

ROSCOMMON COUNTY COUNCIL

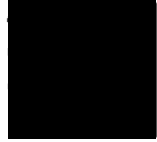
PLANNING AND DEVELOPMENT ACT, 2000 (as amended)

SECTION 5 - DECLARATION ON DEVELOPMENT AND EXEMPTED DEVELOPMENT

NOTIFICATION OF DECISION

REGISTERED POST

Alex Holten,



Reference Number: DED 914
Application Received: 20th June, 2025
Name of Applicant: Alex Holten
Agent: N/A

WHEREAS a question has arisen as to whether the refurbishment of an existing dwelling, with works including 1)new heating system; 2)new windows & doors; 3)new kitchen; 4)new bathroom; 5)new locks on hinges on doors; 6)new flooring & skirting; 7)new gutters, fascia & soffits & 8)painting inside & out at Kilmacroy, Ballyfarnon, Co. Roscommon, F52 DN82, is or is not development and is or is not exempted development:

AND WHEREAS Roscommon County Council, in considering this application, had regard particularly to:

- (a) Sections 2, 3, 4 and 5 of the Planning and Development Act, 2000, as amended.
- (b) Articles 6, 9 and 10 of the Planning and Development Regulations, 2001, as amended.
- (c) Class 2 of Part 1 of Schedule 2 of the Planning and Development Regulations, 2001 (Exempt Development – General), as amended.
- (d) The record forwarded to Roscommon County Council in accordance with subsection (6)(c) of Section 5 of the Planning and Development Acts 2000 as amended.
- (e) The planning history of the site.

AND WHEREAS Roscommon County Council has concluded that:

- (a) The works outlined above are development.
- (b) The proposed refurbishment of the existing dwelling as above fall within the provisions of Section 4(1)(h) of the Planning & Development Act 2000 as amended, which provides as follows:
development consisting of the carrying out of works for the maintenance, improvement or other alteration of any structure, being works which affect only the interior of the structure or which do not materially affect the external appearance of the structure so as to render the appearance inconsistent with the character of the structure or of neighbouring structures;
- (c) The proposed external boiler to the rear of the property as described in this case is an exempted development.
- (d) The proposed development individually and in combination with other plans or projects would not be likely to have a significant effect on any European site and that the requirement for AA or EIAR does not apply with respect to the current case.

NOW THEREFORE:

By virtue of the powers vested in me by the Local Government Acts 1925 – 2024 and Section 5(2)(a) of the Planning and Development Act 2000 (as amended) and having considered the various submissions and reports in connection with the application described above, it is hereby declared that the said development to refurbish an existing dwelling, with works including 1)new heating system; 2)new windows & doors; 3)new kitchen; 4)new bathroom; 5)new locks on hinges on doors; 6)new flooring & skirting; 7)new gutters, fascia & soffits & 8)painting inside & out at Kilmacroy, Ballyfarnon, Co. Roscommon, F52 DN82, is development that is **exempted development** as defined within the Planning and Development Act 2000 (as amended) and associated Regulations.

Signed on behalf of the Council:



Alan O'Connell,
Senior Executive Planner,
Planning.

Date: 15th August, 2025

ADVICE NOTE

Any person issued with a Declaration under Section 5 of the Planning and Development Act, 2000 (as amended) may, on payment to An Bord Pleanála of the prescribed fee, refer a Declaration for review within 4 weeks of the date of the issuing of the Declaration.

Carmel Curley

From: Carmel Curley
Sent: Friday 15 August 2025 13:27
To: Alex Holten
Subject: DED 914 - Notification of Decision
Attachments: DED 914 - Notification of Decision.pdf

Hi Alex,

Please find attached Notification of Decision for your Section 5 Declaration of Exempted Development Application – DED914. Please note that a hard copy will also be issued via registered post.

Regards,

Carmel

Carmel Curley, Staff Officer,
Planning Department, Roscommon County Council,
Aras an Chontae, Roscommon, Co. Roscommon, F42 VR98
☎: (090) 6637100

✉: planning@roscommoncoco.ie | 🌐 www.roscommoncoco.ie

MAP LOCATION



**Planner's Report on application under
Section 5 of the Planning and Development Act 2000 (as amended)**

Reference Number:	DED 914
Re:	Application for a Declaration under Section 5 of the Planning & Development Act, 2000, as amended, regarding Exempted Development to refurbish an existing dwelling, with works including 1)new heating system; 2)new windows & doors; 3)new kitchen; 4)new bathroom; 5)new locks on hinges on doors; 6)new flooring & skirting; 7)new gutters fascia & soffits & 8) painting inside and out.
Name of Applicant:	Alex Holten
Location of Development:	Kilmacroy, Ballyfarnon, Co. Roscommon, F52 DN82
Site Visit:	11/08/2025

WHEREAS a question has arisen as to whether the following works; to refurbish an existing dwelling, with works including 1)new heating system; 2)new windows & doors; 3)new kitchen; 4)new bathroom; 5)new locks on hinges on doors; 6)new flooring & skirting; 7)new gutters fascia & soffits & 8) painting inside and out **at the above address is or is not development and is or is not exempted development.**

I have considered this question, and I have had regard particularly to –

- (a) Sections 2, 3, 4 and 5 of the Planning and Development Act, 2000, as amended
- (b) Articles 6, 9 and 10 of the Planning and Development Regulations, 2001, as amended
- (c) Class 2 of Part 1 of Schedule 2 of the Planning and Development Regulations, 2001 (Exempt Development – General), as amended
- (d) The record forwarded to Roscommon County Council in accordance with subsection (6)(c) of Section 5 of the Planning and Development Acts 2000 as amended.
- (e) The planning history of the site

Site Location & Development Description

The property is a single story dwelling with a garden area to the front and rear of the property in Kilmacroy, Ballyfarnon, Co. Roscommon. The property is accessed off the R-284 road. The proposed development consists of the renovation of the dwelling with works including the replacement of external doors and windows, new gutters, fascia and soffits, new heating system including an external boiler and varies internal works.

There are no European designated sites in, adjoining or in close proximity to the subject site. There is no known heritage related sites/structures in very close proximity to the subject site, as per the Roscommon County Council GIS.

Archaeological and Cultural Heritage

No RMP recorded in the likely zone of influence of the development. No Protected structures or structures listed in the National Inventory of Architectural Heritage the likely zone of influence of the development.

Appropriate Assessment

The closest European sites to the site of the proposed development are Lough Arrow SAC (Site Code 001673) and Lough Arrow SPA (Site Code 004050) which is located circa 5.3 km to the west of the subject site.

Having regard to the separation distance between the site and the closest Natura 2000 site and the nature of the proposal, there is no real likelihood of significant effects on the conservation objectives of these or other European sites arising from the proposed development. The need for further Appropriate Assessment, therefore, be excluded.

Planning History

As per the Roscommon County Council's Planning Registry, recent planning history traced to the site.

- 24/60246 - 1) proposed demolition of the existing single storey detached garage and additions to the rear (North East) of the existing dwelling; 2) proposed storey and a half type extensions to the front (South West) façade and single storey extension to the rear (North East) of the existing dwelling; 3) proposed conversion of existing attic space, which combined with the proposed extensions, will accommodate 2 no. bedrooms and ancillary accommodation; 4) proposed remodelling of all facades of the existing dwelling; 5) proposed construction of new garage and carport canopy to the rear of the dwelling; 6) proposed revisions to the front boundary wall and vehicular entrance and 7) associated site works & services - Conditional

Relevant statutory provisions

Planning and Development Acts 2000 (as amended)

Section 2. -(1)

"works" includes any act or operation of construction, excavation, demolition, extension, alteration, repair or renewal and, in relation to a protected structure or proposed protected structure, includes any act or operation involving the application or removal of plaster, paint, wallpaper, tiles or other material to or from the surfaces of the interior or exterior of a structure.

Section 3. -(1)

In this Act, "development" means, except where the context otherwise requires, the carrying out of any works on, in, over or under land or the making of any material change in the use of any structures or other land.

Section 4(1) of the Act defines certain types of development as being 'exempted development'. Of potential relevance is section 4(1)(h) which provides as follows:

development consisting of the carrying out of works for the maintenance, improvement or other alteration of any structure, being works which affect only the interior of the structure or which do not materially affect the external appearance of the structure so as to render the appearance inconsistent with the character of the structure or of neighbouring structures;

Section 4 (2) of the Planning and Development Act provides that the Minister, by regulations, provide for any class of development to be exempted development. The principal regulations made under this provision are the Planning and Development Regulations.

Planning and Development Regulations, 2001 as amended

Article 6 (1)

Subject to article 9, development of a class specified in column 1 of Part 3 of Schedule 2 shall be exempted development for the purposes of the Act, provided that such development complies with the conditions and limitations specified in column 2 of the said Part 3 opposite the mention of that class in the said column 1.

Article 9 (1) applies:

Development to which article 6 relates shall not be exempted development for the purposes of the Act

viiB) comprise development in relation to which a planning authority or an Bord Pleanála is the competent authority in relation to appropriate assessment and the development would require an appropriate assessment because it would be likely to have a significant effect on the integrity of a European site,

Class 2 of Part 1 of Schedule 2: Exempted development - General

Description of Development	Conditions and Limitations
CLASS 2 (a) The provision as part of a heating system of a house, of a chimney or flue, boiler house or fuel storage tank or structure.	The capacity of an oil storage tank shall not exceed 3,500 litres.

Assessment:

In accordance with the Planning and Development Act, 2000 Section 3. (1) development is defined as the following: "In this Act, "development" means, except where the context otherwise requires, the carrying out of any works on, in, over or under land or the making of any material change in the use of any structures or other land". The proposed development is considered to be the carrying out of works. Works are defined in the Act as; "works" includes any act or operation of construction, excavation, demolition, extension, alteration, repair or renewal and, in relation to a protected structure....". It is considered that said works constitute development, as defined in Section 3 of the said Act.

The proposal includes the renovation of a single story house, external works include the replacement of windows/doors, new gutters, fascia and soffits. These works have considered in the context of Section 4 (1)(h) of the Act, consisting of the carrying out of works for the maintenance, improvement or other alteration of any structure, being works which affect only the interior of the structure or which do not materially affect the external appearance of the structure so as to render the appearance inconsistent with the character of the structure or of neighboring structures. The proposed works are deemed an exempt development.

Having reviewed the proposed external boiler to the rear of the property in the context of the Conditions and Limitations associated with Class 2 of Part 1 of Schedule 2 of the Planning and Development Regulations, 2001, as amended, the install of an external boiler and associated fuel tank not exceeding 3,500 litres in capacity as described in this case is considered an exempted development.

With Regard to Article 9 (1)(a) of the Planning and Development Regulations it is reasonable to conclude, on the basis of the information available, that the proposed development individually and in combination with other plans or projects would not be likely to have a significant effect on any European site and that the need for AA does not apply with respect to the current case.

I am satisfied that an Environmental Impact Statement or Appropriate Assessment are not required. It should be noted that any development for which Environmental Impact Assessment or Appropriate Assessment is required shall not be exempted development unless specifically exempted in regulations where there is provision in other legislation for the carrying out of EIA or AA. In addition, the restrictions on exemption Art 9 (1)(a) (viiB) exclude development which would otherwise be exempted development under these regulations where an AA is required.

Recommendation

WHEREAS a question has arisen as to refurbish an existing dwelling, with works including 1)new heating system; 2)new windows & doors; 3)new kitchen; 4)new bathroom; 5)new locks on hinges on doors; 6)new flooring & skirting; 7)new gutters fascia & soffits & 8) painting inside and out in Kilmacroy, Ballyfarnon, Co. Roscommon is or is not development and is or is not exempted development, I have considered this question, and I have had regard particularly to –

- (a) Sections 2, 3, 4 and 5 of the Planning and Development Act, 2000, as amended
- (b) Articles 6, 9 and 10 of the Planning and Development Regulations, 2001, as amended
- (c) Class 2 of Part 1 of Schedule 2 of the Planning and Development Regulations, 2001 (Exempt Development – General), as amended
- (d) The record forwarded to Roscommon County Council in accordance with subsection (6)(c) of Section 5 of the Planning and Development Acts 2000 as amended.
- (e) The planning history of the site

AND WHEREAS I have concluded that

- The works outlined above are development.
- The proposed refurbishment of the existing dwelling as above fall within the provisions of Section 4(1)(h) of the Planning & Development Act 2000 as amended, which provides as follows:

development consisting of the carrying out of works for the maintenance, improvement or other alteration of any structure, being works which affect only the interior of the structure or which do not materially affect the external appearance of the structure so as to render the appearance inconsistent with the character of the structure or of neighbouring structures;

- The proposed external boiler to the rear of the property as described in this case is an exempted development.
- The proposed development individually and in combination with other plans or projects would not be likely to have a significant effect on any European site and that the requirement for AA or EIAR does not apply with respect to the current case.

AND WHEREAS I have concluded that the said development to refurbish an existing dwelling, with works including 1)new heating system; 2)new windows & doors; 3)new kitchen; 4)new bathroom; 5)new locks on hinges on doors; 6)new flooring & skirting; 7)new gutters fascia & soffits & 8) painting inside and out in Kilmacroy, Ballyfarnon, Co. Roscommon, is an exempted development. I recommend that a declaration to that effect should be issued to the applicant.

Seán Tiernan

Signed:

Date: 11th August 2025

Planner



Signed:

Date: 14th August 2025

Senior Executive Planner











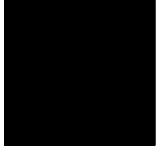




Comhairle Contae
Ros Comáin
Roscommon
County Council



Alex Holten,



Date: 25th June, 2025
Planning Reference: DED 914

Re: Application for a Declaration under Section 5 of the Planning & Development Act 2000 (as amended), regarding Exempted Development.

Development: Permission to refurbish an existing dwelling, with works including 1)new heating system; 2)new windows & doors; 3)new kitchen; 4)new bathroom; 5)new locks on hinges on doors; 6)new flooring & skirting; 7)new gutters fascia & soffits & 8) painting inside and out under the Planning & Development Act (Exempted Development) regulations 2018 at Kilmacroy, Ballyfarnon, Co. Roscommon., F52 DN82.

A Chara,

I wish to acknowledge receipt of the application which was received on the 20th June, 2025, for a Declaration under Section 5 of the Planning & Development Act 2000 (as amended), regarding Exempted Development along with the appropriate fee in the sum of €80.00, Receipt No: L/01/0/235409 dated 25th June, 2025 receipt enclosed herewith.

Note: Please note your Planning Reference No. is **DED 914**
This should be quoted in all correspondence and telephone queries.

Mise le meas,

Alan O'Connell,
A/Senior Planner,
Planning Department.

Roscommon County Council
Aras an Chontae
Roscommon
09066 37100

25/06/2025 12 22 08

Receipt No : L01/0/235409

ALEX HOLTEN

PLANNING APPLICATION FEES 80.00
GOODS 80.00
VAT Exempt/Non-vatable
DED 814

Total : 80.00 EUR

Tendered :
Credit/Debit Card 80.00
8833

Change : 0.00

Issued By : Aine McDermott
From : Central Cash Office



Comhairle Contae
Ros Comáin
Roscommon
County Council

Áras an Chontae,
Roscommon,
Co. Roscommon.

Phone: (090) 6637100

Email: planning@roscommoncoco.ie



Roscommon County Council

Application for a Declaration under Section 5 of the

Planning & Development Act 2000 (as amended), regarding Exempted Development

Name of Applicant(s)	ALEX HOLTEN.
Name of Agent	N/A
Nature of Proposed Works	No proposed works on to existing building kitchen/Bathroom/Windows doors/plastering
Location & Address of Subject Property to include, Eircode (where applicable), Townland & O.S No.	Kilnagray, Ballygarmon, Co Roscommon A52DN82.
Floor Area: a) Existing Structure b) Proposed Structure	a) 130m ² . b) No proposed structure
Height above ground level:	N/A
Total area of private open space remaining after completion of this development	N/A
Roofing Material (Slates, Tiles, other) (Specify)	N/A

Roscommon County Council

Application for a Declaration under Section 5 of the



Proposed external walling (plaster, stonework, brick or other finish, giving colour)	Nothing proposed.
Is proposed works located at front/rear/side of existing house.	No proposed works
Has an application been made previously for this site	Not by me.
If yes give ref. number (include full details of existing extension, if any)	N/A.
Existing use of land or structure	Residential.
Proposed use of land or structure	Nothing proposed.
Distance of proposed building line from edge of roadway	Nothing proposed.
Does the proposed development involve the provision of a piped water supply	No proposed development.
Does the proposed development involve the provision of sanitary facilities	No proposed development.

Planning & Development Act 2000 (as amended), regarding Exempted Development

Signature:

A handwritten signature in blue ink, appearing to read 'Alex Hett'.

Date:

17-06-2025

Note: This application must be accompanied by: -

- (a) €80 fee
- (b) Site Location map to a scale of 1:2500 clearly identifying the location
- (c) Site Layout plan to the scale of 1:500 indicating exact location of proposed development
- (d) Detailed specification of development proposed

586262mE, 814012mN

SITE MAP

Kilmacroy
Ballyfarno
Boyle,
Co. Roscommon,
F52 DN82

Description:

Digital Landscape Model (DLM)

Publisher / Source:

Tailte Éireann

Clip Extent / Area of Interest (AOI):

LLX,LLY = 586146, 813926
LRX,LRX = 586262, 813926
ULX,ULY = 586146, 814012
URX,URY = 586262, 814012

Projection / Spatial Reference:

Projection= IRENET95 Irish Transverse Mercator

Centre Point Coordinates:

X,Y = 586204, 813969

Reference Index:

Map Series | Map Sheets
1:1,000 |

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LAND REGISTRY COMPLIANT
COMPUTER GENERATED MAP

O.S.I. Licence No. EN 0058825

J&L Surveys Limited

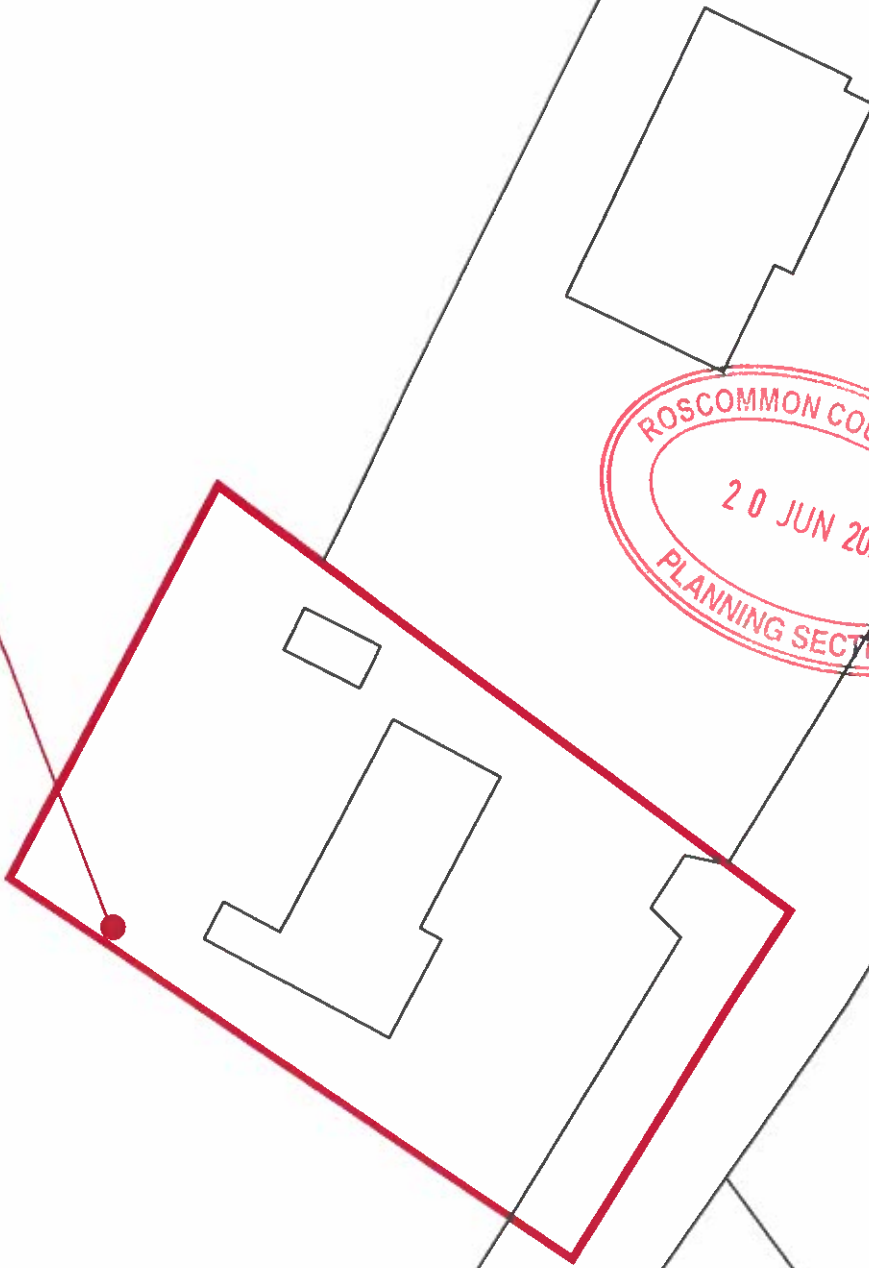
LAND SURVEYS, ENGINEERING SURVEYS, SETTING OUT

Office Unit 1,
Merrill Mills,
Maynooth,
Co. Wick,
W23 FT22

Tel: 01-6291249
Mobile: 087-2407887
Fax: 01-6291430
Email: info@jlsurveys.ie
Web: www.jlsurveys.ie



Location of Boiler



Boundaries shown to centre of red line
Scale: 1500 (A4)
Area Plot = 0.1280 Ha. (0.3188 Ac.)
Date: 14th June 2025
Area Certified by: John Holton Dip. Arch. (Tech.)



