



FEATURES

Balanced flue systems

Yellow system, White system, Red system, Green system.

Conventional flue systems

Orange system, Green system

Clearances and design service

Guide to flue clearances Modular flue design service Round Low Level Balanced Flue Systems

Stainless Steel

Low Level EZ-Fit Flue Kits 'YELLOW System'

Grant's low level balanced range of EZ-Fit Flue Systems have been developed to make the installation of Grant boilers both quick and simple, whilst ensuring trouble free operation – even in the most exposed site conditions.

Reduces Installation Time

The round low level kits feature self-sealing ducts requiring no silicone or tape for joints, and the unique quick-fit connection arrangement ensures a perfect seal every time. In fact, the telescopic flue system requires only two simple operations to complete the installation. The kits are compatible with all Grant boilers, except External Modules.

The Grant Flue Terminal

The flue terminal has a compact design, making it ideal for installations where the visual appearance is important. The cone design reduces the possibility of condensate, produced in the combustion process, staining external wall surfaces or patio slabs.

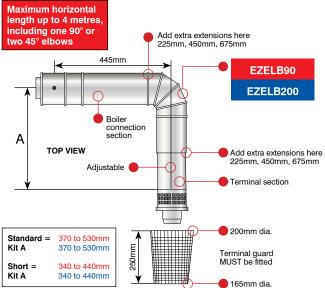
Extensions

The flue kits are telescopic and available in short or standard options. For wall thicknesses greater than shown, three extensions are available which extend the flue by 225mm, 450mm or 675mm to a **maximum of four metres**. 90° and 45° elbows are also available to give a greater degree of flexibility when siting the boiler.

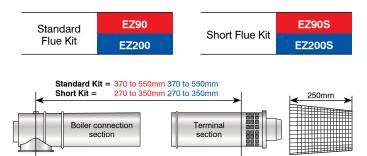
Plume Diverter Kits

Grant has developes a solution for existing low level flues where pluming causes a nuisance. The new Plume Diver ter Kits are designed to fit with our latest EZ-Fit Yellow low level balanced flue system. The kit comprises, a starter elbow, which fits over the already fitted flue terminal, 2 x 1m lengths of stainless steel flue pipe, a terminal elbow together with 2 x adjustable brackets. It is available in 80mm diameter for boilers up to 26kW and 100mm diameter for boilers from 26-70kW.

LOW LEVEL FLUE KIT with 90° elbow extension added



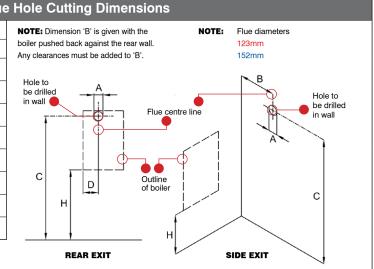
LOW LEVEL FLUE KIT [Stainless Steel]



Contents of low level flue kit:

Boiler connector section Terminal section Stainless steel flue guard Dress plate (not shown) Plugs and screws Side outlet cover trim (not shown) Lubricant (not shown) Snorkel clamp (not shown)

Low Level Balanced Flue				
Model	Dimensions (mm)			
Woder		A dia	В	С
Vortex Pro 15/21 & 15/26		127	115	768
Vortex Eco 12/21 & 21/26		127	115	768
Vortex Pro 26/36 & 36/46		162	115	780
Vortex Eco 26/35		162	115	780
Vortex Pro 46/58 & 58/70		162	112	1102
Vortex Pro Combi 21e & 26e		127	115	768
Vortex Pro Combi 36e		162	105	780
Vortex Eco Wall Hung 12/16 & 16/21		127	112	H + 765*
NOTE: *H is the height (mm) from floor to underside of boiler casing				





LOW LEVEL BALANCED FLUE Kits



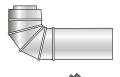
Standard Flue Kit	EZ90	Models up to 26kW
	EZ200	Models 26 - 70kW
Short Flue Kit	EZ90S	Models up to 26kW
	EZ200S	Models 26 - 70kW

LOW LEVEL BALANCED FLUE Extensions

IMPORTANT X90S Models up to 26kW Extension 225mm X200S Models 26 - 70kW **FLUE EXTENSIONS CANNOT BE CUT.** YELLOW SYSTEM EXTENSIONS **ARE FOR HORIZONTAL USE ONLY X90M** Models up to 26kW Extension AND CANNOT BE USED VERTICALLY 450mm WITH GREEN, ORANGE, RED OR X200M Models 26 - 70kW WHITE SYSTEM COMPONENTS. X90L Models up to 26kW Extension 675mm X200L Models 26 - 70kW

LOW LEVEL BALANCED FLUE Accessories

IMPORTANT HORIZONTAL LENGTHS UP TO 4 METRES CAN BE ACCOMMODATED, INCLUDING ONE 90° OR TWO 45° ELBOWS.





