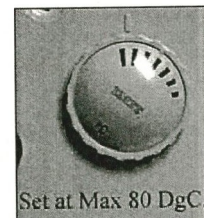
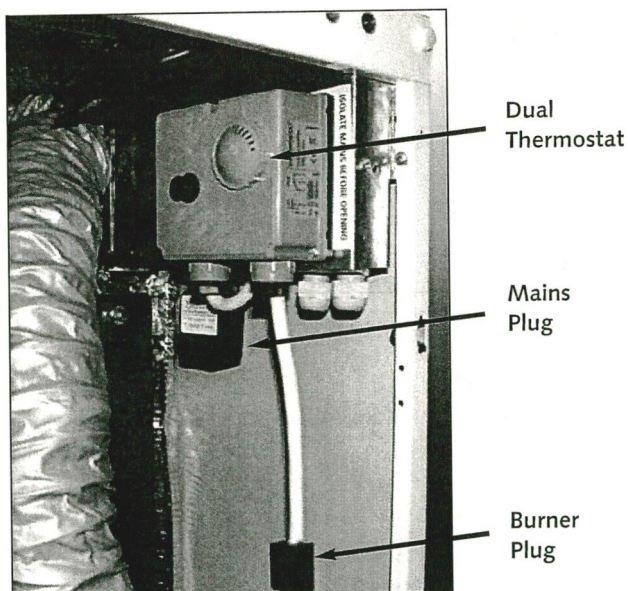
- Turn on fuel supply.
- Switch power supply to boiler 'ON'.
- For Model S remove front cover.
- Activate the 'mains on' switch.
- Set the boiler thermostat to the required temperature (figure B). The boiler thermostat controls the boiler operation by automatically maintaining the required boiler water temperature output. Safe operation is also maintained by the burner control system which provides the required ignition and shut off sequence. If the optional timer control is fitted this will automatically switch the boiler off and on when heat is required.

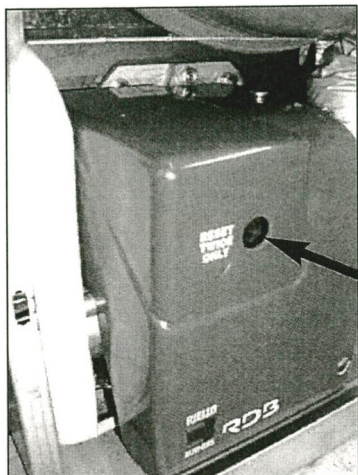
THE BOILER CAN BE TURNED OFF BY ANY OF THE FOLLOWING MEANS:

- Turn the timer control (if fitted) to OFF.
- Turn the boiler thermostat to OFF.
- Turn the mains 'ON' switch to OFF.
- Turn OFF the mains electrical supply to the boiler.

WHEN SERVICING ALWAYS SWITCH OFF THE MAINS SUPPLY TO THE BOILER.

figure B.



(c) BURNER LOCKOUT

**To reset when Lock-out
light shows:
Press glowing reset button
on burner control box.**

**Reset Button
Inside Burner Box**

The boiler is factory fitted with a burner control box lockout safety feature which operates automatically if a fault occurs in the burners operation. Should this occur, the light on the front of the burner - See above - will illuminate and its cause must be investigated. This could be caused by:

- A.** An interruption in the fuel supply. (Eg. empty oil supply tank)
- B.** An electrical supply fault.
- C.** A fault with the burner or its safety control system.
- D.** The failure of a component. (Eg. photo cell)
- E.** Worn or dirty oil nozzle.

Before attempting to restart the boiler the front panel and the burner cover should be removed and a visual check made for any obvious problems such as oil leaks, loose connections etc.

ENSURE OIL TANK CONTAINS CORRECT GRADE FUEL.**TO RESTART THE BOILER**

- 1.** Press reset button (see diagram above)
- 2.** Ensure that the boiler thermostat, time switch (if fitted) and any external controls connected to the boiler are set to call for heat.
- 3.** Check that the oil supply valves are open and that there is sufficient oil in the tank.
- 4.** Check that the burner lockout light is unlit and with the 'mains ON' the boiler will be ready to commence its start sequence.

HOW TO BLEED AN OIL PUMP

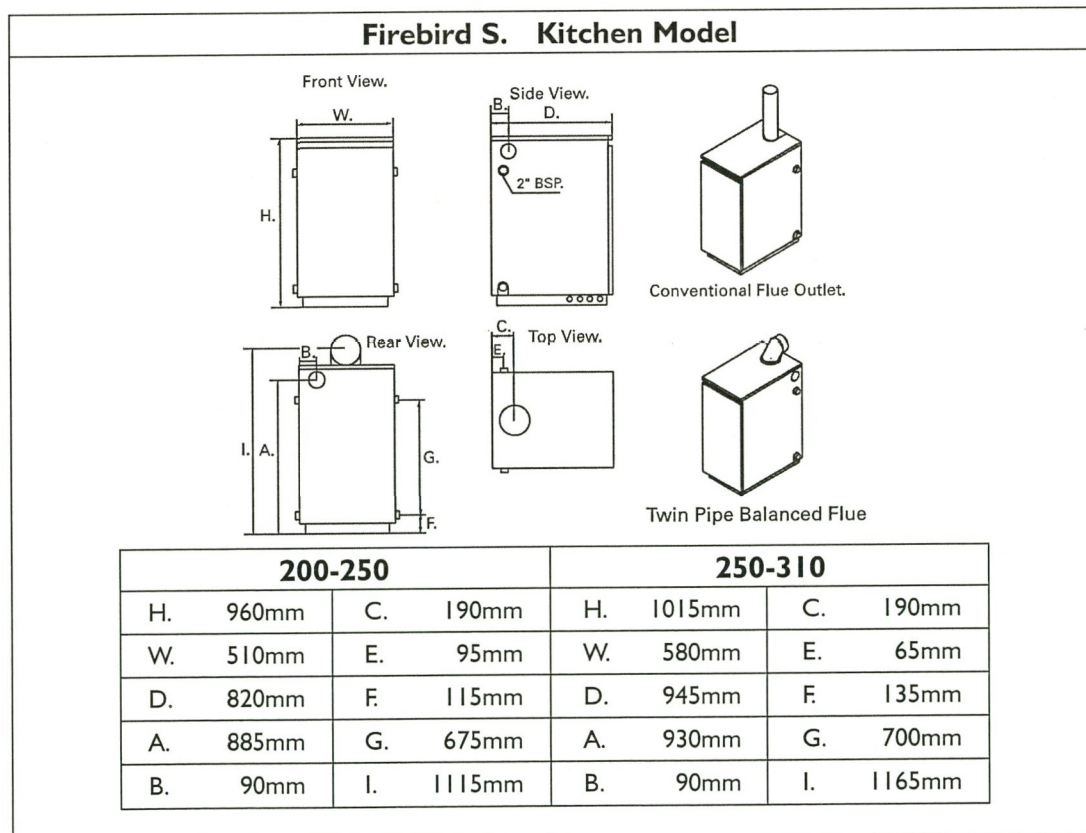
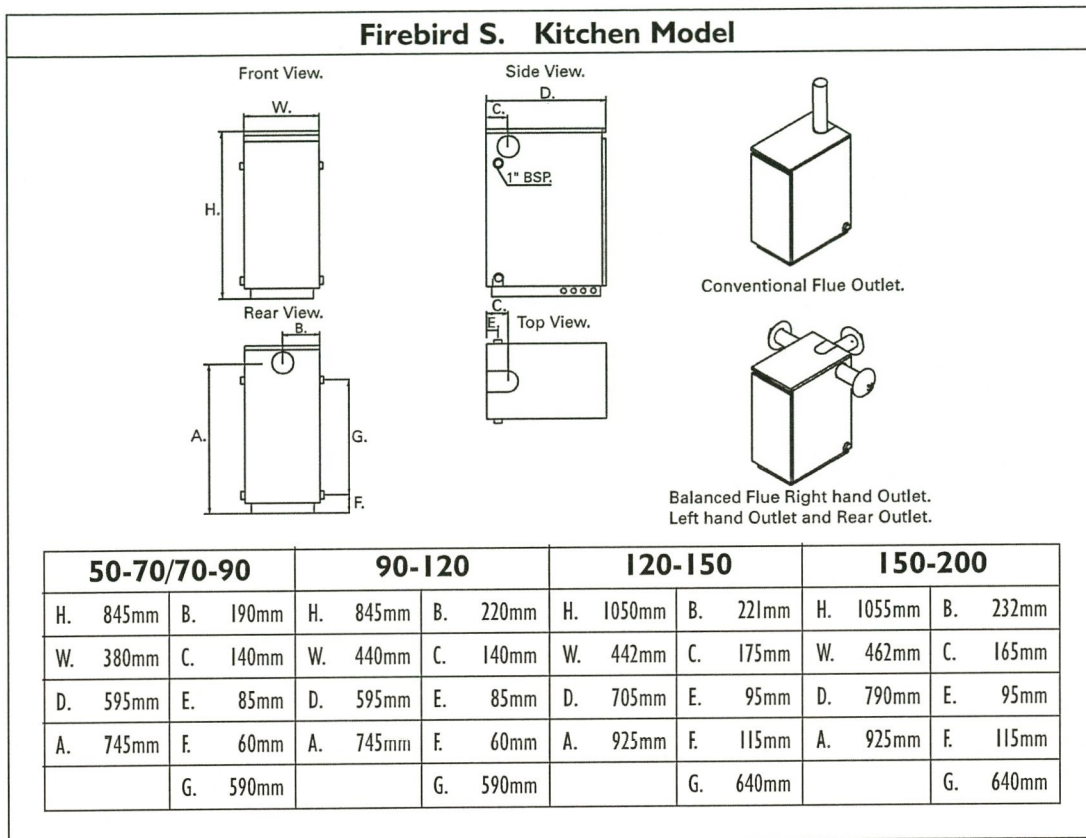
See Page 15 - Burner Specifications. Ref: Priming Pump.

SERVICING

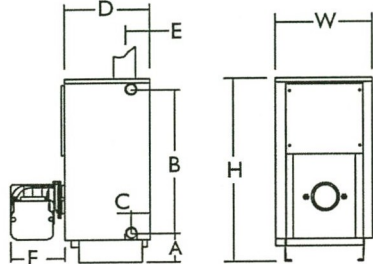
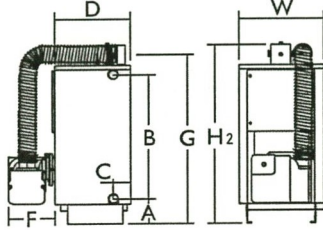
The boiler requires servicing on an annual basis to ensure it maintains its efficiency, continues to perform reliably and as a regular check on its built-in safety features.

It is important that servicing should be conducted by a competent engineer, preferably one who is OFTEC trained and registered.

Firebird S. Kitchen Model Diagrams



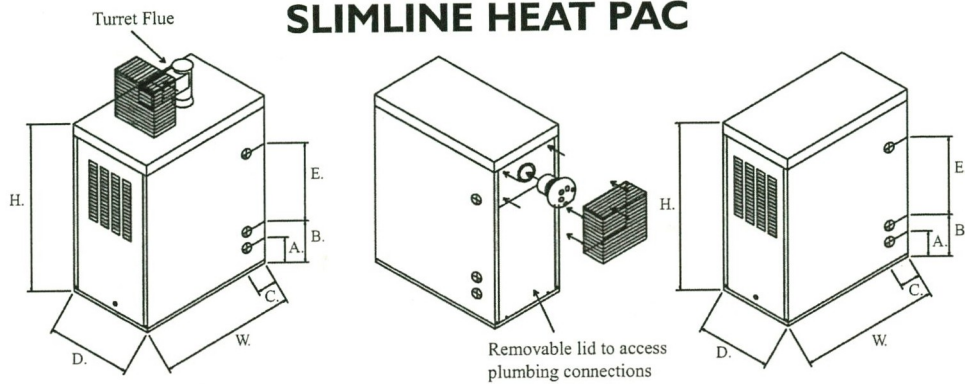
Firebird S. Boiler House Dimensions

Firebird S. Boiler House Model										
CONVENTIONAL.					ROOM SEALED (SNORKEL)					
					Building Reg. & BS Require a base tray for this design of unit. 					
MODEL	H	W	D	A	B	C	E	F	G	H ₂
50/70	690	395	355	60	590	80	135	200	740	785
70/90	690	390	355	60	590	80	135	200	740	785
90/120	690	450	355	60	590	80	135	200	740	785
120/150	855	460	415	110	640	80	145	280	935	955
150/200	860	470	495	120	640	80	145	280	935	955
200/250	860	520	545	115	675	75	160	280	1110	1210
250/310	920	575	660	135	705	75	170	280	1170	1270

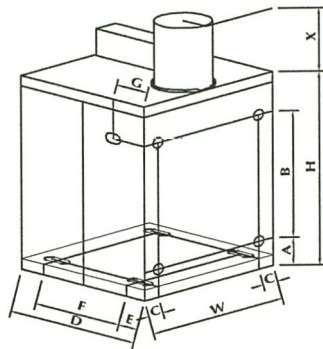
2-C Firebird S. Boiler Specifications

OUTPUT RANGE	50-70	70-90	90-120	120-150	150-200	200-250	250-310
PRESSURE JET OIL BURNER	RIELLO - SEE SECTION 2D BURNER SETTINGS (ECOFLAM & BENTONE STERLING OPTIONS AVAILABLE)						
FLOW & RETURN CONNECTIONS	4x1" BSP	4x1" BSP	4x1" BSP	4x1 1/2" BSP	4x1 1/2" BSP	4x2" BSP	4x2" BSP
DRAIN OFF CONNECTION	1/2 BSP SOCKET & PLUG FITTED ON ALL MODELS						
FLUE OPTIONS							
A. CONVENTIONAL FLUE	4"	4"	4"-5"	6"	6"	7"	7"
B. BALANCED FLUE	5" O.D.	5" O.D.	5" O.D.	6" O.D.	6" O.D.	8" O.D.	8" O.D.
CONVENTIONAL FLUE DRAUGHT	MINIMUM: 0.04 INCHES WATER GAUGE. MAXIMUM 0.15 INCHES W.G.						
MAXIMUM OPERATING PRESSURE	3 BAR	3 BAR	3 BAR	3 BAR	3 BAR	3 BAR	3 BAR
TEST PRESSURE	4.5 BAR						
WEIGHT "in Kg"							
BOILER, BOILERHOUSE	80	82	95	131	150	170	230
BURNER	13	13	13	15	15	15	15
WHITE CASED BOILER & BURNER	105	107	118	161	180	202	266
WATER CONTENT IN LITRES	19	19	24	28	37	53	65
TEMPERATURE CONTROL	CONTROL THERMOSTAT: ADJUSTABLE BETWEEN 60°C - 80°C.						
	LIMIT THERMOSTAT: MANUAL RESET LIMIT THERMOSTAT FACTORY SET AT 110°C.						
ELECTRICAL SUPPLY	230v. AC 50Hz 5 AMP FUSE						
FUEL	USE C2 KEROSENE IN BALANCED FLUE INSTALLATIONS ONLY. Class D GAS OIL (CF Option).						

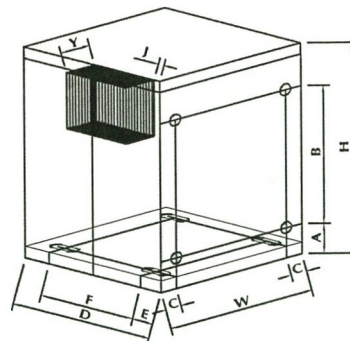
Heat Pac Diagrams & Specifications

SLIMLINE HEAT PAC

Heat Pac	Outline Dimensions			Plumbing Access Point Dimensions			
MODEL	D	W	H	A	B	C	E
50-70-90	410	760	925	140	230	115	480
90/120	470	760	925	140	230	115	480

**HEAT PAC**

Heat Pac	Outline Dimensions				Plumbing Access Point Dimensions					
MODEL	D	W	H	X	A	B	C	E	F	G
70/90	625	655	945	310	170	575	120	100	420	175
90/120	625	710	945	340	170	575	120	100	420	175
120/150	735	720	1010	340	170	640	80	180	475	85
150/200	860	895	1025	340	170	640	90	135	590	85
200/250	860	895	1025	350	160	655	90	100	630	105
250/310	960	950	1125	350	230	700	90	100	730	100

HEAT PAC 'S'
 (Northern Ireland Only)


Heat Pac-S	Outline Dimensions				Plumbing Access Point Dimensions					
MODEL	D	W	H	Y	A	B	C	E	F	J
70/90 S	625	655	945	130	170	575	120	100	420	35
90/120 S	625	710	945	130	170	575	120	100	420	35
120/150 S	735	720	1010	340	170	640	80	180	475	85

BOILER THERMOSTATS - FUNCTION

The CONTROL THERMOSTAT [1] on the boiler allows the householder to vary the water flow temperature from a low of 60°C to a high of 80°C to 82°C, depending on the model.

In accordance with EU boiler standards, your boiler is also fitted with a SAFETY HIGH LIMIT THERMOSTAT [2], fixed at 114°C. This system protects the boiler in the event of the control thermostat failing and keeps the boiler safe. The safety high limit thermostat [2] will shut off the boiler and will require the limit button to be pushed to restart the boiler. If the problem re-occurs, you should call your service engineer.

In cases where the flow from the boiler is down to the heating system, fitting a PUMP OVER RUN THERMOSTAT [3] (A Pipe Stat) is recommended. This is to prevent the residual heat build up in the boiler from unnecessarily activating the high limit thermostat and thus causing nuisance. See Heat Pac Wiring Diagram in Installation Instructions on **page 16**.

PLASTIC PIPING - WARNING

The boiler thermostat control and safety system is not designed, and must not be relied on, to protect plastic pipe from overheating. Plastic pipe must never be connected directly to the boiler.

If you choose to use plastic pipe anywhere on your hot water circuits, then please consult the plastic pipe manufacturer for their instructions on how to ensure their product never overheats. Our boiler control and safety high limit thermostats are not designed to fulfil this function. (They may suggest the fitting of independent pipe thermostats, or thermostatic mixing valves linking flow and return).

• Firebird accepts no responsibility for failure of plastic piping and fittings for what ever reason.

TIME AND TEMPERATURE CONTROLS

The Building Regulations state that central heating systems must have time and temperature control on the pipe circuits (eg Thermostatic Radiator Valves / TRVs, Room thermostats, cylinder thermostats etc.) on both fully pumped and semi-gravity systems.

BURNER SETTINGS FOR FIREBIRD BOILER RANGE (KEROSENE)

Variations in nozzle throughput, flue type & draught, oil viscosity etc. may give results differing from these laboratory performance figures.