586146mE, 813926mN

SITE MAP

Kilmacroy,
Ballyfarnon,
Boyle,
Co. Roscommon,
F52 DN82

Description:

Digital Landscape Model (DLM)

Publisher / Source:

Tailte Éireann

Clip Extent / Area of Interest (AOI):

LLX,LLY = 586146, 813926

LRX,LRY = 586262, 813926

ULX,ULY = 586146, 814012

URX,URY = 586262, 814012

Projection / Spatial Reference:

Projection: IRENET85_high_Transverse_Mercator

Centre Point Coordinates:

X,Y = 586204, 813969

Reference Index:

Map Series | Map Sheets

1:1,000 |

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Web: www.jlsurveys.ie



Boundaries shown to centre of red line

Scale:- 1/500 (A4)

Area Plot = 0.1260 Ha. (0.3188 Ac.)

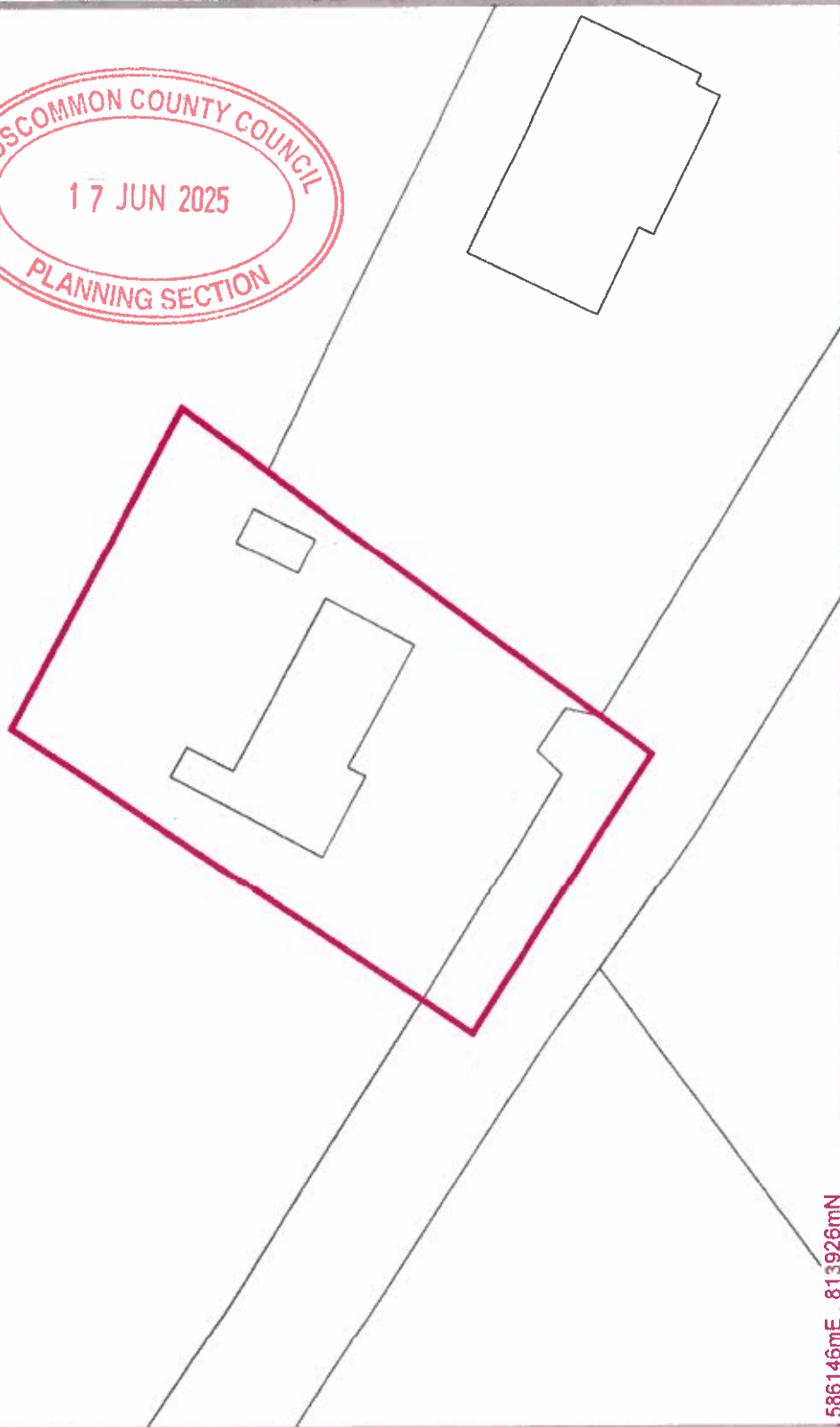
Date:- 14th June 2025

Area Certified by:-



586262mE, 814012mN

586146mE, 813926mN



LOCATION MAP

Kilmacroy,
Ballyfamon,
Boyle,
Co. Roscommon,
F52 DN82

Description:

Digital Landscape Model (DLM)

Publisher / Source:

Taithe Éireann

Clip Extent / Area of Interest (AOI):

LLX,LLY = 585954, 813755
LRX,LRY = 586534, 813755
ULX,ULY = 585954, 814184
URX,URY = 586534, 814184

Projection / Spatial Reference:

Projection= IREN1985 Irish_Transversa_Mercator

Centre Point Coordinates:

X, Y= 586244, 813969

Reference Index:

Map Series | Map Sheets
1:2,500 | 1467-D

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LAND SURVEYS, ENGINEERING SURVEYS, SETTING OUT



Office Unit 1,
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Tel: 01-8291249
Mobiles: 087-2407807
Fax: 01-8291430
Email: info@jlsurveys.ie
Web: www.jlsurveys.ie

Boundaries shown to centre of red line
Scale:- 1:2,500 (A4)
Area Plot = 0.1280 Ha. (0.3188 Ac.)
Date:- 14th June 2025

Area Certified by:-

John Hollan
John Hollan Dip. Arch. (Tech.)



Feorish River

53.1

53.4

52.8

54.8

56.8

57.7

58.8

59.8

586534mE 814184mN

585954mE 813755mN



Date: 17/6/25

Hi,

Please attached form and maps as requested, works only effect the existing building
there are no proposed developments.

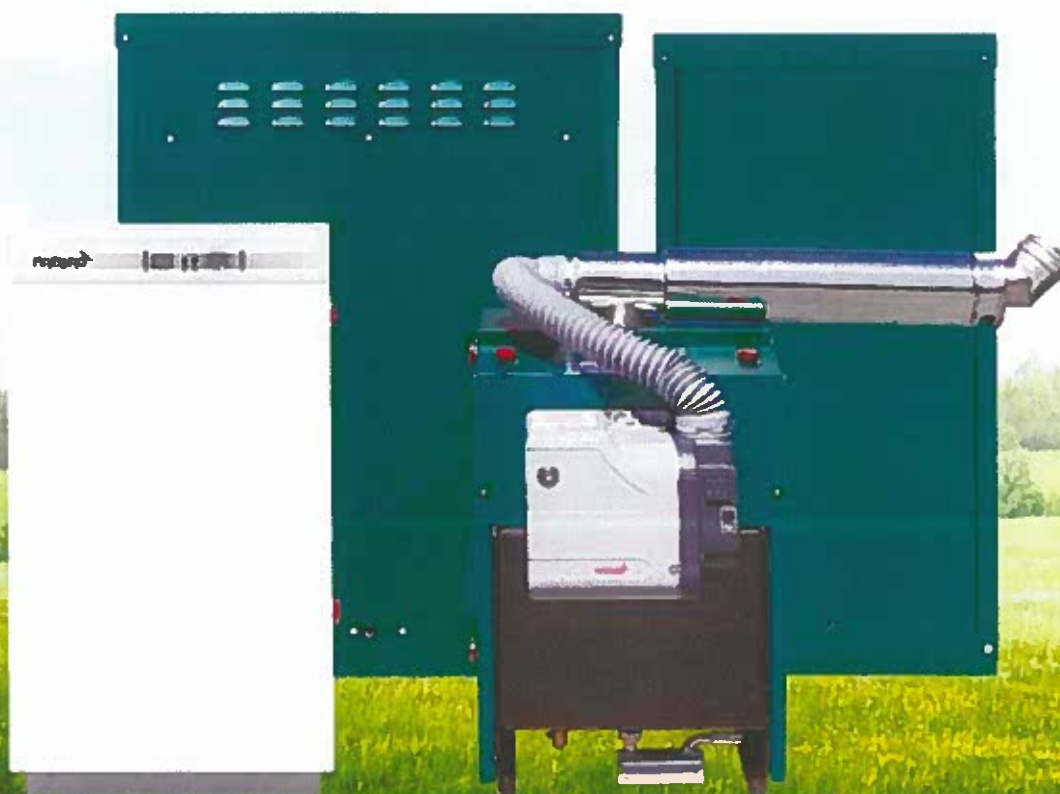
Proposed works are,

- New Heating System.
- New windows and doors.
- New Kitchen.
- New Bathroom.
- New locks and hinges on doors.
- New Flooring and Skirting.
- New gutters fascia and soffits.
- Painting inside and out.





Heatpac
Slimline Heatpac
Popular
Kitchen



Environment



Innovation



Technology

Envirogreen™

Condensing Boiler

TECHNICAL MANUAL

This manual must remain with the householder once installation is complete



elco
February 2024

CONTENTS



FOREWORD

We would like to thank you for purchasing a high efficiency Firebird condensing liquid fuel boiler with an Elco low NOx burner. This instruction manual is produced for the reference and guidance of qualified installation engineers, preferably OFTEC (Oil Firing Technical Association) registered. EU legislation governs the manufacture, operation and efficiency of all domestic central heating oil boilers. Our boilers and burners are supplied as matched units. Please always refer to the latest manual on our website: www.firebird.ie.

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HEALTH & SAFETY INFORMATION

The installer should be aware of his/her responsibilities under the current, local Health and Safety at Work Act. The interests of safety are best served if the boiler is installed and commissioned by a competent, qualified engineer, preferably OFTEC trained and registered. A Building Notice may be required in England and Wales and other parts of the United Kingdom.

Under the Consumer Protection Act 1987 (UK), section 6 of the Health and Safety Act 1974 (UK) and the Safety, Health and Welfare at Work Act 2005 (ROI), we are required to provide information on substances hazardous to health.

INSULATION AND SEALS

Ceramic Fibre, Alumino - Silicone Fibre material are used for boards 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 MEETS THE FOLLOWING STANDARDS:

This equipment complies with the Low Voltage Directive 2014/35/EU and EMC Directive 2014/30/EU.

EMC - conformity was demonstrated by meeting the following standards:

BS EN 55014-2: 2015: Electromagnetic Compatibility - Requirements for Household Appliances, Electric Tools and Similar Apparatus - Part 1: Emission

BS EN 55014-1: 2017: Electromagnetic Compatibility - Requirements for Household Appliances, Electric Tools and Similar Apparatus - Part 2: Immunity - Product Family Standard

BS EN 61000-3-2: 2019: Electromagnetic Compatibility (EMC) Part 3-2: Limits - Limits for Harmonic Current Emissions (equipment input current <16 A per phase)

BS EN 61000-3-3: 2013 + A1 2019: Electromagnetic Compatibility (EMC) Part 3-3: Limits - Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Public Low-voltage Supply Systems (equipment with rated current <16 A per phase and not subject to conditional connection)

Safety - conformity was demonstrated by meeting the following standards:

BS EN 60335-1: 2012 + A2: 2019: Household and Similar Electrical Appliances - Safety - Part 1: General Requirements

BS EN 60335-2-102: 2006 + A2: 2016: Household and Similar Electrical Appliances - Safety - Part 2-102: Particular Requirements for Gas/Oil and Solid-fuel Burning Appliances having Electrical Connections

SAFETY

Safe use of Kerosene. 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.

Avoid inhaling fuel vapour as this can cause light headedness and seriously impair judgement.

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.
5. Consult local authority about disposal of contaminated soil.

FIRST AID

If fuel is accidentally swallowed:

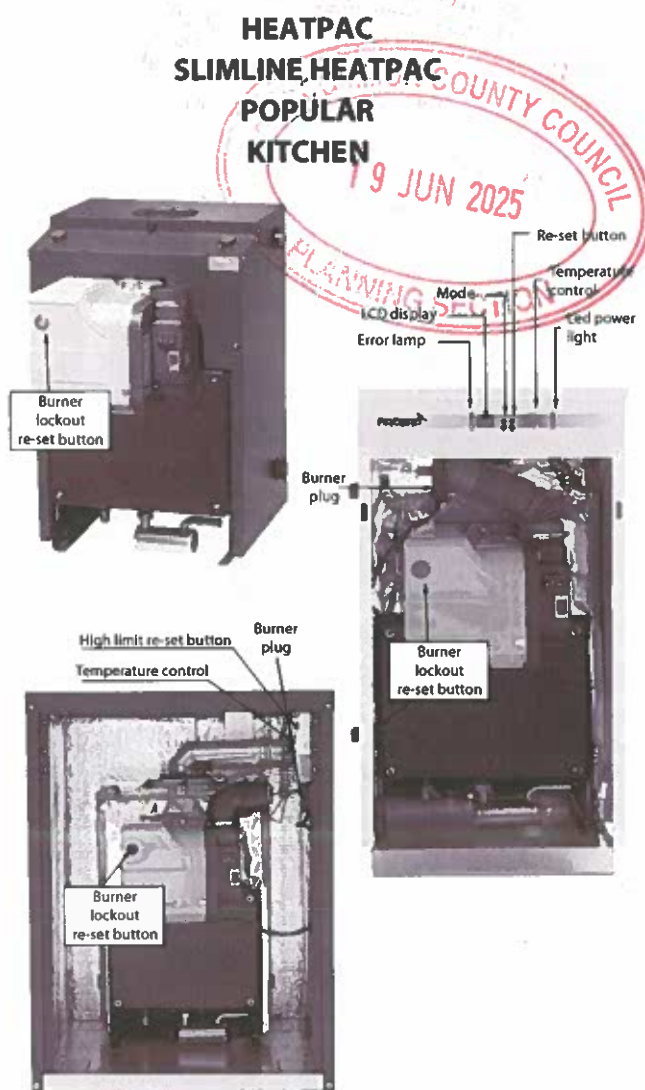
* Seek medical attention immediately.

Do **NOT** induce vomiting.

If fuel is splashed into eyes:

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

2 2.1 OPERATING PROCEDURE - HOUSEHOLDER INSTRUCTIONS



To start the boiler:

- Turn on fuel supply.
- Switch on power supply to boiler.
- Turn timer control (if fitted) to "ON".
- Set the boiler thermostat to the required temperature. 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.

To turn off the boiler:

- Turn the timer control (if fitted) to "OFF".
- Turn off the mains electrical supply to the boiler.

Operational status lights not included in Popular and Heatpac models.

Thermostat Control



Burner Lockout

The boiler is factory fitted with a burner control box lockout safety feature which operates automatically if a fault occurs in the burner operation. Should this occur, the light on the front of the burner will illuminate.

Press the reset button a maximum of two times. If the boiler fails to light, call a service engineer who should check the following:

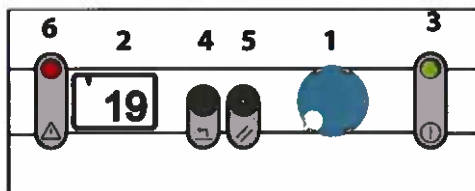
- A. An interruption in the fuel supply (eg. empty fuel supply tank).
- B. An electrical supply fault.
- C. A fault with the burner or its safety control system.
- D. The failure of a burner component.
- E. Worn or dirty fuel nozzle.
- F. Incorrect flue installation.

ENSURE FUEL TANK CONTAINS KEROSENE 28 SECOND CLASS C2 FUEL

To restart the boiler:

1. Press reset button.
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 main power supply is on. The boiler is now ready.

This controller has a number of new features as standard, these include: short cycling, frost protection, on/off switch option, hours of operation records, system pressure display, pump over-run and liquid-crystal display (LCD). The LCD shows key boiler information and error codes. This controller can work with and be controlled by room thermostats, timers or heat demand switches.



CONTROL PANEL

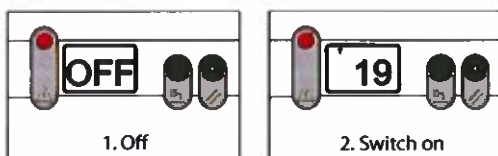
1. Temperature control knob.
2. LCD.
3. Power green light. Lights green when power to the panel.
4. Mode button (for scrolling through the display options on the LCD).
5. Re-set button.
6. Error red light.

TO START THE BOILER:

- Turn fuel supply on.
- Switch power supply to boiler on.
- The green led will light up and the LCD will show the set temperature or "off".
- If "off" appears on the LCD, press the mode button "4" and hold for 6 seconds until the set temperature appears on the led.
- Turn on the timer or heat demand switch, i.e. room stat.
- Turn the temperature dial clockwise to increase temperature. The set temperature displayed on the LCD will increase. Temperature range - min. 60°C to max. 85°C.

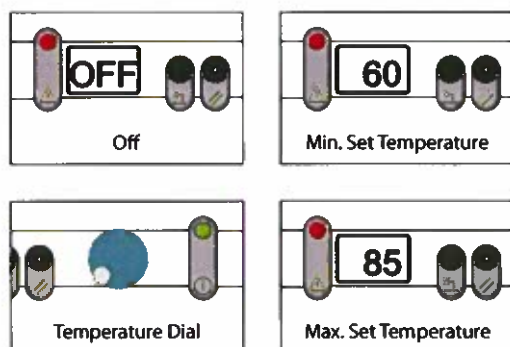
TO TURN THE BOILER OFF:

- Press button 4 and hold for 6 seconds until "off" appears on the LCD.
- Switch the timer or heat demand off.
- Turn off the mains electrical supply.