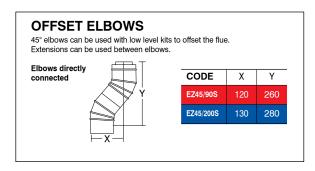


000 511 161	EZELB90	Models up to 26kW
90° Elbow Kit	EZELB200	Models 26 - 70kW
45° Elbow	EZ45/90S	Models up to 26kW
Only	EZ45/200S	Models 26 - 70kW
45° Elbow Kit	EZ45/90	Models up to 26kW
	EZ45/200	Models 26 - 70kW
Plume Diverter Kit	GPDA90	Models up to 26kW
	GPDA200	Models 26 - 70kW
		_



IMPORTANT

EXTENDED ELBOWS ALLOW TELESCOPIC ADJUSTMENT FOR EXTENSIONS OR TERMINAL SECTIONS.



Internal High Level Balanced Flue Systems - White Powder Coated

High Level Balanced Flue Kits 'WHITE System'

High level balanced flue kits feature the same EZ-Fit boiler connections as the low level flue. The unique connection system on the high level flue ensures easy assembly thereby reducing installation costs.

Flexible Design

The kits may be extended horizontally and vertically. It is now possible to create offsets in standard high level flue systems by using our 45° elbows and extension kits – increasing the versatility of this range.

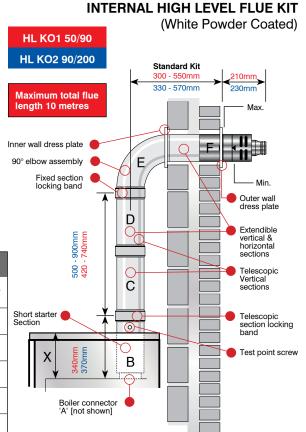
Maximum Flue Length

High level balanced flues can be extended to a **maximum of 10 metres overall**, using the extension kits illustrated on Page 7. Deduct one metre for each additional 45° elbow used (maximum 6 elbows).

Dimensions

Section 'B' is the starter piece for the flue system and push fits into the boiler connector supplied with the kit. Section 'B' incorporates the air supply spigot and a combustion test point. Sections 'C' and 'D' combine to form a telescopic length. Terminal section 'F' slides over elbow 'E'. The horizontal length can be extended using the extensions listed. The adjustable extension cannot be connected to the terminal section 'F' - a fixed extension must be used. The vertical height can be extended using the extensions or 45° elbows listed. For short heights sections 'C' and 'D' may be omitted and elbow 'E' fitted to starter section 'B'.

Top Casing Height = X				
Model	X Dimensions (mm)			
Vortex Pro 15/21 & 15/26	170			
Vortex Eco 15/21 & 21/26	170			
Vortex Pro 26/36 & 36/46	205			
Vortex Eco 26/35	205			
Vortex Pro 46-58 & 58/70	225			
Vortex Pro Combi 21e & 26e	170			
Vortex Pro Combi 36e	205			
Vortex Eco Wall Hung 12/16 & 16/21	165			



Contents of high level balanced flue kit:

Boiler connector A
Short starter section B
Vertical telescopic section C/D
Horizontal telescopic section
[inc. terminal] E/F
Locking bands

Standard kit with no extensions fitted.

Inner seals [red]

Cutting Dimensions

Outer seal [black] Boiler connector Dress plates [inner & outer] Fitting Instructions

NOTE: For height adjustment see chart below.

High Level Balanced Flue Hole							
		Dimensions (mm)					
Model	A dia	В	C min	D min	D Max		
Vortex Pro 15/21 & 15/26	175	115	1215	1715	2115		
Vortex Eco 15/21 & 21/26	175	115	1215	1715	2115		
Vortex Pro 26/36 & 36/46	200	115	1280	1700	2020		
Vortex Eco 26/35	200	115	1280	1700	2020		
Vortex Pro 46/58 & 58/70	200	112	1595	2015	2335		
Vortex Pro Combi 21e & 26e	175	115	1215	1715	2115		
Vortex Pro Combi 36e	200	105	1280	1700	2020		
Vortex Eco Wall Hung 12/16 & 16/21	175	112	H + 1207*	H + 1707*	H + 2107*		
NOTE: * H is the height (mm) from floor to underside of boiler casing							

NOTE: Flue pipe diameter: 150mm 180mm Excluding locking bands
(SEE DIMENSION 'A' OPPOSITE FOR HOLE SIZE).

Hole to be drilled in wall

Flue centre line

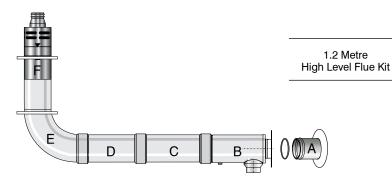
Outline of boiler

REAR EXIT

SIDE EXIT



HIGH LEVEL BALANCED FLUE KITS Internal



IMPORTANT

HL K01 50/90

HL K02 90/200

IF THE TERMINAL SECTION **EXECUTES BELOW TWO METRES,** A TERMINAL GUARD MUST BE FITTED.

HIGH LEVEL BALANCED FLUE KITS Internal

IMPORTANT

FLUE EXTENSIONS CANNOT BE CUT. WHITE SYSTEM EXTENSIONS ARE FOR HIGH LEVEL, VERTICAL AND RED SYSTEM INTERNAL USE ONLY AND CANNOT BE USED WITH YELLOW, GREEN OR ORANGE SYSTEM COMPONENTS.



