

LOGIC FLUE & ACCESSORIES GUIDE.



LOGIC COMBI C LOGIC COMBI ESP1 LOGIC+ COMBI C

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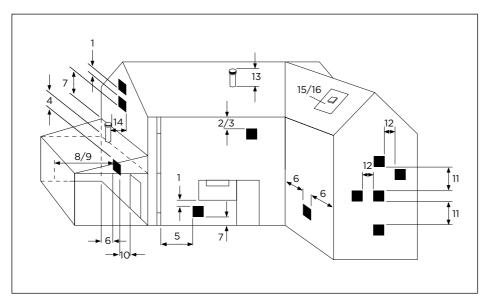
This manual is for guidance only and must be read in conjunction with the Installation and Servicing instructions supplied with the boiler

FLUE SITING.

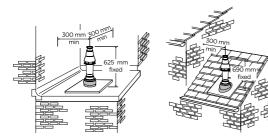
There are a substantial number of flue options available with the Ideal ranges, giving excellent siting flexibility for almost all applications.

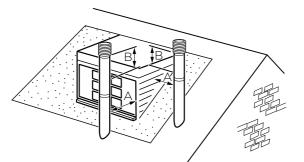
The range of options include standard and telescopic flues as well as roof flue and powered vertical flue options.

To ensure siting issues are kept to a minimum, High Level Flue Outlet kit options and Flue Deflector kits are available.

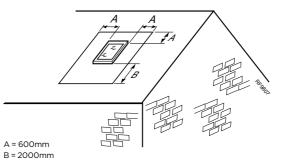


| FLUE TERMINAL POSITION | | MIN. SPACING |
|--|--------------------------------|----------------------------|
| Directly below, above or along opening window, air vent or othe opening. | | 300mm (12") |
| 2. Below guttering, drain pipes o | r soil pipes. BS5440-1 2008 | 25mm (1")* 75mm (3") |
| 3. Below eaves. | BS5440-1 2008 | 25mm (1")* 200mm (8") |
| 4. Below balconies or car port ro | oof. BS5440-1 2008 | 25mm (1")* 200mm (8") |
| 5. From vertical drain pipes or so | oil pipes. BS5440-1 2008 | 25mm (1")* 150mm (6") |
| 6. From an internal or external or boundary alongside the terminal | | 25mm (1")* 300mm (12") |
| 7. Above ground, roof or balcony | y level. | 300mm (12") |
| 8. From a surface or a boundary terminal. | facing a | 600mm (24") |
| 9. From a terminal facing a term | inal. | 1200mm (48") |
| 10. From an opening in a car por window) into dwelling. | t (eg. door or | 1200mm (48") |
| 11. Vertically from a terminal on t | he same wall. | 1500mm (60") |
| 12. Horizontally from a terminal of | on the wall. | 300mm (12") |
| | | |
| VERTICAL FLUES | | |
| 13. Above the roof pitch with roo angles. Above flat roof. | of slope of all | 300mm (12") 300mm (12") |
| 14. From a single wall face. From corner walls. | | 300mm (12") 300mm (12") |
| 15. Below velux window. | | 2000mm (79") |
| 16. Above or side of velux windo | W. | 600mm (24") |





If chimney penetrates dotted area such that A is less than 300mm, B shall not be less than 300mm.



The flue terminal shall not penetrate the shaded area of the roof.

FLUE ACCESSORIES LOGIC COMBIC, ESP1 & LOGIC+ COMBIC.

Total Maximum Permissible Horizontal Concentric Flue Length

combining both 'B' Packs and 'D' Packs (Measured from centreline of the turret to the outside of the wall terminal)

| 24 kW Appliances | Total Maximum: 9 metres - minus any flue kit options or bends |
|------------------|---|
| 30 kW Appliances | Total Maximum: 8 metres - minus any flue kit options or bends |
| 35 kW Appliances | Total Maximum: 6 metres - minus any flue kit options or bends |

