

LOGIC COMBI ESP1 AND LOGIC CODE COMBI ESP1

FLUES AND ACCESSORIES GUIDE



FLUE ACCESSORIES

Logic Combi ESP1 and Logic Code Combi ESP1

Maximum permissible horizontal concentric flue length

combining both horizontal flue and flue extensions (measured from centrelline of the turret to the outside of the wall terminal)

Up to 26 kW appliances	Maximum: 9m - minus any extensions or bends
30 & 32 kW appliances	махітит: 8m - minus any extensions or bends
35 & 38 kW appliances	махітит: 6m - minus any extensions or bends

Maximum permissible vertical flue length

combining both vertical flue terminal and flue extensions

24 - 38 kW appliances Maximum: 7.5m - minus any extensions or bends

Vertical flue loft air inlet

24 - 38 kW appliances

Up to 4.7m concentric flue and 20m single flue pipe. For additional configurations and details refer to the installation instructions supplied with 203136 Vertical flue loft air inlet

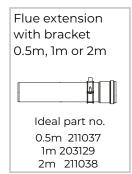
90° bend \emptyset 60/100 - Equivalent flue length resistance = 1m 45° bend \emptyset 60/100 - Equivalent flue length resistance = 0.6m

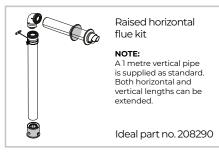


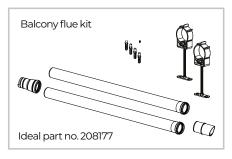


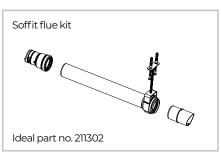














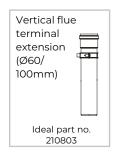


























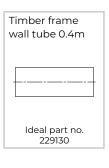


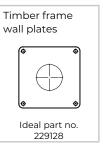






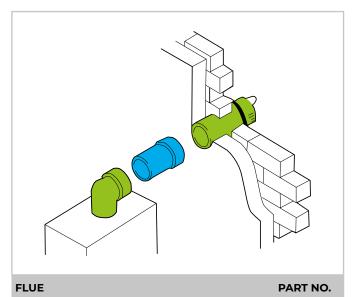






FLUE OPTIONS

HORIZONTAL CONCENTRIC 100MM DIAMETER



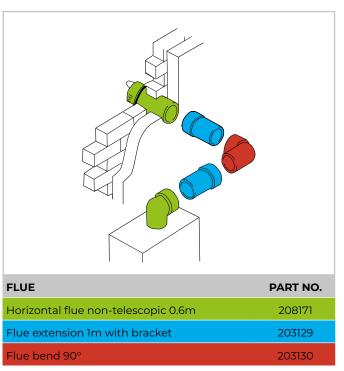
ALTERNATIVE FLUE TERMINALS	PART NO.
Horizontal flue telescopic 0.5m	208169
Horizontal flue telescopic 0.7m	208174

