

# EZ-Fit Flue Guide

Stainless steel flue systems to suit all Grant Vortex and VortexBlue oil boiler ranges.



### Yellow System Low Level Balanced EZ-Fit flue kits

The Grant low level balanced flue range has been developed to make the installation of Grant Vortex and VortexBlue boilers both guick 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 guick-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 and is available in a black painted finish, making it ideal for installations where the visual appearance is important. The design reduces the possibility of condensate, produced in the combustion process, staining external wall surfaces or patio slabs.

Low Level balanced flue hole cutting dimension	IS			
Model	Dimen	sions (m		
	A dia			D
Vortex Pro 15/21 & 15/26	127	115	768	n/a
Vortex Eco 15/21 & 21/26	127	115	768	n/a
Vortex Pro 26/36 & 36/46	162	115	780	n/a
Vortex Eco 26/35	162	115	780	n/a
Vortex Pro 46/58 & 58/70	162	112	1105	n/a
Vortex Pro Combi 21 e & 26e	127	115	768	n/a
Vortex Pro Combi 36e	162	105	780	n/a
Vortex Eco Wall Hung 12/16 & 16/21	127	112	H + 765*	220
Vortex Boiler House 15/21 & 21/26	127	120	768	n/a
Vortex Boiler House 26/35 & 36/46	162	120	780	n/a
Vortex Boiler House 46/58 & 58/70	162	120	1102	n/a

Note: \*H is the height (mm) from floor to underside of boiler casing.

Note: Flue diameters 123mm 152mm



Note: Dimension 'B' is given with the boiler pushed back against the rear wall Any clearances must be added to 'B'.

Dimension 'A' includes an extra 10mm over the size of the terminal to provide clearance for fitting

### **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.

**316 Stainless Steel** 

### Plume diverter kits (Black painted)

Grant has developed a solution for existing low level flues where pluming causes a nuisance. The new plume diverter 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 (black painted terminal section)



### Low Level flue kit

(black painted terminal section)





#### Contents of Low Level flue kit:

Boiler connector section Dress plate (not shown) Pluas and screws Terminal section Flue auard

Lubricant (not shown) Snorkel clamp (not shown) Side outlet cover trim (not shown)



Low Level balanced flue

extensions







X90L

X200L

90° elbo

EZELB90

EZELB200

45° elbow

EZ45/90S EZ45/200

### Low Level balanced flue accessories

45° elbow EZ45/90 EZ45/200

### **Offset elbows**



45° elbows can be used with Low Level kits to offset the flue Extensions can be used between elbows

Code EZ45/90S EZ45/200S

### Plume diverter kits and accessories



#### Order part reference guide

CE Certified EN 1856-1: 2009-06

ve kit (Black Painted Finish)
Models up to 26kW
Models over 26kW

#### Short flue kit (Black Painted Finish) EZ90SB Models up to 26kW EZ200SB Models over 26kW

## Models up to 26kW Models over 26kW Models up to 26kW Models over 26kW

Models up to 26kW Models over 26kW

#### Important

Flue extensions cannot be cut. Yellow system extensions are for horizontal use only and cannot be used vertically with Green, Orange, Red or White system components.

kit	
	Models up to 26kW
	Models over 26kW
only	
	Models up to 26kW
	Models over 26kW
kit	
	Models up to 26kW
	Models over 26kW

#### Important

Horizontal lengths up to 4 metres can be accommodated, including one 90° or two 45°

Х		
120	260	
130	280	

#### Important

Extended elbows allow telescopic adjustment for extensions or terminal sections.

liverter	kit
	Models up to 26kW
	Models over 26kW
50mm	

Г/90В	Models up to 26kW
/200B	Models over 26kW
500mm	
г/90В	Models up to 26kW
Г/200В	Models over 26kW
000mm	
KT/90B	Models up to 26kW
XT/200B	Models over 26kW

#### Important

Maximum height for a plume diverter kit is 6 metres. Deduct 500mm for each 45° elbow used.