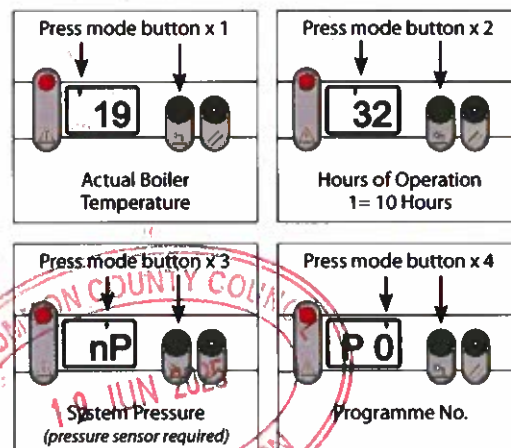


CONTROL PANEL FUNCTIONS

The LCD displays the boiler set temperature, actual boiler temperature, hours of operation, system pressure (if a pressure sensor is fitted) and program number. The different displays are accessed by pressing the mode button "4" on the panel.



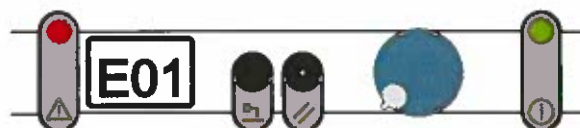
MODE BUTTON & LCD



ERROR DISPLAY AND RE-SET

Warning: Should an error appear on the control panel display, consult your service engineer or the Firebird technical department before attempting to re-set the error.

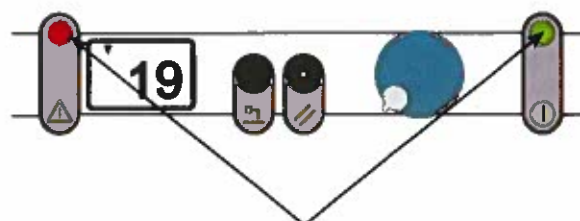
ERROR DISPLAY



E1 Thermistor fault.

NOTE: In the event of the boiler overheating, the limit thermostat will shut off power to the panel.

RE-SET CONTROLLER



To re-set and clear an error from the control panel:

- Use the tip of a pin and insert into the re-set button "5" on the panel. Press and hold until the error clears.

3 STANDARDS & REGULATIONS

To ensure the highest standards of installation & safety, it is important that the boiler is installed and commissioned by a competent, qualified engineer, preferably OFTEC trained and registered. It is the responsibility of the installer and everyone concerned with any aspect of installation, to ensure that all applicable standards and regulations are fully adhered to.

The following is a list of some of the applicable standards and regulations. Please always check for the most up to date version.

All relevant building standards and regulations for Ireland, England, Scotland, Wales and Northern Ireland.

- | | |
|------------------------------|---|
| BS 5410-1: 2019 | Code of practice for oil firing. Installations up to 45kW output capacity for space heating and hot water supply purposes. |
| BS 5410-2:2018 | Code of practice for liquid fuel firing. Non-domestic installations. |
| BS 799-5: 2010 | Oil burning equipment. Carbon steel oil storage tanks. Specification. |
| BS EN 303-1: 2017 | Heating boilers. Heating boilers with forced draught burners. Terminology, general requirements, testing and marking. |
| BS EN 12828: 2012 + A1: 2014 | Heating systems in buildings. Design for water based heating systems. |
| BS 7074-1: 1989 | Application, selection and installation of expansion vessels and ancillary equipment for sealed water systems. Code of practice for domestic heating and hot water supply. |
| BS 7593: 2006 | Code of practice for treatment of water in domestic hot water central heating systems. |
| BS EN 13502: 2002 | Chimneys. Requirements and test methods for clay/ceramic flue terminals. |
| BS EN 1856-1: 2009 | Chimneys. Requirements for metal chimneys. System chimney products. |
| BS 8558: 2015 | Guide to the design, installation, testing and maintenance of services supplying water for domestic use within buildings and their curtilages. Complementary guidance to BS EN 806. |
| BS 7671: 2018 | Requirements for Electrical Installations. IET Wiring Regulations. |
| BS EN 304: 2017 | Heating boilers. Test code for heating boilers for atomizing oil burners. |

Regional water supply (water fittings) regulations/ byelaws.

Regional control of pollution (oil storage) regulations.

OFTEC also publish excellent guides including:

- OFTEC Technical Book One - Safe working for oil firing and delivery technicians.
- OFTEC Technical Book Two - Domestic & light commercial servicing and commissioning.
- OFTEC Technical Book Three - Domestic and commercial requirements for oil storage & supply equipment.
- OFTEC Technical Book Four - Oil fired appliance & system installation requirements.

COPIES OF BRITISH STANDARDS MAY BE PURCHASED DIRECT FROM:

BSI (Customer Services),
389 Chiswick High Rd., London W4 4AL.
Tel.: +44 (0)345 0869001
 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:

Other than special considerations for condensate removal and plume dispersal, the installation of liquid fuel fired condensing boilers is the same as for non-condensing oil fired boilers.

BS 5410-1: 2019 gives the requirements for domestic boiler and fuel storage installations.

If an appliance is to be installed inside a building or within a restricted area externally, a carbon monoxide detector alarm conforming to BS EN 50291-1: 2018 should be installed in accordance with the manufacturer's instructions.

For condensing boilers, the same requirements apply for installation with regard to cleaning and flushing and providing inhibitors, as are followed for any other boiler. Manufacturer's instructions must always be followed together with the requirements of BS EN 12828: 2012 + A1: 2014 & BS EN 12831-1: 2017 and the statutory requirements of the Building Regulations.

4 4.1 INSTALLATION - BOILER

Please note following important points before commencing installation:

INSTALLATION & COMMISSIONING

Boilers must be installed, commissioned and serviced by a competent, qualified engineer, preferably OFTEC registered and as set out in the installation manual, using correct test equipment.

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.

POSITIONING THE BOILER

Compliance guide to part L now states that when installing a boiler on a new or existing system, the system should be cleaned, flushed and then protected with a suitable protection inhibitor

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

The boiler is serviced from the front and 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 Firebird condensing liquid fuel boilers are one of the quietest boilers on the market, some householders are particularly sensitive.

A suitable corrosion inhibitor must be added to the heating system.

UNDERFLOOR HEATING

The boiler should not be directly connected to underfloor heating, as a minimum return temperature of 40°C is required (it can be used with underfloor heating with adequate temperature controls to ensure return values are as stated above).

INHIBITOR

Once the initial fill has been completed, ensure adequate inhibitor is added to protect the boiler and system from corrosion.

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 and there must be at least 1 meter of copper pipe between the boiler and the first plastic connection. If you choose to use plastic pipe anywhere on your heating circuits, 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. **Firebird accepts no responsibility for failure of plastic piping and fittings for whatever reason.**

MAGNETIC FILTRATION

It is recommended at the time of installation of this boiler, to install a permanent effective magnetic filter on the return pipework after the last radiator on the central heating system. This will maintain maximum operational efficiency and protect the boiler from the damaging, long-term effects of "magnetite" (black iron sludge). It is essential that the filter is sized similar to the return pipework e.g. 22mm (¾") or 28mm (1"). In all circumstances, an effective magnetic filter must be installed in

accordance with the manufacturer's instructions and serviced annually.

BOILER THERMOSTAT / THERMISTOR FUNCTION

The control thermostat on the boiler allows the householder to vary temperature to central heating from a low of 55°C to a high of 80°C, depending on the model. Thermostats have a tolerance of ±4°C.

In accordance with EU boiler standards, your boiler is also fitted with a safety high limit thermostat, fixed at 110°C. This system protects the boiler in the event of the control thermostat failing and keeps the boiler safe.

The safety high limit thermostat will shut the boiler off and will require the limit button to be pushed to restart the boiler. If this 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 (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 Heatpac wiring diagram.

Firebird Kitchen and Heatpac models are factory fitted with an over run thermostat to operate a pump.

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.).

BURNER

The burner is factory set for use with Kerosene 28 Second Class C2 fuel.

ROOM SEALED BALANCED FLUES

BS 5410-1: 2019 - Code of practice for oil firing. Installations up to 45kW output capacity for space heating and hot water supply purposes.

The flue terminal should be mounted so that it is separated from any combustible material forming a part of the building.

Such combustible material may take the form of cladding on the surface of a non-combustible wall through which the flue outlet passes. In such a case, the cladding adjacent to the flue outlet should be replaced by non-combustible material extending not less than 50mm beyond the outside dimensions of the flue outlet.

The wall through which the flue outlet passes may itself be of combustible material, and if so the flue outlet, where it passes through the wall, should be surrounded by non-combustible insulating material not less than 50mm thick. The insulating material itself should be contained in a steel liner to provide the necessary structural rigidity and to prevent moisture reaching the insulating material.

PRESSURISED HEATING SYSTEM

Firebird recommends that a pressure switch is fitted to all pressurised heating systems to prevent the burner firing should the system pressure drop.

If fitted to a pressurised heating system, then adequate expansion provision must be made to prevent damage to the heating system and boiler.

For further information, consult appropriate training manuals and BS 7074-1: 1989, EN 12828: 2012 + A1: 2014 etc.

4 4.2 INSTALLATION - CONDENSATE DISPOSAL

Firebird condensing boilers, when in condensing mode, extract more heat from the flue products and the resulting condensate which is mildly acidic, needs to be drained from the boiler via a condensate pipe to the drainage system.

Provision must be made for the removal of condensate from the boiler to an internal soil stack, external soil stack, gully or soak-away, as per BS 6798: 2014.

The condensate trap is provided with the boiler and situated on the front of the boiler (under the cleaning door). This should be checked at regular intervals and cleaned during annual service.

The condensate line should:

- be plastic and have a minimum diameter of 22mm dia.;
- have a fall from the boiler of 1:200 minimum;
- have as few bends as possible to reduce the risk of trapping condensate.

Copper or steel cannot be used.

CONDENSATE PIPEWORK THAT IS EXTERNAL OR IN AN UNHEATED GARAGE SHOULD NOT EXCEED 3 METERS AND SHOULD BE LAGGED WITH WATER PROOF INSULATION TO PREVENT FREEZING.

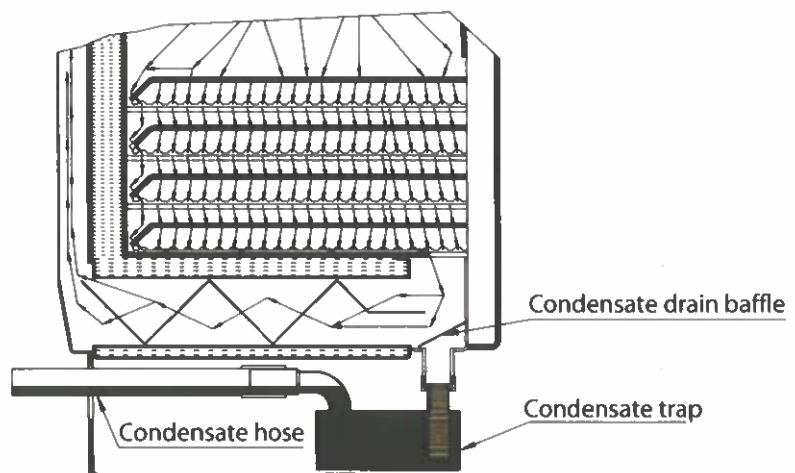
SYSTEM NO. 1 CONDENSATE TRAP

Always prime condensate trap with water.

Condensate baffle and condensate trap

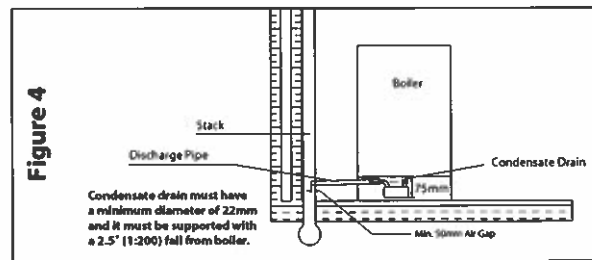
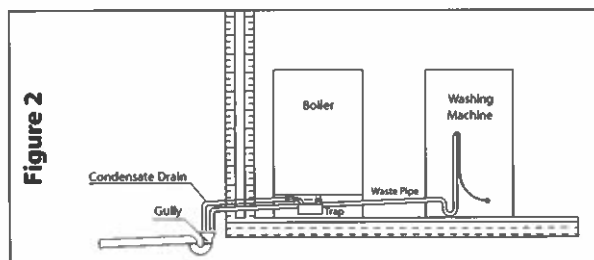
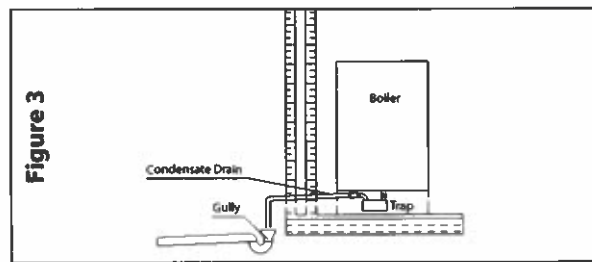
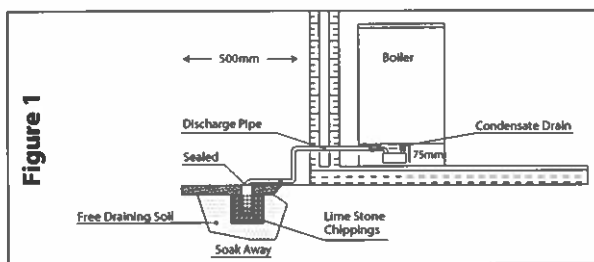
Before switching on your Firebird condensing boiler, check that:

- (1) The condensate drain baffle is in place.
- (2) That the condensate trap is primed.
- (3) The condensate discharge pipe is a corrosion resistant pipe.



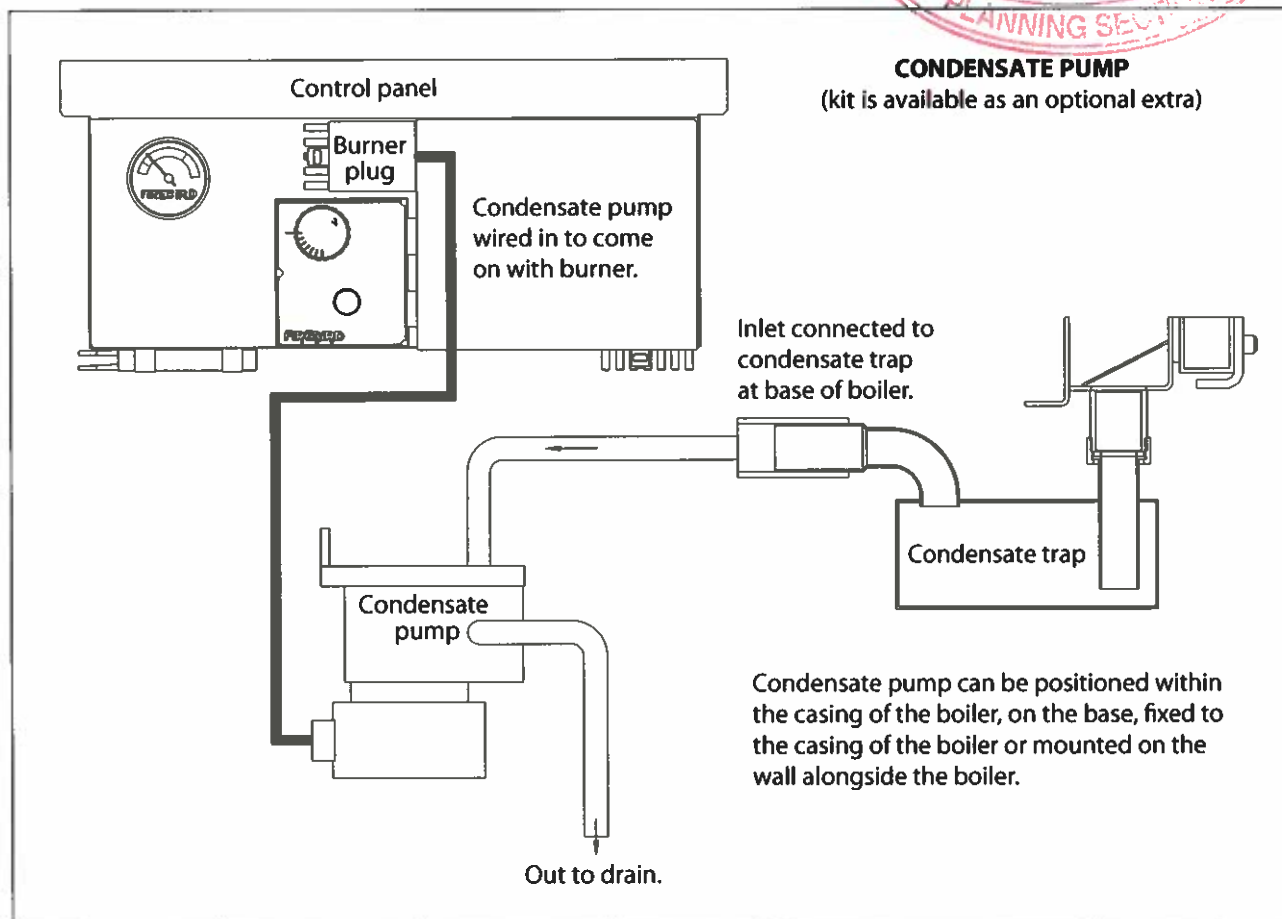
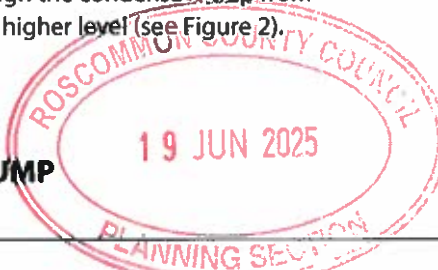
A condensate pump kit can be purchased separately if required. Sales code: ACCENVMPMP

4 4.2 INSTALLATION - CONDENSATE DISPOSAL



Ensure that the boiler combustion chamber cannot be filled through the condensate trap from another appliance (eg. washing machine) which is drained at a higher level (see Figure 2).

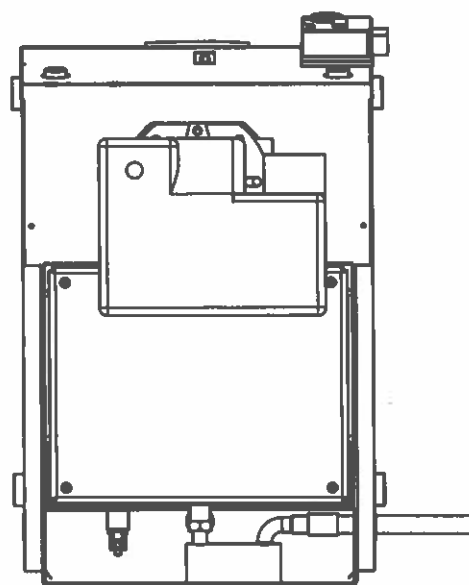
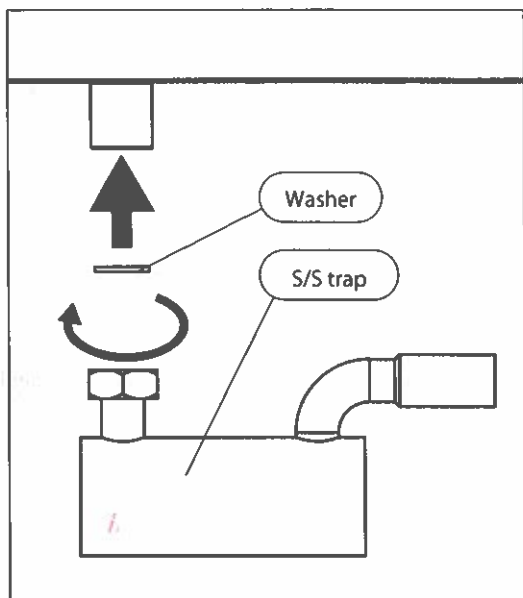
SYSTEM NO. 2 - CONDENSATE PUMP



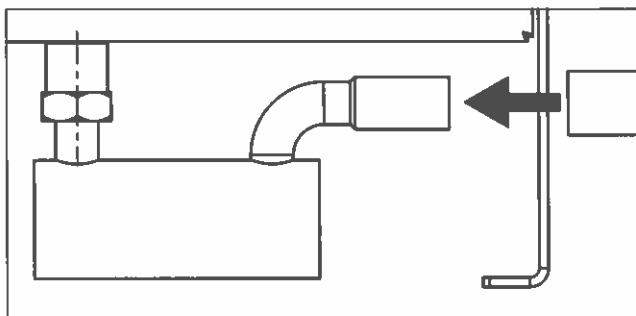
4 4.2 INSTALLATION - CONDENSATE DISPOSAL

Condensate Trap Fitting

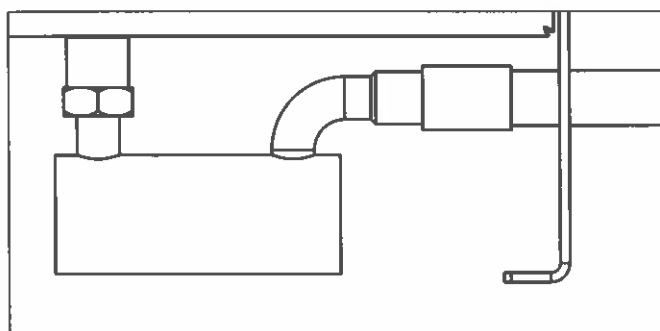
1. Push washer into trap socket and screw trap onto boiler socket in the desired direction.