Extension 225mm C/W Locking Band EXT K31 225/90

Models up to 26kW

Models up to 26kW

Models 26 - 70kW

EXT K32 225/200

Models 26 - 70kW



Extension 450mm C/W Locking Band

EXT K09 450/90 EXT K10 450/200 Models up to 26kW

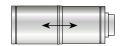
Models 26 - 70kW



Extension 950mm C/W Locking Band

EXT K11 950/90 EXT K12 950/200 Models up to 26kW

Models 26 - 70kW



Adjustable Extension 275-450mm C/W Locking Band

EXT K13 ADJ/90 EXT K14 ADJ/200 Models up to 26kW

Models 26 - 70kW

HIGH LEVEL BALANCED FLUE Accessories

IMPORTANT

HIGH LEVEL BALANCED FLUES **CAN BE EXTENDED TO A MAXIMUM LENGTH OF 10 METRES USING THE EXTENSION KITS ILLUSTRATED** ABOVE. DEDUCT ONE METRE FOR **EACH ADDITIONAL 45° ELBOW USED (MAXIMUM 6 ELBOWS).**

45° Flbow C/W locking Band

ELB K21 45/90 ELB K22 45/200 Models up to 26kW

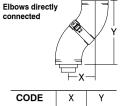
Models 26 - 70kW

IMPORTANT

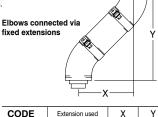
A TERMINAL GUARD IS REQUIRED WHEN THE FLUE TERMINATES **LESS THAN 2 METRES ABOVE OUTSIDE GROUND LEVEL. (NOT** SUPPLIED BY GRANT).



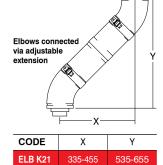
OFFSET ELBOWS 45° elbows can be used with high level kits to offset the flue. Extensions can be used between elbows



CODE	Х	Υ
ELB K21	140	340
ELB K22	160	385



CODE	Extension used	X	Υ
ELB K21	EXT225	300	500
	EXT450	455	665
	EXT950	810	1010
ELB K22	EXT225	320	545
	EXT450	475	700
	EXT950	830	1055
	·		



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ELB K21	335-455	535-655
ELB K22	355-475	580-700

Internal Vertical Balanced Flue Systems - White Powder Coated

Vertical Balanced Flue Kits 'WHITE system'

Vertical balanced flue kits share the same EZ-Fit boiler connections as our high level kits. The unique connection system on the vertical balanced flue ensures easy assembly thereby reducing installation costs.

Flexible Design

As with our high level kits it is now possible to create offsets in straight flue runs by using our 45° elbows and adjustable extension kits – increasing the versatility of this range.

Maximum Vertical Flue Length

Vertical balanced flues can be extended to a maximum length of 12 metres in a straight run using the extension kits illustrated on Page 7. Deduct one metre for each additional 45° elbow used [maximum 6 elbows].

Dimensions

The dimensions shown are measured from the top of the boiler spigot, not the boiler case. The distance between the boiler flue spigot and the top of the casing should be taken into consideration. [See boiler installation manual].

Section (A) is the starter piece for the flue system and push fits into the boiler connector supplied with the kit. Section (B) incorporates the air supply spigot and a combustion test point.

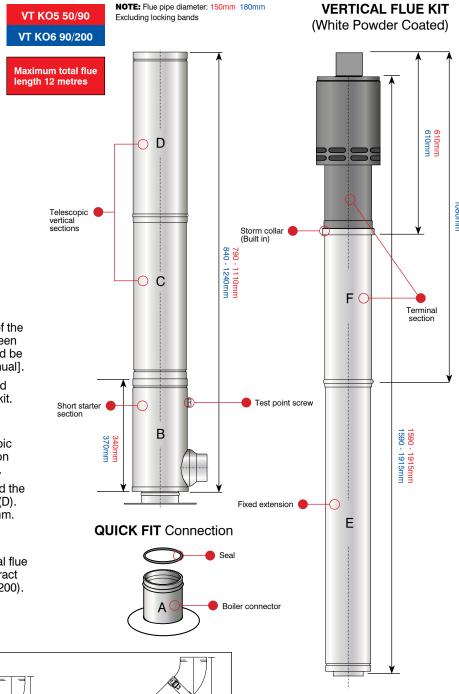
Sections (B), (C) and (D) combine to form a telescopic length. Fixed extension (E) fits onto telescopic section (D). Terminal section (F) fits onto fixed extension (E).

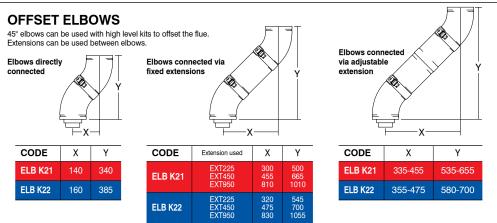
For short flue heights section (E) may be omitted and the terminal section (F) may be fitted directly to section (D). The terminal section (F) overlaps section (D) by 50mm.

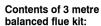
New Terminal Extension

A new extended black terminal section for the vertical flue systems is now available, which extends the flue extract section by a further one metre (VTTEXT90 / VTTEXT200).

This kit is useful, if for instance, there is a Velux roof window or opening too close to the terminal.