208171

203129

217442

HORIZONTAL FLUE WITH 1 X 90° BEND

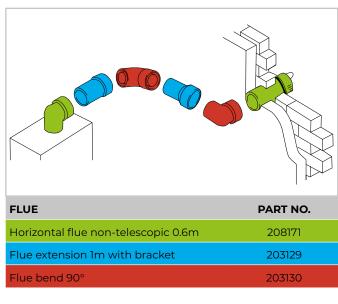


HORIZONTAL FLUE WITH 2 X 90° BEND

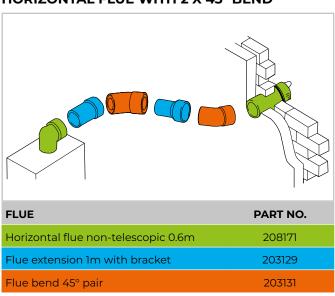
Horizontal flue non-telescopic 0.6m

Horizontal flue non-telescopic 0.8m

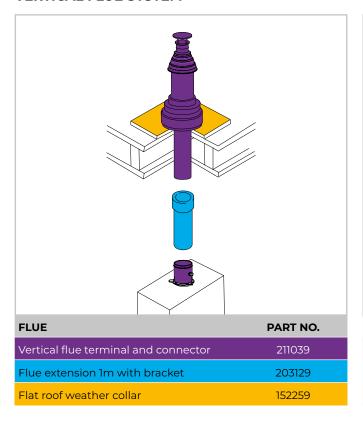
Flue extension 1m with bracket



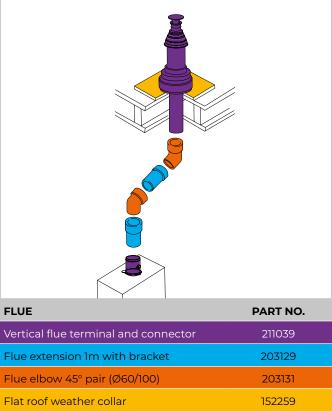
HORIZONTAL FLUE WITH 2 X 45° BEND



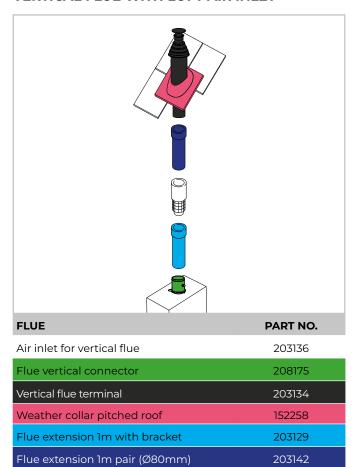
VERTICAL FLUE SYSTEM



VERTICAL FLUE SYSTEM WITH 2 X 45° BEND



VERTICAL FLUE WITH LOFT AIR INLET

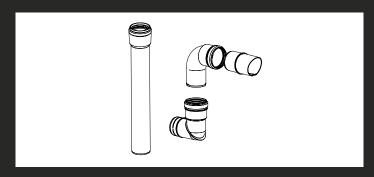


NOTE: Allows the boiler to be sited in a position where no access to an outside wall is available. Permits the concentric flue to run vertically from the top of the boiler and obtain air supply within the roof space, the secondary flue continuing to the external flue terminal. Offset applications are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

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° bend at the flue exit) to terminate with a 90° bend complete with grille. Push fit Im extension pipes are used as required, and the fixing clips supplied support the system from the wall. Both 90° and 45° bend are available to provide routing options.



The kit comprises:

Flue bend - 1 off 60mm flue exit bend - 1 off 60mm horizontal flue exit - 1 off 60mm x 500mm flue extension pipe - 1 off

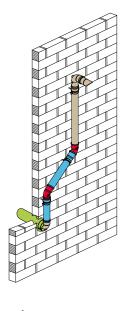
This kit is for use with horizontal non-telescopic and telescopic flue kits 208169, 208171, 208174 and 217442.

The standard terminal nose is replaced with the high level terminal.

FLUE	IDEAL PART NO.
Horizontal flue non-telescopic 0.6m	208171
High level flue outlet kit (Ø60mm)	208178
Flue extension 1m for high level flue outlet (Ø60mm)	203228
High level flue bend 90° (Ø60mm)	203229
High level flue bend 45° (Ø60mm)	203230

Diagram representative only

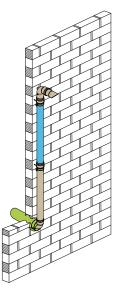
NOTE: Please refer to the installation and service manual for assistance in calculating flue lengths. Adequate support must be provided for the flue in accordance with the installation instructions. If additional elbows to those supplied in the High Level Flue Outlet kit are used, deduct the following resistances (metres) from the maximum boiler flue length.







HORIZONTAL LEFT OR RIGHT



VERTICAL

FLUE ACCESSORIES FOR HIGH RISE INSTALLATIONS LOGIC COMBI ESPI AND LOGIC CODE COMBI ESPI

The Building Regulations (Amendment) 2018 for England directs that combustible materials must not be used in the external walls of high-rise residential buildings, i.e. those above 18m tall (typically 6 stories). The 'external wall' includes anything located within any space forming part of the wall. This is relevant to the installation of all new gas boilers with horizontal flues in high-rise residential buildings, as the ban now excludes those flues that contain combustible materials such as a polypropylene plastic inner flue duct. Similar regulations also apply in Wales and Northern Ireland, with Scotland having their own regulations.