45° elbow	
GPDA45/90B	Models up to 26kW
GPDA45/200B	Models over 26kW
Wall bracket	
Wall bracket GPDBRKT90B	Models up to 26kW

### White System High Level Balanced EZ-Fit flue kits

High level balanced flue kits feature the same 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 5. Deduct one metre for each additional 45° elbow used (maximum 6 elbows).

High level balanced flue hole cutting dimensions						
Model	Dimensions (mm)					
	A dia	В	C min	D min	D max	E
Vortex Pro 15/21 & 15/26	175	115	1225	1740	2130	n/a
Vortex Eco 15/21 & 21/26	175	115	1225	1740	2130	n/a
Vortex Pro 26/36 & 36/46	200	115	1275	1710	2010	n/a
Vortex Eco 26/35	200	115	1275	1710	2010	n/a
Vortex Pro 46/58 & 58/70	200	112	1600	2035	2335	n/a
Vortex Pro Combi 21 e & 26e	175	115	1225	1740	2130	n/a
Vortex Pro Combi 36e	200	115	1275	1710	2010	n/a
Vortex Eco Wall Hung 12/16 & 16/21	200	112	H+1217*	H+1732*	H+2122*	220
Vortex Boiler House 15/21 & 21/26	175	200	1215	1715	2115	n/a
Vortex Boiler House 26/35 & 36/46	200	200	1280	1700	2020	n/a
Vortex Boiler House 46/58 & 58/70	200	200	1595	2015	2335	n/a

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).

#### Dimensions

### 316 Stainless Steel

Section 'B' is the starter piece for the flue system and 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'.

Model	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

Internal High Level flue kit (white powder coated)



#### Contents of High Level balanced flue kit:

Boiler connector A Short starter section **B** Vertical telescopic section C/DHorizontal telescopic section (inc. terminal) E/F Locking bands Inner seals (red) Outer seal (black) Boiler connector Dress plates (inner & outer) Fitting Instructions Note: For height adjustment see chart on the left.

### Internal High Level balanced flue kits



Internal High Level balanced flue kits





EXT K 12 950/ C/W lockir

Extension 9 EXT K11 950

EXT K 13 ADI EXT K 14 ADJ/200 Models over 26kW

### High Level balanced flue accessories



45° Elbow ELB K21 45/9 ELB K22 45/2

Wall bra BRK 29 90 BRK 30 200

### **Offset elbows**

45° elbows can be used with High Level kits to offset the flue. Extensions can be used between elbows Elbows directly Elbows connected via fixed extension ELB K21 140 340 EXT225 EXT450 EXT950 300 455 810 500 665 1010 ELB K21 160 385 ELB K22 320 475 830 EXT225 EXT450 EXT950 545 700 1055 ELB K22





#### 1.2 metre High Level flue kit

Models up to 26kW HL K02 90/200 Models over 26kW

#### Important

If the terminal section executes below two metres, a terminal guard must be fitted. A terminal guard is required when the flue terminates less than 2 metres above outside ground level (not supplied as standard).

25mm	C/W locking band
′90	Models up to 26kW
200	Models over 26kW
50mm	C/W locking band
/90	Models up to 26kW
200	Models over 26kW
50mm	C/W locking band
′90	Models up to 26kW
200	Models over 26kW
xtensi g banc	ion 275-450mm 1
′90	Models up to 26kW
200	Models over 26kW

#### 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.

#### Important

We recommend an additional wall bracket for every 1 metre of flue extension

C/W lo	ocking band
90	Models up to 26kW
00	Models over 26kW
t	
	Models up to 26kW

Models over 26kW



ode	Х	Y
3 K21	335-455	535-655
3 K22	355-475	580-700

#### 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). We recommend an additional wall bracket for every 1 metre of flue extension

#### Important

A terminal guard is required when the flue terminates less than 2 metres above outside ground level (not supplied as standard).

\*Internal High Level balanced flue systems are compatible with all Grant boilers, with the exception of the external modules.

### White System Vertical Balanced EZ-Fit flue kits

Vertical balanced flue kits share the same 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 (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.

