

LOGIC FLUE & ACCESSORIES GUIDE.



LOGIC COMBI C LOGIC COMBI ESP1 LOGIC+ COMBI C LOGIC SYSTEM S LOGIC+ SYSTEM S
LOGIC HEAT H
LOGIC+ HEAT H
LOGIC CODE COMBI ESP1

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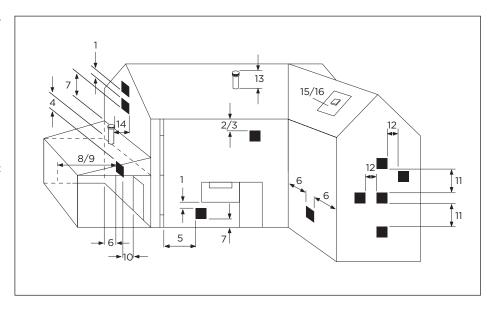
This manual is for guidance only and must be read in conjunction with the Installation and Servicing instructions supplied with the boiler

FLUE SITING.

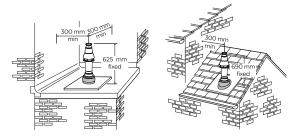
There are a substantial number of flue options available with the Ideal ranges, giving excellent siting flexibility for almost all applications.

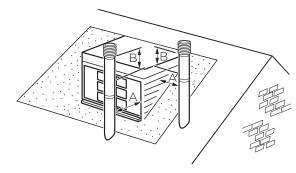
The range of options include standard and telescopic flues as well as roof flue and powered vertical flue options.

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

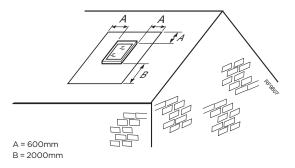


FLUE TERMINAL POSITION		MIN. SPACING
1. Directly below, above or all opening window, air vent or opening.		300mm (12")
2. Below guttering, drain pipe	es or soil pipes. BS5440-1 2008	25mm (1")* 75mm (3")
3. Below eaves.	BS5440-1 2008	25mm (1")* 200mm (8")
4. Below balconies or car por	rt roof. BS5440-1 2008	25mm (1")* 200mm (8")
5. From vertical drain pipes c	or soil pipes. BS5440-1 2008	25mm (1")* 150mm (6")
6. From an internal or externation boundary alongside the term		25mm (1")* 300mm (12")
7. Above ground, roof or bald	cony level.	300mm (12")
8. From a surface or a bound terminal.	ary facing a	600mm (24")
9. From a terminal facing a te	erminal.	1200mm (48")
10. From an opening in a car window) into dwelling.	port (eg. door or	1200mm (48")
11. Vertically from a terminal	on the same wall.	1500mm (60")
12. Horizontally from a termin	nal on the wall.	300mm (12")
VERTICAL FLUES		
13. Above the roof pitch with angles. Above flat roof.	roof 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 will	ndow.	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.

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

FLUE ACCESSORIES

LOGIC COMBI C, ESP1 & LOGIC+ COMBI C.

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 & 26 kW Appliances	Total Maximum: 9 metres - minus any flue kit options or bends
30 & 32 kW Appliances	Total Maximum: 8 metres - minus any flue kit options or bends
35 & 38 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 - 38 kW Appliances	Total Maximum: 7.5 Metres - minus any bends
Powered Vertical Flue	
24 - 38 kW Appliances	Example: 5 Metres – Concentric Flue and 17m flue pipe only. For additional configurations and details refer to the Powered Vertical instructions

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





Horizontal flue terminal (0.6m long)



Ideal part no. 208171

Telescopic horizontal flue terminal (1m long)



Ideal part no. 208174

Flue extension 0.5m, 1m or 2m (Pack D)



0.5m 211037 1m 203129 2m 211038





Ideal part no. 205247



Ideal part no. 208176



Ideal part no. 203130

Flue elbow 45° kit (60/100) packaged (pair)