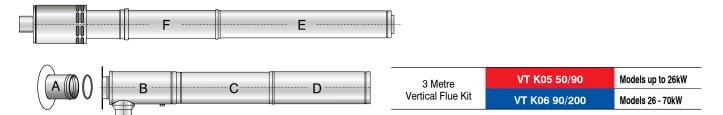




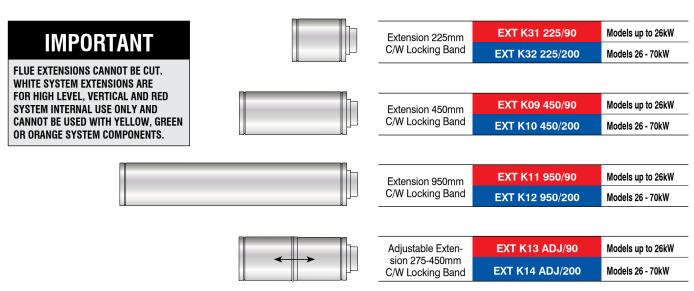
Boiler connector A
Short starter section B
Telescopic vertical sections C/D
Fixed section 950mm E
Terminal section F [inc.storm collar]
Locking bands [not shown]
Inner seals [red]
Boiler connector
Ceiling dress plate [not shown]
Firestop spacers [not shown]
Wall bracket
Fitting Instructions



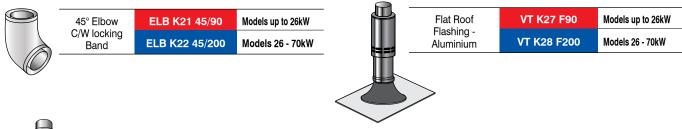
VERTICAL BALANCED FLUE KITS Internal

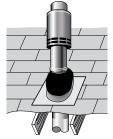


VERTICAL BALANCED FLUE EXTENSIONS Internal



VERTICAL BALANCED FLUE Accessories





NOTE: Range of pitch 22°-45°

Pitched Roof Flashing – Aluminium	VT MF 90	Models up to 26kW
	VT MF 200	Models 26 - 70kW
Pitched Roof Flashing – Lead	VT K25 P90	Models up to 26kW
	VT K26 P200	Models 26 - 70kW

ls 26 - 70kW	

145mm

Well Donalos	BRK 29 90	Models up to 26kW
Wall Bracket	BRK 30 200	Models 26 - 70kW

VTTEXT90

VTTEXT200

Vertical Terminal Extension Models up to 26kW

Models 26 - 70kW

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Flexible Vertical Balanced Flue Systems -Stainless Steel Inner Liner with Polypropylene Outer

Unique Flexi Vertical Balanced Flue Kits 'RED system'

The Grant Red System is the flexible balanced flue solution to nuisance pluming and cold draughts. It is designed for Grant condensing boilers up to 26kW (90,000Btu/h) and allows an existing masonry chimney to be utilised rather then re-site the boiler and pipework.

Red System Kits

The Red System is supplied in two parts: Pack 1 consists of the boiler connector, adjustable extensions, bottom adaptor, terminal, plate and clamp. Pack 2 comprises two lengths of flexible vertical flue pipe (stainless steel and polypropylene) and is available in lengths for 6, 8, 10 and 12 metres.

Extensions and Elbows (From WHITE system)

The flexible vertical balanced flue kits share the same EZ-Fit flue extensions and elbows as the Grant 'White System'. This unique quick fit connection arrangement ensures easy assembly thereby reducing installation costs.

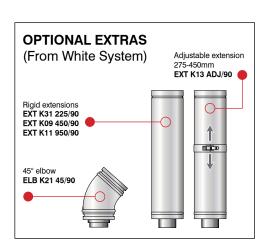
The maximum vertical straight length of the flue, from the top of the boiler to the top of the terminal, is 20 metres - using no more than four 45° elbows.

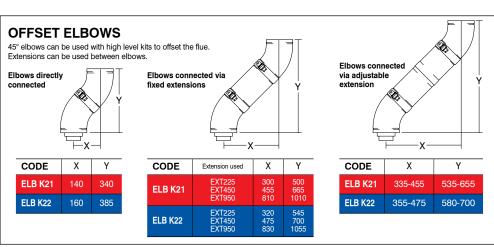
One metre of straight flue length should be deducted for every elbow used. If the flexible liner has to pass around an offset inside the chimney, two metres of straight flue length should be deducted to compensate for this i.e. equivalent two 45° elbows. Flue extensions cannot be cut, adjustable extensions should be used where required.

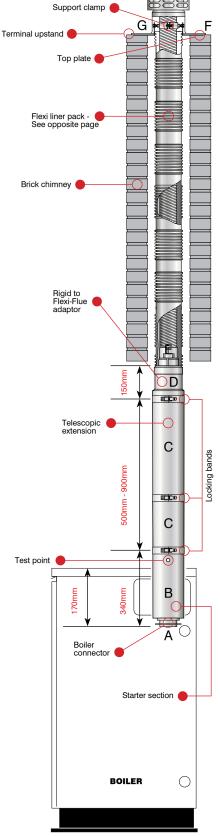
Maximum straight flue length from the boiler to the top of flue terminal = 20 metres.