Total Maximum Permissible Vertical Flue Length

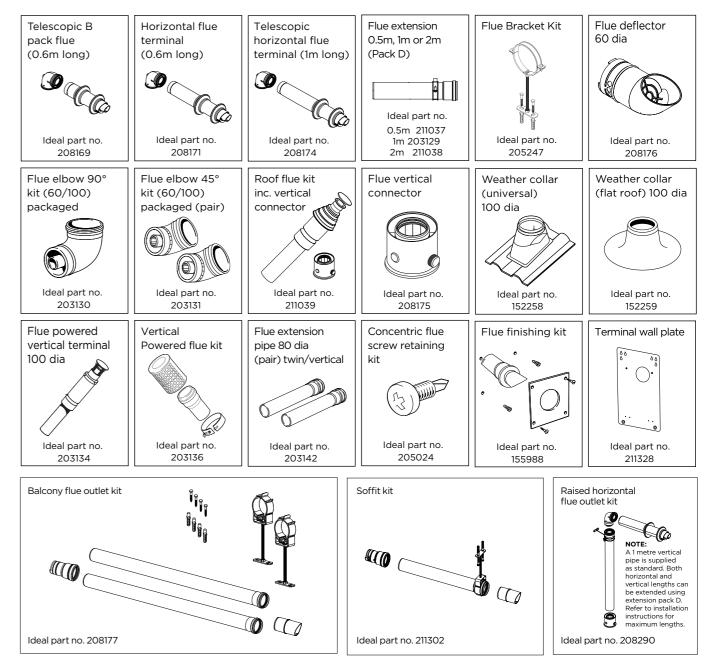
combining both Roof Terminal and 'D' Packs

| 24, 30 & 35kW Appliances | Total Maximum: 7 |
|--------------------------|--|
| Powered Vertical Flue | |
| | Total Maximum: 5 additional details |

90° Elbow Kit 60/100 - (Equivalent flue length resistance = 1M) 45° Elbow Kit 60/100 - (Equivalent flue length resistance = 0.6M)

Minimum Horizontal Flue Lengths (Centre line of turret to outside of wall terminal) Telescopic Flue 'B' Pack = 400mm

Horizontal Flue terminal (600mm long) 'B' Pack = 285mm



* Only one reduction down to 25mm is allowable per installation otherwise BS5440-1 2008 dimensions must be followed.

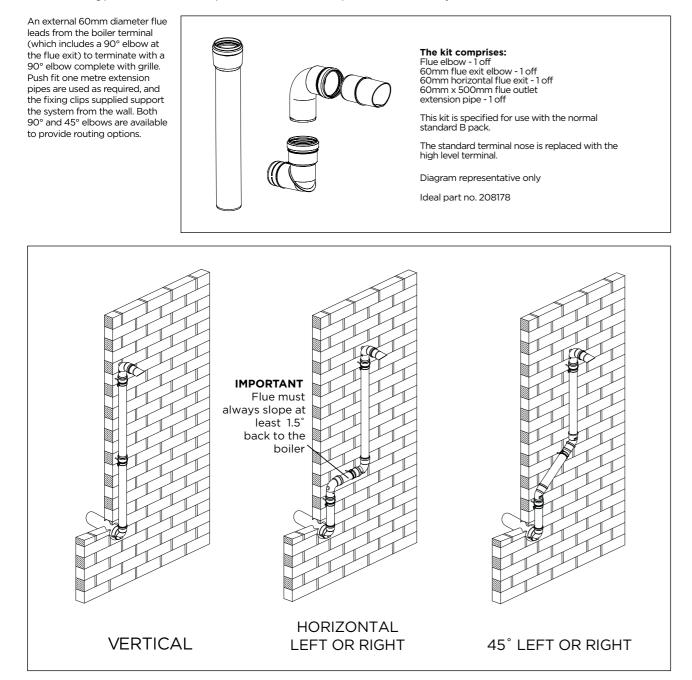
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7.5 Metres - minus any bends

5 Metres - Concentric Flue and 17m flue pipe only. For s refer to the powered Vertical Instructions

ACCESSORIES LOGIC COMBIC, ESP1 & LOGIC+ COMBIC HIGH LEVEL FLUE OUTLET KIT.

These easy to install kits allow the boiler flue outlet to be extended external to the building, upwards to provide a flue exit at high level, overcoming problems associated with plume emission. The kit is simple to retrofit if necessary.