Ideal part no. 203131

Vertical



211039

Flue vertical connector



Ideal part no 208175

Weather collar (universal) 100 dia



Ideal part no. 152258

Weather collar (flat roof) 100 dia



Ideal part no. 152259









Ideal part no. 203142

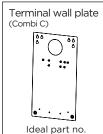
Concentric flue screw retaining kit



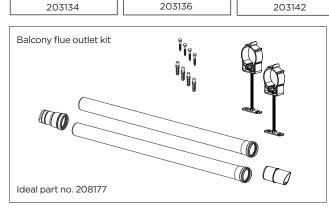
Ideal part no. 205024

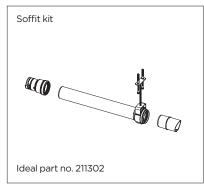


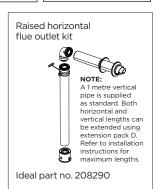
Ideal part no. 155988



211328







4 FLUE ACCESSORIES

LOGIC SYSTEM S, LOGIC+ SYSTEM S, LOGIC HEAT H & LOGIC+ HEAT H

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)

15, 18 & 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

Total Maximum Permissible Vertical Flue Length

combining both Roof Terminal and 'D' Packs

15, 18, 24 & 30kW Appliances	Total Maximum: 7.5 Metres - minus any bends
Powered Vertical Flue	
15, 18, 24 & 30kW Appliances	Example: 5 Metres - Concentric Flue and 17m flue pipe only. For additional configurations and details refer to the Powered Vertical instructions

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





Ideal part no. 208169

Horizontal flue terminal (0.6m long)



Ideal part no. 208171

Telescopic horizontal flue terminal (1m long)



Ideal part no 208174

Flue extension 0.5m, 1m or 2m (Pack D)



Ideal part no. 0.5m 211037 1m 203129 2m 211038

Flue Bracket Kit



Ideal part no. 205247

Flue deflector 60 dia

Ideal part no. 208176





Ideal part no. 203130

Flue elbow 45° kit (60/100) packaged (pair)



Ideal part no. 203131



Ideal part no. 211039

Flue vertical connector



Ideal part no.

Weather collar (universal) 100 dia



Ideal part no. 152258

Weather collar (flat roof) 100 dia



Ideal part no. 152259



Ideal part no. 203134



203136

Flue extension pipe 80 dia (pair) twin/vertical



Ideal part no. 203142

Concentric flue screw retaining kit



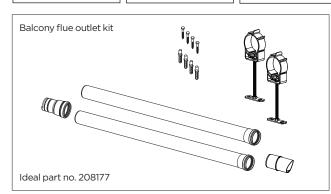
Ideal part no. 205024

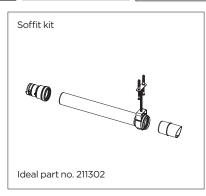


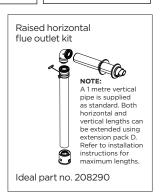
Ideal part no. 155988



206164 (Heat)





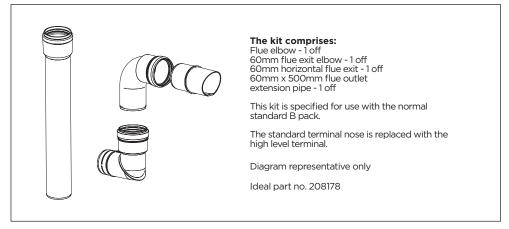


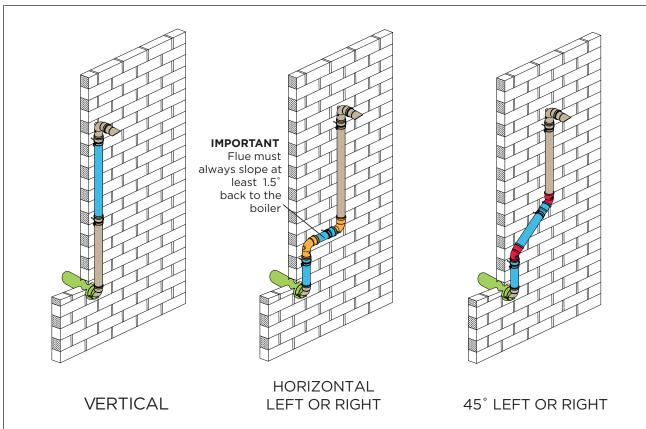
ACCESSORIES

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.