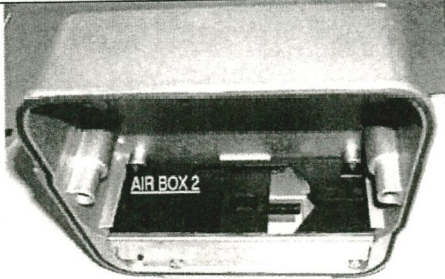
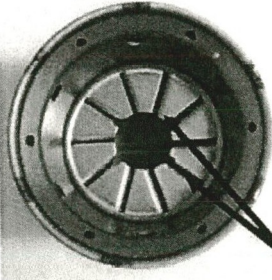
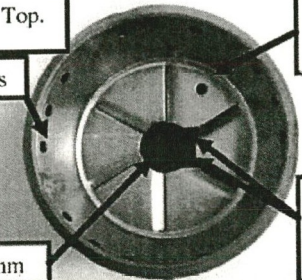
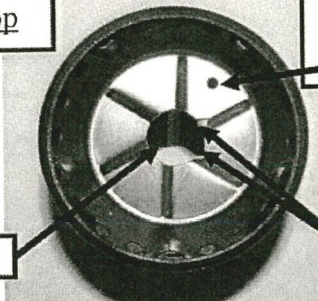
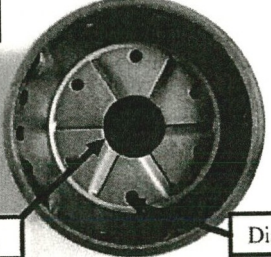
RIELLO RDB BURNER SETTINGS										
Range	Burner	Head Type	Fuel	Nozzle	P.P.	Air	Air Box	Co2	Fg.	Smoke No.
50,000	Riello RDB 2.2	T1	K	.4 80'H	10 Bar	0.5	1	11.5	190	0-1
60,000	Riello RDB 2.2	T1	K	.5 80'H	8.5 Bar	1.5	1	11.5	200	0-1
70,000	Riello RDB 2.2	T3	K	.6 80'H	8 Bar	2.5	1	11.5	210	0-1
80,000	Riello RDB 2.2	T3	K	.65 80'H	8 Bar	3	1	11.5	195	0-1
90,000	Riello RDB 2.2	T3	K	.65 80'S	9.5 Bar	3.4	1	11.5	210	0-1
90,000	Riello RDB 2.2	LD3	K	.65 80'S	9.5 Bar	4	1	11.5	190	0-1
105,000	Riello RDB 2.2	LD3	K	.85 80'S	9 Bar	5.2	1	11.5	190	0-1
120,000	Riello RDB 2.2	LD3	K	1.00 80'S	8 Bar	6	1	11.5	190	0-1
125,000	Riello RDB 2.2	T5	K	1.00 80'S	9 Bar	2.3	2	11.5	210	0-1
135,000	Riello RDB 2.2	T5	K	1.25 80'S	7 Bar	3.5	2	11.5	210	0-1
150,000	Riello RDB 2.2	T5	K	1.25 80'S	8.5 Bar	5.5	2	11.5	210	0-1
150,000	Riello RDB 4.	Comb.	K	1.25 60'S	8.5 Bar	4.3	1	11.5	200	0-1
180,000	Riello RDB 4.	Comb.	K	1.5 60'S	8.2 Bar	4.4	2	11.5	200	0-1
200,000	Riello RDB 4.	Comb.	K	1.75 60'S	8 Bar	6.1	2	11.5	210	0-1
200,000	Riello RDB 4.	Comb.	K	1.75 60'S	8 Bar	6.1	2	11.5	210	0-1
225,000	Riello RDB 4.	Comb.	K	2.0 60'S	7.1 Bar	4.9	3	11.5	210	0-1
250,000	Riello RDB 4.	Comb.	K	2.25 60'S	8 Bar	6.6	3	11.5	210	0-1
250,000	Riello RDB 4.	Comb.	K	2.25 60'S	8 Bar	6.6	3	11.5	210	0-1
280,000	Riello RDB 4.	Comb.	K	2.5 60'S	8 Bar	7.5	4	11.5	210	0-1
310,000	Riello RDB 4.	Comb.	K	2.5 60'S	9.2 Bar	8	5	11.5	210	0-1

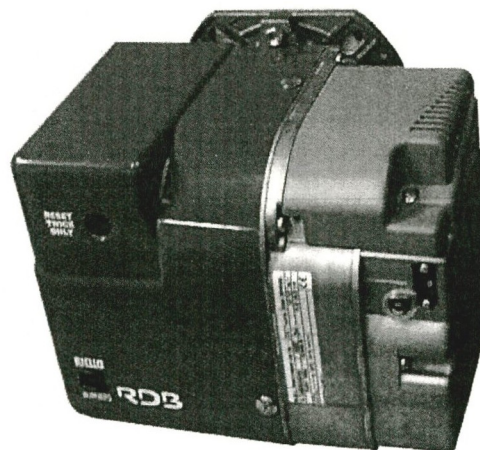
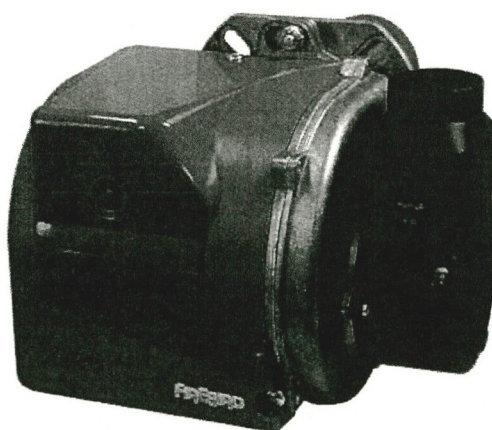
MAX BURNER SETTINGS										
Range	Burner	Head Type	Fuel	Nozzle	P.P.	Air	Air Box	Co2	Fg.	Smoke No.
50,000	Max 4		K	.5 80' H	7Bar	1.4	-	11.5		0-1
60,000	Max 4		K	.5 80 'H	10Bar	2.1	-	11.5		0-1
70,000	Max 4		K	.6 80' H	8Bar	30	-	11.5		0-1
80,000	Max 4		K	.6 80' H	9.5 Bar	4.8	-	11.5		0-1
90,000	Max 4		K	.75 80' S	8 Bar	6	-	11.5		0-1
90,000	Max 4		K	.75 80'S	8 Bar	4.2	-	11.5		0-1
110,000	Max 4		K	.85 80'S	8 bar	5	-	11.5		0-1
120,000	Max 4		K	.85 80'S	10 Bar	6	-	11.5		0-1
125,000	Max 4		K	1.00 80' S	9 Bar	6	.5	11.5		0-1
135,000	Max 4		K	1.25 60'S	7 Bar	7.5	3.5	11.5		0-1
150,000	Max 4		K	1.25 60'S	8 Bar	8.5	3.5	11.5		0-1

ECOFLAM MAX BURNER BLAST TUBE SPECIFICATION

APPLIANCE MODEL	FLAME TUBE	FLAME TUBE O/A LENGTH
FIREBIRD 70 / 90	10 VAIN 5MM SLOTS BFB 01.004/004	115MM
FIREBIRD 90 / 120	10 VAIN 10MM SLOTS 5MM HOLES BFB 01.052/202	115MM
FIREBIRD 120 / 150	BFB01104/002 DIFFUSER: BFD01014/001	115MM

The above performance figures are based on ideal laboratory test conditions. Air shutter settings above may need to be revised to take into consideration difference in resistances between conventional and balanced flue installations. Use flue gas analyser to achieve optimum results.

Air Box 1	Air Box 2
 AIR BOX 1	 AIR BOX 2
RDB LD3	RDB T1
 Clearance for electrodes	 Top. 4mm holes Hole to aid photocell Clearance for electrodes Dia. 18mm
RDB T3	RDB T5
 Top Hole to aid photocell light Detection Clearance for electrodes Dia. 20mm	 Top Dia. 23mm Dia. 5.5mm



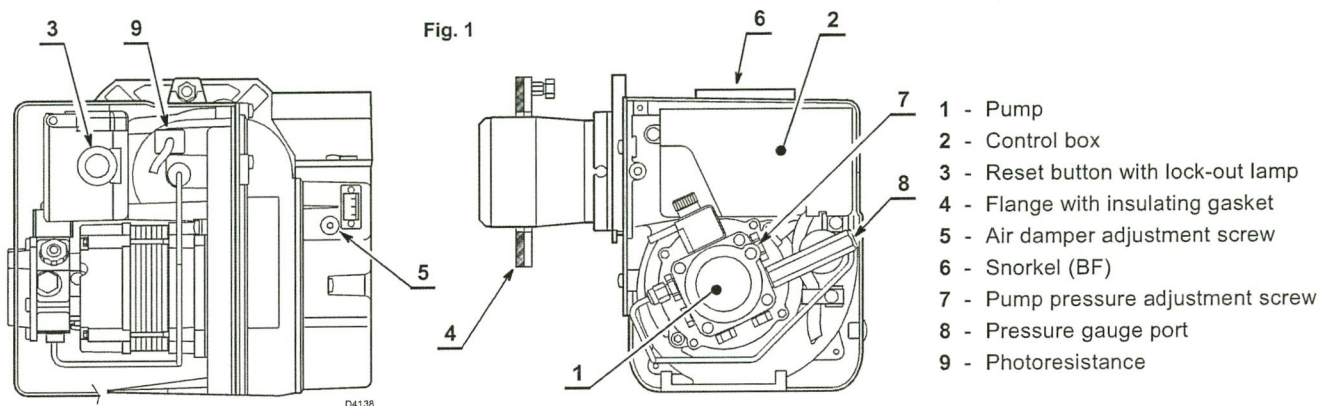
1. BURNER DESCRIPTION

One stage kerosene burner.

The intake air temperature must not be over 70°.

Burner with CE marking in conformity with EEC directives: EMC 89/336/EEC and Efficiency 92/42/EEC.

CE Certification No.: 0036 0316/01 as 92/42/EEC.



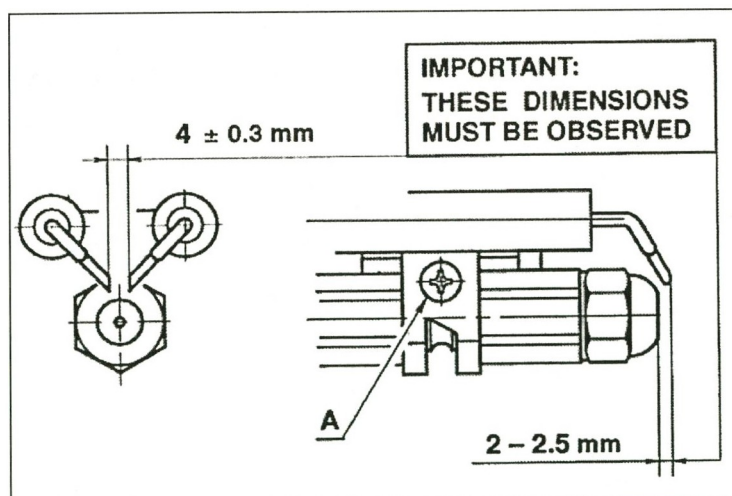
1.1 BURNER EQUIPMENT

Flange with insulating gasket No. 1
 Screw and nuts for flange No. 1
 Hexagonal key No. 1
 Plastic air cover No. 1

Screws for flange to be fixed to boiler No. 4
 Flexible oil pipes with nipples No. 2
 Screw of by-pass pump No. 1

ELECTRODE SETTING

Riello RDB 2.2



ATTENTION

Before assembling or removing the nozzle loosen screw (A) and move electrodes forward.

Riello Burner Specification

HYDRAULIC SYSTEM

WARNING

The pump is designed to allow working with one pipe.
In order to obtain two pipe working it is necessary to unscrew the return plug (2), screw in the by-pass screw (3) and then screw in return oil line (2). (See fig. 4).
In the two pipes systems, before starting the burner make sure that the return pipe-line is not clogged. An excessive back pressure would cause the damage of the pump seal.

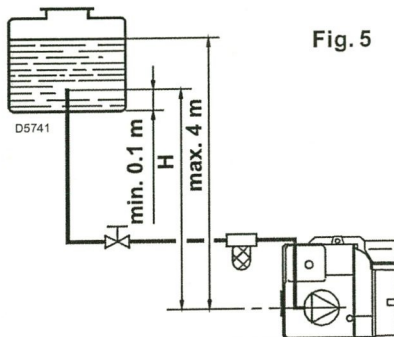
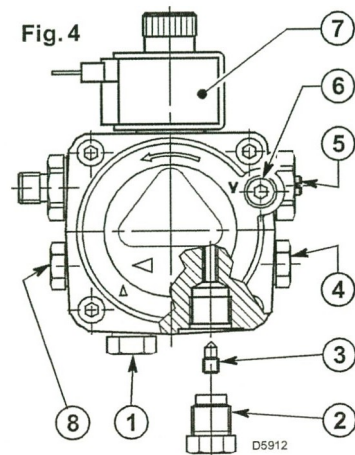


Fig. 5

H meters	L meters	
	I. D. 8 mm	I. D. 10 mm
0.5	10	20
1	20	40
1.5	40	80
2	60	100



- 1 - Suction pipe
2 - Return line
3 - By-pass screw
4 - Pressure gauge connection & Bleed screw
5 - Pressure adjuster
6 - Vacuum gauge connection
7 - Valve
8 - Auxiliary pressure test point

PRIMING PUMP:

On the system in fig. 5 it is sufficient to loosen the suction gauge connection (6, fig. 4) and wait until oil flows out.

On the systems in fig. 6 and 7 start the burner and wait for the priming. Should lock-out occur prior to the arrival of the fuel, await at least 20 seconds before repeating the operation.

The pump suction should not exceed a maximum of 0,4 bar (30 cm Hg). Beyond this limit gas is released from the oil. Oil pipes must be completely tight.

In the vacuum systems (fig. 7) the return line should terminate within the oil tank at the same level as the suction line. In this case a non-return valve is not required. Should however the return line arrive over the fuel level, a non-return valve is required. This solution however is less safe than previous one, due to the possibility of leakage of the valve.

H meters	L meters	
	I. D. 8 mm	I. D. 10 mm
0	35	100
0.5	30	100
1	25	100
1.5	20	90
2	15	70
3	8	30
3.5	6	20

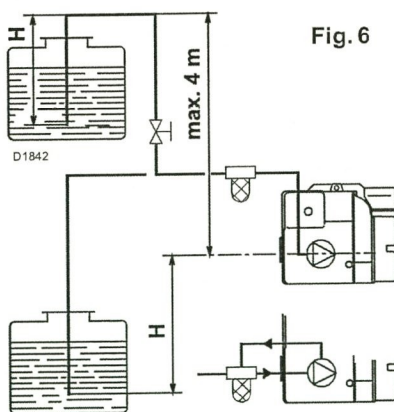


Fig. 6

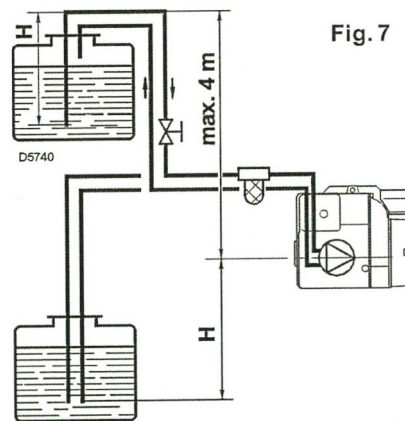


Fig. 7

Check periodically the flexible pipes conditions.

It is necessary to install a filter on the fuel supply line.

H = difference of level

L = Max. length of the suction line

I.D. = Interminal diameter of the oil pipes.

For Full details on suction line systems please refer to
OFTEC Technical Information Sheet T1/139 (T32)

ELECTRICAL SUPPLY

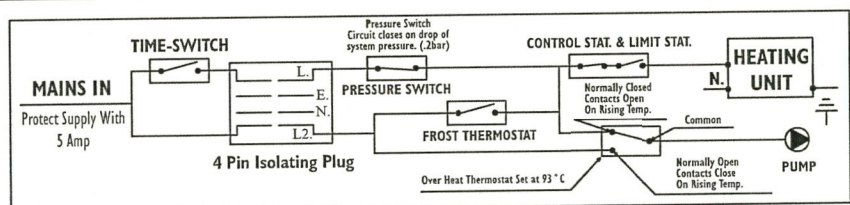
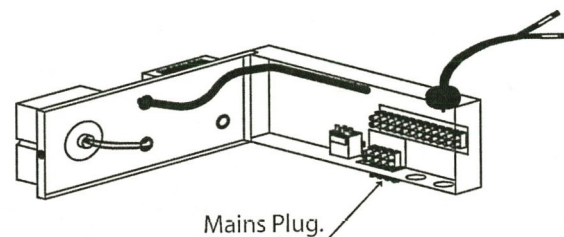
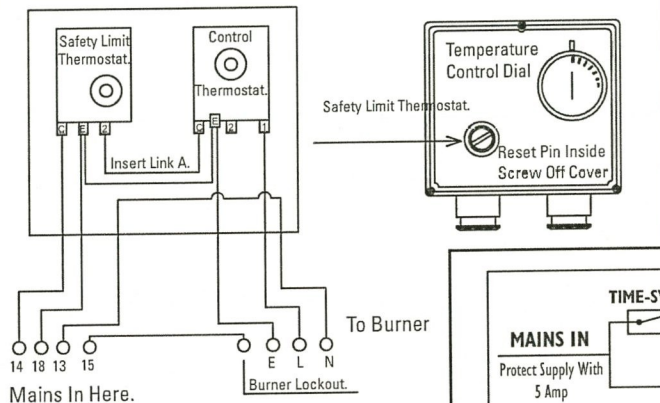
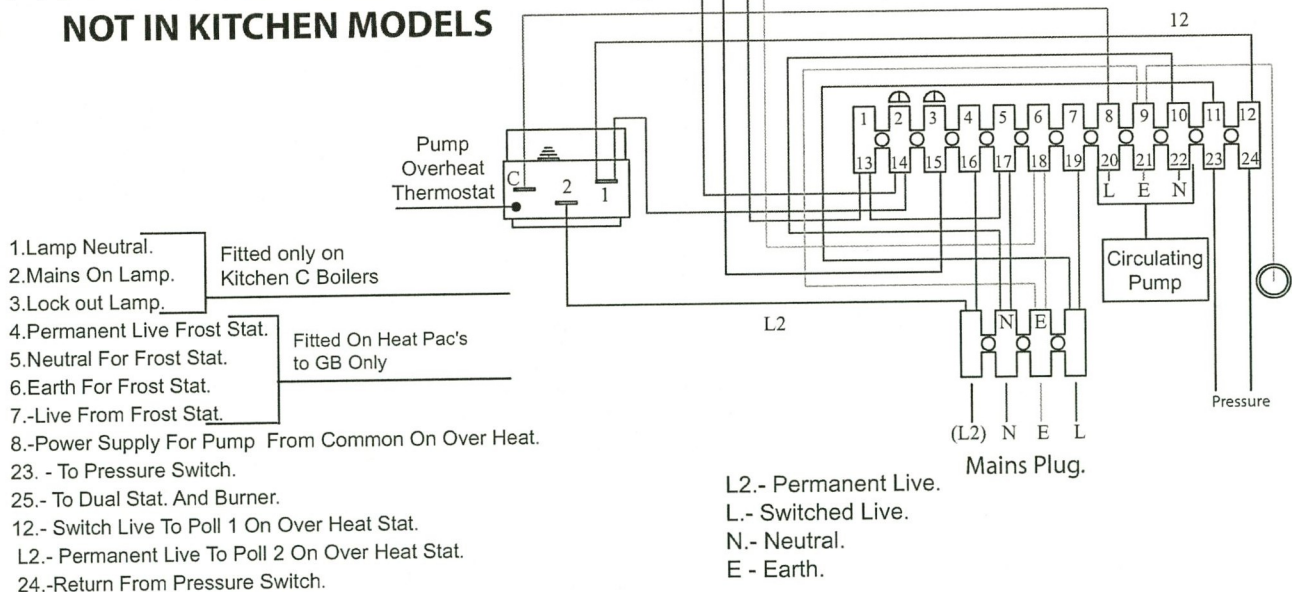
The boiler and controls require 230V 1 phase 50Hz electric supply protected with a 5amp fuse.