2. Push flexible pipe onto trap socket.



3. Final assembly.



FLUE TERMINAL SITING

The terminal should be positioned to avoid combustion products entering the building or accumulating in stagnant pockets around buildings. 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). 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.

Prevailing winds should be taken into account when siting a flue.

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

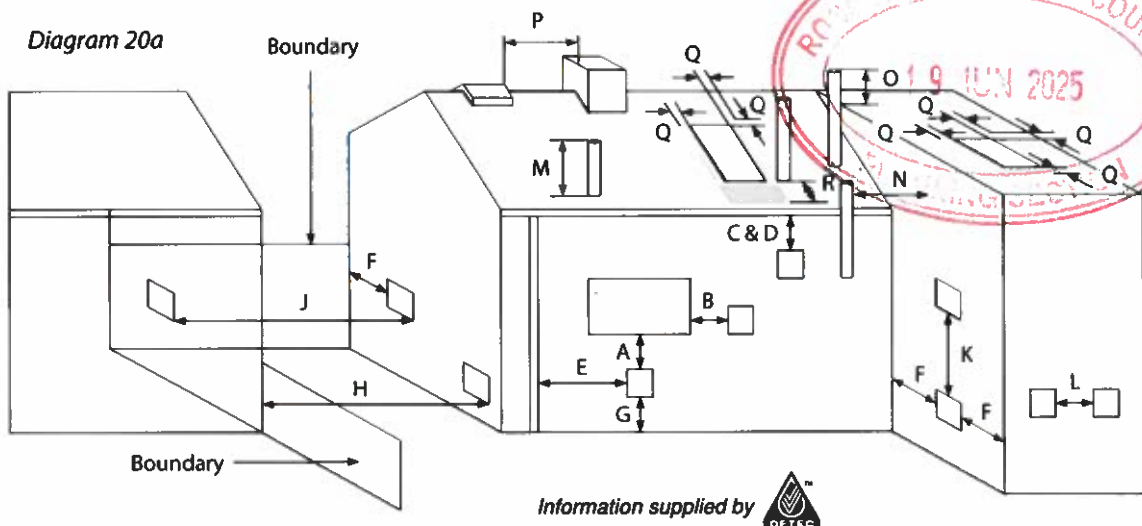
Clearances advised by BS 5410-1: 2019

Regular Appliance (Open, Low Level Discharge and Balanced) Flue Termination Clearance

The basic requirement with regard to flue positioning is that no hazard or nuisance is caused by the flue gases.

Diagrams 20a and 20b show clearances advised by BS 5410-1: 2019.

Regional requirements where flue clearances differ can be found in the regional requirements section in OFTEC Book 4.



Minimum distances to terminals in millimeters as measured from the top of the chimney or the outer edge of where flue gases pass through low level discharge openings

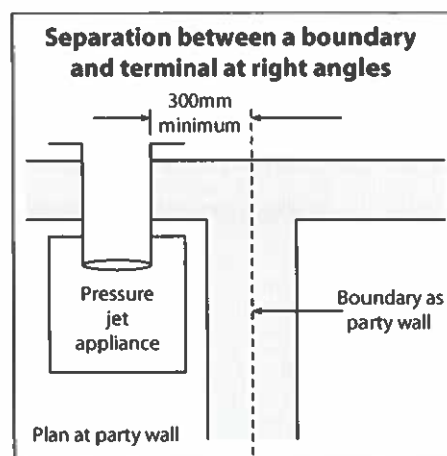
	Location	Appliance Burner Type	
		Pressure Jet	
		Condensing	
		UK	ROI & NI
A	Directly below an opening, airbrick, opening window etc.	1000mm	600mm
B	Horizontally to an opening, airbrick, opening window etc.	1000mm	600mm
C	Below a gutter, eaves or balcony with protection	1000mm	1000mm
D	Below a gutter or a balcony without protection	1000mm	1000mm
E	From vertical sanitary pipe work	300mm	300mm
F	From an internal or external corner or surface or boundary alongside the terminal	300mm	600mm
G	Above ground or balcony level	300mm	300mm
H	From a surface or a boundary facing the terminal	2500mm	2500mm
J	From a terminal facing the terminal	1200mm	1200mm
K	Vertically from a terminal on the same wall	1500mm	1500mm
L	Horizontally from a terminal on the same wall	750mm	750mm
M	Above the highest point of an intersection with the roof	600mm	600mm
N	From a vertical structure on the side of the terminal	750mm	750mm
O	Above a vertical structure less than 750mm from the side of the terminal	600mm	600mm
P	From a ridge terminal to a vertical structure on the roof	1500mm	1500mm
Q	Above or to the side of any opening on a flat or sloping roof	600mm	600mm
R	Below any opening on a sloping roof	2000mm	2000mm

4 4.3 INSTALLATION - FLUE REGULATIONS

NOTES: These notes form an integral part of the information shown on the previous page.

1. Terminals should be positioned to avoid products of combustion accumulating in stagnant pockets around the building, or entering into buildings.
2. Appliances burning Class D oil have additional restrictions (see OFTEC Book Four).
3. Vertical structures in N, O and P include lift rooms, parapets, dormers, etc.
4. Terminating positions A to L are only permitted for appliances that have been approved for low level flue and low level balanced flue discharge when tested to BS EN 303-1.
5. Terminating positions must be at least 1.8m distant from a fuel storage tank unless a wall with at least 30 minutes fire resistance and extending 300mm higher and wider than the fuel storage tank is provided between the fuel storage tank and the terminating position.
6. Where a flue is terminated less than 1m 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.
7. If the lowest part of the terminal is less than 2m above the ground, balcony, flat roof or other place to which a person has access, the terminal must be protected by a guard.
8. Notwithstanding the dimensions given in the diagram and table, a terminal should not be sited closer than 300mm to combustible material.
9. It is essential that a flue or chimney does not pass through the roof within the shaded area shown by dimensions Q and R.
10. Where protection is provided for plastic components, such as guttering, it is essential that this is to the standard specified by the manufacturer of the plastic components.

Diagram 20b



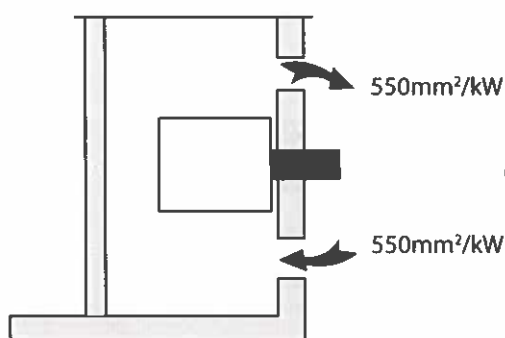
BALANCED FLUE BOILERS

The Firebird boiler may be set for room-sealed 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 the burner by an air pipe supplied with the 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 an acceptable temperature in the boiler area.

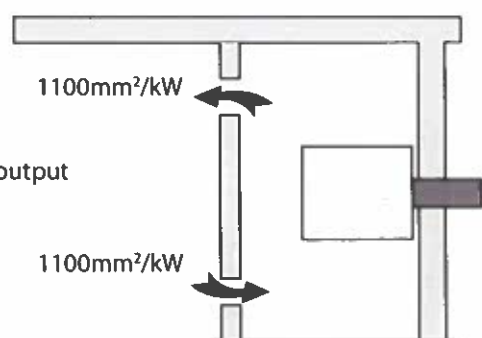
Balanced flue boiler in room does not require individual ventilation.

BALANCED - FLUE BOILERS IN COMPARTMENTS

Information supplied by



COMPARTMENT
VENTILATED FROM OUTSIDE



COMPARTMENT
VENTILATED FROM ROOM

Ventilation and Combustion Air

Conventional Flue Boilers

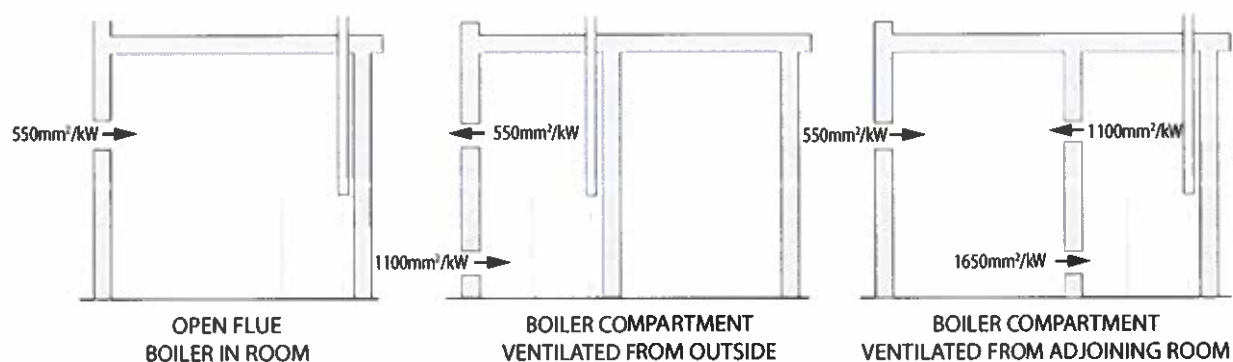
An adequate supply of **combustion and ventilation air** is essential for efficient and safe boiler operation and the openings for this should be positioned to cause least possible draught, **with no possibility of being accidentally blocked.**

Please note: The British Standard Code of Practice for Oil Firing BS 5410-1: 2019, requires a permanent air inlet opening of **550mm² per 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 5410-1: 2019 and appropriate Building Regulations for each country should be obtained and fully applied.

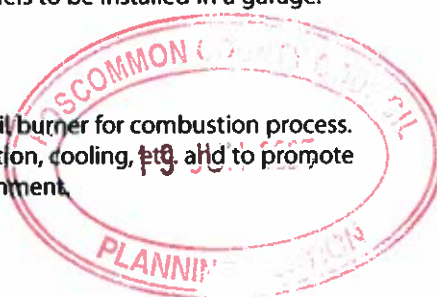
N.B. Please note:

BS5410-1: 2019 only permits room sealed models to be installed in a garage.

Definitions

Combustion Air: Air required directly by boiler oil burner for combustion process.

Ventilation Air : Air required in room for ventilation, cooling, heating and to promote a healthy living environment.



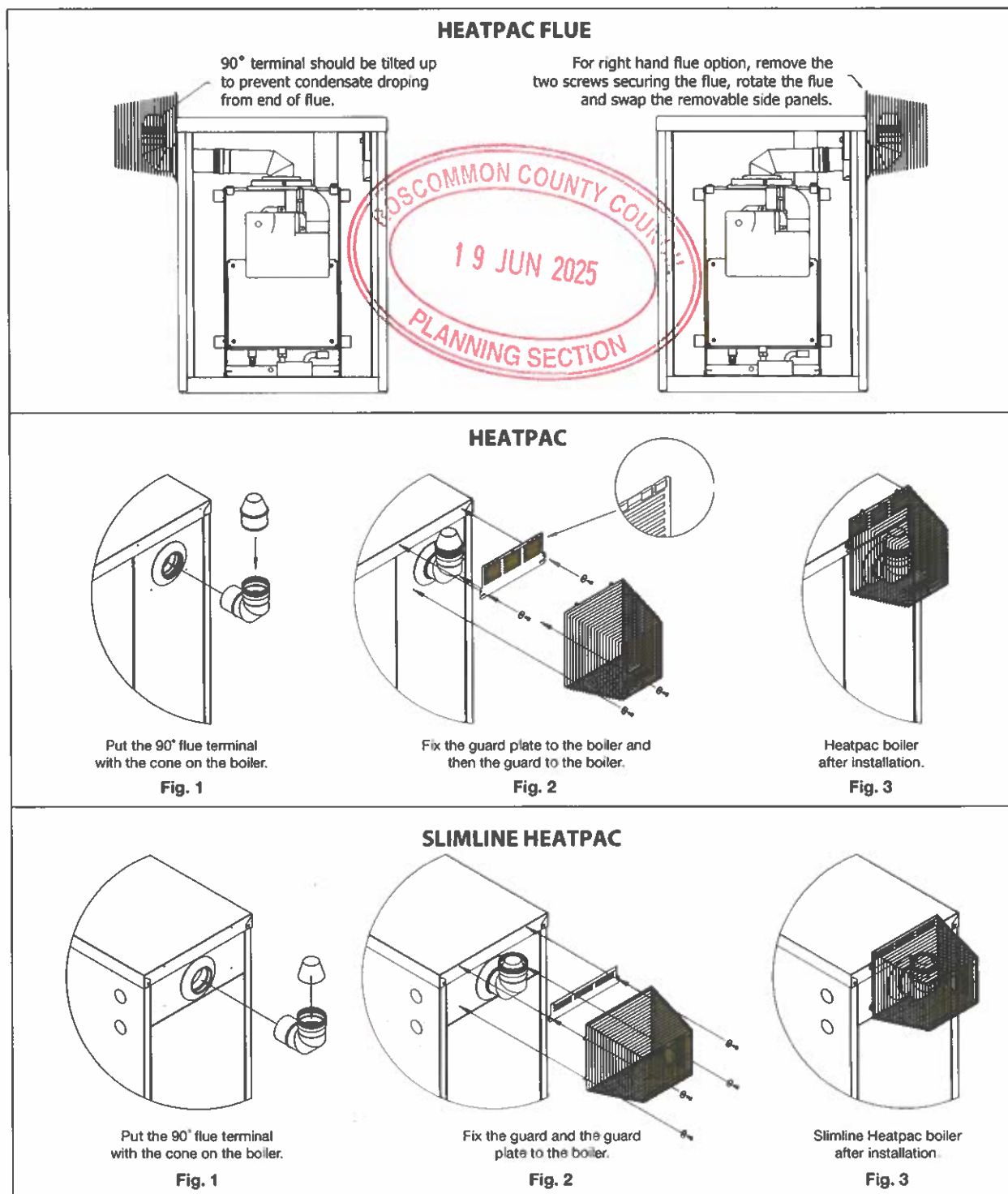
4 4.4 INSTALLATION - FLUE SYSTEMS

CONDENSATE PLUME DISPERSAL

When choosing the location for a condensing boiler, special consideration must be given to the positioning of the flue terminal. Care should be taken to locate it so as to prevent either the end user or their neighbours perceiving the plume to be a nuisance.

It should be noted that the normal statutory clearances required around low level flue terminals may not be sufficient to cope with plume dispersal from a condensing boiler.

INSTALLATION INSTRUCTIONS ARE SUPPLIED WITH ALL FLUE KITS (SEE BELOW FOR HEATPAC AND SLIMLINE HEATPAC)



NOTE: Louvers on the front panel should not be obstructed.

Installation Instructions for the Multidirectional Flue System for Envirogreen Slimline Heatpac Models Only (20-35kW)

(manufactured after 17 March 2022)

This flue system for the Envirogreen Slimline Heatpac boiler has several changes that differ from the instructions in the Technical Manual supplied with the boiler.

These changes are part of our continued product improvement process.

Please read this Addendum and use the information in conjunction with the corresponding sections of the Technical Manual.

Following commissioning, please leave both the Technical Manual and this Addendum with the end user for future reference.

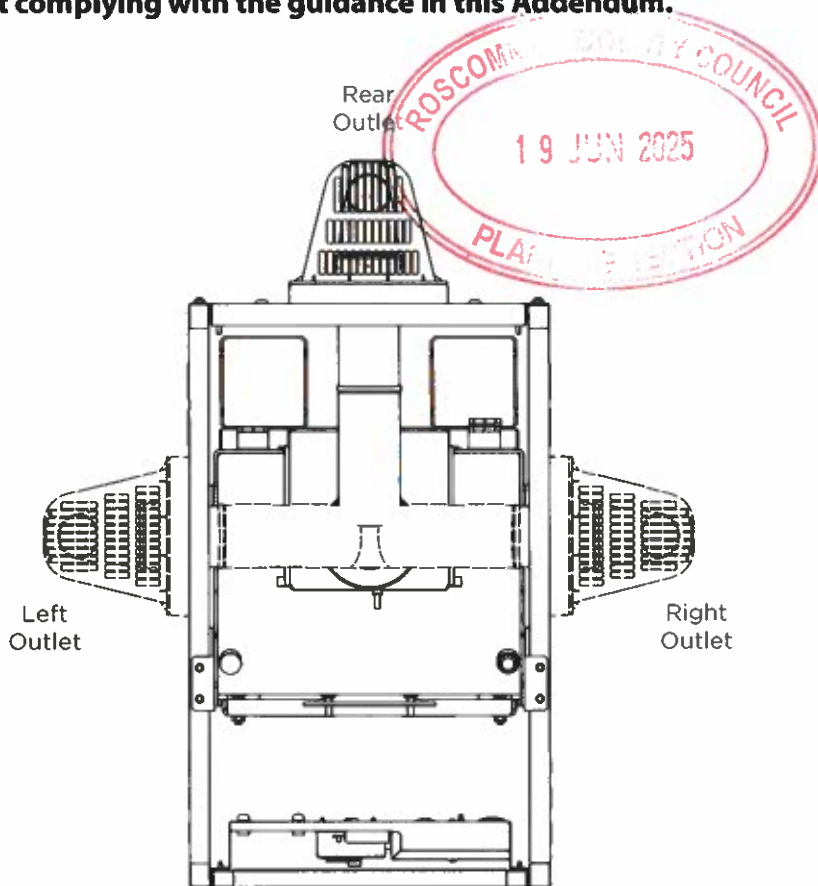
Carefully read this Addendum to enable safe installation, use and servicing. No liability can be accepted in the event of damage for not complying with the guidance in this Addendum.

FLEXIBLE DESIGN

The new multidirectional flue system has been designed for ease of installation in a wide range of situations. The flue kit can be easily fitted onto the boiler. The terminal guard allows safe discharge of flue gases. The multidirectional flue is compatible with Firebird's plume dispersal kits.

The flue can be positioned in 3 directions.