If additional elbows to those supplied in the High Level Flue Outlet kit are used, deduct the following resistances (metres) from the maximum boiler flue length.

| RESISTANCE | METRES |
|------------------|--------|
| 90° elbow | 1.4 |
| 45° elbow (pair) | 1.25 |

FLUE OPTIONS LOGIC COMBIC, ESP1 & LOGIC+ COMBIC.

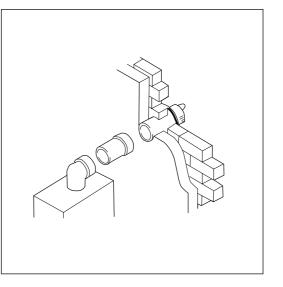
IMPORTANT. The boiler must be installed in a vertical position in accordance to the installation instructions.

FLUE KITS

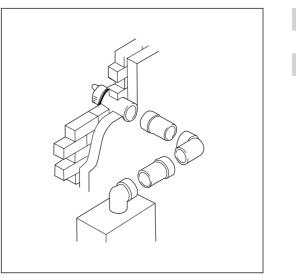
wall seals.

piece flue incorporating a terminal and rubber wall seals Horizontal Flue Terminal (1000mm long) 'B' Pack - contains: Flue turret, telescopic flue incorporating a terminal, rubber wall seals and instructions. The flue system incorporates a removable flue outlet nose that utilises a push fit location system. whole 'B' pack terminal.

HORIZONTAL CONCENTRIC 100MM DIAMETER



HORIZONTAL FLUE WITH 1 X 90° ELBOW



NOTE: Please refer to the installation and service manual for assistance in calculating flue lengths.

| | | the |
|---|-------------------|-----|
| FLUE | IDEAL PART NO. | ma |
| High level flue outlet kit | 208178 | |
| Flue extension kit 60 dia (1m) - for high level flue outlet kit | 203228 | R |
| High level 90° elbow | 203229 | 9 |
| High level 45° elbow | 203230 | 4 |

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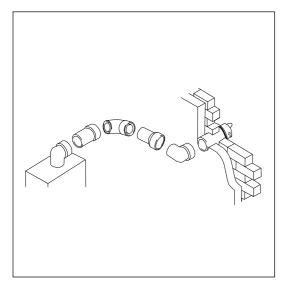
- Telescopic Flue 'B' Pack contains: Flue turret, telescopic flue incorporating a terminal and rubber
- Horizontal Flue Terminal (600mm long) 'B' Pack contains: Flue turret, non telescopic single
- This enables the installation of a Deflector, High level or Balcony flue kit without the removal of the

| FLUE | PART NO. |
|--------------------------------------|----------|
| Horizontal flue terminal (0.6m long) | 208171 |
| Flue extension 1m (pack D) | 203129 |

| FLUE | PART NO. |
|--------------------------------------|----------|
| Horizontal flue terminal (0.6m long) | 208171 |
| Flue extension 1m (pack D) | 203129 |
| Flue 90° elbow kit (60/100) | 203130 |

FLUE OPTIONS LOGIC COMBI C, ESP1 & LOGIC+ COMBI C.

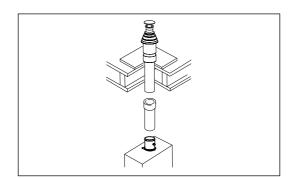
HORIZONTAL FLUE WITH 2 X 90° ELBOW



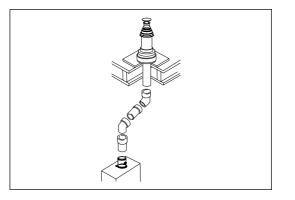
| FLUE | PART NO. |
|--------------------------------------|----------|
| Horizontal flue terminal (0.6m long) | 208171 |
| Flue extension 1m (pack D) | 203129 |
| Flue 90° elbow kit (60/100) | 203130 |

FLUE OPTIONS LOGIC COMBI C, ESP1 & LOGIC+ COMBI C.