NOTE: Flexi Flue pipe diameter: Inner Diameter - 80mm Outer Diameter - 125mm









RIGID TO FLEXIBLE

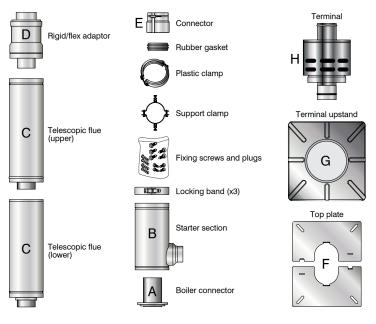
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BALANCED FLUE SYSTEM

Terminal (



PACK 1 Flexi Vertical Balanced Flue Connector



Red System **GFX CON KIT/26** Models up to 26kW Connector Pack

IMPORTANT

RED SYSTEM KIT COMPRISES PACK 1 & PACK 2 IN REQUIRED LENGTH.

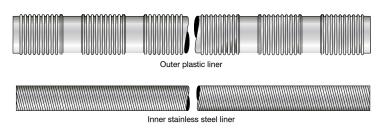
NOTE: Longer Flexi Balanced Flue Liner Kits are available by special order. Liners are directional and should be installed with the arrows facing upwards.

GFX BF 6/26

Models up to 26kW

6 Metre Flexible Liner Pack

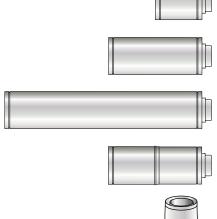
PACK 2 Flexi Vertical Balanced Flue Liner



IMPORTANT	
BE CUT. WHITE SYSTEM EXTENSIONS ARE FOR HIGH SYSTEM INTERNAL USE ONLY AND CANNOT BE USED	
DRANGE SYSTEM COMPONENTS.	

,	OW, GREEN (
RIGID F	LUE EXT	ENSION	IS & EL	BOWS	
(From W	hite Syst	em)			

FLUE EXTENSIONS CANNO



Extension 225mm C/W Locking Band	EXT K31 225/90	Models up to 26kW
Extension 450mm C/W Locking Band	EXT K09 450/90	Models up to 26kW
Extension 950mm C/W Locking Band	EXT K11 950/90	Models up to 26kW
Adjustable Extension 275-450mm C/W Locking Band	EXT K13 ADJ/90	Models up to 26kW
45° Elbow C/W Locking Band	ELB K21 45/90	Models up to 26kW

External High Level/Vertical Flues - Stainless Steel

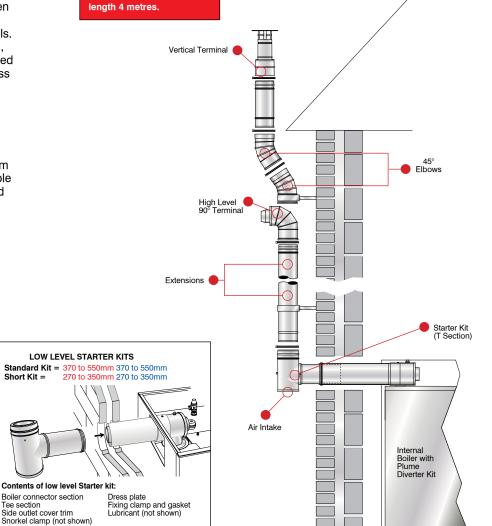
Maximum vertical length 8 metres.Maximum horizontal

High Level/Vertical External EZ-Fit Flues 'GREEN System'

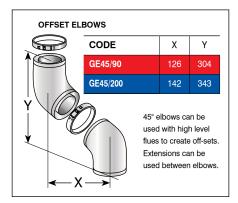
Grant's range of EZ-Fit Flue Systems have been extended to include 'external' high level and vertical options for all Grant condensing models. These systems are supplied in a modular form, enabling most installations to be accommodated and are manufactured from high grade stainless steel.

Starter Flue Kits [Plume Diverter]

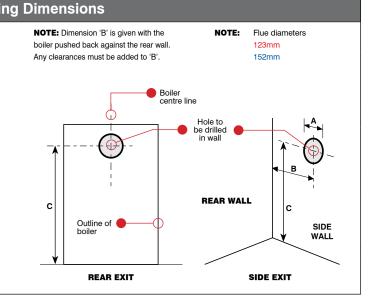
The Starter Flue Kit enables all internal boilers to be connected to an 'external' high level or vertical flue system, whilst maintaining the room sealed operation of the boiler. It is even possible to convert an existing EZ-Fit low level balanced flue kit to an external high level or vertical arrangement without any additional building work. This is particularly useful when pluming from a low level flue terminal is a nuisance.



EXTERNAL FLUE SYSTEMS



	F	lue H	ole Cutti	
Model		Dimensions (mm)		
		В	С	
Vortex Pro 15/21 & 15/26	127	115	768	
Vortex Eco 12/21 & 21/26	127	115	768	
Vortex Pro 26/36 & 36/46	162	115	780	
Vortex Eco 26/35	162	115	780	
Vortex Pro 46/58 & 58/70	162	112	1102	
Vortex Pro Combi 21e & 26e	127	115	768	
Vortex Pro Combi 36e	162	105	780	
Vortex Eco Wall Hung 12/16 & 16/21	127	112	H + 765*	
NOTE: *H is the height (mm) from floor to underside of boiler casing				