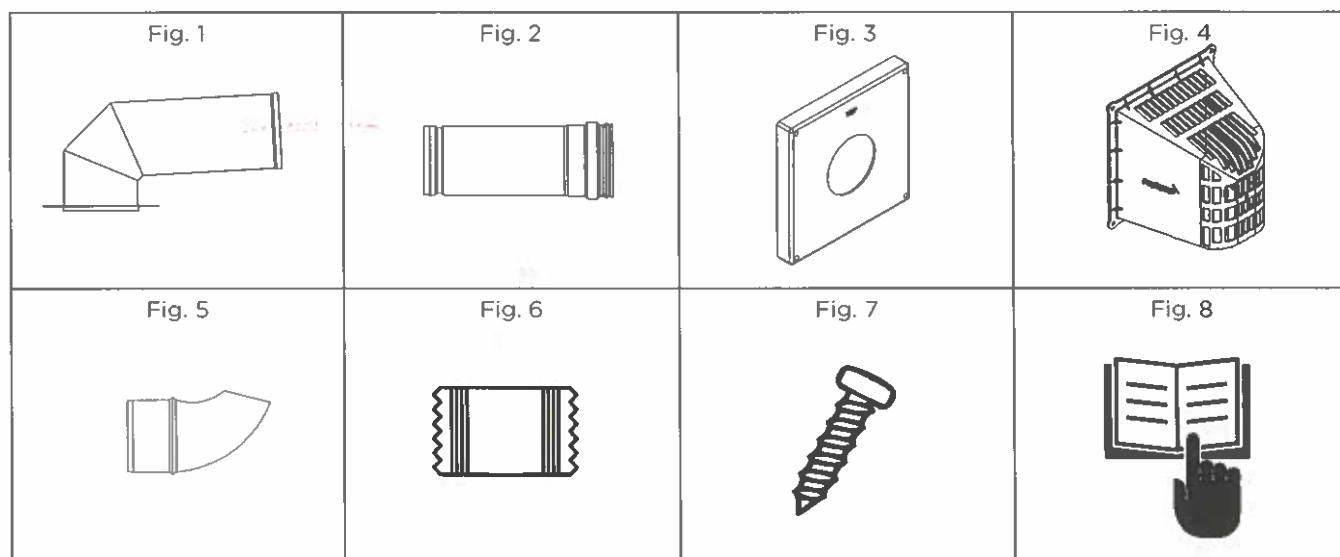
1. Rear outlet
2. Right outlet
3. Left outlet



4 4.4 INSTALLATION - FLUE SYSTEMS

KIT CONTENTS

Fig	Part Number	Description	Qty:
1	115392	Stainless Steel Starter Bend	1
2	115393	Stainless Steel Length	1
3	114593	Flue Deflector	1
4	114594	Terminal Guard	1
5	114595	Terminal Cone	1
6	112359	Silicone Grease Sachet	1
7	116024	No. 10x40 Screws	4
8	V1 MDF SP	Instruction Manual	1



HEALTH AND SAFETY

The appliance contains no asbestos and no substances have been used in the construction process that contravene the COSHH Regulations (Control of Substances Hazardous to Health Regulations 1988).

CORROSIVE MATERIALS

Chemically aggressive substances can corrode the appliance and invalidate any warranty.

FITTING AND MODIFICATIONS

The flue system may only be installed by a competent, qualified engineer in accordance with local regulations. Flue system must not be modified in any way other than as described in the fitting instructions. Any misuse or unauthorised modifications to the appliance, flue or associated components and systems could invalidate the warranty.

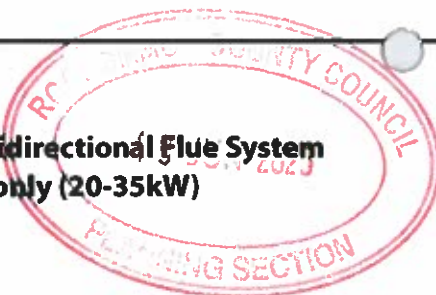
SERVICING

The flue system should be inspected annually by a competent, qualified engineer. Approved spares must be used to help maintain the economy, safety and reliability of the appliance.

4 4.4 INSTALLATION - FLUE SYSTEMS

ASSEMBLY INSTRUCTIONS

The following procedure applies to fitting the Multidirectional Flue System on Envirogreen Slimline Heatpac models only (20-35kW)



Remove the flue kit from the front of the boiler.



Remove the top panel to access to flue spigot on top of boiler.



1. Remove the flue seal to allow access to the flue securing screws.
2. Remove the 2 stainless steel screws.



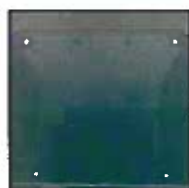
Reinsert the flue gasket ensuring that the holes in the gasket line up with securing holes on the spigot.



1. Insert stainless steel starter bend to the chosen position.
2. Secure the flue with the 2 stainless screws supplied. Remove insulation cut-out from chosen outlet position.



Remove insulation cut-out from chosen outlet position. Please dispose of the insulation cut-out.



Remove chosen blanking panel for flue outlet. Disregard blanking panel and screws.



Ensure slotted air intake holes are clear.



Apply silicon grease to the brown teflon seal on the extension flue pipe.



Insert the extension flue pipe through the deflector plate.



Insert extension flue piece through the external hole.



Push the extension flue pipe into the flue starter bend.



The deflector plate should be positioned with marking (TOP) to ensure it's positioned correctly.

4 4.4 INSTALLATION - FLUE SYSTEMS



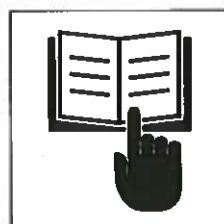
Apply silicone grease to the cone and insert into the extension flue piece.



The cone should be positioned vertically.



Instal flue terminal with the 4 screws supplied.



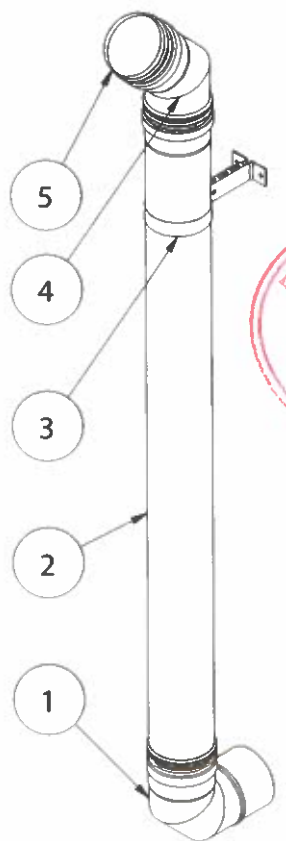
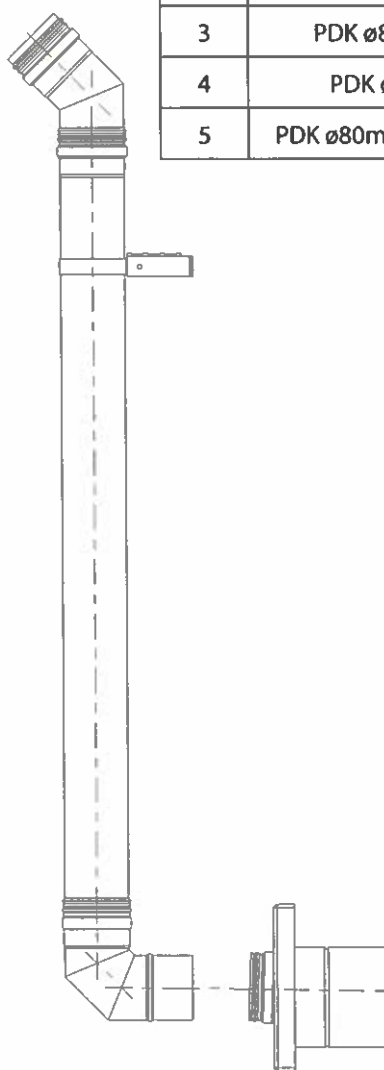
Insert addendum into Technical Manual pack.

4 4.4 INSTALLATION - FLUE SYSTEMS

PLUME DISPERSAL KIT

A plume dispersal kit can easily be installed onto the multidirectional flue system.

Plume Dispersal Starter Kit ø80 - PDK005SET				
Item	Part Name	Qty	Sales code	Part no.
1	PDK ø80mm 90° bend	1	PDK090BND	411256
2	PDK ø80mm 1000mm length	1	PDK1000KT	411251
3	PDK ø80mm wall bracket	1	PDK000WBK	411259
4	PDK ø80mm 45° bend	1	PDK045BND	411255
5	PDK ø80mm terminal with mesh	1	PDK005TRM	411257

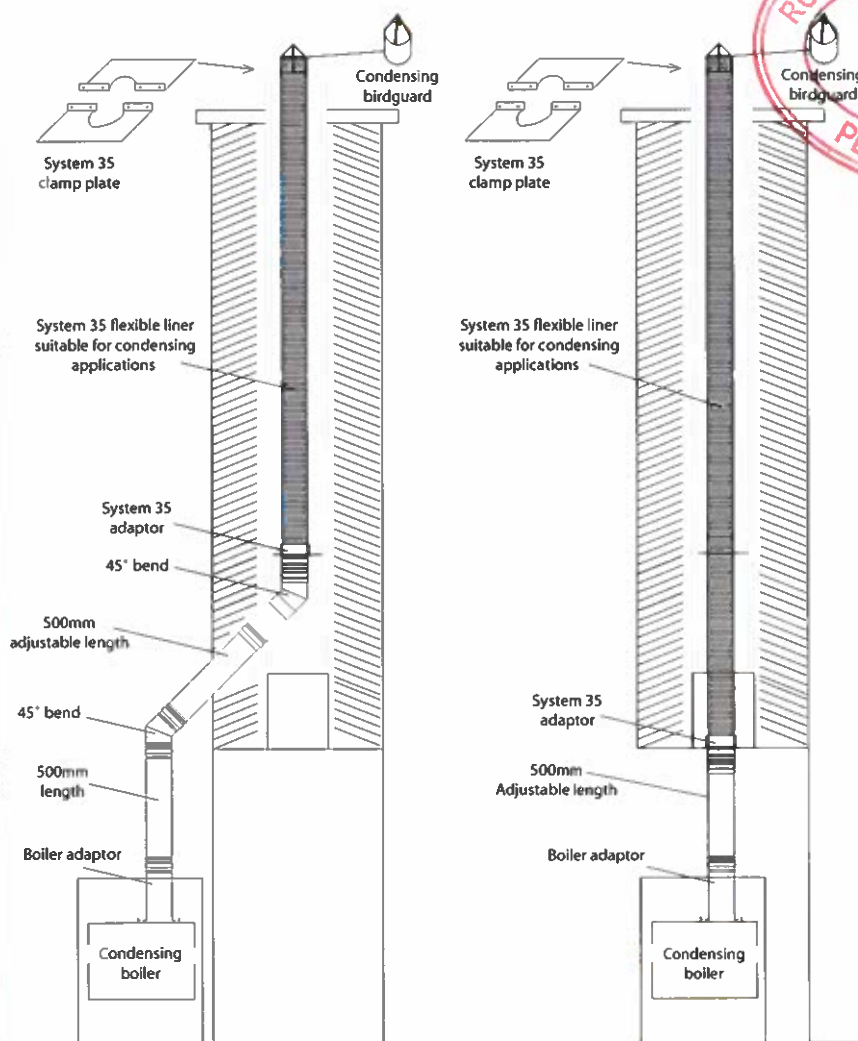


Additional plume pipe fixings and lengths can be added to the kit (refer to installation manual for more information).

Note: Remove the terminal guard and cone before installing the Plume Kit.

4 4.4 INSTALLATION - FLUE SYSTEMS

CONDENSING BOILER CHIMNEY INSTALLATION



FLUE SIZE

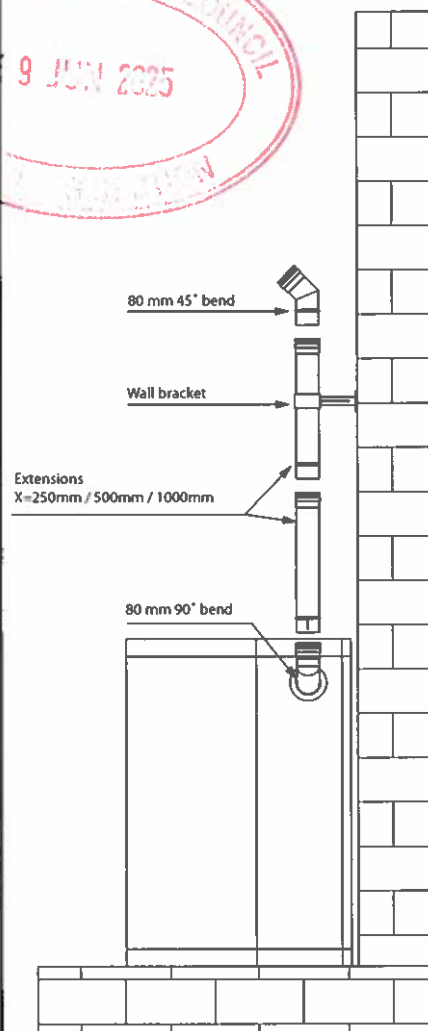
Boiler	Diameter
12-18kW	100mm
12-20kW	100mm
20-26kW	100mm
26-35kW	100mm
36-44kW	100mm
58kW	100mm
73kW	125mm
80-100kW	125mm

Single wall stainless flue suitable for condensing boilers. Available in stainless steel finish or white finish

NOTE:

All brick chimney constructions must comply with current building regulations and BS 5410-1:2019. Insulated factory made chimneys should comply with BS EN 1856-1:2009.

PLUME KIT



4 4.5 INSTALLATION - FUEL SUPPLY

FUEL STORAGE TANK SITING

Consult OFTEC Manuals

It is unlikely that a fire will start at a fuel tank. However, the stored fuel must be protected from a fire or heat source that originates nearby. For this reason fuel tanks of up to 3,500 litres should be separated from openings, other than airbricks, in the building by a minimum of 1.8m and a non-fire rated boundary by a minimum of 760mm. Where this cannot be achieved, a 30 minute fire rated barrier should be constructed between the hazard and the tank, which extends a minimum of 300mm higher and 300mm past each end of the tank. Note that a minimum separation distance should be maintained between a flue exit and fire barrier (see page 10 (flue regulations)).

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

Fuel 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 the fuel 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 the fuel supply is completely clean and free of any dirt or foreign matter.

OIL LINE CONFIGURATION

Refer to burner manual section on Hydraulic Systems for:

- Two pipe systems.
- Pipe sizing & distance.
- Tank heights.
- Pump priming.

OIL FILTER

The tank must have a good quality oil filter and a 10 micron secondary filter to protect the burner from contaminants.

REGULATIONS & STANDARDS

Please consult all local and regional regulations, relevant to water resources (control of pollution and oil storage) as well as OFTEC Book Three.



5 COMMISSIONING

COMMISSIONING

- ◆ It is the responsibility of the installer to ensure that the boiler is properly commissioned when first used.
- ◆ The boiler should be commissioned by a competent, qualified engineer, preferably OFTEC registered and familiar with Firebird products.
- ◆ The installation certificate and the commissioning certificate within the boiler passport should be completed and posted to Firebird within 28 days of installation (this can also be done online on the Firebird website). A copy should be retained by the commissioning engineer.
- ◆ The system should be checked thoroughly.

CHECKLIST FOR INSTALLING AND COMMISSIONING A FIREBIRD BOILER

Pre-installation check:

- ◆ Is the following documentation included with the boiler, installation manual, boiler passport, burner manufacturer's manual?
- ◆ Is the base on which the boiler is to be installed solid?
- ◆ Allow sufficient room for future servicing of the boiler.

Where does the flue terminate:

- ◆ Make sure there is no window, door or fence within 1 metre of the flue-terminal.
- ◆ If the flue terminates in a corner or into an allyway, re-circulation of the combustion gases in the air intake could occur. A plume dispersal may be required or an alternative flue arrangement might be available. Contact the Firebird technical department for advice.
- ◆ The appropriate class 1 flue must be used with a conventional flue installation. Contact Firebird if unsure.

Power supply:

- ◆ Is a timed, permanent, power supply available, via a fused spur with a 230V 50Hz mains electrical supply and a 5A fuse?

Fuel supply:

- ◆ The burner is set for 28 Second Class C2 fuel.
- ◆ A 10 micron oil filter should be placed in line with an isolating valve prior to entry to the burner.
- ◆ There must be a remote sensing fire valve.
- ◆ Verify that the fuel tank has been installed correctly as per building standards.

Boiler check:

- ◆ Baffles should be checked as they may have been disturbed during transport.
- ◆ Check that the condensate trap is fitted securely, primed with water and piped out into a suitable drain. It is easier to check the trap when the boiler door is removed.
- ◆ The combustion door should be refitted, complete with duroboard and rubber seal and then tightened.

Flue check:

- ◆ The flue must be fitted correctly, with a fall back to the boiler. Note: internal fall of 2.5" within the flue.
- ◆ For concentric balanced flue:
 - the cone supplied should be inserted in to the end of the flue;
 - the wall plate should be fitted with an opening for air under the flue;
 - check that the flue guard is fitted.
- ◆ When installing a Heatpac or a Slimline Heatpac, the 90° bend should be fitted pointing up.

Thermostat check:

- ◆ Ensure the probes are fully inserted in the stat. pocket and the retaining clip is in place.
- ◆ Check the function of the thermostat at minimum and maximum to ensure correct operation.

Please refer to burner manual for the following sections:

- ◆ Boiler set-up.
- ◆ Burner settings.
- ◆ Flue gas analysis and fine tuning of burner.

HANDING OVER

The householder should receive:

- A clear and concise demonstration of the boiler operation and any system controls.
- This manual, the burner manufacturer's manual and any other instructions.
- OFTEC forms CD10 and CD11.
- The Boiler Passport.

The householder should be advised to:

- Service the boiler annually and to ensure that the service records in the Boiler Passport are completed.
- Read the terms and conditions of warranty.
- Keep all boiler documentation in a safe place.

A commissioning record should be completed and a copy retained by the Engineer. This can be found in the Boiler Passport.

6 SERVICING

Annual servicing must be carried out by a competent, qualified engineer, preferably OFTEC registered and familiar with Firebird products.

Do not commence service until both the electrical and fuel supply to the boiler have been safely isolated.

THE FUEL TANK

Check for oil leaks. Draw off any accumulated water and sludge from the tank by opening the drain valve. Turn off the fuel supply, remove the filter bowl and wash the element. Fit a new element if required.

THE BOILER

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

Cleaning a Firebird condensing boiler:

1. Remove all baffles, including the tubular baffles in the condensing section and clean them.
2. Remove the condensate trap and clean it, place a tray under the connection for the trap. Vacuum out any loose debris from the chamber.
3. Clean the inside of the boiler with a vacuum cleaner.
4. Refit all the baffles and the condensate trap securely.
5. System pressure should not exceed 2 bar at full operating temperature. The expansion vessel should be checked during the annual service to ensure that it is operating correctly.

Ensure the combustion door is completely sealed and there are no leaks.

Check that the condensate trap is secure in position, clean and free of combustion debris. Ensure that the condensate drain is free and not blocked.

Expansion vessel pre-charge pressure should be checked annually and set according to the system design.

THE BURNER

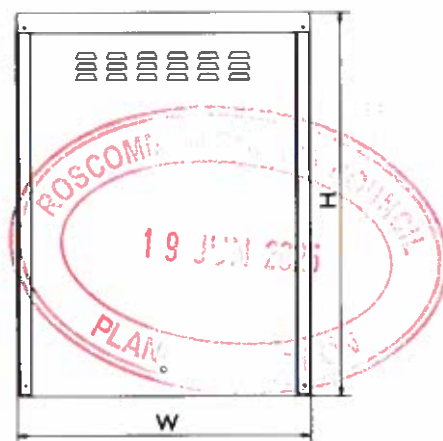
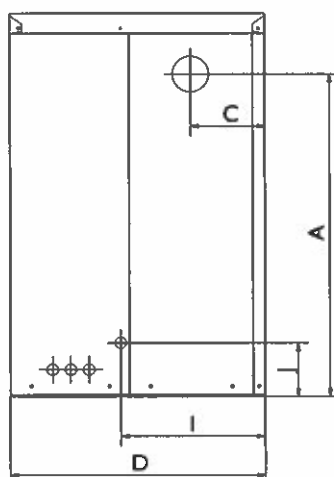
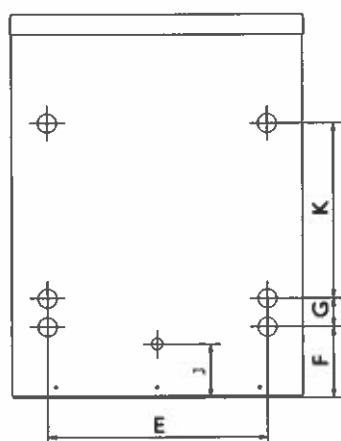
Please refer to the burner manual for specification and combustion check information.