Ideal Heating have a range of high rise flues and accessories which comply with the revised regulations for high-rise buildings. Introduced from October 2019, they are direct replacements for the standard horizontal flues and accessories. The main difference is that the inner flue duct is aluminium rather than polypropylene plastic. Aluminium is classed as having class A fire resistance according to European Standard prEN1856-1 May 2019 which covers metal chimneys and flues, and by Europe Decision Document 96/603/EC covering construction products.

Externally the high rise flues look similar to the previous generation Ideal Logic flue (pre 2013) and the flue terminal is still black plastic. However, the outer air duct is no longer powder coated white and has a galvanised finish; but only a small length of this will be seen above the boiler. The elbow and wall seals have not changed. As the terminal, elbow and wall seals are not part of the make-up of the external wall their materials are not affected by the revised regulations. The flue terminal design has the air inlet underneath and the aluminium flue duct can be seen through the air inlet.

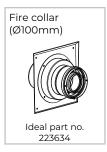
The high-rise horizontal flue terminals do not have a removable terminal nose so cannot be used with flue accessories 208178 High level flue outlet kit, 211302 Soffit kit, 208177 Balcony flue outlet kit and 208176 Flue deflector. However, new dedicated high-rise accessories are available to cover more installation configurations. These all have aluminium flue ducts to comply with the amended regulations.

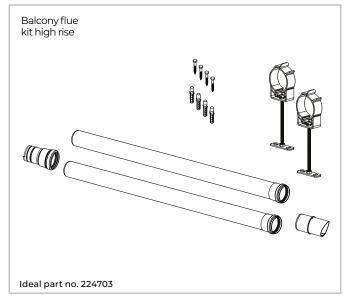












FLUE SITING

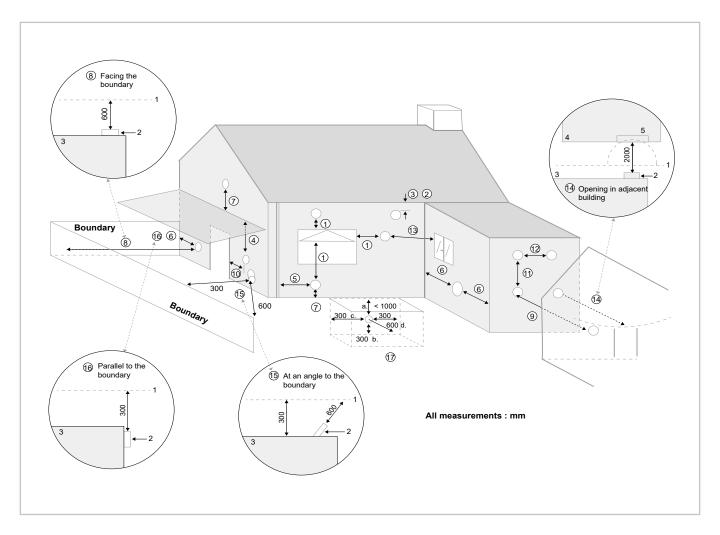
There are a substantial number of flue options available, giving excellent siting flexibility for almost all applications.

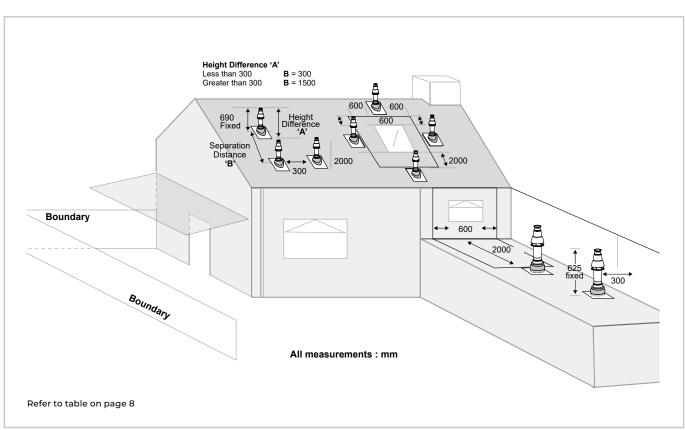
The range of options include standard and telescopic flues as well as vertical and raised horizontal options.