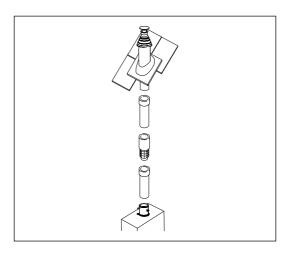
ROOF FLUE SYSTEM



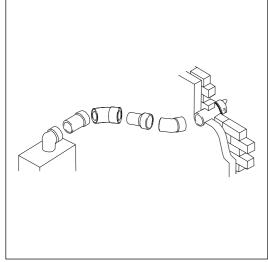
ROOF FLUE SYSTEM WITH 2 X 45° ELBOW



POWERED VERTICAL FLUE SYSTEM



HORIZONTAL FLUE WITH 2 X 45° ELBOW



| FLUE | PART NO. |
|--------------------------------------|----------|
| Horizontal flue terminal (0.6m long) | 208171 |
| Flue extension 1m (pack D) | 203129 |
| Flue elbow 45° kit (60/100) | 203131 |

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| FLUE | PART NO. |
|---|----------|
| Roof flue kit (with vertical connector) | 211039 |
| Flue extension 1m (pack D) | 203129 |
| Universal weather collar (suits any roof pitch) | 152258 |
| Flat roof weather collar | 152259 |

| FLUE | PART NO. |
|---|----------|
| Roof flue kit (with vertical connector) | 211039 |
| Flue extension 1m (pack D) | 203129 |
| Flue elbow 45° kit (60/100) | 203131 |
| Universal weather collar (suits any roof pitch) | 152258 |
| Flat roof weather collar | 152259 |

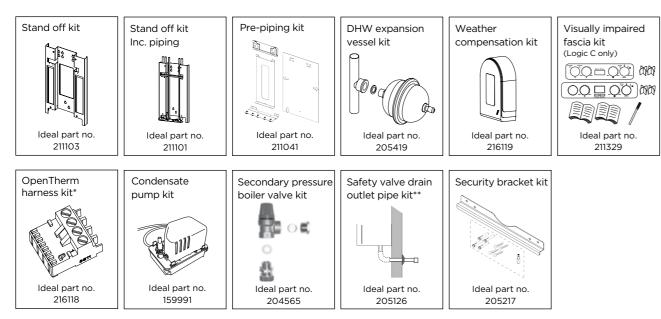
| FLUE | PART NO. |
|---|----------|
| Vertical powered flue kit | 203136 |
| Flue vertical connector | 208175 |
| Flue powered vertical terminal 100 dia | 203134 |
| Universal weather collar (suits any roof pitch) | 152258 |
| Flat roof weather collar | 152259 |
| Extension pack D | 203129 |
| Flue extension pipe 80 dia (pair) ⁺ | 203142 |

NOTE: Allows the boiler to be sited in a position where no access to an outside wall is available. Permits the concentric flue to run vertically from the top of the boiler and obtain air supply within the roof space, the secondary flue continuing to the external flue terminal. Offset applications are permissible though the maximum length is reduced.

Where extension D packs are cut to length, the flared end connector must be retained.

⁺ Secondary Flue extension pipes are available in 0.5, 1 and 2 metre lengths.

INSTALLATION ACCESSORIES



* Logic C only. Supplied with Logic ESP1 & Logic+ as standard

** Supplied with Logic+ Combi C as standard

WHAT IS THE ErP (ENERGY RELATED **PRODUCTS) DIRECTIVE?**

WHY HAS ErP HAPPENENED?

The ErP directive has been designed to help the EU achieve its target to reduce energy use by 20% and increase the share of renewable energies by 20% by 2020. ErP will help consumers choose the most energy efficient products available by comparing the product energy efficiency using the new energy labelling.

HOW WILL ErP AFFECT INSTALLERS?

Installers will have to show the energy efficiency of the products they recommend & complete a package label on installation.

WHAT IS THE 'PACKAGE LABEL'?

The ErP package label shows the efficiency of the boiler and/or controls, solar devices, etc if all installed together. Installers complete a package label after installation of one or more products (e.g. boiler, control + cylinder).

HOW IS THE PACKAGE LABEL COMPLETED?

The package label is completed by adding together the seasonal efficiencies of all products installed in the system. All product guides will show a 'product fiche' which will have all of the information needed to complete the package label. In addition, our online system efficiency calculator and package label generation tool features 'pick lists' containing all Ideal Boilers and controls, as well as general control classes in case our installers are fitting a non-Ideal brand control.