OIL LINE

The oil line should be replaced annually or where an oil pipe is kinked, damaged or any doubt exists as to its integrity until the next service visit, it is recommended that it is replaced at the time of service.

Ensure service is recorded in the Boiler Passport.

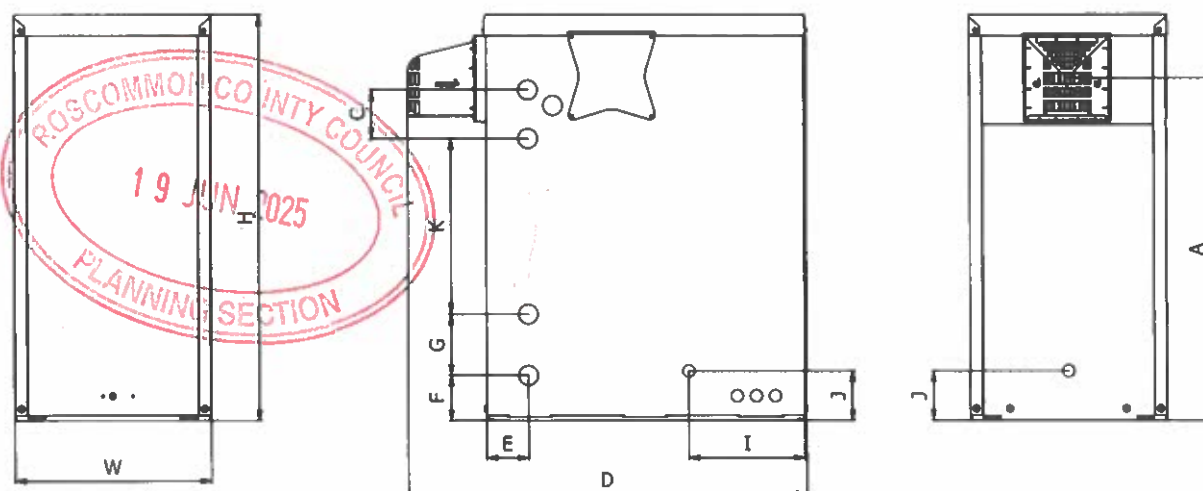




Model - Envirogreen (output range)	Weight kg (incl. burner)	Dimensions (mm)										
		H	W	D	A	C	E	F	G	I	J	K
Envirogreen Heatpac 12-18kW	134	945	620	625	795	180	440	175	70	351	133	432
Envirogreen Heatpac 12-20kW	154	945	720	625	795	180	540	175	70	351	133	432
Envirogreen Heatpac 20-26kW	154	945	720	625	795	180	540	175	70	351	133	432
Envirogreen Heatpac 26-35kW	158	945	720	625	795	180	540	175	70	351	133	432
Envirogreen Heatpac 36-44kW	244	1074	839	855	936	180	684	175	115	507	134	505
Envirogreen Heatpac 58kW	250	1074	839	855	936	180	684	175	115	507	134	505
Envirogreen Heatpac 73kW	280	1200	903	855	1039	180	684	175	115	507	134	555

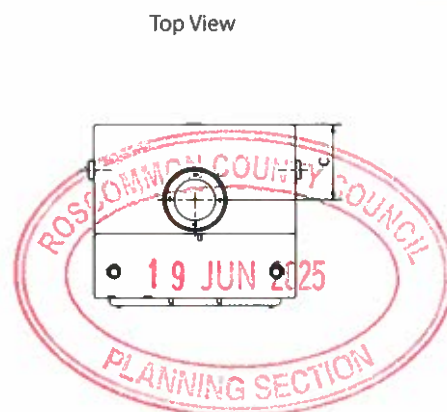
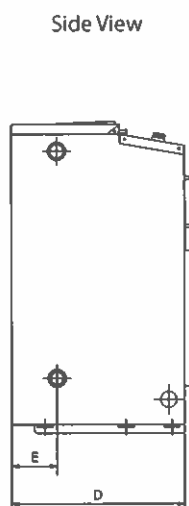
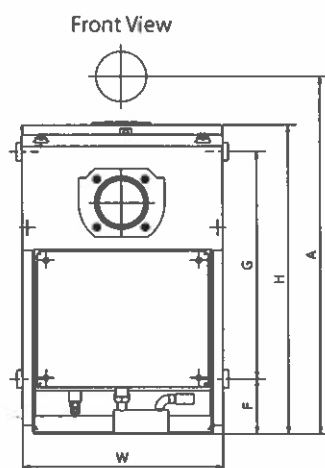
Heat Output	kW	12-18	12-20/20-26	26-35	36-44/58	73
CONNECTIONS						
Heating Flow		1" BSP	1" BSP	1" BSP	1 1/2" BSP	1 1/2" BSP
Heating Return		1" BSP	1" BSP	1" BSP	1 1/2" BSP	1 1/2" BSP
Drain Off Valve		1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP
Condensate Trap				22 mm dia. plastic pipe		
Boiler Water		24 litres	24 litres	24 litres	43.5 litres	54 litres
FLUE				Integral flues.		
HEATING SYSTEM (SEALED)		Fit in accordance with BS 7074 Part 1, BS 5449, OFTEC standards and all other relevant legislation.				
Preset Pressure Relief Valve		3 bar				
WATER SIDE RESISTANCE			12-20kW	20-26kW	26-35kW	36-44kW
Flow Rate To Give A Nominal Output At 10K Differential						
Flow Rate Measured			1642 kg/h	2135 kg/h	2874 kg/h	3613 kg/h
Waterside Resistance			0.18 mbar	0.18 mbar	0.18 mbar	0.22 mbar
Flow Rate To Give A Nominal Output At 20K Differential						
Flow Rate Measured			870 kg/h	1131 kg/h	1523 kg/h	2915 kg/h
Waterside Resistance			0.19 mbar	0.19 mbar	0.19 mbar	0.24 mbar
PRESSURE JET OIL BURNERS			ELCO FB 2 K LN 12-58 and ELCO FB 3 K LN for 73kW			
FUEL			Kerosene 28 Second Class C2			
ELECTRICAL SUPPLY			230V AC 50Hz 5A			
TEMPERATURE CONTROL						
<i>FROST THERMOSTAT FITTED TO ALL OUTDOOR MODELS</i>						
Boiler Central Heating Control				55°C - 80°C		
Boiler Safety Limit				110°C		
Over-run - Fixed				87°C		
Thermostats have an operating tolerance of ± 4°C						

7 7.2 ENVIROGREEN SLIMLINE HEATPAC - TECHNICAL DETAILS & DIMENSIONS



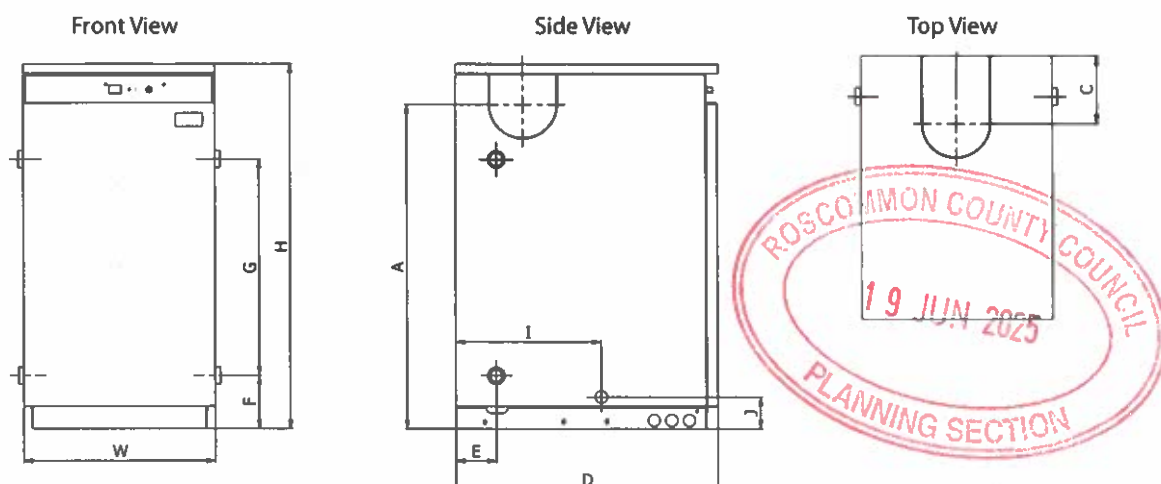
Model - Envirogreen (output range)	Weight kg (incl. burner)	Dimensions (mm)										
		H	W	D	A	C	E	F	G	I	J	K
Envirogreen Slimline Heatpac 12-20kW	147	960	465	760	810	115	100	107	145	274	117	415
Envirogreen Slimline Heatpac 20-26kW	150	960	465	760	810	115	100	107	145	274	117	415
Envirogreen Slimline Heatpac 26-35kW	153	960	465	760	810	115	100	107	145	274	117	415

Heat Output	kW			12-35
CONNECTIONS				
Heating Flow				1" BSP
Heating Return				1" BSP
Drain Off Valve				1/2" BSP
Condensate Trap				22 mm dia. plastic pipe
Boiler Water				24 litres
FLUE				
Integral flues.				
HEATING SYSTEM (SEALED)				
Fit in accordance with BS 7074 Part 1, BS 5449, OFTEC standards and all other relevant legislation.				
Preset Pressure Relief Valve				
3 bar				
WATER SIDE RESISTANCE				
12-20kW20-26kW26-35kW				
Flow Rate To Give A Nominal Output At 10K Differential				
Flow Rate Measured				
1642 kg/h2135 kg/h2874 kg/h				
Waterside Resistance				
0.18 mbar0.18 mbar0.18 mbar				
Flow Rate To Give A Nominal Output At 20K Differential				
Flow Rate Measured				
870 kg/h1131 kg/h1523 kg/h				
Waterside Resistance				
0.19 mbar0.19 mbar0.19 mbar				
PRESSURE JET OIL BURNERS				
ELCO FB 2 K LN 12-35				
FUEL				
Kerosene 28 Second Class C2				
ELECTRICAL SUPPLY				
230V AC 50Hz 5A				
TEMPERATURE CONTROL				
FROST THERMOSTAT FITTED TO ALL OUTDOOR MODELS				
Boiler Central Heating Control				
55°C - 80°C				
Boiler Safety Limit				
110°C				
Over-run - Fixed				
87°C				
Thermostats have an operating tolerance of ± 4°C				



Model - Envirogreen (output range)	Weight kg (incl. burner)	Dimensions (mm)							
		H	W	D	A	C	E	F	G
Envirogreen Popular 12-18kW	99	684	344	381	753	164	100	122	502
Envirogreen Popular 12-20kW	107	684	441	381	753	164	100	122	502
Envirogreen Popular 20-26kW	112	684	441	381	753	164	100	122	502
Envirogreen Popular 26-35kW	115	684	441	381	753	164	100	122	502
Envirogreen Popular 36-44kW	182	815	470	531	914	154	96	123	620
Envirogreen Popular 58kW	190	815	470	533	914	154	97	128	615
Envirogreen Popular 73kW	210	873	530	527	1024	155	97	123	670
Envirogreen Popular 80-100kW	300	1052	625	746	-	139	112	130	832

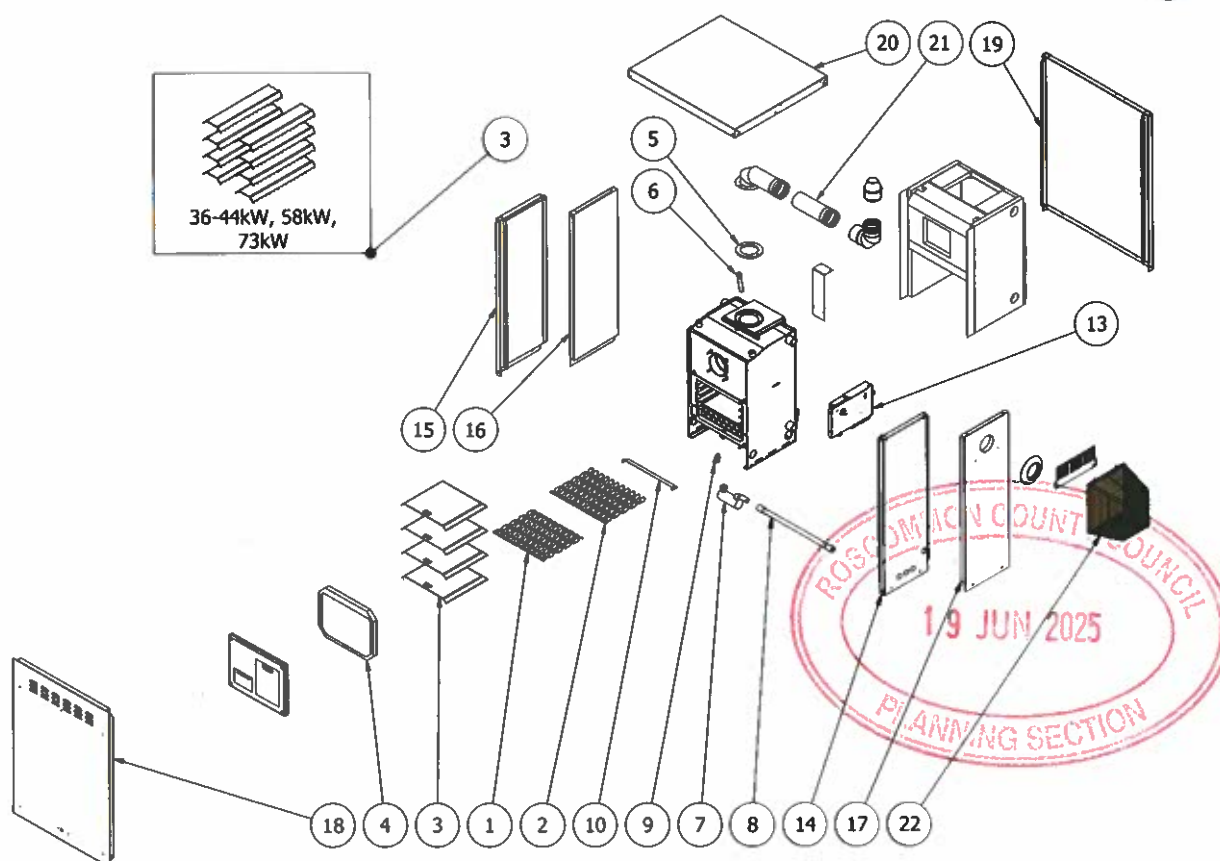
Heat Output	kW	12-18	12-20/20-26	26-35	36-44/58	73	80-100
CONNECTIONS							
Heating Flow		1" BSP	1" BSP	1" BSP	1 1/2" BSP	1 1/2" BSP	2" BSP
Heating Return		1" BSP	1" BSP	1" BSP	1 1/2" BSP	1 1/2" BSP	2" BSP
Drain Off Valve		1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP
Condensate Trap				22mm dia, plastic pipe			
Boiler Water		24 litres	24 litres	24 litres	43.5 litres	54 litres	75 litres
FLUE (Indoor Boilers)							
Balanced Flue Assembly		125 (5") mm dia.	125 (5") mm dia.	125 (5") mm dia.	150 (6") mm dia.	180 (7") mm dia.	200 (8") mm dia.
Max. Low Level Flue Length		1.5m	1.5m	1.5m	1.5m	1.5m	1.5m
Max. High Level Balanced Flue Length		6m	6m	6m	6m	6m	6m
HEATING SYSTEM (SEALED)		Fit in accordance with BS 7074 Part 1, BS 5449, OFTEC standards and all other relevant legislation.					
Preset Pressure Relief Valve		3 bar					
WATER SIDE RESISTANCE			12-20kW	20-26kW	26-35kW	36-44KW	
Flow Rate To Give A Nominal Output At 10K Differential							
Flow Rate Measured			1642 kg/h	2135 kg/h	2874 kg/h	3613 kg/h	
Waterside Resistance			0.18 mbar	0.18 mbar	0.18 mbar	0.22 mbar	
Flow Rate To Give A Nominal Output At 20K Differential							
Flow Rate Measured			870 kg/h	1131 kg/h	1523 kg/h	2915 kg/h	
Waterside Resistance			0.19 mbar	0.19 mbar	0.19 mbar	0.24 mbar	
PRESSURE JET OIL BURNERS			ELCO FB 2 K LN 12-58 and ELCO FB 3 K LN for 73kW and 100kW				
FUEL			Kerosene 28 Second Class C2				
ELECTRICAL SUPPLY			230V AC 50Hz 5A				
TEMPERATURE CONTROL							
Boiler Central Heating Control				55°C - 80°C			
Boiler Safety Limit				110°C			
Thermostats have an operating tolerance of ± 4°C							



Model - Envirogreen (output range)	Weight kg	Dimensions (mm)									
		H	W	D	A	C	E	F	G	I	J
Envirogreen Kitchen 12-18kW	115	847	345	610	753	157	94	124	502	336	75
Envirogreen Kitchen 12-20kW	125	847	442	610	753	157	94	124	502	336	75
Envirogreen Kitchen 20-26kW	128	847	442	610	753	157	94	124	502	336	75
Envirogreen Kitchen 26-35kW	131	847	442	610	753	157	94	124	502	336	75
Envirogreen Kitchen 36-44kW	210	1048	464	852	914	154	100	130	615	485	86
Envirogreen Kitchen 58kW	216	1048	464	852	914	154	100	130	615	485	86
Envirogreen Kitchen 73kW	242	1196	524	851	1024	157	100	125	670	484	86
Envirogreen Commercial Utility 80-100kW	390	1249	623	1071	-	158	130	132	832	723	72

Heat Output	kW	12-18	12-20/20-26	26-35	36-44/58	73	80-100
CONNECTIONS							
Heating Flow	1" BSP	1" BSP	1" BSP	1 1/2" BSP	1 1/2" BSP	2" BSP	
Heating Return	1" BSP	1" BSP	1" BSP	1 1/2" BSP	1 1/2" BSP	2" BSP	
Drain Off Valve	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP	
Condensate Trap				22mm dia. plastic pipe			
Boiler Water	24 litres	24 litres	24 litres	43.5 litres	54 litres	75 litres	
FLUE (Indoor Boilers)							
Balanced Flue Assembly		125 (5") mm dia.	125 (5") mm dia.	125 (5") mm dia.	150 (6") mm dia.	180 (7") mm dia.	200 (8") mm dia.
Max. Low Level Flue Length		1.5m	1.5m	1.5m	1.5m	1.5m	1.5m
Max. High Level Balanced Flue Length		6m	6m	6m	6m	6m	6m
HEATING SYSTEM (SEALED)							
Preset Pressure Relief Valve		Fit in accordance with BS 7074 Part 1, BS 5449, OFTEC standards and all other relevant legislation.					
		3 bar					
WATER SIDE RESISTANCE			12-20kW	20-26kW	26-35kW	36-44kW	
Flow Rate To Give A Nominal Output At 10K Differential							
Flow Rate Measured			1642 kg/h	2135 kg/h	2874 kg/h	3613 kg/h	
Waterside Resistance			0.18 mbar	0.18 mbar	0.18 mbar	0.22 mbar	
Flow Rate To Give A Nominal Output At 20K Differential							
Flow Rate Measured			870 kg/h	1131 kg/h	1523 kg/h	2915 kg/h	
Waterside Resistance			0.19 mbar	0.19 mbar	0.19 mbar	0.24 mbar	
PRESSURE JET OIL BURNERS			ELCO FB 2 K LN 12-58 and ELCO FB 3 K LN for 73kW and 100kW				
FUEL			Kerosene 28 Second Class C2				
ELECTRICAL SUPPLY			230V AC 50Hz 5A				
TEMPERATURE CONTROL							
Boiler Central Heating Control			55°C - 80°C				
Boiler Safety Limit			110°C				
Over-run - Fixed			87°C				
Thermostats have an operating tolerance of ± 4°C							