THIS APPLIANCE MUST BE EARTHED.

A qualified electrician must carry out all electric wiring in accordance with current I.E.E Regulations and any local regulations which may apply.

The mains electrical supply must be taken from a double pole isolating switch with a 5amp fuse, positioned somewhere close to the boiler. Heat resisting cable must be used which can be routed into the boiler through the access provided on either side of the base.

Ancillary controls may be provided for with terminal connections in the control panel.

Firebird Kitchen C, System C & Heat Pac C' Wiring Diagram**To Dual Temperature Control Thermostat
And Safety High Limit Thermostat****PUMP OVER HEAT THERMOSTAT
NOT IN KITCHEN MODELS**

POSITIONING BOILER

Ensure that adequate clearance is available for making the water and flue connections.

As the boiler is serviced from the front, no headroom clearance is necessary but a clearance of 750mm must be available at the front of the boiler.

No special hearth is required as the boiler is fully insulated, but the floor must be level and capable of supporting the weight of the boiler and its water content.

Sound levels must also be a consideration. Whilst the Firebird is one of the quietest boilers on the market, some householders are particularly sensitive and the following points should be considered:

1. Tiled surfaces in a small room will amplify noise - particularly if the wall construction is hollow.
2. If a conventional flue passes through a bedroom it is capable of transmitting noise.
3. Low level balanced flue terminals can produce exhaust noise on the outside terminal and this should be considered when siting near adjacent property.
4. The Firebird Balanced Flue Kit has been specifically designed for Firebird's indoor boilers. The use of third party low level flue kits is not recommended and will affect its warranty.
5. The Siting of the boiler should take into account the disposal of condensate products.

- It is recommended that a suitable corrosion inhibitor is added to the heating system.
- Dilution of the inhibitor due to the system being constantly topped up via mains supply will invalidate warrantee on boiler shell
- Existing systems should be treated with chemical cleaner and properly flushed before the boiler is fitted and corrosion inhibitor added.

FLUE SYSTEMS

IMPORTANT

Because of the improved efficiencies of boilers under E.U. Efficiency requirements and OFS A100 Standard, it is necessary to pay extra special attention to flues and chimneys. The improved efficiency figures achieved by modern oil boilers are attained by using more of the heat (higher temperatures) heretofore allowed into flues and chimneys. This previously wasted heat helped to keep bad and poorly operating and often uninsulated flues and chimneys from condensing and causing problems. Please be fully aware of this when replacing an existing boiler. An old and poorly operating flue may need to be replaced to take full advantage of improved efficiencies and to avoid flue gases condensing and appearing as white water vapour (pluming) at flue (chimney) outlet.

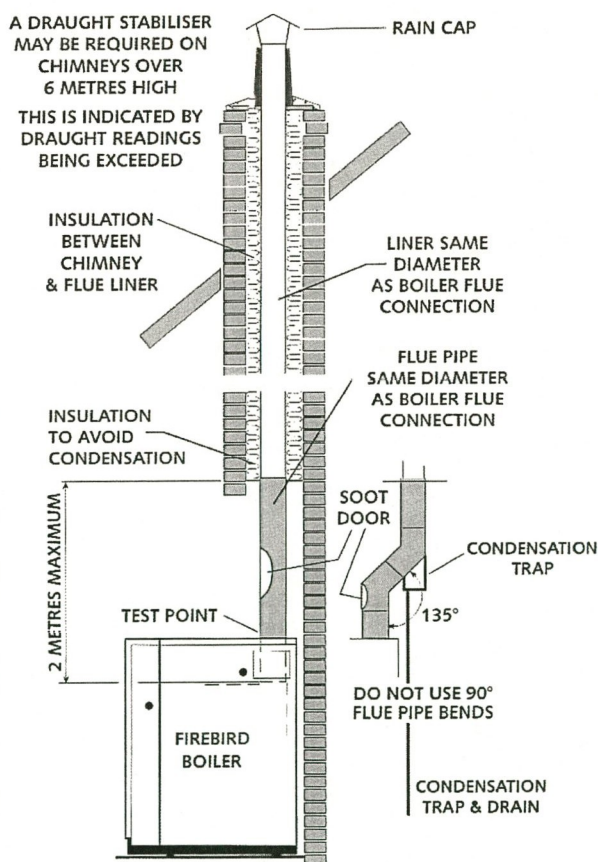
New flues and chimneys should be properly insulated and constructed to prevent condensation and draughting problems. Every individual concerned with any aspect of installation should be aware of the foregoing and should have full knowledge of and **work to European, National and Local Govt. Standards and Building and Installation Regulations.**

These manufactures instructions must not in any way be mis-interpreted as over-riding the above or any statutory regulations. It is absolutely essential that the boiler is properly installed so that **NO FLUE GASES** can enter the building at any time. Flue pipes should be safely sealed into the wall to prevent flue gases re-entering room or building. Refer also to page 20.

NOTE:

All brick chimney constructions must comply with current building regulations and BS 5410: Part 1. Insulated factory made chimneys should comply with BS 4543.

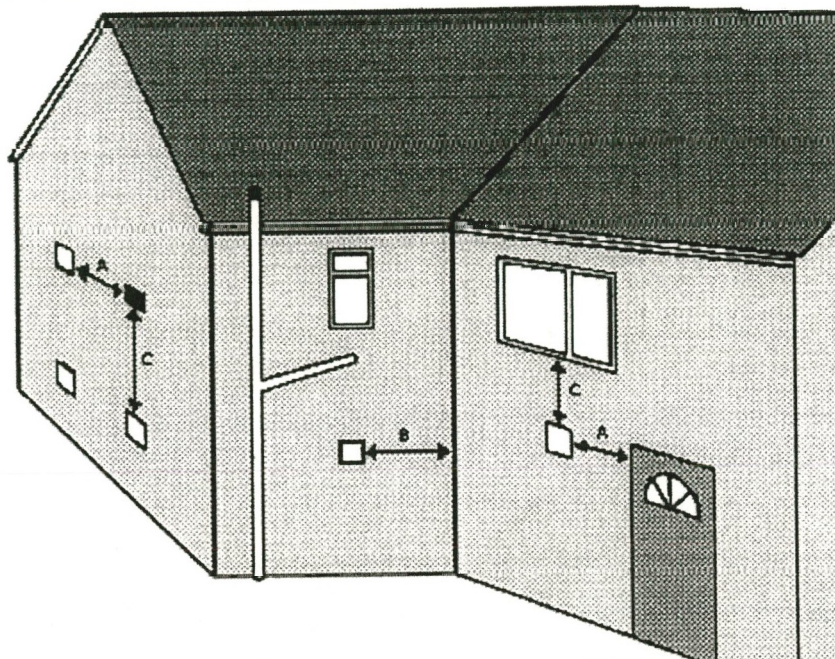
* DRAUGHT READINGS ARE SHOWN ON PAGE 9



CONVENTIONAL BRICK CHIMNEY WITH LINER

BALANCED FLUE SITING

- A. Horizontal from opening, airbrick, opening window etc.
- B. From an internal or external corner.
- C. Below an opening, airbrick, opening window etc.



Information supplied by

Book three Aug. 2002

See note at foot of page



- Notes:
1. The terminal should be positioned to avoid combustion products entering the building or accumulating in stagnant pockets around buildings.
 2. The terminal must be protected by a guard if it is less than 2 metres above ground level or in a position where any person has access to it (i.e. a balcony).
 3. A heat protection shield should be fitted if the terminal is less than 850mm from a plastic or painted gutter or less than 450mm from painted eaves.

Building Regulations

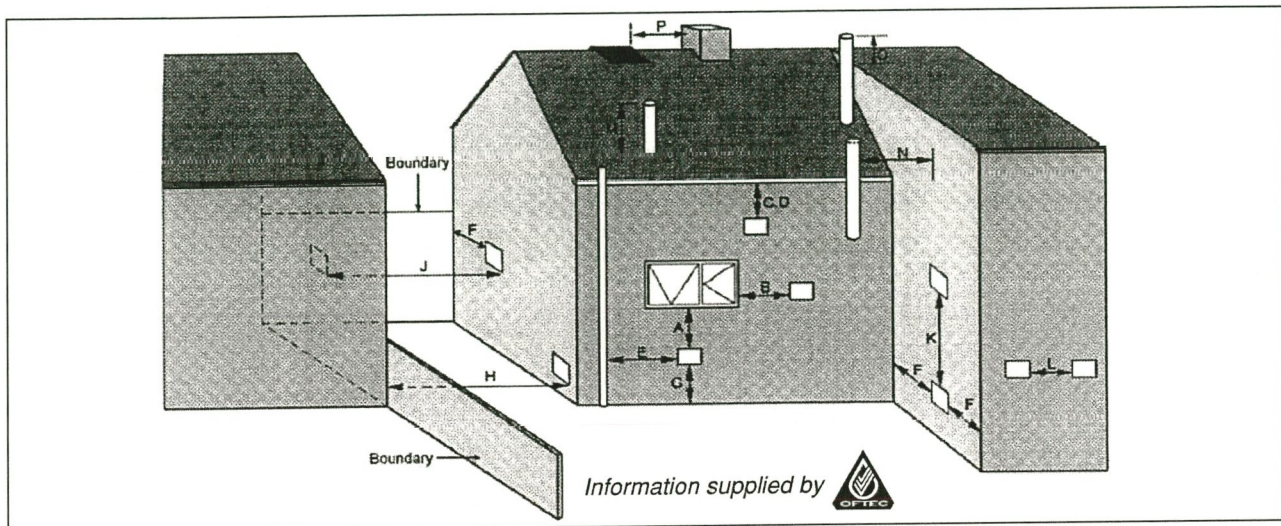
BUILDING REGULATIONS	A	B	C
Northern Ireland 1990	600	600	600
Republic of Ireland 1997	600	600	600

*Where the terminal is within 1 metre of any plastic material, such material should be protected from the effects of combustion products of fuel. There are additional general requirements in most Regulations and Standards that the flue must be positioned so that it does not cause a nuisance and permits the dispersal of combustion products.

NOTE: The Buildings Regulations clearances shown above are minimum allowed. To take account of prevailing site conditions it is advisable wherever necessary to follow the manufacturers preferred recommendation. If in doubt contact manufacturer for advice.

ALWAYS CHECK FOR ANY BUILDING REGULATIONS AMENDMENTS WHICH MAY HAVE BEEN ISSUED AFTER THE PUBLICATION OF THIS MANUAL

**Clearances advised by the BRITISH STANDARDS for Open Flues,
Low Level Balanced Flues and Balanced Flues fitted to Oil Fired Boilers.
THESE ARE ALSO THE BUILDING REGULATIONS FOR ENGLAND, WALES & SCOTLAND**



**Minimum distances to terminals in millimetres as measured from top of the chimney
or the rim of a low level discharge opening.**

APPLIANCE BURNER TYPE	PRESSURE JET	VAPOURISING
A Directly below an opening, air brick, opening window etc *	600	Not allowed
B Horizontally to an opening, air brick, opening window etc *	600	Not allowed
C Below a gutter, eaves or balcony with protection *	75	Not allowed
D Below a gutter or a balcony without protection	600	Not allowed
E From vertical sanitary pipework	300	Not allowed
F From an internal or external corner or surface or boundary alongside the terminal	300	Not allowed
G Above ground or balcony level	300	Not allowed
H From a surface or boundary facing the terminal	600	Not allowed
J From a terminal facing the terminal	1200	Not allowed
K Vertically from a terminal on the same wall	1500	Not allowed
L Horizontally from a terminal on the same wall	750	Not allowed
M Above the highest point of an intersection with the roof	600	1000
N From a vertical structure on the side of the terminal	750	2300
O Above a vertical structure less than 750mm from the side of the terminal	600	1000
P From a ridge terminal to a vertical structure on the roof	1500	Not allowed

These notes form an integral part of the information shown above.

- Terminals should be positioned so as to avoid products of combustion accumulating in stagnant pockets around the building or entering into buildings.
- Appliances burning Class D oil have additional restrictions. (See 1.7.3 in Oftec Book 3 - Aug. 2002)
- Vertical structure in N, O and P include tank or lift rooms, parapets, dormers etc.
- Terminating positions A to L are only permitted for appliances that have been approved for low level flue discharge when tested to OFS A100 or A101.
- Terminating positions must be at least 1.8 metres distant from an oil storage tank unless a wall with at least 30 mins fire resistance and extending 300mm higher and wider than the tank is provided between the tank and the terminating position.
- Where a flue is terminated less than 600mm away from a projection above it and the projection consists of plastic or has a combustible or painted surface, then a heat shield of at least 750mm wide should be fitted to protect these surfaces.
- For terminals used with vapourising burners, a horizontal distance of at least 2300mm is required between the terminal and the roof line.
- If the lowest part of the terminal is less than 2 metres above the ground, balcony, flat roof or other place to which any person has access, the terminal must be protected by a guard.
- Notwithstanding the dimensions given in the drawing and table, a terminal should not be sited closer than 300mm to combustible material.

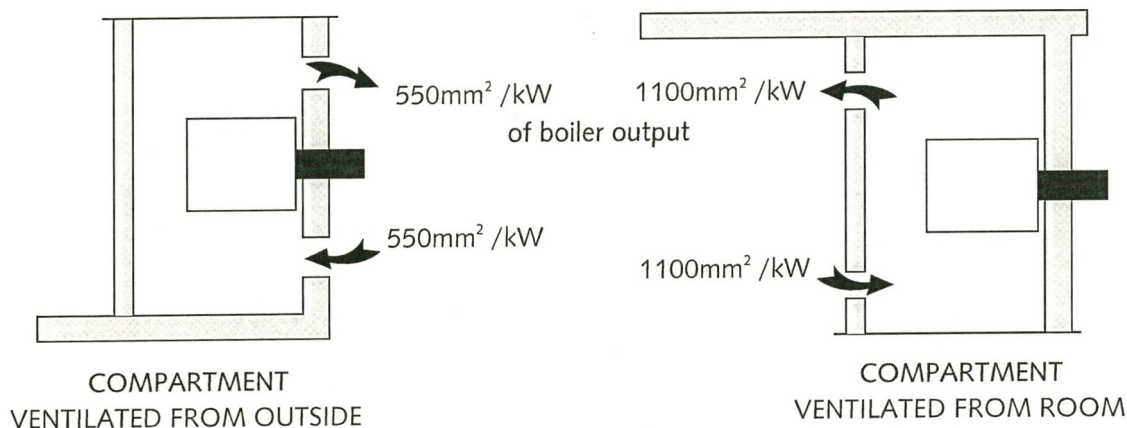
BALANCED FLUE BOILERS

The Firebird boiler may be set for Room-sealed balanced flue operation using a Firebird condensing balanced flue kit. This kit does **not** draw **combustion air** from inside the room. **It is drawn from outside direct to burner by airpipe supplied with boiler.** Flue gases are expelled through the same kit. However, if the boiler is installed in a **compartment** or **small room**, some **ventilation air** is necessary to maintain acceptable temperature in boiler area.

Balanced flue boiler in room (eg. kitchen) does not require individual ventilation.

BALANCED - FLUE BOILERS IN COMPARTMENTS

Information supplied by 



Use of any equipment other than the matching Firebird low level roomsealed concentric flue kit is not guaranteed for low level discharge and will probably invalidate the warranty.

DOMESTIC HEATING & HOT WATER SYSTEMS

HVCA Codes of Practice and BS 5449: Part 1 "Forced Circulation Hot Water Systems" should be adhered to when installing the boiler. Refer also to Regulations and Standards listed on **PAGE 4**.

ELECTRICAL SUPPLY

The boiler and controls require 230V 1 phase 50Hz electric supply with a 5amp fuse.

THIS APPLIANCE MUST BE EARTHED.

A qualified electrician must carry out all electric wiring in accordance with current I.E.E Regulations and any local regulations which may apply.

The mains electrical supply must be taken from a double pole isolating switch with a 5amp fuse, positioned somewhere close to the boiler. Heat resisting cable must be used which can be routed into the boiler through the access provided on either side of the base.

Ancillary controls may be provided for with terminal connections in the control panel.

VENTILATION AND COMBUSTION AIR

Conventional Flue Boilers

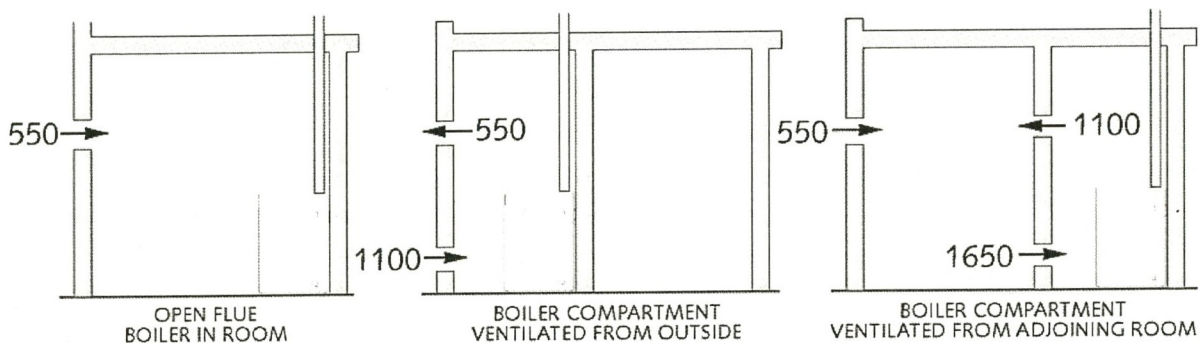
An adequate supply of **combustion and ventilation air** is essential for efficient and safe boiler operation and the openings for this should be positioned to cause least possible draught, **with no possibility of being accidentally blocked.**

Please note: The British Standard Code of Practice for Oil Firing BS5410: Part 1, requires a permanent air inlet opening of **550mm² per kW (above 5 kW)** of boiler rated output. (Note: 1kW = 3412 Btu/h).

Also, when the boiler is installed in a compartment or confined space, **ventilation** openings are required to ventilate and to avoid overheating in the boiler area.

Combustion & Ventilation air supply for conventional open flue boilers

The figures shown are free areas of grilles in mm² per kW of appliance rating (output).



Information supplied by



FULL TEXT of both BS 5410 Part 1: 1997 and appropriate Building Regulations for each country should be obtained and fully applied

N.B. Please Carefully Note:

- A.** For boiler installations in domestic garages in Scotland, Part F of Building Regulations permits **only** Room Sealed appliances to be used (Ref. OFTEC Bk. Three May 1999 page 1 (18)).
- B.** Technical annex T1/127 to OFTEC Book Three, May 1999 page 2 (19) Para. 1, 2 states "In Scotland and the Republic of Ireland **only** Room Sealed Balanced Flue Appliances can be used in that location" (i.e. domestic garages).

Definitions

- Combustion Air :** Air required directly by boiler oil burner for combustion process.
- Ventilation Air :** Air required in room for ventilation, cooling, etc. and to promote a healthy living environment.

6-A Important Notice

Because of the improved efficiencies of boilers under E.U. Efficiency requirements and OFT A100 Standard, it is necessary to pay extra special attention to flues and chimneys.