STARTER FLUE KIT High level/vertical external

IMPORTANT

STARTER FLUE KITS CAN BE EXTENDED HORIZONTALLY USING EXTENSIONS OR ELBOWS FROM THE LOW LEVEL BALANCED FLUE (YELLOW) SYSTEM ONLY SEE PAGE 3



Oten dend Flore Kit	GK90	Models up to 26kW
Standard Flue Kit	GK200	Models 26 - 70kW
Object Election	GK90S	Models up to 26kW
Short Flue Kit		

FLUE EXTENSIONS High level/vertical stainless steel (Double skin)

IMPORTANT

FLUE EXTENSIONS CANNOT BE CUT.
GREEN SYSTEM EXTENSIONS ARE FOR
HORIZONTAL OR VERTICAL USE WITH
CONVENTIONAL FLUE SYSTEMS ONLY
AND CANNOT BE USED WITH YELLOW OR
WHITE BALANCED FLUE COMPONENTS.



Extension 250mm	GX250/90	Models up to 26kV
C/W Locking Band	GX250/200	Models 26 - 70kW

GX150/90

GX150/200

GX450/90

GX450/200

Extension 150mm

C/W Locking Band

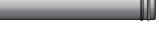
Extension 450mm C/W Locking Band Models up to 26kW

Models 26 - 70kW

Models up to 26kW

Models 26 - 70kW





Extension 950mm	GX950/90	Models up to 26kW
C/W Locking Band	CV0E0/200	Madala 06 70kW

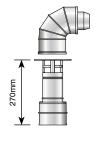


Adjustable Extension	GXA250/90	Models up to 26kW
195-270mm C/W Locking Band	GXA250/200	Models 26 - 70kW

TERMINALS Stainless Steel

IMPORTANT

EXTENSION LENGTHS GIVEN ARE <u>EFFECTIVE</u> LENGTHS I.E. WHEN FITTED IN A FLUE SYSTEM.



High Level 90° Terminal	GTH90 GTH200	Models up to 26kW Models 26 - 70kW
Month of Tomoto d	GTV90	Models up to 26kW
Vertical Terminal	GTV200	Models 26 - 70kW

ACCESSORIES Stainless Steel





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←→	
110mm	

45° Elbow	GE45/90	Models up to 26kW
C/W Locking Band	GE45/200	Models 26 - 70kW
Fritain da d Wall Dua alcat	GEB90	Models up to 26kW
Extended Wall Bracket	GEB200	Models 26 - 70kW
W B	GWB90	Models up to 26kW
Wall Bracket	GWB200	Models 26 - 70kW

Conventional Flue Systems - Stainless Steel

Conventional Flues For Grant Vortex Condensing Boilers ORANGE system

As many older oil fired boilers are traditionally connected to conventional flue systems, updating to a modern condensing boiler often results in the appliance needing to be relocated. The Grant EZ–Fit Conventional Flue System (Orange System) has been specifically designed to enable the existing chimney to be re-used and the boiler retained in its original position.

EZ-Fit Flexi Packs

Grant have developed a range of EZ-Fit Flexi Packs containing all the components required to utilise the existing chimney, including a smooth bore stainless steel flue liner, terminal, clamp plate and connectors for both the flex and boiler. All that is required to complete the installation is extension pipes or elbows from our Orange System accessories range.

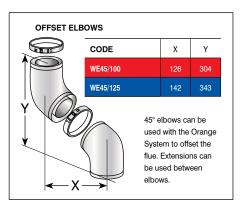
Please note: the flexi liner should be installed with the directional arrows pointing upwards only.

Pluming

Condensing boilers operate at extremely high efficiencies with cool flue gas temperatures, resulting in a plume of vapour being visible at the flue terminal. This pluming (steam) is a normal condition of condensing boilers and indicates that the appliance is working efficiently. As an alternative to a low level, high level, or vertical balanced flue kit, utilising the original chimney with a Grant conventional flue Flexi-Pack moves the plume of vapour above roof level.

Combustion Air And Ventilation

An adequate permanent air supply is required for the safe operation of all open-flued (conventional flued) oil-fired appliances. For new or replacement boilers in properties built prior to the latest change to the Building Regulations (pre Approved Document L1A 2006) in England and Wales this ventilation must be in accordance with BS5410: Part1:1997. For installations in properties built or refurbished under the above current Building Regulations, the first 5kW of output should no longer be omitted for the purposes of calculating the ventilation area required.

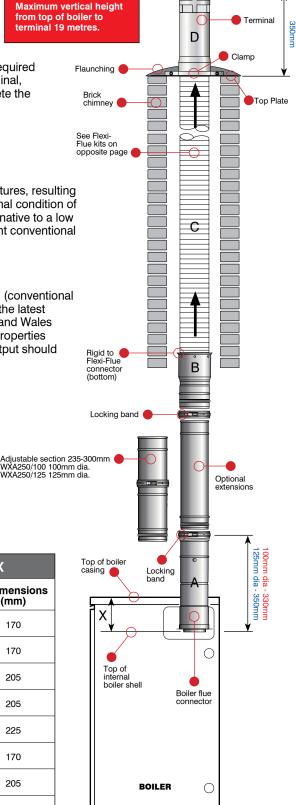






Top Casing Height = X		
Model	X Dimensions (mm)	
Vortex Pro 15/21 & 15/26	170	
Vortex Eco 15/21 & 21/26	170	
Vortex Pro 26/36 & 36/46	205	
Vortex Eco 26/35	205	
Vortex Pro 46-58 & 58/70	225	
Vortex Pro Combi 21e & 26e	170	
Vortex Pro Combi 36e	205	
Vortex Eco Wall Hung 12/16 & 16/21	165	