8 8.1 ENVIROGREEN HEATPAC - PARTS

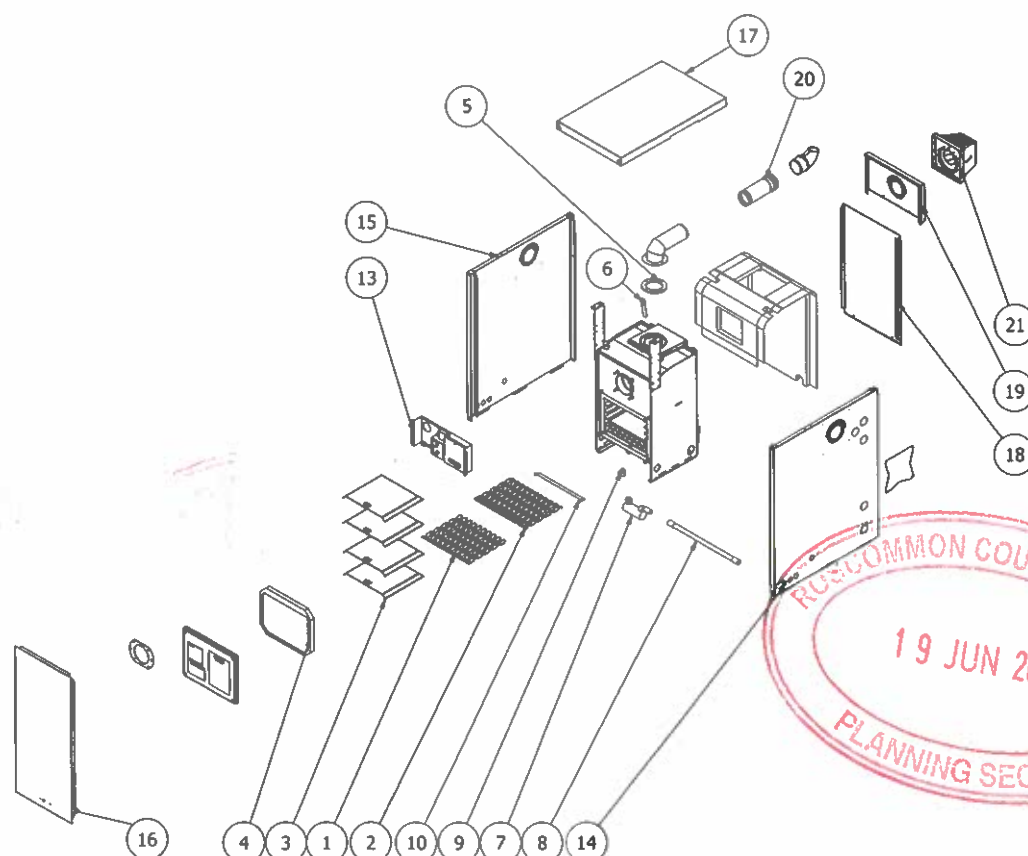


No.	Qty	Description	12-18kW	12-20kW	20-26kW	26-35kW	36-44kW	58kW	73kW
1	-	Tube baffle	BA110907	BA110907	BA110907	BA110907	BA111503	BA111503	BA111503
2	-	Tube baffle single	BA110908	BA110908	BA110908	BA110908	BA111502	BA111502	BA111502
3	4	Smoke baffle	BA212809	BA212022	BA212028	BA212122	BA211651	BA211640	BA211501
4	1	Duroboard	ACC000DDS	ACC000DDS	ACC000DDS	ACC000DDS	315447	315447	315448
	1	Door seal	-	-	-	-	ACC044GRA	ACC044GRA	ACC073GRA
	1	Door duroboard	-	-	-	-	ACC044GSK	ACC044GSK	ACC073GSK
5	1	Flue gasket	ACC000FRG	ACC000FRG	ACC000FRG	ACC000FRG	ACC044FRG	ACC044FRG	ACC073FRG
6	1	Stat 3 pocket	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT
7	1	Condensate trap	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP
8	1	Condensate hose	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX
9	1	Drain cock	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC
10	1	Heat deflector	ACC015HTD	ACC000HTD	ACC000HTD	ACC000HTD	ACC044HTD	ACC044HTD	ACC073HTD
13	1	Control panel	-	-	-	-	-	-	-
	1	Dual thermostat	ACC000THR	ACC000THR	ACC000THR	ACC000THR	ACC000THR	ACC000THR	ACC000THR
	1	Frost stat	ACC000TDF	ACC000TDF	ACC000TDF	ACC000TDF	ACC000TDF	ACC000TDF	ACC000TDF
	1	Over-run stat	ACC000EAS	ACC000EAS	ACC000EAS	ACC000EAS	ACC000EAS	ACC000EAS	ACC000EAS
14	1	Casing fixed right side	ACP002CCP	ACP002CCP	ACP002CCP	ACP002CCP	ACP002HP3	ACP002HP3	ACP002HP4
15	1	Casing fixed left side	ACP003CCP	ACP003CCP	ACP003CCP	ACP003CCP	ACP003HP3	ACP003HP3	ACP003HP4
16	1	Casing removable left side	ACP103CCP	ACP103CCP	ACP103CCP	ACP103CCP	ACP103HP3	ACP103HP3	ACP103HP4
17	1	Casing removable right side	ACP102CCP	ACP102CCP	ACP102CCP	ACP102CCP	ACP102HP3	ACP102HP3	ACP102HP4
18	1	Casing front	ACP004HP2	ACP004CCP	ACP004CCP	ACP004CCP	ACP004HP3	ACP004HP3	ACP004HP4
19	1	Casing back	ACP006HP2	ACP006HPK	ACP006HPK	ACP006HPK	ACP006HP3	ACP006HP3	ACP006HP4
20	1	Casing top	ACP005HP2	ACP005CCP	ACP005CCP	ACP005CCP	ACP005HP3	ACP005HP3	ACP005HP4
21	1	Flue kit	HPF035KIT	HPF035KIT	HPF035KIT	HPF035KIT	HPF044KIT	HPF044KIT	HPF058KIT
22	1	Terminal guard	ACC000CTG	ACC000CTG	ACC000CTG	ACC000CTG	ACC000CTG	ACC000CTG	ACC073CTG

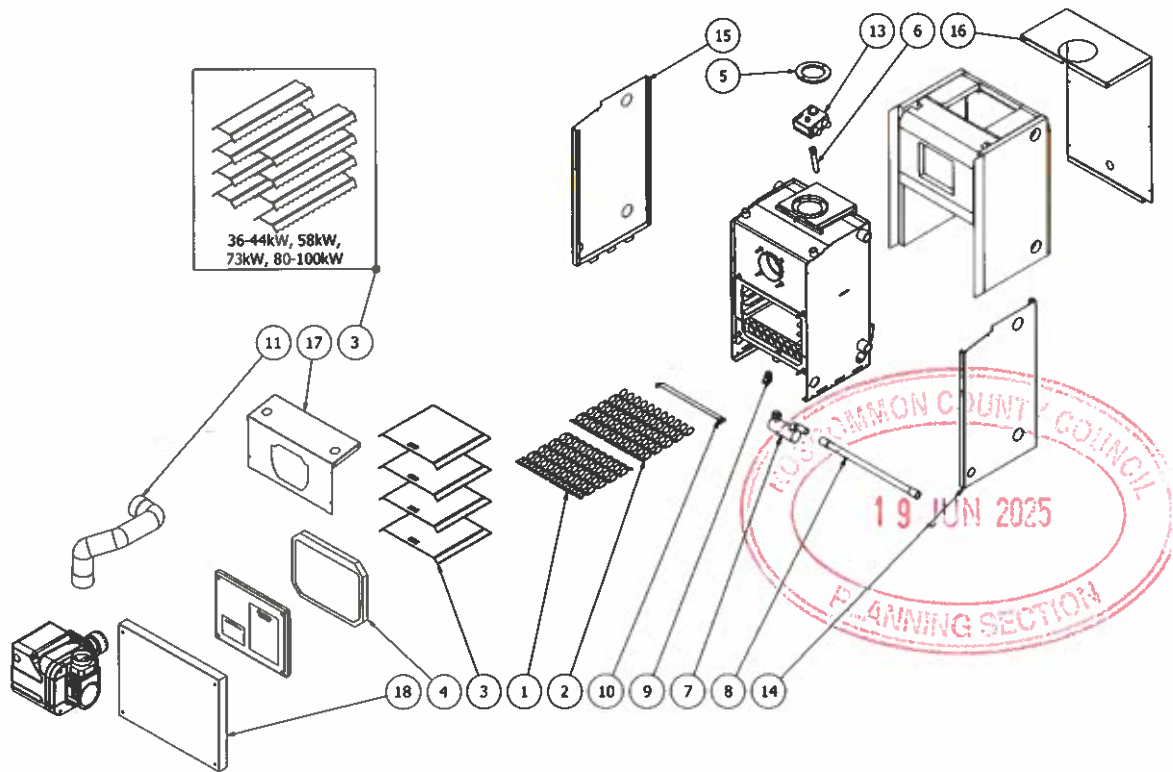
For burner parts refer to burner manual



8 8.2 ENVIROGREEN SLIMLINE HEATPAC - PARTS

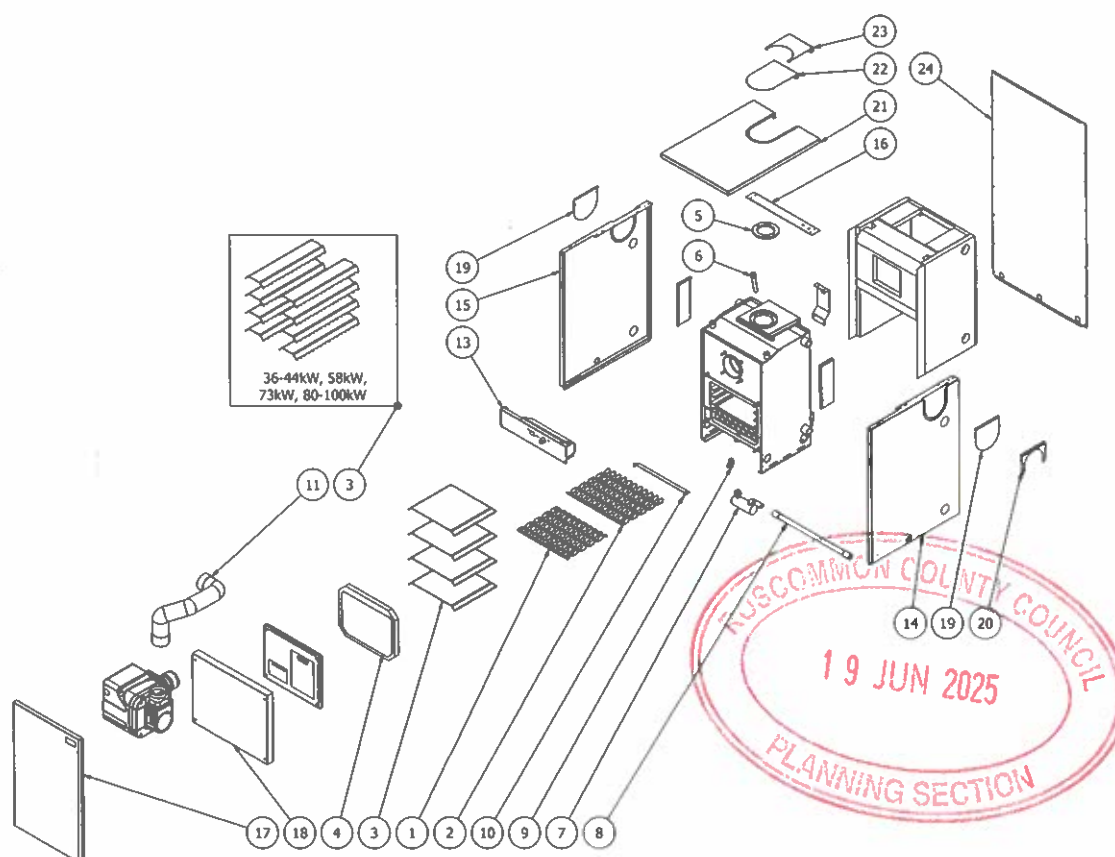


No.	Qty	Description	12-20kW	20-26kW	26-35kW
1	4	Tube baffle	BA110907	BA110907	BA110907
2	5	Tube baffle single	BA110908	BA110908	BA110908
3	4	Smoke baffle	BA212022	BA212028	BA212122
4	1	Duroboard	ACC000DDS	ACC000DDS	ACC000DDS
5	1	Flue gasket	ACC000FRG	ACC000FRG	ACC000FRG
6	1	Stat 3 pocket	ACC003PKT	ACC003PKT	ACC003PKT
7	1	Condensate trap	ACC000TRP	ACC000TRP	ACC000TRP
8	1	Condensate hose	ACC000FLX	ACC000FLX	ACC000FLX
9	1	Drain cock	ACC012DRC	ACC012DRC	ACC012DRC
10	1	Heat deflector	ACC000HTD	ACC000HTD	ACC000HTD
13	1	Control panel	-	-	-
	1	Dual thermostat	ACC000THR	ACC000THR	ACC000THR
	1	Frost stat	ACC000TDF	ACC000TDF	ACC000TDF
	1	Over-run stat	ACC000EAS	ACC000EAS	ACC000EAS
14	1	Casing right side	ACP002SLM	ACP002SLM	ACP002SLM
15	1	Casing left side	ACP0035SLM	ACP0035SLM	ACP0035SLM
16	1	Casing front	ACP0045SLM	ACP0045SLM	ACP0045SLM
17	1	Casing top	ACP005SLM	ACP005SLM	ACP005SLM
18	1	Casing back	ACP006SLM	ACP006SLM	ACP006SLM
19	1	Casing flue outlet	ACP106SLM	ACP106SLM	ACP106SLM
20	1	Flue kit	HPF035SLM	HPF035SLM	HPF035SLM
21	1	Terminal guard	ACC000CTG	ACC000CTG	ACC000CTG



No.	Qty	Description	12-18kW	12-20kW	20-26kW	26-35kW	36-44kW	58kW	73kW	80-100kW
1	-	Tube baffle	BA110907	BA110907	BA110907	BA110907	BA111503	BA111503	BA111503	BA111503
2	-	Tube baffle single	BA110908	BA110908	BA110908	BA110908	BA111502	BA111502	BA111502	BA111502
3	4	Smoke baffle	BA212809	BA212022	BA212028	BA212122	BA211651	BA211640	BA211501	BA212419
4	1	Duroboard	ACC000DDS	ACC000DDS	ACC000DDS	ACC000DDS	315447	315447	315448	315449
	1	Door seal	-	-	-	-	ACC044GRA	ACC044GRA	ACC073GRA	ACC073GRA
	1	Door duroboard	-	-	-	-	ACC044GSK	ACC044GSK	ACC073GSK	ACC073GSK
5	1	Flue gasket	ACC000FRG	ACC000FRG	ACC000FRG	ACC000FRG	ACC044FRG	ACC044FRG	ACC073FRG	ACC100FRG
6	1	Stat 3 pocket	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT
7	1	Condensate trap	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP
8	1	Condensate hose	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX
9	1	Drain cock	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC
10	1	Heat deflector	ACC015HTD	ACC000HTD	ACC000HTD	ACC000HTD	ACC044HTD	ACC044HTD	ACC073HTD	ACC100HTD
11	1	Air hose	ACC000SSH	ACC000SSH	ACC000SSH	ACC000SSH	ACC000LSH	ACC000LSH	ACC000LSH	ACC000LSH
13	1	Dual thermostat	ACC000DST	ACC000DST	ACC000DST	ACC000DST	ACC000DST	ACC000DST	ACC000DST	ACC000DST
14	1	Casing right side	ACP002POP	ACP002POP	ACP002POP	ACP002POP	ACP002PO3	ACP002PO3	ACP002PO4	ACP002PO5
15	1	Casing left side	ACP003POP	ACP003POP	ACP003POP	ACP003POP	ACP003PO3	ACP003PO3	ACP003PO4	ACP003PO5
16	1	Casing back	ACP006PO2	ACP006POP	ACP006POP	ACP006POP	ACP006PO3	ACP006PO3	ACP006PO4	ACP006PO5
17	1	Casing burner panel	ACP104PO2	ACP104POP	ACP104POP	ACP104POP	ACP104PO3	ACP104PO3	ACP104PO4	ACP104PO5
18	1	Casing front	n/a	n/a	n/a	n/a	n/a	n/a	n/a	ACP004POP

8.4 ENVIROGREEN KITCHEN - PARTS



No.	Qty	Description	12-18kW	12-20kW	20-26kW	26-35kW	36-44kW	58kW	73kW	80-100kW
1	-	Tube baffle	BA110907	BA110907	BA110907	BA110907	BA111503	BA111503	BA111503	BA111503
2	-	Tube baffle single	BA110908	BA110908	BA110908	BA110908	BA111502	BA111502	BA111502	BA111502
3	4	Smoke baffle	BA212809	BA212022	BA212028	BA212122	BA211651	BA211640	BA211501	BA212419
4	1	Duroboard	ACC000DDS	ACC000DDS	ACC000DDS	ACC000DDS	315447	315447	315448	315449
1		Door seal	-	-	-	-	ACC044GRA	ACC044GRA	ACC073GRA	ACC0100GRA
1		Door duroboard	-	-	-	-	ACC044GSK	ACC044GSK	ACC073GSK	ACC0100GSK
5	1	Flue gasket	ACC000FRG	ACC000FRG	ACC000FRG	ACC000FRG	ACC044FRG	ACC044FRG	ACC073FRG	ACC100FRG
6	1	Stat 3 pocket	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT	ACC003PKT
7	1	Condensate trap	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP	ACC000TRP
8	1	Condensate hose	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX	ACC000FLX
9	1	Drain cock	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC	ACC012DRC
10	1	Heat deflector	ACC015HTD	ACC000HTD	ACC000HTD	ACC000HTD	ACC044HTD	ACC044HTD	ACC073HTD	ACC100HTD
11	1	Air hose	ACC000SSH	ACC000SSH	ACC000SSH	ACC000SSH	ACC000LSH	ACC000LSH	ACC000LSH	ACC000LSH
13	1	Control panel	-	-	-	-	-	-	-	-
1		PC board	ACC000ECG	ACC000ECG	ACC000ECG	ACC000ECG	n/a	n/a	n/a	n/a
1		High limit stat	ACC000LMT	ACC000LMT	ACC000LMT	ACC000LMT	n/a	n/a	n/a	n/a
1		Boiler thermistor	ACC000WBP	ACC000WBP	ACC000WBP	ACC000WBP	n/a	n/a	n/a	n/a
14	1	Casing right side	ACP002CKI	ACP002CKI	ACP002CKI	ACP002CKI	ACP002CK3	ACP002CK3	ACP002CK4	ACP002CK5
15	1	Casing left side	ACP003CKI	ACP003CKI	ACP003CKI	ACP003CKI	ACP003CK3	ACP003CK3	ACP003CK4	ACP003CK5
16	1	Casing back support	ACP006CK2	ACP006CKI	ACP006CKI	ACP006CKI	ACP006CK3	ACP006CK3	ACP006CK4	ACP016CK5
17	1	Casing front	ACP004CK2	ACP004CKI	ACP004CKI	ACP004CKI	ACP004CK3	ACP004CK3	ACP004CK4	ACP004CK5
18	1	Casing door panel	n/a	n/a	n/a	n/a	n/a	n/a	n/a	ACP011CK5
19	2	Side flue blank	ACP007CCE	ACP007CCE	ACP007CCE	ACP007CCE	n/a	n/a	n/a	n/a
20	1	Side half moon blank	ACP008CCE	ACP008CCE	ACP008CCE	ACP008CCE	n/a	n/a	n/a	n/a
21	1	Casing top	ACP005CK2	ACP005CKI	ACP005CKI	ACP005CKI	ACP005CK3	ACP005CK3	ACP005CK4	ACP005CK5
22	1	Top flue blank	ACP009CKI	ACP009CKI	ACP009CKI	ACP009CKI	ACP009CK3	ACP009CK3	ACP009CK4	ACP009CK5
23	1	Top half moon blank	ACP010CKI	ACP010CKI	ACP010CKI	ACP010CKI	ACP010CK3	ACP010CK3	ACP010CK4	-
24	1	Casing back	n/a	n/a	n/a	n/a	n/a	n/a	n/a	ACP006CK5