The improved efficiency figures achieved by modern oil boilers are attained by using more of the heat (higher temperatures) heretofore allowed into flues and chimneys. This previously wasted heat helped to keep bad and poorly operating and often uninsulated flues and chimneys from condensing and causing problems. Please be fully aware of this when replacing an existing boiler. An old and poorly operating flue may need to be replaced to take full advantage of improved efficiencies and to avoid flue gases condensing and appearing as white water vapour (pluming) at flue (chimney) outlet.

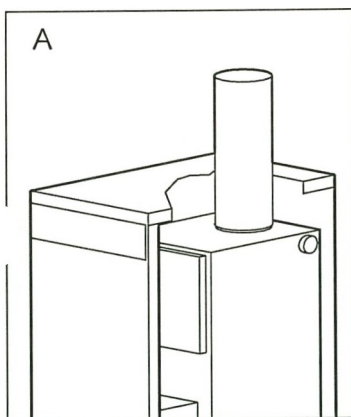
New flues and chimneys should be properly insulated and constructed to prevent condensation and draughting problems. Every individual concerned with any aspect of installation should be aware of the foregoing and should have full knowledge of and work to **European, National and Local Govt. Standards and Building and Installation Regulations.**

These manufactures instructions must not in any way be mis-interpreted as over-riding the above or any statutory regulations. It is absolutely essential that the boiler is properly installed so that **NO FLUE GASES** can enter the building at any time. Flue pipes should be safely sealed into the wall to prevent flue gases re-entering room or building. Refer also to page 16.

PREPARING BOILER FOR CONVENTIONAL CHIMNEY/FLUE OPERATION

Before installing boiler in the above mode please ensure:

- A. That chimney flue is cleaned, draughting adequately, lined and not subject to downdraughts. **It is emphasised that boiler and flue should be connected properly in a manner which will not allow flue gases to enter room or building at any time from any part of the installation.**
- B. That adequate unrestricted air for combustion and ventilation is provided to room in which boiler is situated - see diagram pg.20 & 21.
- C. That there is no extractor fan capable of causing negative pressure in boiler room resulting in burner malfunction and flue gases being drawn back into boiler room.



Conventional Flue Installations-

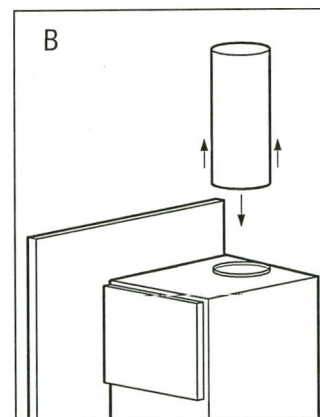
1. Remove blanking plate from top panel by pulling backwards.



2. Fit trim sleeve to flue pipe (if supplied).
3. Slide upwards and 'park' it out of the way
4. Fit flue pipe into boiler socket and properly seal with high temperature silicone mastic or non-cracking fire cement.
5. Fit white enamel top panel
6. Fit cut-out cover plate behind flue pipe (shown in diagram)

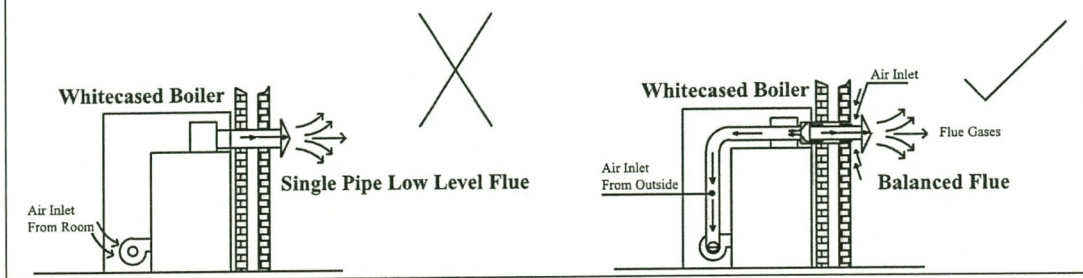


7. Slide trim sleeve down against top panel (If Supplied)



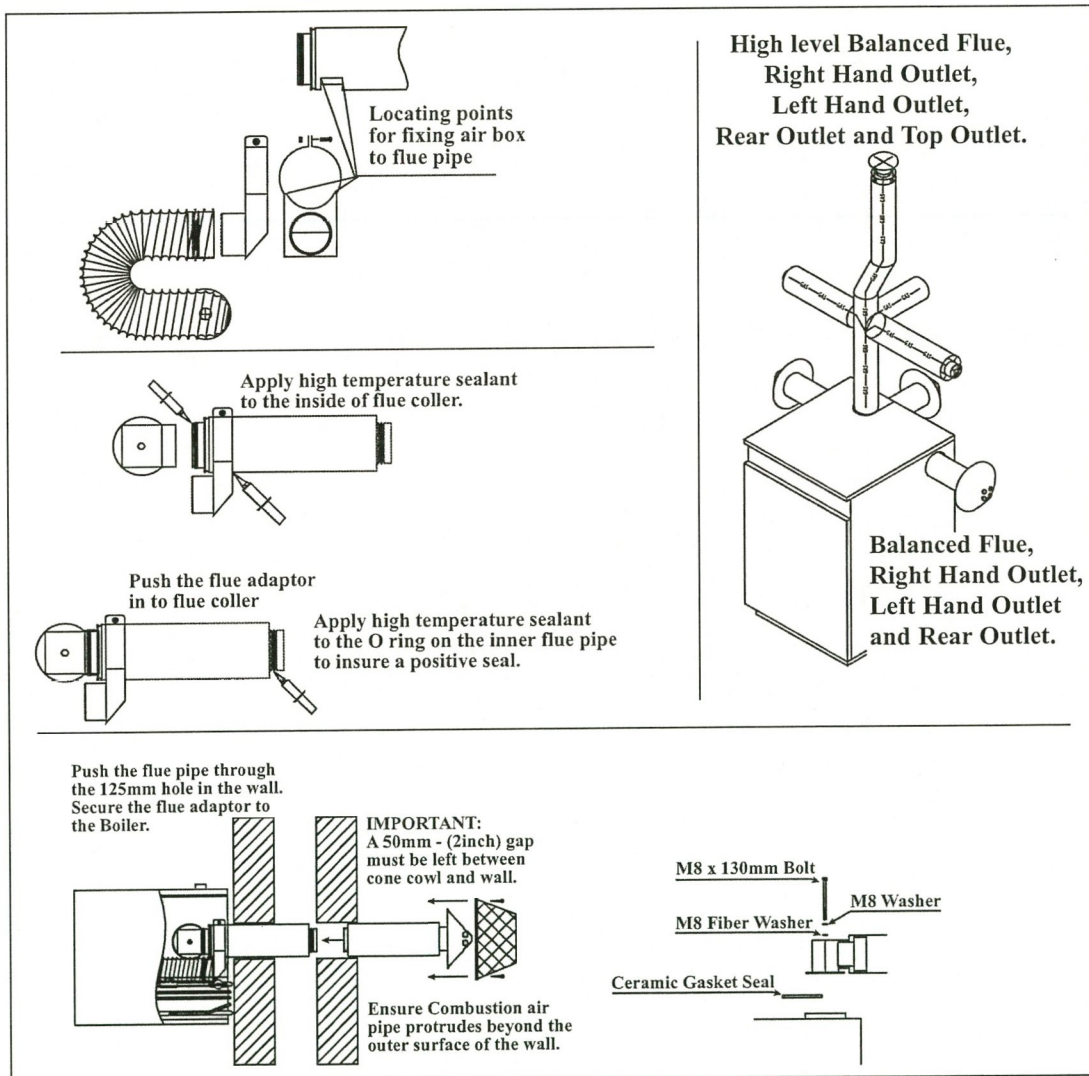
ENSURE UNRESTRICTED AIR-SUPPLY TO BOILER ROOM. No further adjustments are required for adequate combustion-air supply. Check burner operation when installation is completed, use burner **Combustion Analyser** to ensure correct performance.

Consult separate burner manual supplied with boiler.

IMPORTANT**SINGLE PIPE LOW LEVEL FLUES ARE NOT PERMITTED****BALANCED FLUE SYSTEM**

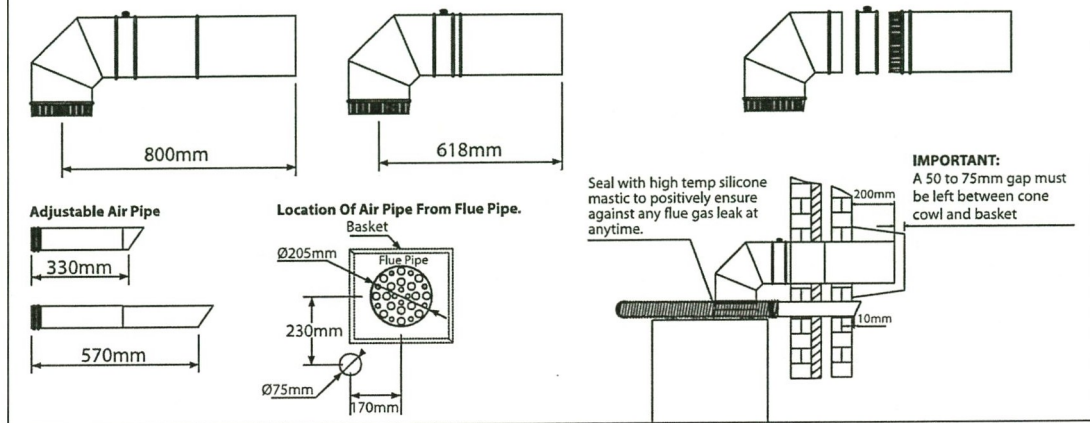
IMPORTANT: THE INSTALLER MUST EXAMINE THIS ILLUSTRATION CAREFULLY BEFORE PROCEEDING WITH INSTALLATION.

- Firebird do not recommend the use of a low level flue's on white cased indoor boilers.
- The Firebird low level concentric flue kit has been specifically designed for Firebird's indoor boilers. The use of third party low level flue kits is not recommended and may affect its warranty.

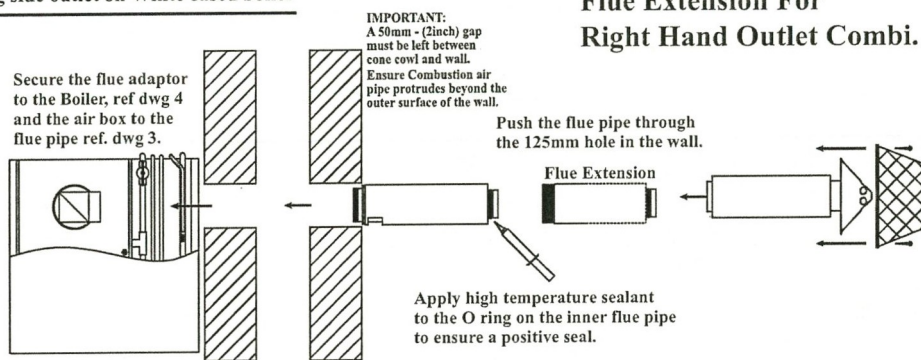
**ENSURE UNRESTRICTED AIR-SUPPLY TO BOILER ROOM.**

No further adjustments are required for adequate combustion-air supply. Check burner operation when installation is completed, use burner **Combustion Analyser** to ensure correct performance. Consult separate burner manual supplied with boiler.

8" Twin Pipe Flue for Firebird 250,000 and 310,000 btu's boilers. 3" (75mm) air pipe supplied with balanced flue kits

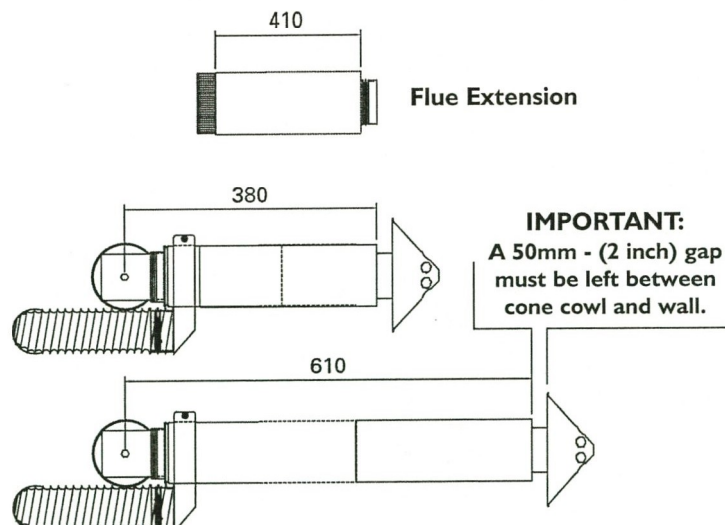


Assembly for concentric flue when
going side outlet on White cased boiler



CONCENTRIC FLUE SYSTEM

5" (125mm) O.D. Concentric flue Firebird S 70,000 - 90,000 and 120,000 btu's Boilers.

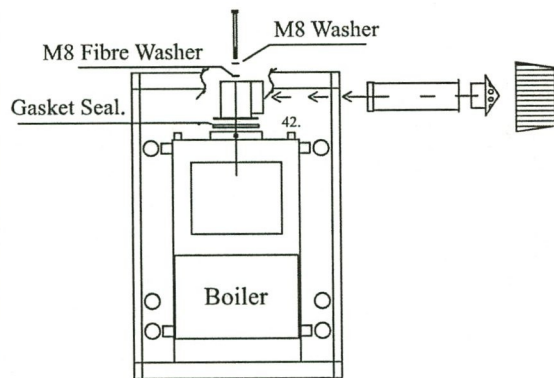


INSTALLATION INSTRUCTIONS SUPPLIED WITH FLUE KITS

HEAT PAC - Concentric Flue Assembly. Please follow all instructions and Building Regulation extracts supplied with boiler.

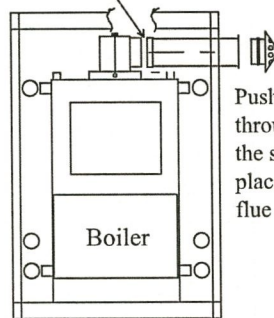
(A.)

Use an M13 Spanner to secure the flue adaptor to the boiler.



(B.)

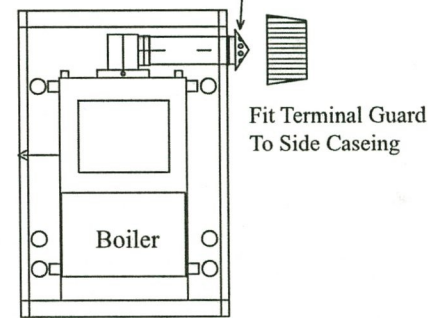
Apply high temperature sealant to the inside of flue.



Push the flue pipe through the hole in the side panel and place firmly over flue adaptor.

(C.)

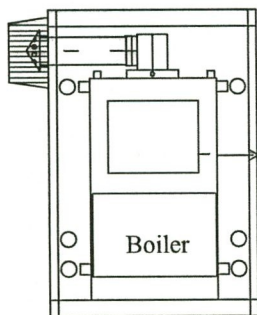
Push cowl into flue



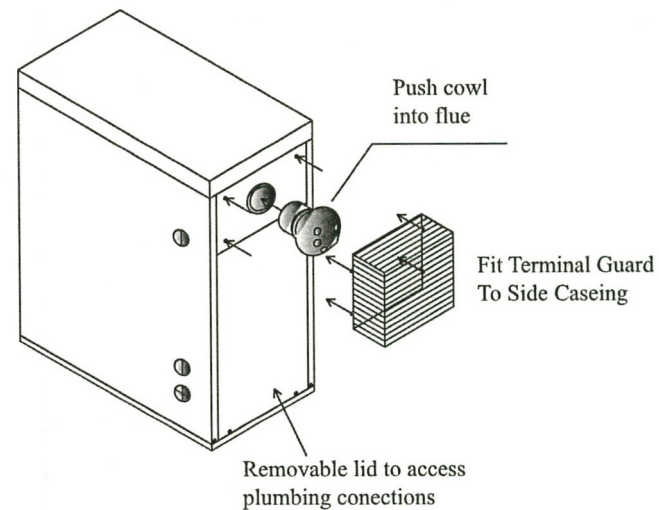
Fit Terminal Guard To Side Caseing

(D.)

For Left Hand Flue option rotate flue adaptor and swap removable side panels.



Slimline Heat Hac



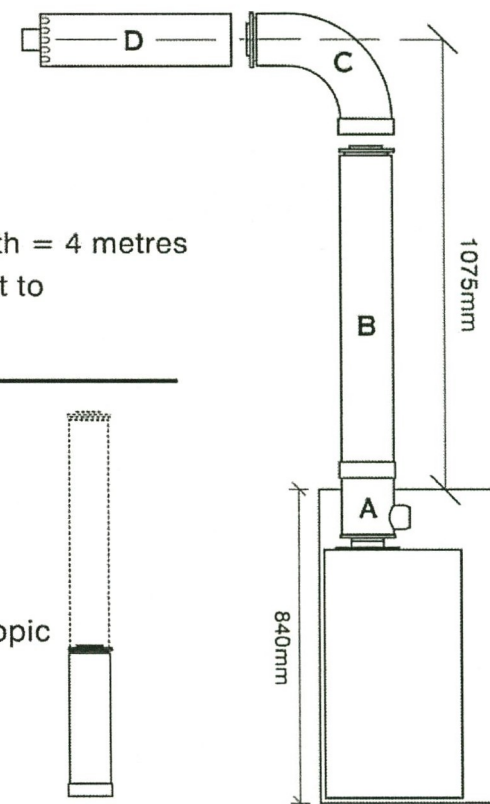
HIGH LEVEL BALANCED FLUE SYSTEMS

HIGH LEVEL KIT CONTENTS

- A Boiler Adapter
- B 1000mm length
- C 90° bend
- D Terminal Adjustable 300mm - 500mm

Please note:

Maximum flue length = 4 metres
 90° bend equivalent to
 1 metre length



VERTICAL KIT CONTENTS

- A Boiler Adapter
- B&C 1000mm length
- D Roof Terminal 1000mm

Please note:

Maximum flue length 6 metres 50-70
 6 metres 70-90
 5 metres 90-120
 Overall length must take into account
 45° bend = 500mm length

EXTENSION EXTRAS

1000mm

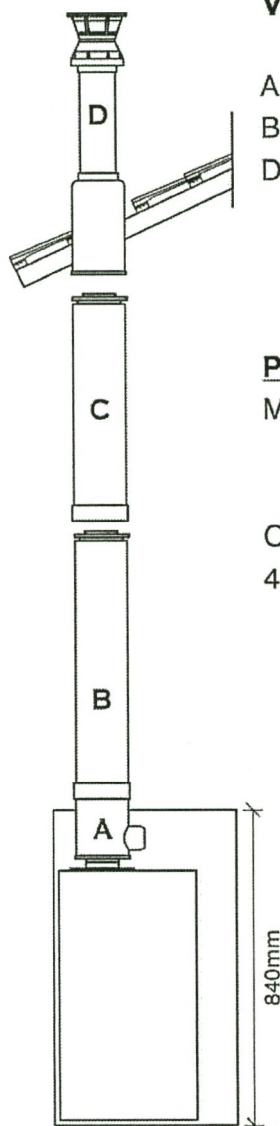
500mm

250mm

330mm telescopic

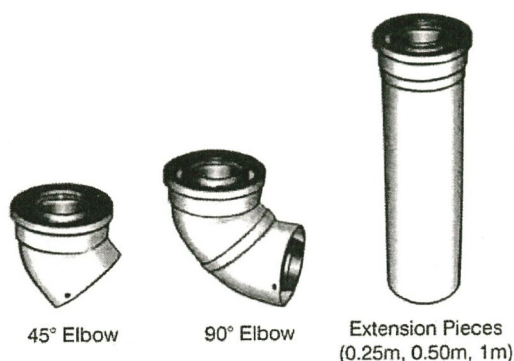


45° bend



FLUE INSTALLATION INSTRUCTIONS

FLUE INSTALLATION INSTRUCTIONS



For maximum permissible flue runs see page 20.