An external 60mm diameter flue leads from the boiler terminal (which includes a 90° elbow at the flue exit) to terminate with a 90° elbow complete with grille. Push fit one metre extension pipes are used as required, and the fixing clips supplied support the system from the wall. Both 90° and 45° elbows are available to provide routing options.





FLUE	IDEAL PART NO.
Horizontal flue terminal (0.6m long)	208171
High level flue outlet kit	208178
Flue extension kit 60 dia (1m) - for high level flue outlet kit	203228
High level 90° elbow	203229
High level 45° elbow	203230

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

NOTE: Please refer to the installation and service manual for assistance in calculating flue lengths. Adequate support must be provided for the flue in accordance with the installation instructions.

FLUE OPTIONS

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

FLUE KITS

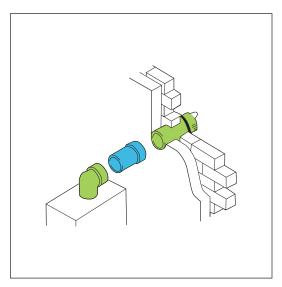
Telescopic Flue 'B' Pack - contains: Flue turret, telescopic flue incorporating a terminal and rubber wall seals.

Horizontal Flue Terminal (600mm long) 'B' Pack - contains: Flue turret, non telescopic single 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.

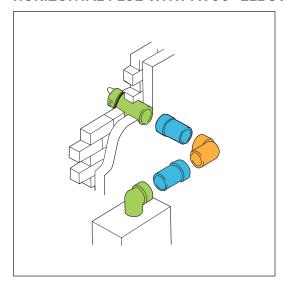
The flue system incorporates a removable flue outlet nose that utilises a push fit location system. This enables the installation of a Deflector, High level or Balcony flue kit without the removal of the whole 'B' pack terminal.

HORIZONTAL CONCENTRIC 100MM DIAMETER



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

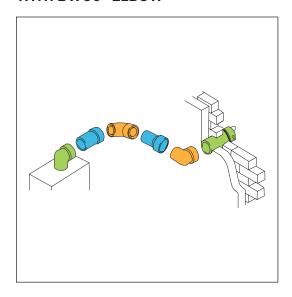
HORIZONTAL FLUE WITH 1 X 90° ELBOW



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

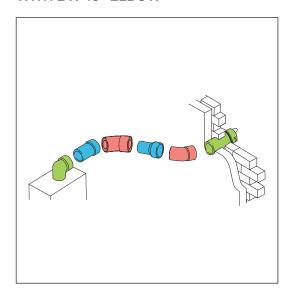
FLUE OPTIONS

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

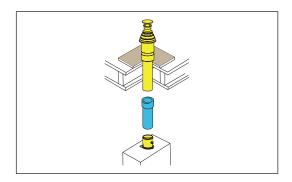
HORIZONTAL FLUE WITH 2 X 45° ELBOW



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

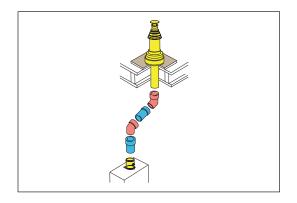
FLUE OPTIONS

ROOF FLUE SYSTEM



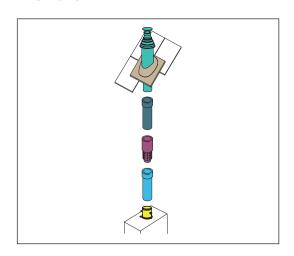
FLUE	PART NO.
Roof flue kit (with vertical connector)	211039
Flue extension 1m (pack D)	203129
Universal weather collar (suits any roof pitch)	152258
Flat roof weather collar	152259

ROOF FLUE SYSTEM WITH 2 X 45° ELBOW



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

POWERED VERTICAL FLUE SYSTEM



FLUE	PART NO.
Vertical powered flue kit	203136
Flue vertical connector	208175
Flue powered vertical terminal	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.