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

FLUE TERMINAL POSITION	MIN. SPACING
Directly below, above or alongside an opening. 300 mm	300mm
Below guttering, drain pipes or soil pipes.	75mm 25mm*
3. Below eaves.	200mm 25mm*
4. Below balconies or car port roof.	200mm 25mm*
5. From vertical drain pipes or soil pipes.	150mm 25mm*
From an internal or external corner or to a boundary alongside the terminal.	300mm 25mm*
7. Above ground, roof or balcony level.	300mm
From a surface or a boundary facing a terminal.	600mm
9. From a terminal facing a terminal.	1200mm
10. From an opening in a car port into dwelling.	1200mm
11. Vertically from a terminal on the same wall.	1500mm
12. Horizontally from a terminal wall.	300mm
13. Horizontally from an adjacent window	600mm
14. Facing an opening into an adjacent building	2000mm
15. At an angle to the boundary 90° 45°	300mm 600mm
16. Parallel to a boundary	300mm
17. Below ground level - open light well a) Below ground b)Above floor level c) From side d) From facing surface	<1,000 mm 300mm 300mm 600mm

^{*}Only one reduction down to 25mm is allowed per installation.





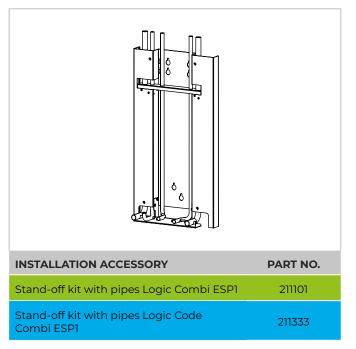
INSTALLATION ACCESSORIES

Our range of installation accessories are widely available due to our excellent distribution network. Our installation accessories include a range of brackets and stand off kits as well as a range of kits to help you deal with any situation.

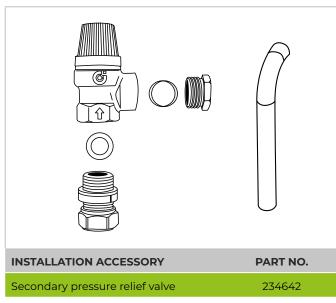
STAND OFF KIT



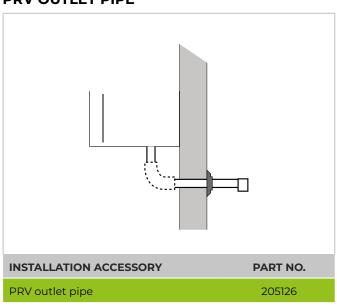
STAND OFF KIT WITH PIPES



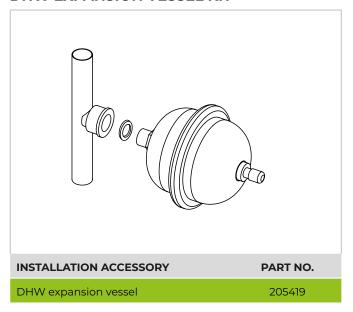
SECONDARY PRESSURE RELIEF VALVE KIT



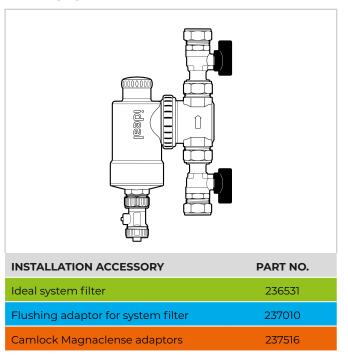
PRV OUTLET PIPE



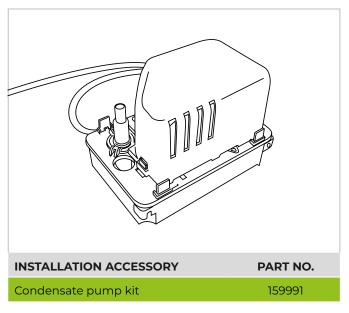
DHW EXPANSION VESSEL KIT



IDEAL SYSTEM FILTER



CONDENSATE PUMP KIT



NOTES

NOTES

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Customer Service:

01482 498660

Technical Help:

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