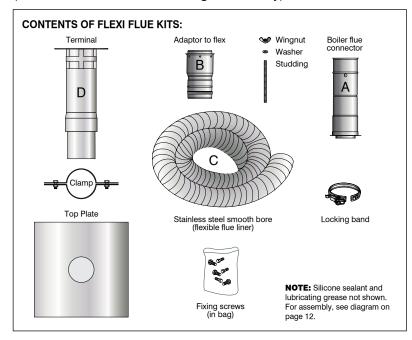
RIGID TO FLEXIBLE CONVENTIONAL FLUE SYSTEM





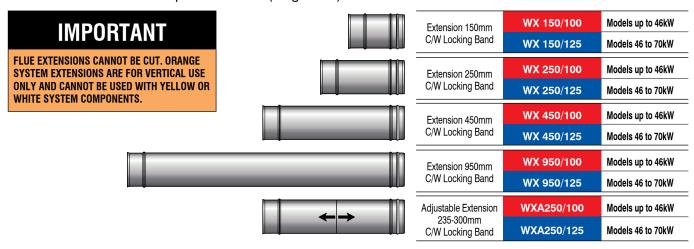
SMOOTH BORE FLEXI-FLUE KITS Stainless Steel

(To suit Grant Vortex condensing boilers only)



6 Metre Flexible	GF KIT 6/100	Models up to 46kW
Flue Kit	GF KIT 6/125	Models 46 to 70kW
8 Metre Flexible	GF KIT 8/100	Models up to 46kW
Flue Kit	GF KIT 8/125	Models 46 to 70kW
10 Metre Flexible	GF KIT10/100	Models up to 46kW
Flue Kit	GF KIT 10/125	Models 46 to 70kW
11 Metre Flexible	GF KIT 11/100	Models up to 46kW
Flue Kit	GF KIT 11/125	Models 46 to 70kW
12 Metre Flexible	GF KIT 12/100	Models up to 46kW
Flue Kit	GF KIT 12/125	Models 46 to 70kW
14 Metre Flexible	GF KIT 14/100	Models up to 46kW
Flue Kit	GF KIT 14/125	Models 46 to 70kW
16 Metre Flexible	GF KIT 16/100	Models up to 46kW
Flue Kit	GF KIT 16/125	Models 46 to 70kW

FLUE EXTENSIONS White powder coated (Single skin)



ACCESSORIES White powder coated

IMPORTANT WHEREVER POSSIBLE INCORPORATE ONE ADJUSTABLE SECTION. NO MORE THAN TWO 45° ELBOWS CAN BE USED

IMPORTANT
EXTENSION LENGTHS GIVEN ARE <u>effective</u> Lengths I.E. When fitted in a flue system.

220mm

45° Elbow C/W Locking Band	WE45/100	Models up to 46kW
	WE45/125	Models 46 to 70kW

Hybrid Conventional Flue Systems - Interconnecting Flues

Using components from the Grant 'Orange' and 'Green' flue systems it is possible to construct bespoke flue systems to overcome specific boiler siting problems. For further information contact the Technical Department on 01380 736920.

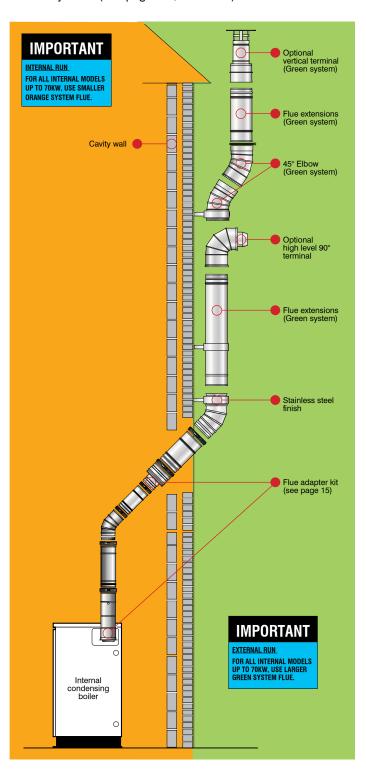
GREEN TO ORANGE SYSTEM

Stainless steel insulated external 'Green' system to flexi 'Orange' system - (See pages 11, 13 and 15)

IMPORTANT FOR PRO AND ECO EXTERNAL MODULES UP TO 26kw, USE Smaller Green System Flue FOR 26-35KW ECO MODULES, USE SMALLER **GREEN SYSTEM FLUE.** Terminal FOR 26-36KW AND 36-46KW PRO MODULES USE LARGER GREEN SYSTEM FLUE. Flaunching (Top plate Clamp Brick chimney Stainless steel flex liner (see Orange system flue kit) Rigid to flexi flue connector (supplied in Orange system kit) Twin-wall to single-wall adaptor (see page 15) Flue extension (Green system) 45° Elbow (Green system) 45° Elbow (Green system) Adjustable extension (Green system) Stainless steel Flue extension (Green system) **IMPORTANT** Outdoor module starter elbow FOR ALL EXTERNAL MODULES UP TO 46KW, USE SMALLER ORANGE SYSTEM FLUE. External condensing boiler