### **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 roof window or opening too close to the terminal.

### 316 Stainless Steel



#### VT K05 50/90 VT K06 90/200

Note: Flue pipe diameter: 150mm 180mm Excluding locking bands



Quick fit connection



### Boiler connector A Short starter section **B** Telescopic vertical sections C/D Fixed section 950mm E Terminal section F (inc. storm collar)

Contents of 3 metre balanced flue kit:

Locking bands (not shown) Inner seals (red) Ceiling dress plate (not shown) Firestop spacers (not shown) Wall bracket Fitting Instructions

Internal Vertical balanced flue kits



Internal Vertical balanced flue extensions





•	Adjustable c/w locking EXT K13 ADJ
	EXT K14 ADJ/

Vertical balanced flue accessories



**Offset elbows** 



C

#### 3 metre Vertical flue kit

VT K05 50/

VT K06 90/

90	Models up to 26kW
200	Models over 26kW

25mm	c/w locking band
i/90	Models up to 26kW
/200	Models over 26kW
150mm	c/w locking band
0/90	Models up to 26kW
/200	Models over 26kW
950mm	c/w locking band
/90	Models up to 26kW
/200	Models over 26kW
extensi g band	ion 275-450mm
/90	Models up to 26kW

200	Models over 26kW	

#### 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

#### Important

We recommend an additional wall bracket for every 1 metre of flue extension.



Note: Range of pitch 22°-45°





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

## **Red System Flexi Vertical balanced EZ-Fit** flue kits

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

## **Red System kits**

The Grant Red System is supplied in a pack consisting of two lengths of stainless steel flexible vertical flue pipe (available in lengths for 6, 8, 10 and 12 metres), a rigid/flex adaptor, telescopic flue (upper and lower), support clamp, locking band, starter section, boiler connector, fixings and screws and a tube of mastik.

### **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.

### 316 Stainless Steel

### **Offset elbows**

45° elbows can be used with High Level kits to offset the flue. Extensions can be used between elbow





#### n straight flue le from the boiler to the top of flue ningl = 20 metres.

Note: Flexi flue pipe diameter: Inner diameter - 80mm Outer diameter - 125mm

Important The Red System shares extension pieces and elbows from the White system.





**Rigid to flexible** 

balanced flue

## Flexi Vertical balanced flue pack with liner



### Rigid flue extensions & elbows (from White System)





#### Tube of Mast



6 metre Flexible flue liner pack		
GFX BF 6/26 COMR	Models up to 26kW	
8 metre Flexible flue lin	er pack	
GFX BF 8/26 COMR	Models up to 26kW	
10 metre Flexible flue liner pack		
GFX BF 10/26 COMR	Models up to 26kW	
12 metre Flexible flue li	ner pack	
GFX BF 12/26 COMR	Models up to 26kW	

cial order. Liners are directional and should be installe

band	
to 26kW	

#### 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.

### Green System External High Level/Vertical **EZ-Fit flue kits**

External high level and vertical flue 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.

### 316 Stainless Steel

Dimensions A dia	(mm) B	С
	В	
107		
12/	115	768
127	115	768
162	115	780
162	115	780
162	112	1102
127	115	768
162	105	780
127	112	H + 765*
162	115	780
162	115	780
	162 162 162 127 162 127 162	127 115   162 115   162 115   162 112   127 115   162 105   127 112   162 112   162 105   162 112

Note: \*H is the height (mm) from floor to underside of boiler casing.



Note: Dimension 'B' is given with the boiler pushed back against the rear wall. Any clearances must be added to 'B'.



External flue system

#### **Offset elbows**



Code		
GE45/90B	126	304
GE45/200B	142	343

45° elbows can be used with high level flues to create off-sets. Extensions can be used

between elbows.