Typically the figure given is the flue distance from the boiler to the terminal (not inclusive of terminal). A 45° elbow is given a straight equivalent of 0.5 metres and a 90° elbow is given a straight equivalent of 1.0 metre, and consideration has already been given to the diameter of the flue to be used.

(i.e. Boiler X has been given a maximum flue run of 6 metres using a 100mm flue and 10 metres using a 125mm flue.)

For long flue runs it may be necessary to fit a condensation drain. Please consult the boiler manufacturer's handbook.

INSTALLATION OF FIREBIRD FLUES

For best results using Firebird flues it is recommended to work from the terminal back to the boiler. All Firebird components are designed to be push fit. The components have male fittings one end and female fittings the other. The female fitting should always be facing towards the terminal. The straight extension pieces can be dis-assembled to help installation. The inner component should be firmly pushed onto the bottom of the previous piece until it is sat firmly home (see fig. 1). The outer component can then be slid over the inner component and pushed onto the previous piece (see fig. 2).

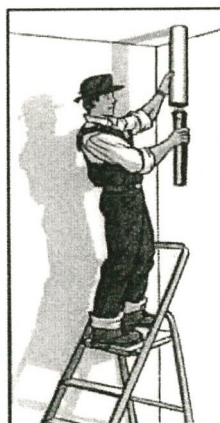


fig. 1



fig. 2

CUTTING FIREBIRD FLUES

Sometimes flue components need to be cut. We recommend that the piece requiring cutting should be dis-assembled. The inner piece should be cut using a sharp hack saw, taking care that the piece be cut square. To help, the inner piece should be 95mm longer than the gap between the two components to be joined. This 95mm is approximately the depth of the sockets. The outer should be 20mm shorter than the inner component. Once the cutting is finished, take care to remove all sharp edges and burrs as this can damage the inner seals upon assembly.

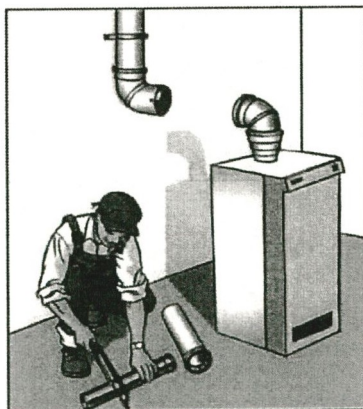


fig. 3

SUPPORT

All Firebird flues require support by use of brackets. It is recommended to use one bracket per metre of horizontal flue and one bracket per 2 metres of vertical flue. Brackets should be located directly under the socket section of the pipe work, where possible. Any flue run less than 90° should be treated as horizontal.

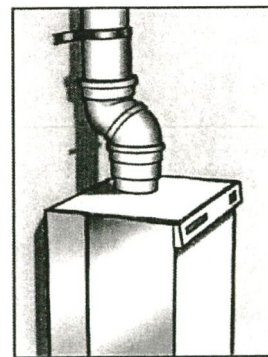


fig. 4

OIL STORAGE TANK SITING

Consult OFTEC Manuals

It is very unlikely that a fire should start from a domestic oil tank, however it does need to be protected from a fire which may originate in a building nearby. For this reason, the tank should be located at least 1.8 metres from any building and no closer than 760mm from any boundary. If it must be closer than 1.8 metres, the building wall should not have any openings other than ventilation openings. In addition, the wall should have at least 30 minutes fire resistance and extending 300mm higher and extends 300mm beyond both ends of the tank is provided between the tank and the terminating position and the wall should have a half hour resistance to an internal fire and extend 1.8 metres from any part of the tank.

A non-combustible radiation barrier is an alternative but this must meet the requirements of BS 5410 Part 1: 1997, "clause 28" Section 6.4.

Steel tanks must be mounted on brick or block piers with a waterproof membrane between the piers and tank.

See Oftec Technical Information T19

Oil storage tanks should not be sited within 1.8m of boiler flue outlets.

Do not allow household waste or hot ashes container in vicinity of oil storage tank or boiler flue outlet.

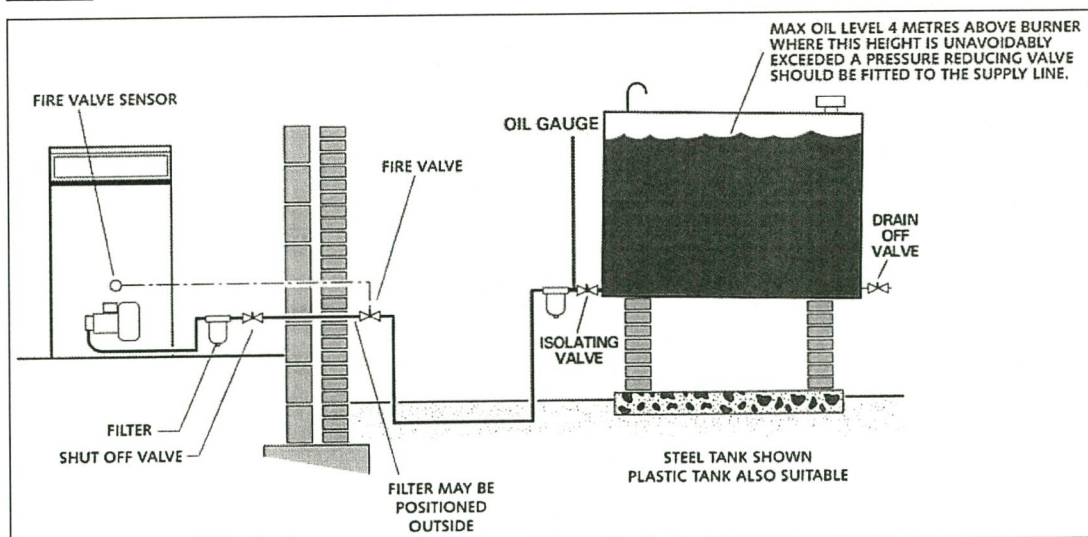
FLEXIBLE OIL PIPE(S)

A flexible burner oil hose is supplied with the boiler which must be wholly contained within the appliance case.

Please note: A filter must not be fitted inside the boiler and all joints in the oil line MUST BE OIL-TIGHT. Soldered joints are not permissible. Before connecting to the boiler always flush the complete oil supply line and ensure that oil supply is completely clean and free of any dirt or foreign matter.

SINGLE PIPE SYSTEM

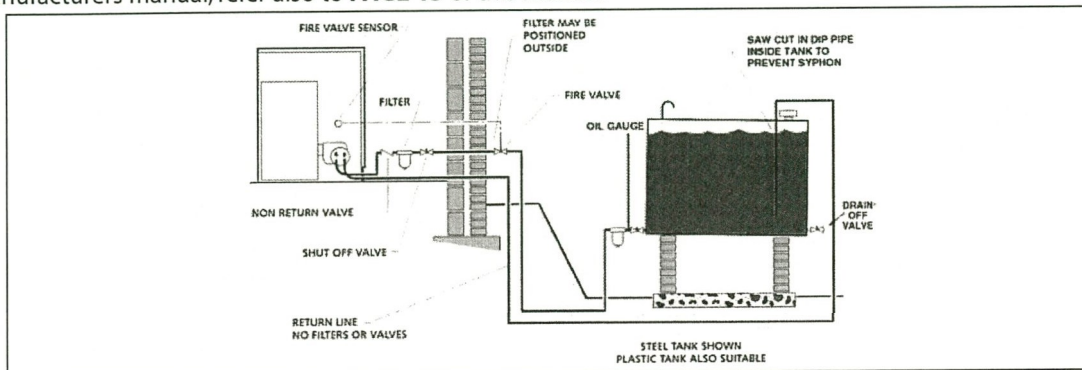
Where installations have the bottom of the tank above the oil burner, a single pipe system may be used. The oil burner should then be set for single pipe operation - **See also manufacturers oil burner manual**



TWO PIPE SYSTEMS

Where installations have the bottom of the tank below the oil burner pump a two pipe system is required. Ensure that valves and filters are not fitted in the return line as this must be unobstructed at all times.

The oil burner pump should be set for two pipe operation as detailed in accompanying oil burner manufacturers manual, refer also to **PAGE 15** of this manual.



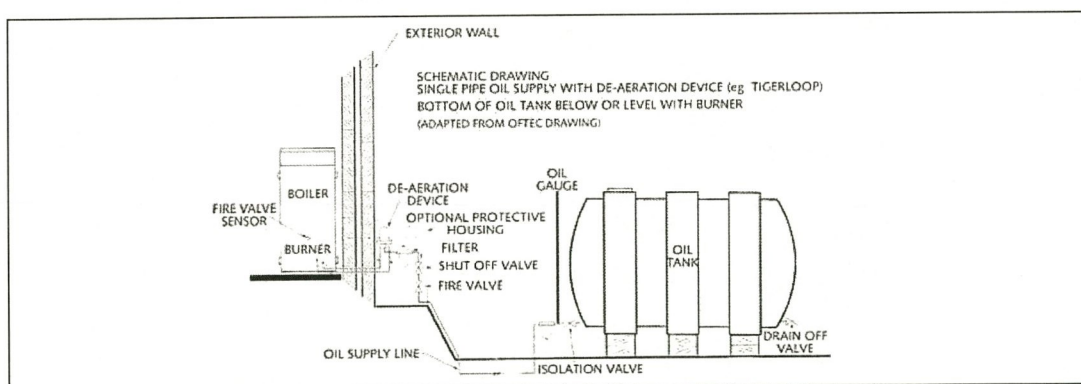
TIGERLOOP SINGLE PIPE SYSTEMS

IMPORTANT: The Tigerloop should not be fitted inside the dwelling -
See TI/139 drawing below and OFTEC manual book 3 page 2(8:1)

Where installations normally require a two pipe system but have long or impractical return line runs, a 'Tigerloop' De-aerator can be used which removes air from a single - pipe - lift oil feed. Higher lift heights can be achieved than are possible with conventional two pipe systems.

The oil burner pump should be set for two pipe operation.

INDIVIDUAL TIGERLOOP INSTRUCTIONS MUST BE IMPLICITLY FOLLOWED.



FIRE VALVES

A fire valve is an essential part of the oil supply system. It should be capable of cutting off the flow of oil outside the building in the event of a fire starting up within the boiler. The valve should be located just outside the building at the point where the oil supply line enters. It must be activated by a remote sensor located over the burner, but in a position clear of any direct radiation or excessive heat.

IMPORTANT: Fire Valves should comply with **OFTEC Standards OFS E101**
Fitting of Fire Valves should comply with **BS : 5410 Part 1**

REGULATIONS & STANDARDS

In **England and Wales**, installation in single family dwellings have to comply with the building Regulations Part J. This requires compliance with BS 5410 : Part 1 : 1997. All tanks either deemed to be at risk or with a capacity of more than 2,500 litres will require to be banded.

For installation in **Scotland**, Building Standard Part F applies. This requires compliance with BS 5410 : Parts 1 and 2. All tanks either deemed to be at risk or with a capacity of more than 2,500 litres will require to be banded.

Those externally installed tanks with a capacity of less than 2,500 litres will require a band if located not more than 50 metres from a spring or bore hole, 10 metres from controlled waters and additionally where it may constitute a hazard.

The above risks and hazards are described in OFTEC Technical Information Note TI/133.

In **Northern Ireland**, the Building Regulations do not currently cover the installation of oil storage tanks.

In the **Republic of Ireland** the requirements of BS 5410 : Parts 1 and 2 are required to be complied with by Building Regulations Part J.

It is recommended that commissioning is carried out by a competent and qualified service engineer.

It should be noted that it is the responsibility of the installer to ensure that the boiler is properly commissioned. Failure to do so may invalidate the boiler guarantee and any extended warranty.

PROCEDURES

1. Oil Tank

The installation of the oil tank and supply line should comply with all the instructions shown earlier in this manual. Consult OFTEC Manual - Book No. 3, Section 2.

If a single supply line is used ensure that the bottom of the tank is above the burner. A suction line system via a de-aerator should be used where the level of the oil in the tank may fall below the level of the oil burner pump.

CHECK AND ENSURE CORRECT GRADE FUEL OIL HAS BEEN SUPPLIED.

2. The Burner

A two single pipe system may also be used in low-level tank installations. See page 21 Section 5. Please flush out oil pipe by drawing off some oil before connecting fuel pipe to burner - otherwise there is a danger of grit and dirt being forced into the burner pump, resulting in pump blockage, damage and 'lock-out'

3. The Boiler

- A.** Switch off the power supply, ensure that the boiler and system is full of water, all valves are open and that installation conforms with all Standards, Regulations and Instructions.
- B.** Check that boiler baffles are correctly positioned.
- C.** Check the oil supply by disconnecting the oil supply hose at the burner and running off a quantity to ensure it is free from air. then bleed air from burner pump. Refer to section 2, page 7, sketch C, Item-E.
- D.** If fitted, check that the time switch is 'ON' and that both room and boiler thermostats are calling for heat.
- E.** Reconnect electrical supply and the boiler should start. If the burner lock-out activates, this suggests air in the pump. Wait a minute or so and try again. If lock-out occurs again, air must be bled from the pump pressure gauge connection point once more.
- F.** View the burner flame through the sight glass - it should be bright cream/yellow without any sign of smoke. Use a smoke gun to check that the burner is burning clean.
- G.** Run the boiler for about fifteen minutes then take a CO2 reading and adjust as necessary.

HANDING OVER

A thorough check of the system should be made, then the householder should receive a clear and concise demonstration of the boiler operation and any system controls.

This manual and burner manufacturers manual plus any other instructions should be handed over to the user, the guarantee card should be completed and posted, and the user advised about the importance of annual servicing.



COMMISSIONING RECORD - PAGE 43

Should be completed and a copy kept in engineers file.



NOTE: IT IS STRONGLY RECOMMENDED THAT SERVICING IS CARRIED OUT BY A COMPETENTLY QUALIFIED ENGINEER.

RECOMMENDED SERVICE INTERVALS

C2 Kerosene Annually

Before carrying out a service it is recommended that the following is checked:

A). Smoke

B). CO2

C). The flue gas temperature

D). Oil pressure

E). Ensure flue is unrestricted & operating properly

At the same time check for oil and combustion leaks. Advance to service **ONLY** after ensuring that both electric and oil supply to boiler is safely isolated

THE OIL TANK

Draw off any accumulated water and sludge from the tank by opening the drain cock. Turn off the oil supply and remove the filter bowl, then wash the element clean with kerosene. Steel Tank Only

THE BOILER

Remove combustion access door for access to baffles and to clean heat exchanger.

Check insulation sealing and its silver foil lining in combustion access door - replacing when necessary. When refitting this door be careful not to damage the foil and insulation by over tightening.

THE BURNER

Check performance of oil-nozzle and replace as necessary.

Ensure correct specification replacement nozzle is used.

Check all oil filters and replace as necessary.

Remove burner and clean blast tube and ensure that airways are clear.

Ensure electrodes are clean, dry, not broken and are set as per burner specifications.

Clean fan and photocell.

Once again check flexible oil lines and connections for damage or leaks, replace as necessary.

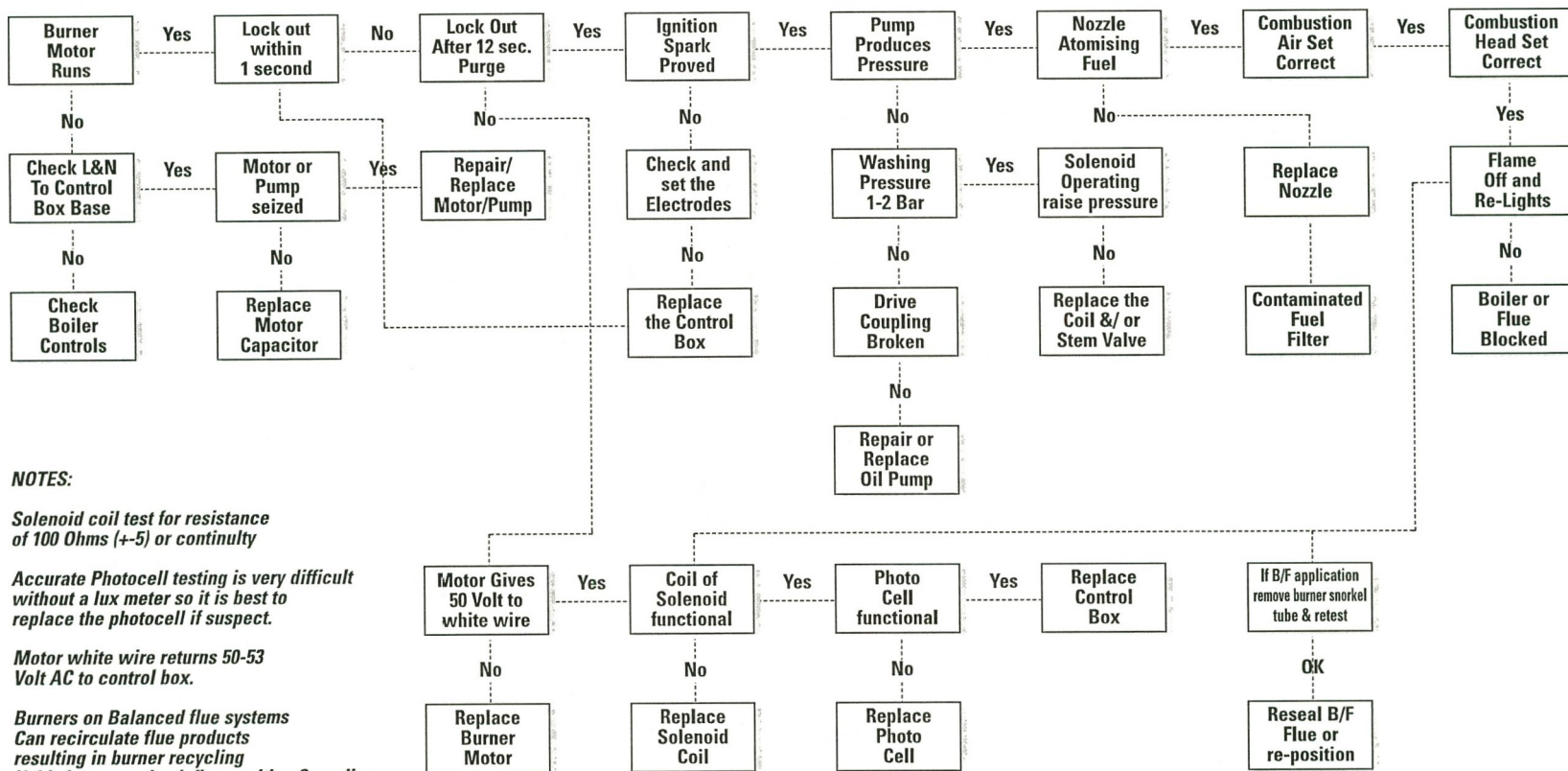
Combustion Check

Carry out combustion analysis and ensure that boiler is performing to specification outlined in manual. Flue conditions may cause deviation from these figures.