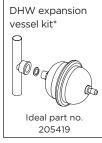
Where extension D packs are cut to length, the flared end connector must be retained.

[†] Secondary Flue extension pipes are available in 0.5, 1 and 2 metre lengths.

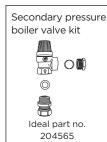
INSTALLATION ACCESSORIES

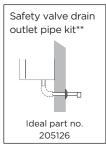
GENERIC.

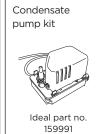






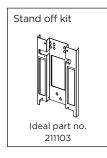






- * Compatible with all Logic Combi boilers
- ** Supplied with all Logic+ boilers as standard

LOGIC COMBI C, ESP1 & LOGIC+ COMBI C.





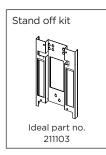


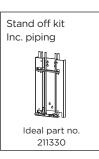




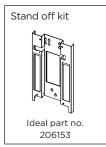
LOGIC SYSTEM S, LOGIC+ SYSTEM S.

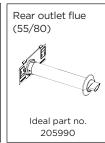
LOGIC HEAT H & LOGIC+ HEAT H.





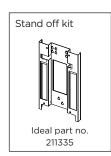


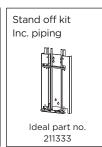






LOGIC CODE COMBI ESP1.









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.



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.

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.



GENERIC CONTROLS.



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



SPECIFICATION.

BOILER MODEL	LOGIC COMBI C24P	LOGIC COMBI C30P	LOGIC COMBI ESP1 30P	LOGIC COMBI ESP1 35P	LOGIC CODE COMBI ESP1 33P	LOGIC CODE COMBI ESP1 38P	LOGIC+ COMBI C30P	LOGIC SYSTEM S30P	LOGIC+ SYSTEM S30P			LOGIC HEAT H24	LOGIC HEAT H30	LOGIC+ HEAT H30
Min. output (kW)	8	8	8.7	7.6	8.7	8.7	8	8	8	8	8	8	8	8
Max. output (kW)	24.2	24.2	24.2	24.2	24.2	24.2	24.2	30.3	30.3	24.2	30.3	24.2	30.3	30.3
Max DHW output (kW)	24.2	30.3	30.3	35.3	32.7	38.2	30.3	-	-	-	-		-	-

NG-LPG CONVERSION KIT	PRODUCT CODE
LOGIC COMBI C24	215738
LOGIC COMBI C30	215739
LOGIC COMBI ESP1 30	216423
LOGIC COMBI ESP1 35	215752
LOGIC+ COMBI C30	215740
LOGIC SYSTEM S30	215745
LOGIC+ SYSTEM S30	215746
LOGIC SYSTEM S24 IE	215747
LOGIC+ SYSTEM S30 IE	215748
LOGIC HEAT H24	215741
LOGIC HEAT H30	215742
LOGIC+ HEAT H30	215744
LOGIC CODE COMBI ESP1 33	215753
LOGIC CODE COMBI ESP1 38	215754

LPG-NG CONVERSION KIT	PRODUCT CODE
LOGIC COMBI C24	178994
LOGIC COMBI C30	178995
LOGIC COMBI ESP1 30	179252
LOGIC COMBI ESP1 35	179007
LOGIC+ COMBI C30	178996
LOGIC SYSTEM S30	179000
LOGIC+ SYSTEM S30	179001
LOGIC SYSTEM S24 IE	179002
LOGIC+ SYSTEM S30 IE	179003
LOGIC HEAT H24	178997
LOGIC HEAT H30	178998
LOGIC+ HEAT H30	178989
LOGIC CODE COMBI ESP1 33	179008
LOGIC CODE COMBI ESP1 38	179009

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.

SERVICE & SUPPORT.



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.

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.

CONTACT US

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