#### Low Level starter kits

Standard kit = 370 to 550mm 370 to 550mm Short kit =

270 to 350mm 270 to 350mm



#### Contents of Low Level starter kit:

- Boiler connector section
- Tee section
- Side outlet cover trim Snorkel clamp (not shown)
- Dress plate
- Fixing clamp and gasket
- Lubricant (not shown)



### Stainless steel terminals

**Stainless steel** 









GEB200B

GEB90B

45° elbo

GE45/90B

	Wall brack
$\rightarrow$	GWB90B
)mm	GWB200B

### Order part reference guide

e kit
Models up to 26kW
Models over 26kW
t
Models up to 26kW
Models over 26kW
0mm c/w locking hand
50mm c/w locking band Models up to 26kW
Models op 10 20kW Models over 26kW
Wodels over 20kw
50mm c/w locking band
Models up to 26kW
B Models over 26kW
50mm c/w locking band
Models up to 26kW
B Models over 26kW
50mm c/w locking band
Models up to 26kW
B Models over 26kW
extension 195-270mm
band
B Models up to 26kW
Models over 26kW

#### Important

arter flue kits can be extended horizontally ing extensions or elbows from the Low Level , nced flue, Yellow system only. See page 3.

#### 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 mpone

### Important

Extension lengths given are effective lengths i.e. when fitted in a flue system.

Models up to 26kW
Models over 26kW

Models up to 26kW

Models over 26kW

:/w locking band	
Models up to 26kW	
Models over 26kW	
all bracket	
Models up to 26kW	
Models over 26kW	
t	
Models up to 26kW	
Models over 26kW	

## **Orange System Conventional EZ-Fit** flue kits

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 has been specifically designed for the Grant Vortex/VortexBlue boiler range to enable the existing chimney to be re-used and the appliance retained in its original position.

## **Flexi packs**

There are 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 Grant 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 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 BS5410-1:2014. 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.

Rigid extension WX 150/100

WX 150/125

WX 250/100 WX 250/125 WX 450/100 WX 450/125

WX 950/100 WX 950/12

45° elbow

WE 45/100 WE 45/125

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 21 e & 26e	170
Vortex Pro Combi 36e	205
Vortex Eco Wall Hung 12/16 & 16/21	165

## **Rigid to Flexible**

Conventional flue system



**316 Stainless Steel** 

### Smooth Bore Flexi-flue kits stainless steel



### Flue extensions white powder coated (single skin)





## Accessories white powder coated



Code

WX 950/12

c/w lockir

WXA250/10

WXA250/1

## Offset elbows



xible	flue kit
00	Models up to 46kW
25	Models over 46kW
xible	flue kit
00	Models up to 46kW
25	Models over 46kW
exibl	e flue kit
100	Models up to 46kW
125	Models over 46kW
exibl	e flue kit
100	Models up to 46kW

Models over 46kW

12 metre flexible flue kit				
GF KIT 12/100 Models up to 46kW				
GF KIT 12/125	Models over 46kW			
14 metre flexible flue kit				
14 metre flexibl	le flue kit			
14 metre flexibl GF KIT 14/100	le flue kit Models up to 46kW			

16 metre flexib	6 metre flexible flue kit		
GF KIT 16/100	Models up to 46kW		
GF KIT 16/125	Models over 46kW		

150m	m c/w locking band
0	Models up to 46kW
5	Models over 46kW
250m	m c/w locking band
0	Models up to 46kW
5	Models over 46kW
450m	m c/w locking band
00	Models up to 46kW
5	Models over 46kW
950m	m c/w locking band
0	Models up to 46kW
5	Models over 46kW
exte g ban	nsion 235-300mm Id
00	Models up to 46kW
25	Models over 46kW

lm			
1100			 1

Flue extensions cannot be cut. Orange system extensions are for vertical use only and cannot be used with Yellow or White system nponents

45° elbow c/w locking band Models up to 46kW Models over 46kW

#### Important

Wherever possible incorporate one adjustable ection. No more than two 45° elbows can be used.

Extension lengths given are effective lengths i.e. When fitted in a flue system



### Hybrid Orange to Green flue system

Using components from the Grant Orange and Green flue systems it is possible to construct bespoke flue systems to overcome specific boiler siting problems.