Always keep careful record of flue gas analysis results including any verbal and written advice to customer (householder). Always check carefully for restricted or blocked flue. If possible record CO levels and advise customer of need to keep boiler room well ventilated.

SERVICING RECORD - PAGE 42

Fault Finding Logic For Control Box Type 5352 SE/LD RDB Series Oil Burners



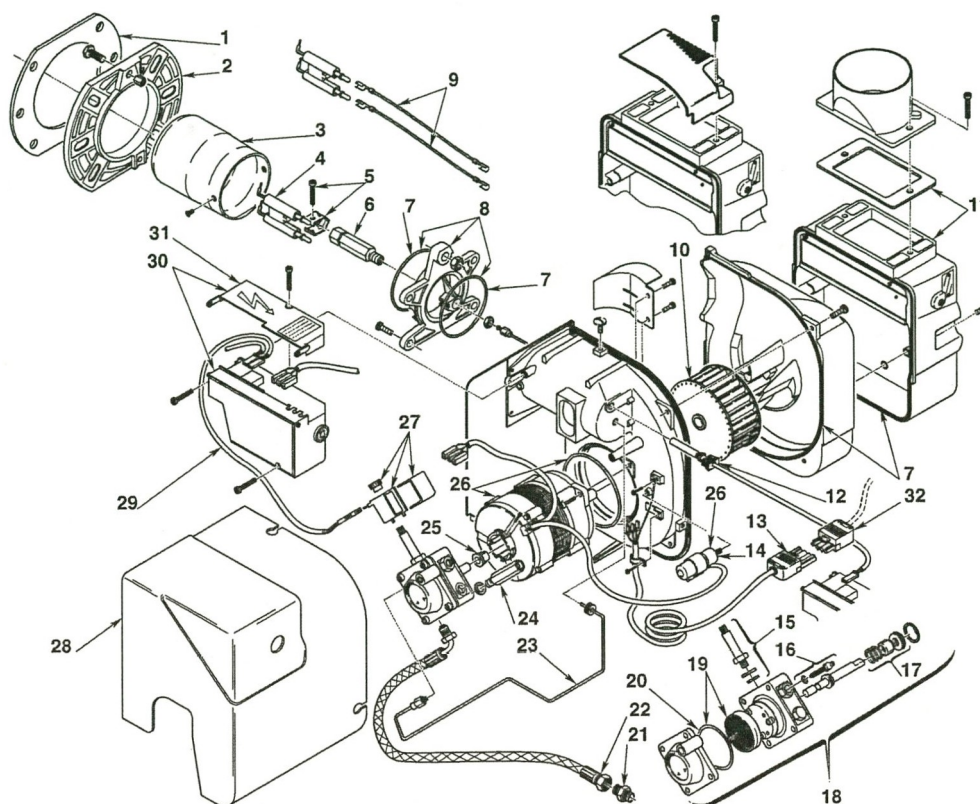
NOTES:

Solenoid coil test for resistance of 100 Ohms (+/-5) or continuity

Accurate Photocell testing is very difficult without a lux meter so it is best to replace the photocell if suspect.

Motor white wire returns 50-53 Volt AC to control box.

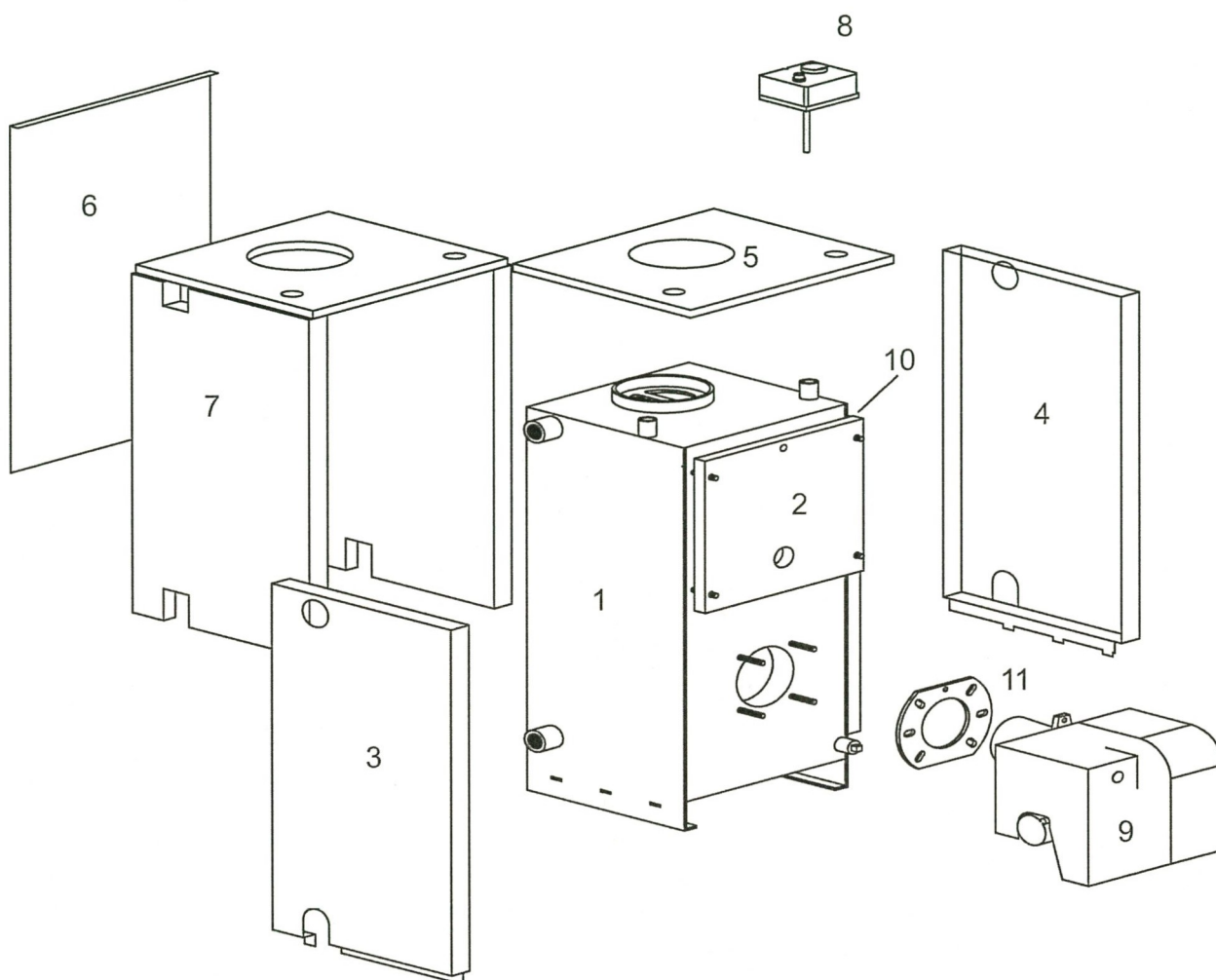
Burners on Balanced flue systems Can recirculate flue products resulting in burner recycling if this happens check flue position & sealing.



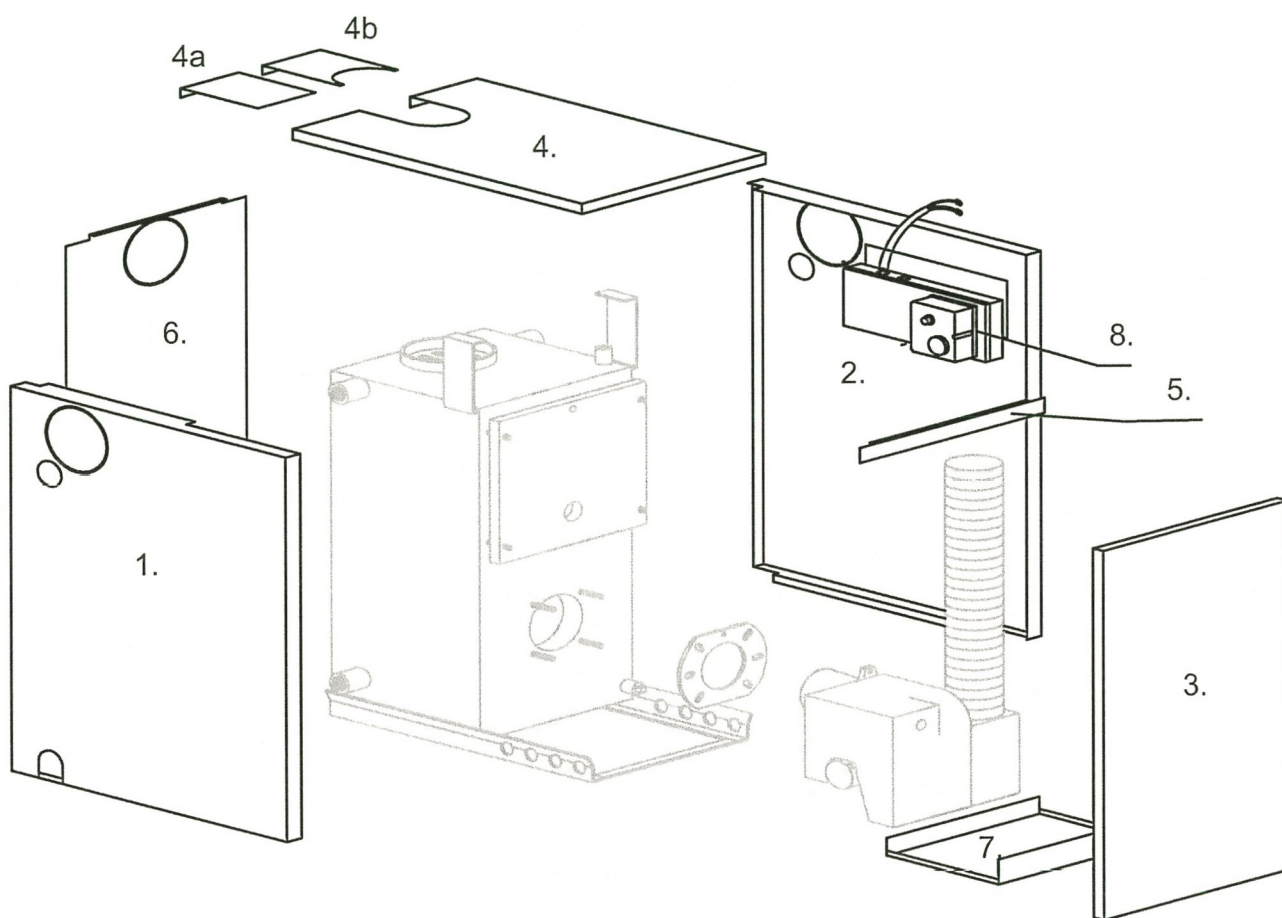
Item No	3514105	3514305	3514306	Code Spare Parts	Description
1	.	.	.	3005787	Gasket
2	.	.	.	3006384	Flange
3	.	.	.	3002447	Cup-Shaped Head
3	.	.	.	3002533	Cup-Shaped Head
3	.	.	.	3002507	Cup-Shaped Head
3	.	.	.	3008768	Cup-Shaped Head
4	.	.	.	3007513	Electrode Assembly
5	.	.	.	3006552	Electrode Bracket
6	.	.	.	3008642	Nozzle Holder
7	.	.	.	3008878	Kit Seals
8	.	.	.	3008643	Collar
9	.	.	.	3008794	High Voltage Lead
10	.	.	.	3005788	Fan
11	.	.	.	3008647	Air Damper Assembly
11	.	.	.	3008839	Air Damper Assembly
12	.	.	.	3008646	P.E. Cell
13	.	.	.	3002657	4 Pole Socket
14	.	.	.	3002837	Capacitor 4,5uf
15	.	.	.	3007582	Needle Valve
16	.	.	.	3008651	Regulator
17	.	.	.	3000439	Pump Seal
18	.	.	.	3008654	Pump
19	.	.	.	3008653	Filter - O - Ring
20	.	.	.	3007162	O - Ring
21	.	.	.	3003602	Connector
22	.	.	.	3007621	Flexible Oil Line
22	.	.	.	3005720	Flexible Oil Line
23	.	.	.	3008644	Tube
24	.	.	.	3008876	Pressure Gauge
25	.	.	.	3000443	Joint
26	.	.	.	3002836	Motor + Capacitor
27	.	.	.	3008648	Coil
28	.	.	.	3008879	Cover
29	.	.	.	3008851	Lead Coil
30	.	.	.	3008652	Control Box 535RSE/LD
31	.	.	.	3008649	Protection
32	.	.	.	3007418	4 Pin Plug

When Ordering Please Quote Part Description and Burner Type

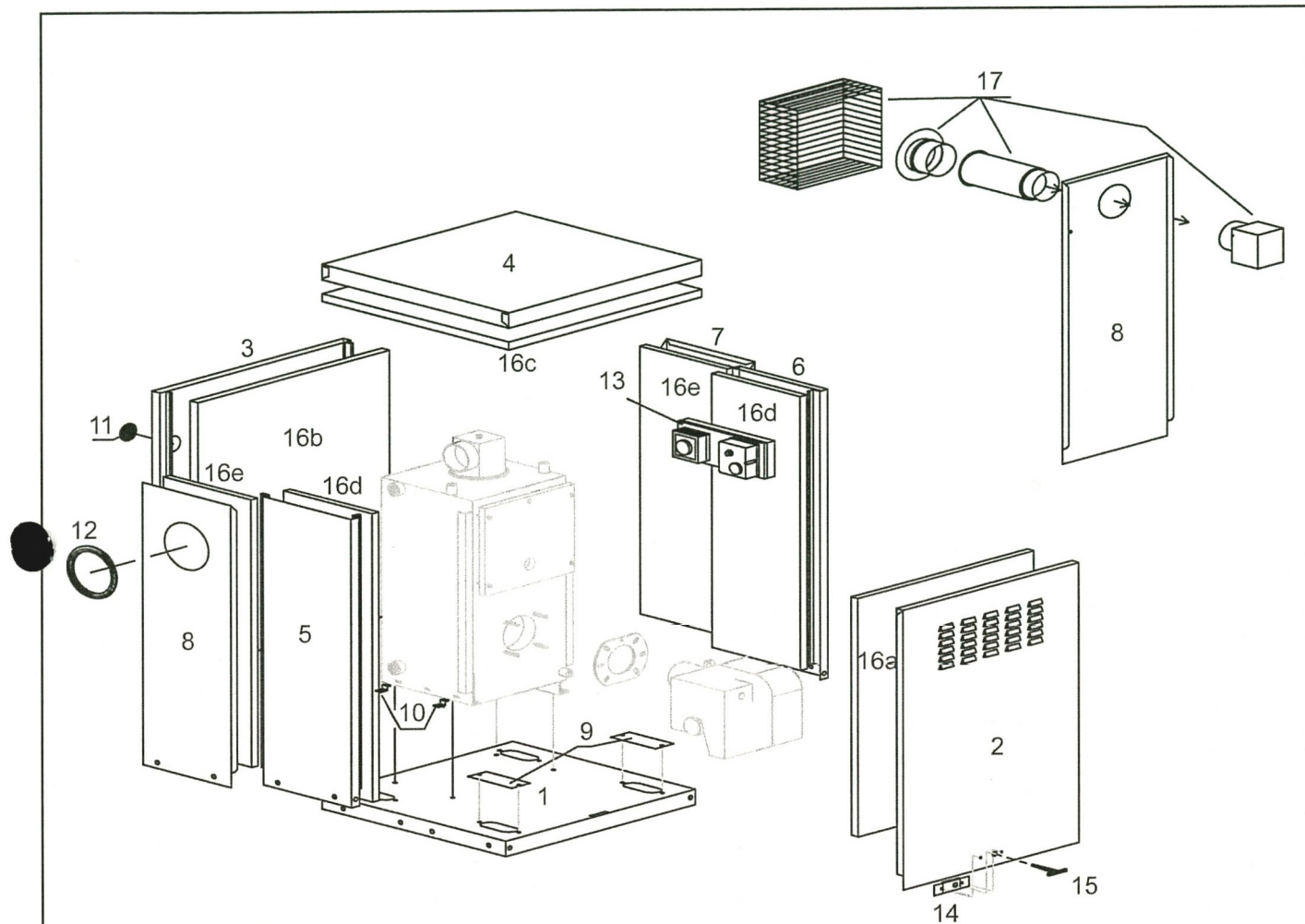
FIREBIRD



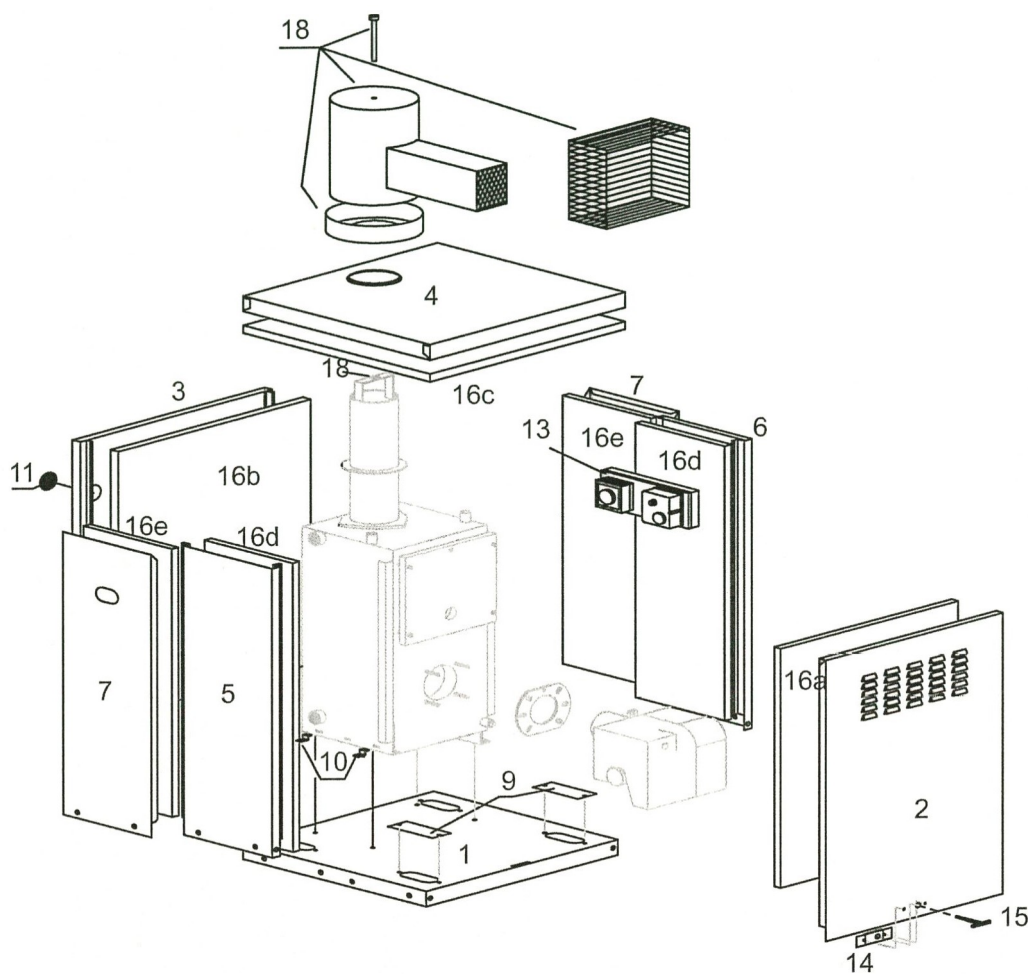
ITEM COMPONENTQty			POPULAR / BOILERHOUSE 'S' MODELS & PART NUMBERS					
			50-70-90	90-120	120-150	150-200	200-250	250-310
1	Boiler Shell Assembly	I	310058	310059	310193	310197	310199	310202
2	Baffle Door	I	210016	210066	210083	210100	210122	210139
3	Popular Sides (Set)	I	210022	210022	210149	210152	210157	210161
4	Popular Sides (Set)		210022	210022	210149	210152	210157	210161
5	Popular Top	I	210020	210053	210148	210153	210156	210160
6	Popular Back	I	210021	210054	210150	210154	210158	210162
7	Boiler Insulation Wrap	I	110019	110052	110151	110155	110159	110163
8	Stat	I	410204	410204	410204	410204	410204	410204
9	Burner	I	410208	410208	410209	410210	410211	410212
10	Ceraboard Door	I	110017	110051	110168	110170	110172	110174
11	Flange	I	see page 33	see page 33	see page 33	see page 33	see page 33	see page 33