ORANGE TO GREEN SYSTEM

White powder coated internal 'Orange' system to external 'Green' system - (See pages 11, 13 and 15)





Hybrid Conventional Flue Systems - Interconnecting Flues

EXTERNAL GREEN SYSTEM - Outdoor Module

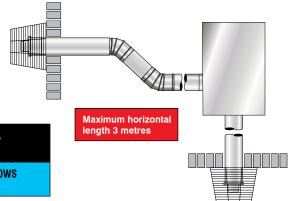
VERTICAL SOLUTION

See page 11 for extensions, elbows and terminals

Maximum vertical length 19 metres IMPORTANT

HORIZONTAL SOLUTION

See page 11 for extensions, elbows and terminals



THE MAXIMUM NUMBER OF 45° ELBOWS

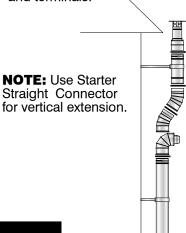
WHICH CAN BE USED IS TWO.

IMPORTANT

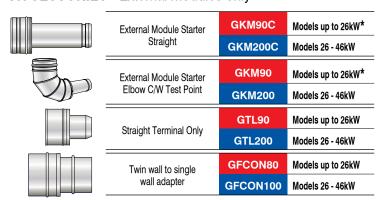
COMPONENTS FROM THE ORANGE AND GREEN SYSTEM CAN BE USED TO CONSTRUCT INTERNAL HIGH LEVEL, OR VERTICAL CONVENTIONAL FLUE SYSTEMS USING THE FLUE ADAPTOR KIT CFA 15/70.

ECO WALL HUNG EXTERNAL

See page 11 for extensions, elbows and terminals.



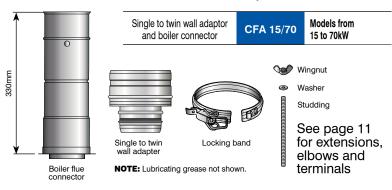
ACCESSORIES - External modules only



IMPORTANT

* FOR VORTEX ECO EXTERNAL 26-35KW MODELS, USE SMALLER SIZE FLUE PIPE.

FLUE ADAPTER KIT - Indoor boilers only



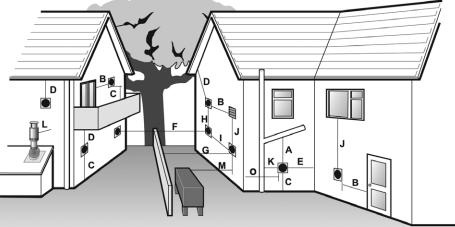
STARTER CONNECTORS

The Starter Elbow converts any of Grant's external modules or module combis to high level or vertical conventional flue operation.

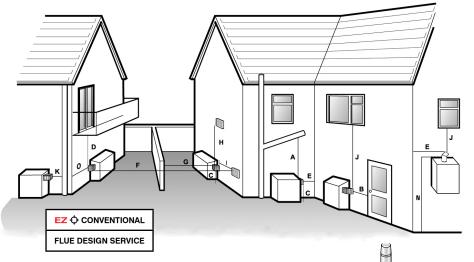
The Starter Straight connector allows the low-level discharge flue system of any Grant external module or module combi to be extended horizontally.

The stainless steel flue components are fully insulated, have 'O' ring seals and locking bands, ensuring a rigid construction every time.

Clearance for **Balanced** Flues internal models

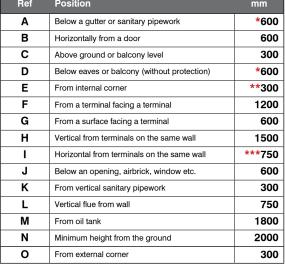


Clearance for **Balanced** Flues external modules



INDIVIDUALLY DESIGNED CONVENTIONAL FLUE SYSTEMS FOR MODULAR BOILER INSTALLATIONS

Grant UK offers a unique customised design service, where two or more boilers are connected in a modular form to a single conventional flue stack. This service includes the design and supply of flue headers and flue systems for condensing boiler installations and is available to merchants upon completion of a simple site survey form. Contact our technical department on: **01380 736920** for further details.



NOTE: *75mm with protection **600mm for Outdoor Modules

***Only applies if one or both terminals are balanced flues.

Distance measured to rim of terminal. Clearances advised by Grant Engineering (UK) Ltd. in accordance with British Standards and Building Regulations.

The Terminal should be positioned so as to avoid products of combustion accumulating in stagnant pockets around the building or entering into buildings. Care should also be taken that the plume from a condensing flue does not cause a nuisance.

- 1. An opening means an openable element, such as a window, or a permanent opening such as a permanently open air vent.
- 2. Not withstanding the dimensions given, a terminal should be at least 300mm from combustible material. e.g. a window frame.
- **3.** A way of providing protection of combustible material would be to fit a heat shield at least 750mm wide
- **4.** Where possible it is always advisable to choose a high level or vertical flue option with condensing boilers to avoid nuisance pluming.



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