See page 13 for white powder coated internal Orange system components and pages 11 & 15 for external Green system and adaptors.

For further information contact the Technical Department on 01380 736920.





#### Flue adapter kit

For internal boilers only. See page 11 for extensions, elbows and terminals.



### Order part reference guide

#### **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 boilers 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.



B ⊢	Directly below an opening, air brick opening, opening window, etc. Horizontally to an opening, air brick opening, opening window, etc.	600 600	1000**
		600	
С В			1000**
	elow a gutter, eaves or balcony with protection	75*	1000**
D B	elow a gutter, eaves or balcony without protection	600	1000**
E F	rom vertical sanitary pipe work	300	
F F	rom an internal or external corner	300	
G A	bove ground or balcony level	300	
H F	rom a surface or boundary facing the terminal	600	2500**
J F	rom a terminal facing the terminal	1200	
K V	/ertically from a terminal on the same wall	1500	
L H	torizontally from a terminal on the same wall	750	
M A	bove the highest point of an intersection with the roof	600	
N F	rom a vertical structure to the side of the terminal	750	
O A	bove a vertical structure less than 750 mm from the side of the terminal	600	
P F	rom a ridge terminal to a vertical structure on the roof	1500	
Q A	bove or to the side of any opening on a flat or sloping roof	300	
R B	elow any opening on a sloping roof	1000	
S F	rom oil storage tank (Class 1)	1800***	

EZ O CONVENTIONAL FLUE DESIGN SERVICE

#### 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: +44 (0) 1380 736920 for further details.

#### Note:

A heat shield at least 750mm wide must be fitted to provide protection of combustible material

\* \* \*\* Clearances required by BS 5410-1:2014 to alleviate the effect of plume nuisance. If a risk assessment shows that there will be no impact from pluming, then the 'pressure jet' figure could apply - seek confirmation from Local Authority Building Control.

\*\*\* Seek guidance from OFTEC Book 3 (Oil Storage and Supply).

Appliances burning class D fuel have additional restrictions. Refer to BS 5410-1:2014

Vertical structure in N, O and P includes tank or lift rooms, parapets, dormers, etc. 2

Terminating positions A to L are only permitted for appliances that have been approved for low level flue discharge when tested in accordance with BS EN 303-1, OFS A100 or OFS A101 3.

4. Terminating positions should be at least 1.8 metres from an oil storage tank (Class 1) unless a wall with at least 30 minutes fire resistance and extending 300 mm higher and wider than the tank is provided between the tank and the terminating position

Where a flue is terminated less than 600 mm away from a projection above it and the projection consists of plastics or has a combustible or painted surface, then a heat shield of at least 750 mm wide should be fitted to protect these surfaces.

If the lowest part of the terminal is less than 2 metres above the ground, balcony, flat roof or other place to which any person has access, the terminal should be protected by a guard. 6. 7.

7. Notwithstanding the dimensions given above, a terminal should not be sited closer than 300 mm to combustible material. In the case of a thatched roof, double this separation distance should be provided. It is also advisable to treat the thatch with a fire retardant material and close wire in the immediate vicinity of the flue.

A flue or chimney should not pass through the roof within the shaded area delineated by dimensions Q and R. 8. Where protection is provided for plastics components, such as guttering, this should be to the standard specified by the manufacturer of the plastics components. 9.

10. Terminals must not be sited under car ports.

11. Terminals at low levels (terminals under 2.1 metres) have more restrictive recommendations and should not be positioned near public foot ways, frequently used access routes, car parking spaces less than 2.5 metres from the terminal or patio's (hard surface area).

Further guidance can be obtained from BS 5410-1:2014, OFTEC Book 4 (Installation) and Approved Document J.

Grant UK flue products are fully compliant with the CE (Communauté Européenne/European Community) standards having undergone rigorous product testing.

This leaflet is accurate at the time of printing but as Grant UK has a policy of continual improvement it may be superseded. We reserve the right to amend specifications without prior notice. The statutory rights of the consumer are not affected

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