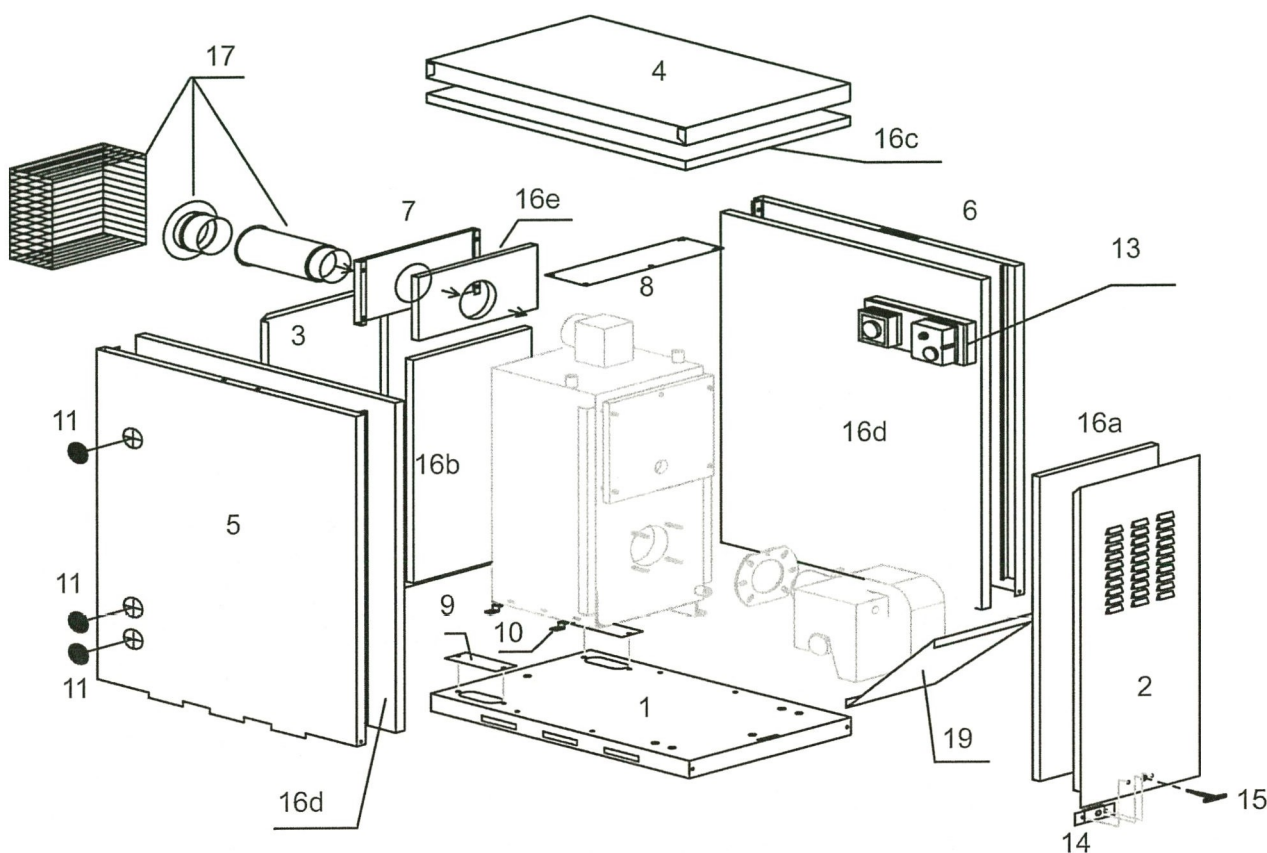
ITEM COMPONENT			KITCHEN 'S' MODELS & PART NUMBERS					
			50-70-90	90-120	120-150	150-200	200-250	250-310
1	Side Panel L H Side	1	FS90- LH-L-01	FS125- LH-L-01	FS150- LH-L-01	FS150- LH-L-01	FS200- LH-L-01	FS310- LH-L-01
2	Side Panel R H Side	1	FS90-RH-L-02	FS125-RH-L-02	FS150-RH-L-02	FS150-RH-L-02	FS200-RH-L-02	FS310-RH-L-02
3	Front Panel	1	FS90-FP-L-05	FS125-FP-L-05	FS150-FP-L-05	FS150-FP-L-05	FS200-FP-L-05	FS310-FP-L-05
4	Top Panel	1	FS90-TP-L-03	FS125-TP-L-03	FS150-TP-L-03	FS150-TP-L-03	FS200-TP-L-03	FS310-TP-L-03
4a	Flue Trim Plate	1	FS90-FTP-L-03	FS125-FTP-L-03	FS150-FTP-L-03	FS150-FTP-L-03	FS200-FTP-L-03	FS310-FTP-L-03
4b	Conventional Trim Plate	1	FS90-GP-L-03	FS125-CTGP-L-03	FS150-CTGP-L-03	FS150-CTGP-L-03	FS200-CTGP-L-03	FS310-CTGP-L-03
5	Light Strip	1	FS90-LS-L-46	FS125-LS-L-46	FS150-LS-L-46	FS150-LS-L-46	FS200-LS-L-46	FS310-LS-L-46
6	Back Panel	1	FS90-BP-L-04	FS125-BP-L-04	FS150-BP-L-04	FS150-BP-L-04	FS200-BP-L-04	FS310-BP-L-04
7	Drip Tray	1	FS90-L-31	FS125-L-31	FS150-L-31	FS150-L-31	FS200-L-31	FS310-L-31
8	Dual Stat	1	IM TLSC 542764	IM TLSC 542764	IM TLSC 542764	IM TLSC 542764	IM TLSC 542764	IM TLSC 542764
	Boiler	1	see page 34	see page 34	see page 34	see page 34	see page 34	see page 34



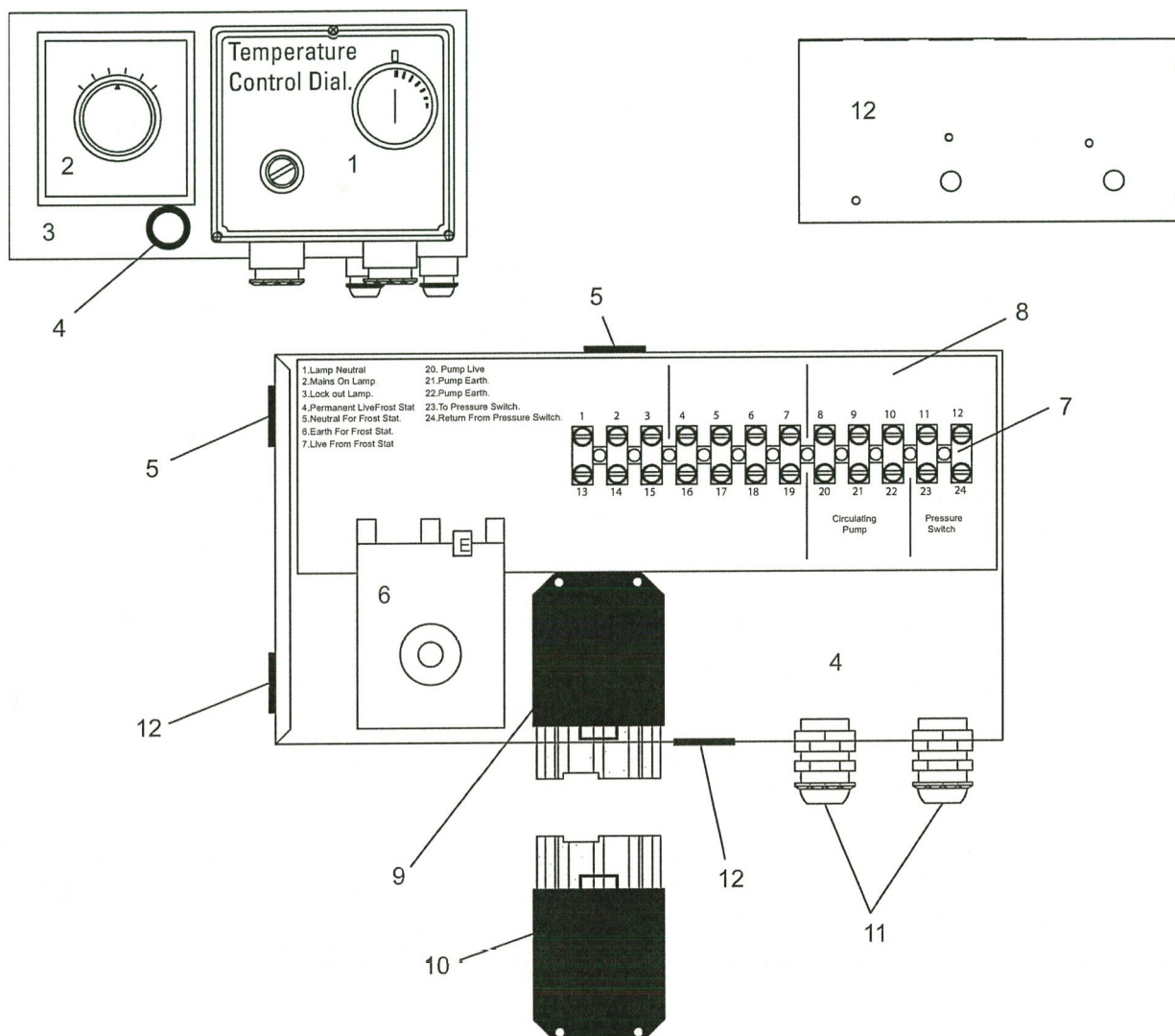
			HEAT PAC 'S' MODELS & PART NUMBERS		
ITEM COMPONENT		Qty	70-90	90-120	120-150
1	Base	1	HPS90-101	HPS120-101	HPS150-101
2	Front	1	HPS90-103	HPS120-103	HPS150-103
3	Back	1	HPS90-104	HPS120-104	HPS150-104
4	Top	1	HPS90-105	HPS120-105	HPS150-105
5	Fixed Left Side	1	HPS90-107	HPS120-107	HPS150-107
6	Fixed Right Side	1	HPS90-108	HPS120-108	HPS150-108
7	Removable Side [Blank]	1	HPS90-109	HPS120-109	HPS150-109
8	Removable Side [Flue]	1	HPS90-110	HPS120-110	HPS150-110
9	Base Blanks	4	HPS90-3381473	HPS120-3381473	HPS150-3381473
10	Boiler Fixing Clip	2	HPS90-3381474	HPS120-3381474	HPS150-3381474
11	45mm Body Plug	6	HPS90-3382875	HPS120-3382875	HPS150-3382875
12	Flue Panel Flange Seal	1	HPS90-3382876	HPS120-3382876	HPS150-3382876
13	Control Box	1	HPS90-3382877	HPS120-3382877	HPS150-3382877
14	Lock	1	HPS90-3382878	HPS120-3382878	HPS150-3382878
15	Key	1	HPS90-3382879	HPS120-3382879	HPS150-3382879
16	Panel Insulation Kit	1	HPS90-3382980	HPS120-3382980	HPS150-3382980
	16a Front Insulation	1	HPS90-3382980-2	HPS120-3382980-2	HPS150-3382980-2
	16b Back Insulation	1	HPS90-3382980-3	HPS120-3382980-3	HPS150-3382980-3
	16c Top Insulation	1	HPS90-3382980-4	HPS120-3382980-4	HPS150-3382980-4
	16d Fixed Side Insulation	2	HPS90-3382980-5	HPS120-3382980-5	HPS150-3382980-5
	16e Flue Side Insulation	2	HPS90-3382980-7	HPS120-3382980-7	HPS150-3382980-7
17	Flue Kit	1			
	Boiler	1	see page 34	see page 34	see page 34



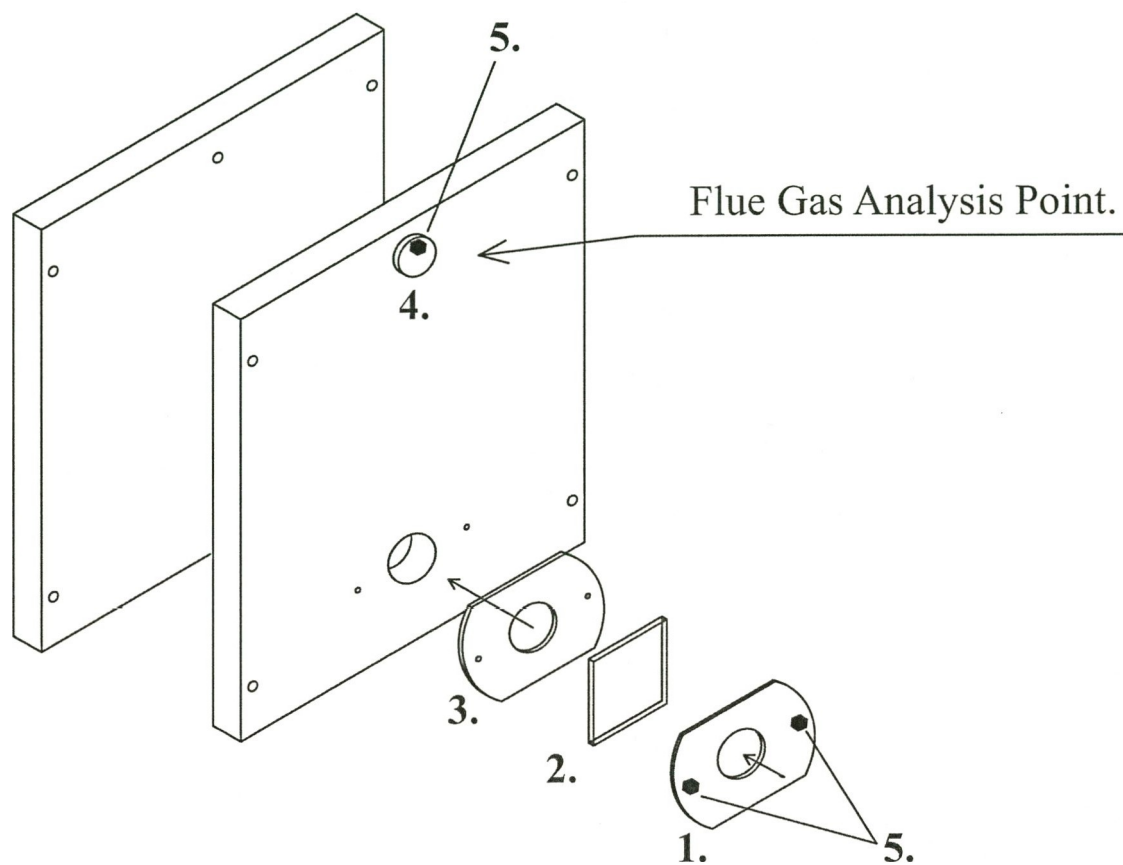
			HEAT PAC 'S' TURRET MODELS & PART NUMBERS					
ITEM	COMPONENT	Qty	50-70-90	90-120	120-150	150-200	200-250	250-310
1	Base	1	HPT90-101	HPT120-101	HPT150-101	HPT200-101	HPT250-101	HPT310-101
2	Front	1	HPT90-103	HPT120-103	HPT150-103	HPT200-103	HPT250-103	HPT310-103
3	Back	1	HPT90-104	HPT120-104	HPT150-104	HPT200-104	HPT250-104	HPT310-104
4	Top	1	HPT90-105	HPT120-105	HPT150-105	HPT200-105	HPT250-105	HPT310-105
5	Fixed Left Side	1	HPT90-107	HPT120-107	HPT150-107	HPT200-107	HPT250-107	HPT310-107
6	Fixed Right Side	1	HPT90-108	HPT120-108	HPT150-108	HPT200-108	HPT250-108	HPT310-108
7	Removable Side [Blank]	1	HPT90-109 / 110	HPT120-109 / 110	HPT150-109 / 110	HPT200-109 / 110	HPT250-109 / 110	HPT310-109 / 110
9	Base Blanks	4	HPT90-3381473	HPT120-3381473	HPT150-3381473	HPT200-3381473	HPT250-3381473	HPT310-3381473
10	Boiler Fixing Clip	2	HPT90-3381474	HPT120-3381474	HPT150-3381474	HPT200-3381474	HPT250-3381474	HPT310-3381474
11	45mm Body Plug	6	HPT90-3382875	HPT120-3382875	HPT150-3382875	HPT200-3382875	HPT250-3382875	HPT310-3382875
13	Control Box	1	HPT90-3382877	HPT120-3382877	HPT150-3382877	HPT200-3382877	HPT250-3382877	HPT310-3382877
14	Lock	1	HPT90-3382878	HPT120-3382878	HPT150-3382878	HPT200-3382878	HPT250-3382878	HPT310-3382878
15	Key	1	HPT90-3382879	HPT120-3382879	HPT150-3382879	HPT200-3382879	HPT250-3382879	HPT310-3382879
16	Panel Insulation Kit	1	HPT90-3382980	HPT120-3382980	HPT150-3382980	HPT200-3382980	HPT250-3382980	HPT310-3382980
	16a Front Insulation	1	HPT90-3382980-2	HPT120-3382980-2	HPT150-3382980-2	HPT200-3382980-2	HPT250-3382980-2	HPT310-3382980-2
	16b Back Insulation	1	HPT90-3382980-3	HPT120-3382980-3	HPT150-3382980-3	HPT200-3382980-3	HPT250-3382980-3	HPT310-3382980-3
	16c Top Insulation	1	HPT90-3382980-4	HPT120-3382980-4	HPT150-3382980-4	HPT200-3382980-4	HPT250-3382980-4	HPT310-3382980-4
	16d Fixed Side Insulation	2	HPT90-3382980-5	HPT120-3382980-5	HPT150-3382980-5	HPT200-3382980-5	HPT250-3382980-5	HPT310-3382980-5
	16e Flue Side Insulation	2	HPT90-3382980-7	HPT120-3382980-7	HPT150-3382980-7	HPT200-3382980-7	HPT250-3382980-7	HPT310-3382980-7
18	Flue Kit	1						
	Boiler	1	see page 34	see page 34	see page 34	see page 34	see page 34	see page 34