COMBI CONTROLS.

PROGRAMMABLE THERMOSTATS AND TIMERS

Here at Ideal we believe that choosing the right control to meet the needs of your customer is almost as important as choosing the right boiler; this is why the Logic Combi C, ESP1 & Logic+ Combi C ranges are fully compatible with a range of thermostats and timers for ultimate home comfort.



MECHANICAL TIMER.

(Part No. 215390) ErP: Class 0. no additional efficiency.

Simple heating control through a plug in analogue timer. 24 hour tappet operation with off/timed/continuous periods.



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RF ELECTRONIC PROGRAMMABLE THERMOSTAT.

(Part No. 216131) ErP: Class 5, 3% additional efficiency

Wireless radio frequency (RF) digital timer and room thermostat providing heating control. 7 day, plain text operating and diagnostics display. Automatic summer/winter time update.



WEATHER COMPENSATION.

(Part No. 216119) ErP: Class 2, 2% additional efficiency

Provides flow temperature adjustment to the central heating system in relation to the outside temperature to give improved heating system efficiency and savings to the customer

LPG CONVERSION KITS.

With kits available for natural gas to LPG, and LPG to natural gas, these quick to install accessories provide a simple and pragmatic solution without the need for products to be adjusted.

Each kit contains specific components for each required boiler type.

FEATURES.

- Available for all product types (combi, heat & system)
- Suitable for most property sizes
- Fast & simple conversion with preset gas valve for no product adjustment



SERVICE & SUPPORT.



You can be confident to know that you're partnering with a British manufacturer that's supported by a dedicated national service team, delivering help and advice to you and your customers throughout the year.

Our rigorous research and development procedures and manufacturing quality control checks, ensures that all of our products are produced to the highest standards; delivering total comfort and peace of mind.

The call centre team, based in Hull, East Yorkshire, is comprehensively trained to provide tailored advice. All calls will be answered by trained members of staff who will take ownership of the call. All of our trained staff are on-hand to assist with enquiries or help diagnose and resolve faults over the telephone. Should that not be possible, we will arrange an appointment for one of our engineers to visit. Our dedicated team of engineers are fully trained to exacting standards and are all Gas Safe registered.

SPECIFICATION.

| BOILER MODEL | LOGIC COMBI C24 | LOGIC COMBI C30 | LOGIC COMBI ESP1 35 | LOGIC+ COMBI C30 | |
|---------------------|-----------------------|-----------------------|---------------------------|------------------------|--|
| Min. output (kW) | 4.8 | 6.1 | 7.1 | 6.1 | |
| Max. output (kW) | 24.2 | 24.2 | 24.2 | 24.2 | |
| Max DHW output (kW) | 24.2 | 30.3 | 35.3 | 30.3 | |

| NG-LPG CONVERSION KIT | PRODUCT CODE | LPG-NG CONVERSION KIT | PRODUCT CODE |
|--------------------------|-----------------|--------------------------|-----------------|
| LOGIC COMBI C24 | 215738 | LOGIC COMBI C24 | 178994 |
| LOGIC COMBI C30 | 215739 | LOGIC COMBI C30 | 178995 |
| LOGIC COMBI ESP1 35 | 215752 | LOGIC COMBI ESP1 35 | 179007 |
| LOGIC+ COMBI C30 | 215740 | LOGIC+ COMBI C30 | 178996 |

NATURAL GAS TO LPG KIT CONTENTS EACH KIT COMPRISES:

- Gas valve (preset operation)
- Burner injector
- Data plate labels
- Instructions

The Gas valve is supplied preset to enable a quick and easy installation whilst ensuring the safety benefits are retained during conversion.

Two data plate labels are provided in the kits inclusive of a new data plate providing LPG details and a label to retain boiler serial number identity.

CONTACT US

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TECHNICAL

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JOIN THE CONVERSATION @ideal_heating

At Ideal, we are committed to delivering the highest levels of customer service. With over a century of experience in the heating industry, we know how important confidence and trust is to our customers.

GREAT BOILERS FROM GREAT BRITAIN.





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