For burner parts refer to burner manual



9 9.1 ENVIROGREEN HEATPAC - WIRING

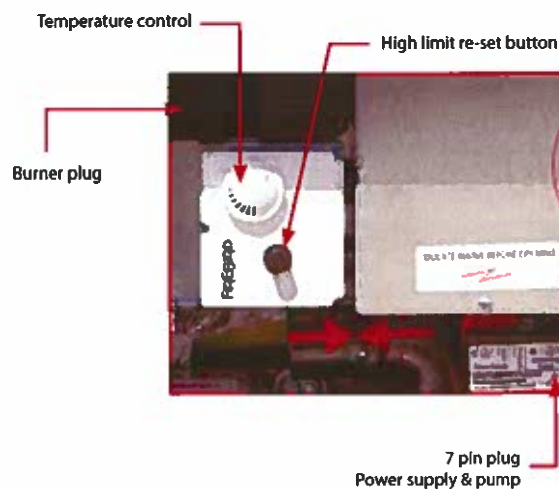
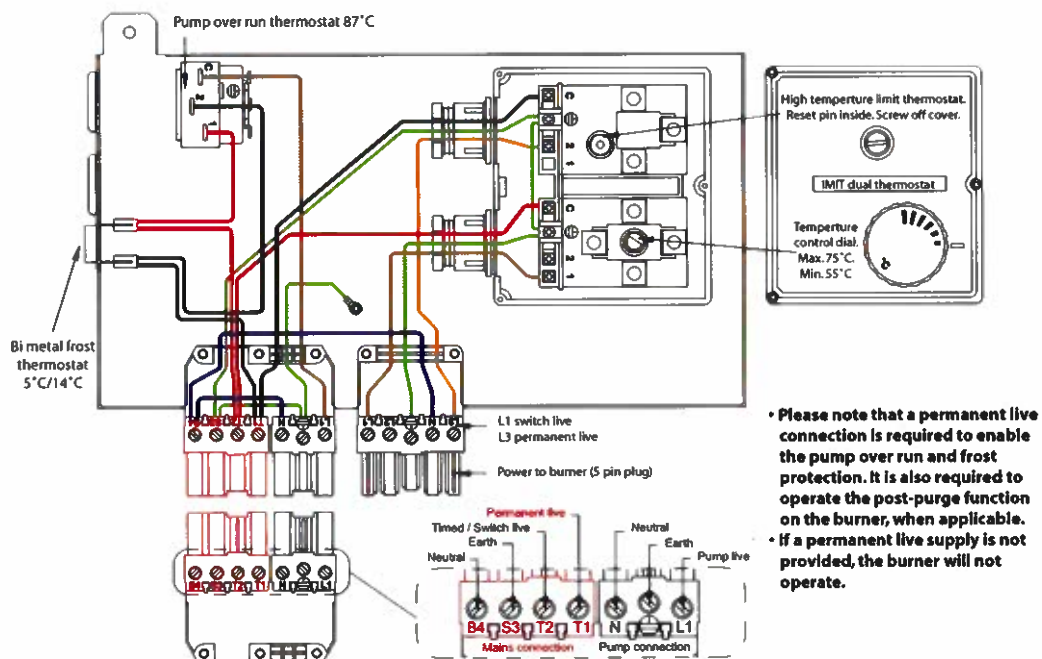
ELECTRICAL SUPPLY

230V 50Hz mains electric supply protected with a 5A 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 5A fuse, positioned somewhere close to the boiler. A 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.



Use heat resistant cable. Protect supply with 5A fuse.

9 9.2 ENVIROGREEN SLIMLINE HEATPAC - WIRING

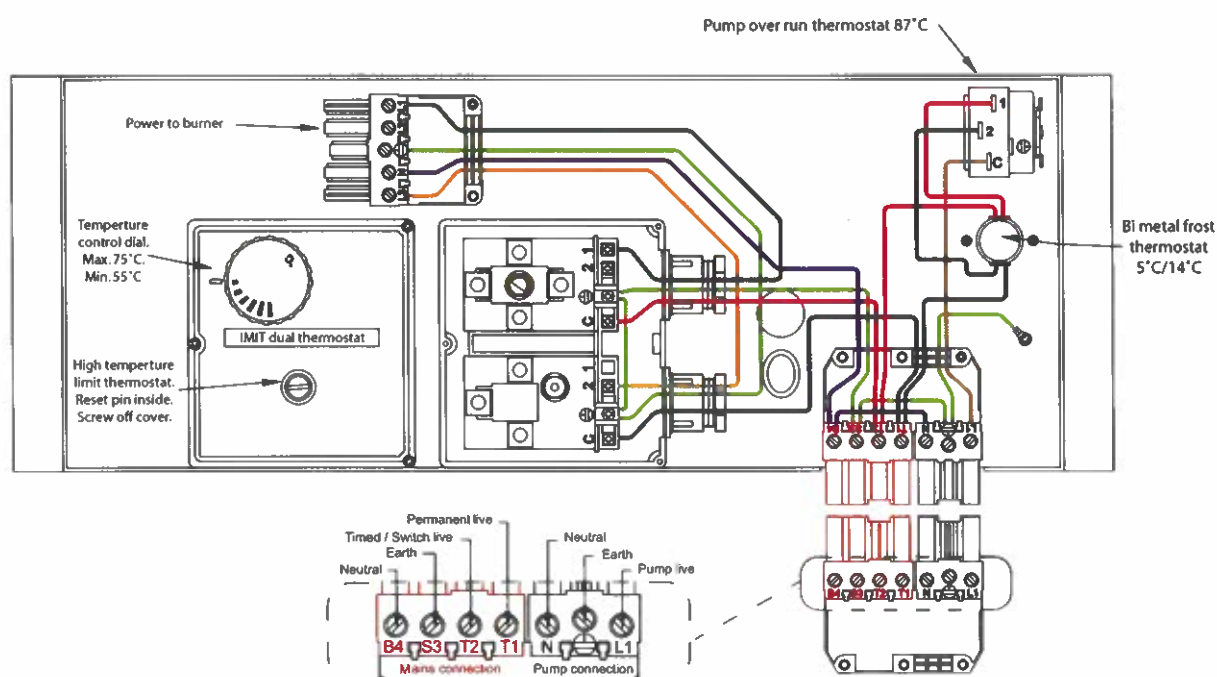
ELECTRICAL SUPPLY

230V 50Hz mains electric supply protected with a 5A 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 5A fuse, positioned somewhere close to the boiler. A 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.



Use heat resistant cable. Protect supply with 5A fuse.

9 9.3 ENVIROGREEN POPULAR - WIRING

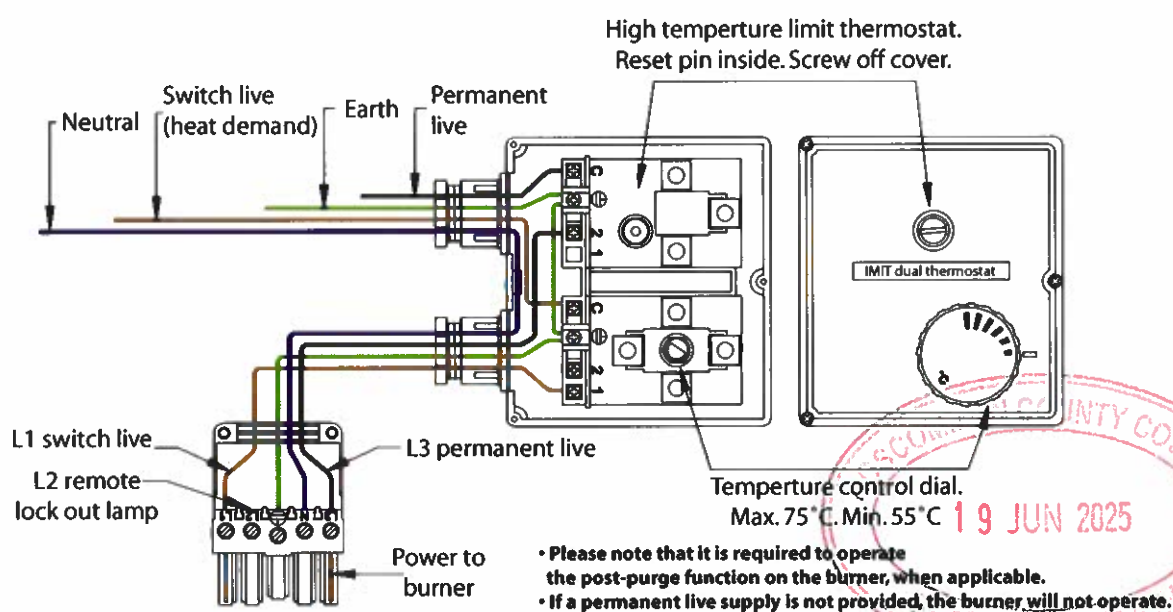
ELECTRICAL SUPPLY

230V 50Hz mains electric supply protected with a 5A 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 5A fuse, positioned somewhere close to the boiler. A 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.



IMPORTANT

When connecting the mains supply to this unit ensure that:

- 1 Double insulated heat resistant cable is used.
- 2 No single insulated cable is exposed at connection points on the (thermostat, burner, plug and socket).
- 3 All relevant lids and covers are properly replaced and secured correctly.
- 4 A permanent power supply (not timed) should be available at boiler location.

This can be used for a frost thermostat and or an over heat thermostat, should either or both be needed.

Use heat resistant cable. Protect supply with 5A fuse.

9.4 ENVIROGREEN KITCHEN - WIRING

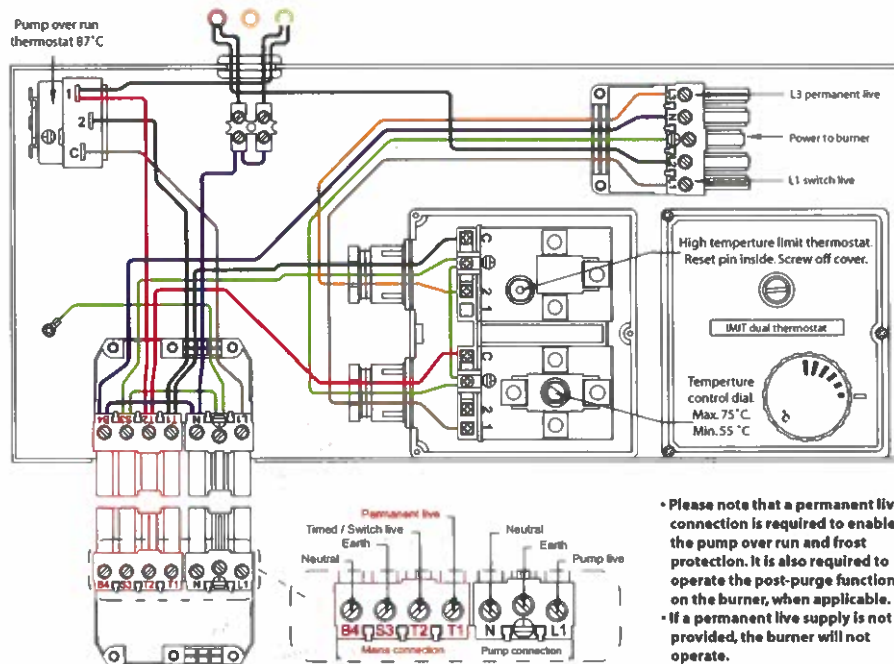
ELECTRICAL SUPPLY

230V 50Hz mains electric supply protected with a 5A fuse.

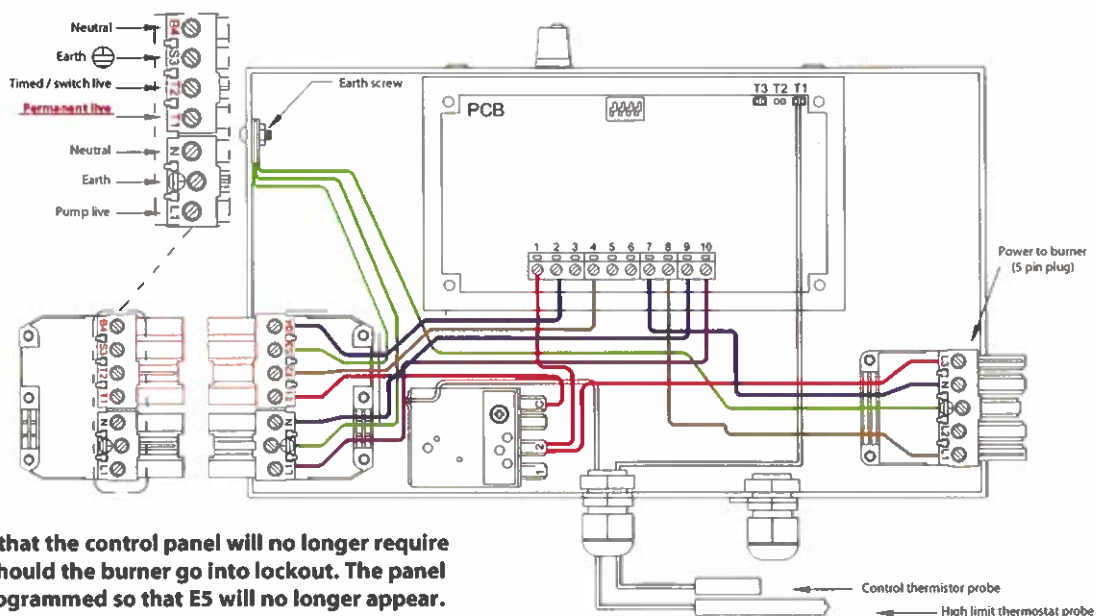
This appliance must be earthed.

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 5A fuse, positioned somewhere close to the boiler. A 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.



KITCHEN - ELECTRONIC CONTROLLER - WIRING



Please note that the control panel will no longer require re-setting, should the burner go into lockout. The panel has been programmed so that E5 will no longer appear.

Use heat resistant cable. Protect supply with 5A fuse.

10 TERMS & CONDITIONS OF WARRANTY

Firebird products are designed and manufactured to give many years of trouble free service.

The terms laid down in the warranty must be adhered to.

- ◆ Firebird provides a comprehensive, conditional warranty of 5 years on the boiler shell and 2 years on all other parts from date of installation, provided installation has occurred within 12 months from date of purchase.
- ◆ The 5 year boiler shell warranty consists of parts and labour for the first 3 years and parts only for years 4 and 5.
- ◆ The warranty will only apply if the boiler is commissioned by a competent, qualified engineer, preferably OFTEC registered and is serviced annually thereafter.
- ◆ Please ensure that the commissioning certificate within the Boiler Passport is fully completed by a competent, qualified engineer, preferably OFTEC registered and is returned to Firebird within 28 days of complete installation and commissioning. The Boiler Passport is included with every boiler and can also be completed online at the following link:
<http://www.firebird.ie/index.php/boiler-passport.html>.
- ◆ Correct commissioning will ensure that your boiler is set to operate at its maximum fuel efficiency.
- ◆ Consumable components, the nozzles and the oil hose are excluded.

TERMS & CONDITIONS OF WARRANTY

1. Warranty implies that the product shall be free from defective parts or workmanship for a period of warranty cover, which begins from the date of installation.
2. All claims under the warranty programme must be within the time limits stated.
3. Installation and commissioning of the product must be in accordance with (a) instruction/technical manuals (b) all relevant standards and codes of practice.
4. A competent, qualified engineer, preferably OFTEC registered, using the correct installation and test equipment must carry out installation and commissioning.
5. This warranty does not cover special, incidental or consequential damages, injury to persons or property, or any other consequential loss.

6. Servicing of the boiler is to be carried out annually to maintain the manufacturer's warranty.
7. Firebird accepts no liability in respect of any defect arising from incorrect installation, negligence, fair wear and tear, misuse, alteration or repair by unqualified persons.
8. Firebird will not accept any liability in respect of any defect occurring to the product due to limescale build-up and or low return water temperature.
9. The warranty programme extends to reasonable labour costs EXCEPT in the case of a 5 year warranty period whereby any valid claim made after 3 years will not include labour costs.
10. Firebird's prior authorisation must be obtained before examination or repair of the product takes place.
11. Firebird will examine all claims made under the warranty programme and for any claims that are deemed invalid, the costs incurred will be borne by the owner.
12. The warranty programme only applies where the product was used for normal domestic heating purposes.
13. Any defective part removed under any or all of the warranty programmes **MUST** be returned to Firebird.
14. If this appliance is installed in a pressurised system, failure to correctly size the expansion vessel may damage the boiler and invalidate the warranty.
15. A full set of warranty conditions and terms can be found on the Firebird website.

STATUTORY RIGHTS OF THE OWNER ARE NOT
AFFECTED BY THIS WARRANTY

ErP A Rated

Model Identifier	Energy efficiency class	Rated heat output	Seasonal Efficiency Base Model	Annual energy consumption	Sound power level	Auxiliary Electrical Consumption		
		kW	%	GJ	dB	Full Load elmax (kW)	Part Load elmin (kW)	Stand by Mode PSB (kW)
ENVIROGREEN KITCHEN								
12-18kW	A	18	91.59	56.60	45	0.187	0.057	0.003
12-20kW	A	20	92.53	62.20	46	0.178	0.062	0
20-26kW	A	26	92.57	80.90	47	0.184	0.046	0
26-35kW	A	35	92.56	108.90	52	0.165	0.055	0
36-44kW	A	44	93.84	135.00	52	0.160	0.055	0
58kW	A	58	93.50	158.00	52	0.166	0.0567	0
ENVIROGREEN POPULAR								
12-18kW	A	18	91.59	56.60	45	0.187	0.057	0.003
12-20kW	A	20	92.53	62.20	46	0.178	0.062	0
20-26kW	A	26	92.57	80.90	47	0.184	0.046	0
26-35kW	A	35	92.56	108.90	52	0.165	0.055	0
36-44kW	A	44	93.84	135.00	52	0.160	0.055	0
58kW	A	58	93.50	158.00	52	0.166	0.0567	0
ENVIROGREEN HEATPAC								
12-18kW	A	18	91.59	56.60	N/A	0.187	0.057	0.003
12-20kW	A	20	92.53	62.20	N/A	0.178	0.062	0
20-26kW	A	26	92.57	80.90	N/A	0.184	0.046	0
26-35kW	A	35	92.56	108.90	N/A	0.165	0.055	0
36-44kW	A	44	93.84	135.00	N/A	0.160	0.055	0
58kW	A	58	93.50	158.00	N/A	0.166	0.0567	0
ENVIROGREEN SLIMLINE HEATPAC								
12-20kW	A	20	92.53	62.20	N/A	0.178	0.062	0
20-26kW	A	26	92.57	80.90	N/A	0.184	0.046	0
26-35kW	A	35	92.56	108.90	N/A	0.165	0.055	0



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on Firebird products please
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www. firebird.uk.com



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Our policy is one of continual development
and we therefore reserve the right to change
without prior notice the specification of
our products at any time and be without
obligation to make similar changes in
products previously produced.

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