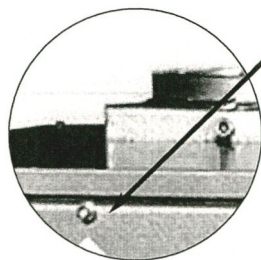
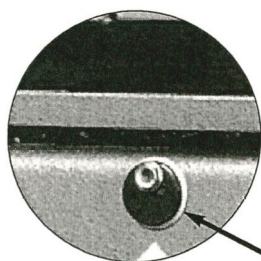
SLIMLINE HEAT PAC MODELS & PART NUMBERS				
ITEM	COMPONENT	Qty	50-70-90	90-120
1	Base	1	HPSL70-R-101	HPSL120-101
2	Front	1	HPSL70-L-103	HPSL120-103
3	Back	1	HPSL70-L-104	HPSL120-104
4	Top	1	HPSL70-L-105	HPSL120-105
5	Left Side	1	HPSL70-L-102	HPSL120-102
6	Right Side	1	HPSL70-L-102	HPSL120-102
7	Back Flue Outlet	1	HPSL70-L-106	HPSL120-106
8	Support Plate	1	HPSL70-L-107	HPSL120-107
9	Base Blanks	4	HPSL70-L-3381473	HPSL120-3381473
10	Boiler Fixing Clip	2	HPSL70-L-3381474	HPSL120-3381474
11	45mm Body Plug	6	HPSL70-L-3382875	HPSL120-3382875
13	Control Box	1	HPSL70-L-3382877	HPSL120-3382877
14	Lock	1	HPSL70-L-3382878	HPSL120-3382878
15	Key	1	HPSL70-L-3382879	HPSL120-3382879
16	Panel Insulation Kit	1	HPSL70-L-3382980	HPSL120-3382980
	16a Front Insulation	1	HPSL70-L-3382980-2	HPSL120-3382980-2
	16b Back Insulation	1	HPSL70-L-3382980-3	HPSL120-3382980-3
	16c Top Insulation	1	HPSL70-L-3382980-4	HPSL120-3382980-4
	16d Side Insulation	2	HPSL70-L-2372980-5	HPSL120-2382980-5
	16e Flue Outlet Insulation	1	HPSL70-L-2372988-7	HPSL120-2382988-7
17	Flue Kit	1		
19	Splash Gauard Boiler	1	HPSL70-L-2371487 see page 34	HPSL120-2381487 see page 34



CONTROL UNIT MODELS & PART NUMBERS				
ITEM	COMPONENT	Qty	Heat Pac	Kitchen
1	Dual Stat	1	TLSC542788	TLSC542788
2	Frost Stat	1	TLM2257	TLM2257
3	Control Box Cover	1	119183	119183
4	Control Box	1	119184	119184
5	Control Box Mounting	1	119185	119185
6	Over Heat Thermostat	1	FC03154	FC03154
7	Strip Connector	1	FC03144	FC03144
8	Label	1	W-1001	W-1001
9	Socket [Wieland]	1	FC031542	FC031542
10	Plug [Wieland]	2	FC03143	FC03143
11	Open Grommet	3	MO10281	MO10281
12	Blank Grommet	2	MO11321	MO11321



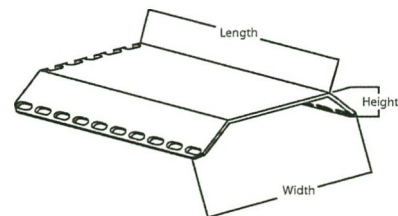
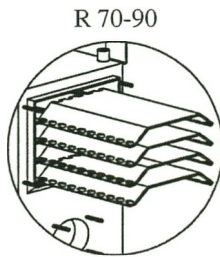
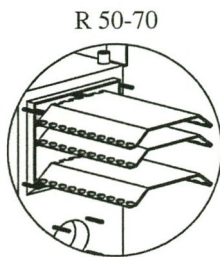
VIEW GLASS ASSEMBLY



6.

VIEW GLASS PART NUMBERS			
ITEM	COMPONENT	Qty	Part No.
1	View Glass Galv Bracket	1	210028
2	Viewing Glass	1	210027
3	Eye Spy Inspection Gasket & Blank	1	110029
4	Red Blank Analysis Point (50-120btu's)	1	210031
5	M6 x 16 Hex Flange	3	110030
6	Socket Cap Screw Analysis Point (150-310btu's)	1	110147

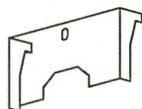
Baffles for 50/70 and 70/90 Boiler Models



BAFFLE PART NO:
R 50-70-90: 210015

Baffles for 90/120 Boiler Models

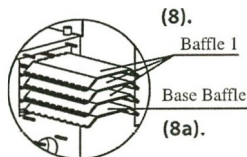
(8b).



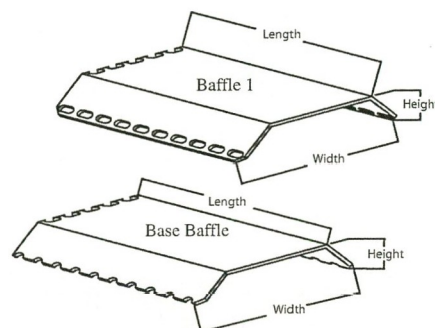
Drop In Baffle

Drop In Baffle

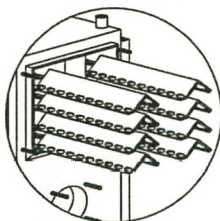
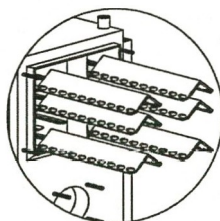
Base Baffle



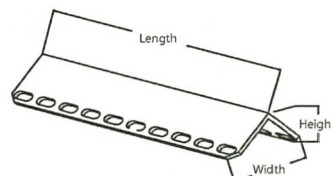
BAFFLE PART NO:
Baffle 1: 210060
Base Baffle: 210050
Drop In Baffle: 210049



Baffles for 120/150 and 150/200 Boiler Models

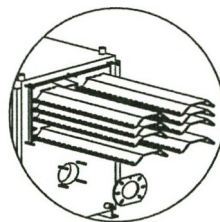
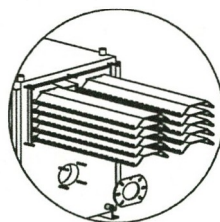


Remove Second Row Of Baffles
To Lower Setup

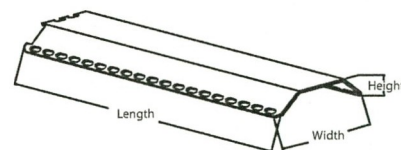


BAFFLE PART NO:
120-150: 210082
150-200: 210090

Baffles for 200/250 and 250/310 Boiler Models



Remove Second Row Of Baffles
To Lower Setup



BAFFLE PART NO:
200-250: 210121
250-310: 210138

• • • • PATENTED BAFFLE DESIGN • • • •

Service Report

NB All Information recorded hereunder should also be included in Engineers own filed service reports. It is recommended that the boiler be serviced, **at least once a year**, and the details recorded below. Engineer should advise householder.

	1 ST SERVICE	2 ND SERVICE	3 RD SERVICE	4 TH SERVICE
Burner Model	☐	☐	☐	☐
Oil Type	☐	☐	☐	☐
Nozzle Type	☐	☐	☐	☐
Nozzle Size	☐	☐	☐	☐
Nozzle Angle	☐	☐	☐	☐
Pump Pressure	☐	☐	☐	☐
Air	☐	☐	☐	☐
Smoke Reading	☐	☐	☐	☐
Flue Draft "W.g.	☐	☐	☐	☐
CO ₂ %	☐	☐	☐	☐
F.G.T. °C	☐	☐	☐	☐
Flue Seal	☐	☐	☐	☐
Gaskets	☐	☐	☐	☐
Fire Valve Location	☐	☐	☐	☐
CHECK				
Water	☐	☐	☐	☐
All Connections	☐	☐	☐	☐
Baffles	☐	☐	☐	☐
Baffles in position and correct	☐	☐	☐	☐
CHECK				
D.M. Hot Water	☐	☐	☐	☐
Central Heating	☐	☐	☐	☐
Flow Switch	☐	☐	☐	☐
Power Supply	☐	☐	☐	☐
Date:				
Service Engineer:				
Tel. No:				
Signature:				
Comments:				
				
				
				

This record should be carefully completed, remain in this manual and be left with householder. A copy should be kept on file by engineer

INSTALLER/COMMISSIONING ENGINEER (In block capitals)

NAME

ADDRESS

POSTCODE TEL

COMMISSIONING CHECK DETAILS

BOILER MODEL OUTPUT SERIAL NUMBER

Burner Model ☐
 Oil Type ☐
 Nozzle Type ☐
 Nozzle Size ☐
 Nozzle Angle ☐
 Pump Pressure ☐
 Air ☐
 Smoke Reading ☐
 Flue Draft "W.g. ☐
 CO₂% ☐
 F.G.T. °C ☐
 Flue Seal ☐

Gaskets ☐
 Fire Valve Location ☐

CHECK

Water ☐
 All Connections ☐
 Baffles ☐
 Baffles in position and correct ☐

CHECK

D.M. Hot Water ☐
 Central Heating ☐
 Flow Switch ☐
 Power Supply ☐

Notes:

DATE NAME ADDRESS

COMMISSIONING COMPANY

SIGNATURE POSTCODE TEL

ATTENTION ALL OIL FIRED BOILERS INSTALLERS

It is the responsibility of INSTALLER / HOUSEHOLDER to ensure that the boiler is PROPERLY COMMISSIONED by a competent or OFTEC registered engineer.

Failure to have the appliance commissioned and warranty card completed and returned may invalidate the warranty.

It is not the responsibility of the Manufacture or the Supplier if a boiler will not operate properly due to non commissioning of the appliance.

Please Note: Should a site inspection be required from the manufacturer's engineer, a call-out fee will be charged if the fault is a result of non commissioning.

FIREBIRD BOILERS

Guarantee

1. Firebird hereby guarantees the following (The Guarantees)

- The Boiler Shell will be free from defective parts or workmanship for a period of 5 years from the date of installation.
 - Burner, controls and flue kits (supplied by Firebird) will be free from defective parts or workmanship for a period of 2 years from the date of installation. (With the exception of burner nozzles, which should be replaced at the recommended service intervals.)
2. Guarantees are subject to the following conditions:
- All claims under the guarantees must be within the above stated time limits.
 - The boiler must be commissioned by qualified persons and as set out in the Installation Manual, using correct test equipment.
 - Maintenance should be carried out at the intervals stated in the Installation Manual.
 - Installation of the boiler must be in accordance with
(a) Installation Manual, (b) all relevant standards and codes of practice.

- Firebird can accept no liability in respect of any defect arising from incorrect installation, negligence, fair wear and tear, misuse, alteration or repair by unqualified persons.
 - Firebird will not accept any liability in respect of any defect occurring in the heat exchanger due to limescale build-up and or low return water temperature.
 - The guarantees extend to reasonable labour costs EXCEPT under clause 1a where any valid claim made after 3 years will not include labour costs.
 - Firebird's prior authorisation must be obtained before examination or repair of the boiler takes place.
 - Firebird will examine all claims made under the guarantees and for any claims that are deemed invalid, the costs incurred will be borne by the owner.
 - That the appliance was used only for normal domestic central heating purposes.
3. Any defective part removed under any or all of the guarantees **MUST** be returned to Firebird.

STATUTORY RIGHTS OF THE OWNER ARE NOT AFFECTED BY THIS GUARANTEE

Firebird Boilers Guarantee Registration

IMPORTANT

Please ensure that the appliance is commissioned and the installer or commissioning engineer fills in the commissioning check details below, which should then be promptly returned to nearest Firebird address.

FIREBIRD UK
EAST CENTRAL HOUSE, 1 EASTWAY, LEE MILL,
NR. IVYBRIDGE, DEVON, ENGLAND. PL21 9ES
TEL: 01 752 691177
FAX: 01 752 691131

FIREBIRD BOILERS
BAILE MHC ÍRE,
CO. CHORCAÍ.
TEL: 026 45253
FAX: 026 45309

FIREBIRD PRODUCTS
SHEAN, FORKHILL,
NEWRY, N. IRELAND. BT35 9SY
TEL: 028 30888330
FAX: 028 30889096

TEAR OFF HERE & RETURN TO THE APPROPRIATE ADDRESS

HOUSEHOLDER (In block capitals)

NAME
ADDRESS
POSTCODE TEL

INSTALLER (In block capitals)

NAME
ADDRESS
POSTCODE TEL

COMMISSIONING CHECK DETAILS

BOILER MODEL	OUTPUT	SERIAL NUMBER
Burner Model ☐	CO ₂ % ☐	Baffles ☐
Oil Type ☐	Condensed Trap Primed ☐	Baffles in position ☐
Nozzle Type ☐	F.G.T. °C ☐	and correct ☐
Nozzle Size ☐	Flue Seal ☐	CHECK
Nozzle Angle ☐	Gaskets ☐	D.M. Hot Water ☐
Pump Pressure ☐	Fire Valve Location ☐	Central Heating ☐
Air ☐	CHECK	Flow Switch ☐
Smoke Reading ☐	Water ☐	Power Supply ☐
Flue Draft in W.C. ☐	All Connections ☐	

DATE NAME ADDRESS
COMMISSIONING COMPANY
SIGNATURE POSTCODE TEL

FIREBIRD BOILERS



For further information on Firebird Products please contact

FIREBIRD UK

East Central House, 1 Eastway, Lee Mill, Nr. Ivybridge, Devon PL 21 9 ES.
Tel: [+44] 01 752 691177 Fax: [+44] 01 752 691131

FIREBIRD BOILERS

Baile Mhic Íre, Co. Chorcaí.
Tel: [+353] 026 45253 Fax: [+353] 026 45309

FIREBIRD PRODUCTS

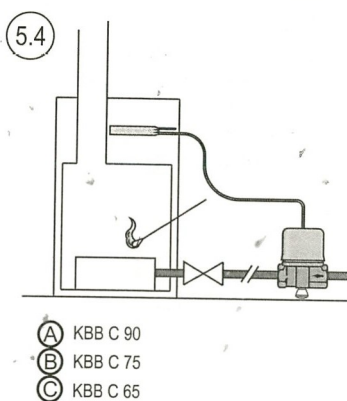
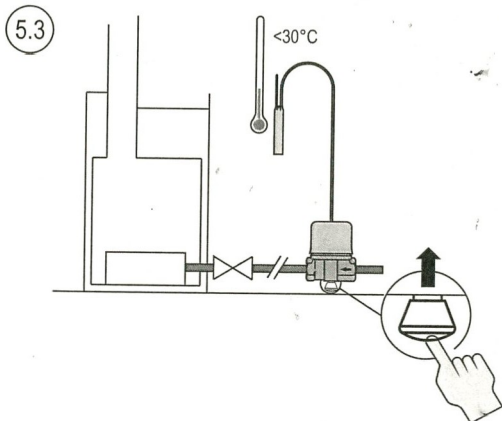
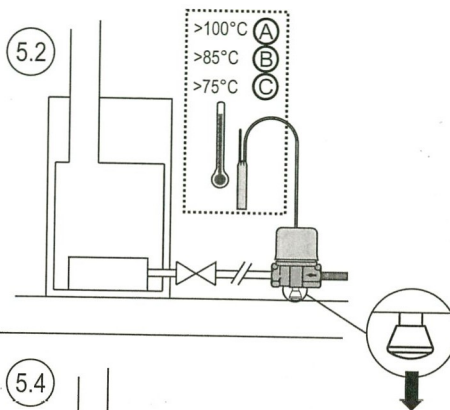
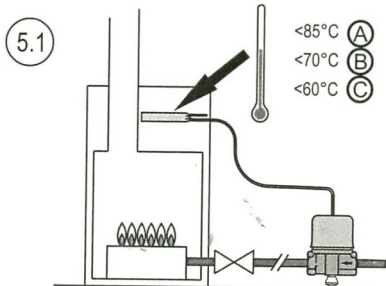
Shean, Forkhill, Newry. BT35 9SY.
Tel: [+44] 028 30888330 Fax: [+44] 028 30889096

Int. Access Codes: Eg. N.I. +44 28 30888330

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Affix
Stamp
Here



REF:KBB309/7

Not Bio Fuel Compatible



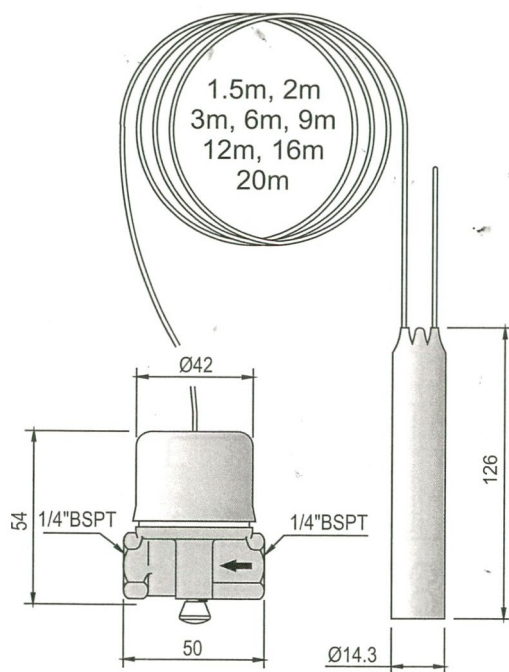
TEDDINGTON APPLIANCE CONTROLS LTD
HOLMBUSH, ST. AUSTELL,
CORNWALL, PL25 3HG
ENGLAND.
TELEPHONE: +44(0)1726 74400
FAX: +44(0)1726 222502

**TEDDINGTON
APPLIANCE
CONTROLS
LIMITED**

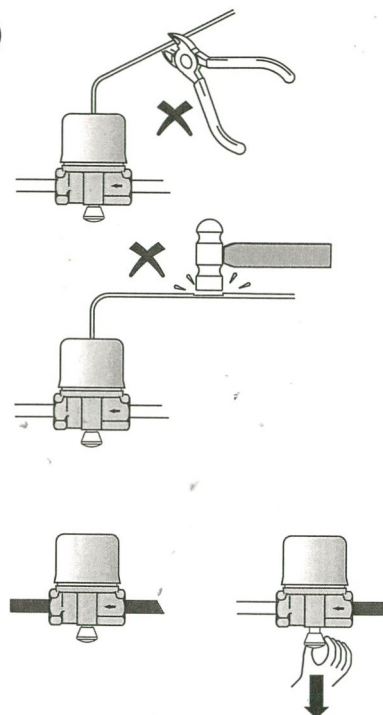


KBB[®]
'C' TYPE

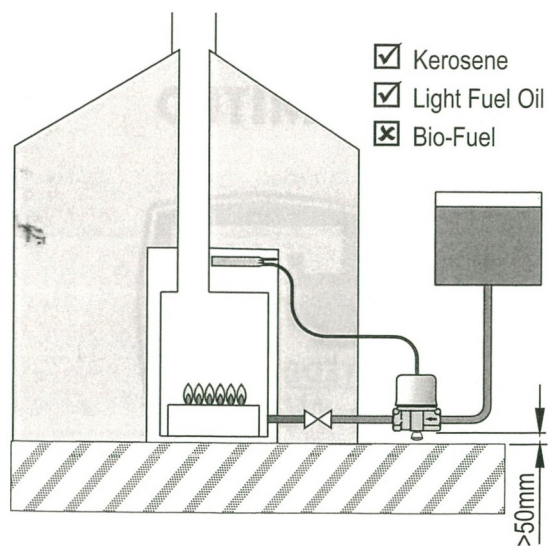
1



2



3



4

