

# The High Output LBF GCE range

## High efficiency gas fired Water Heaters

### Flueing Specifications

#### Models:

LBF120GCE  
LBF160GCE  
LBF240GCE  
LBF320GCE  
LBF382GCE



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**FLUE SPECIFICATION**  
**HORIZONTAL CONCENTRIC BALANCED FLUE**

HIGH OUTPUT LBF GCE MODELS

**LBF120GCE (80/125 Flue System)**

**PART NO: GLBFH001 - HORIZONTAL FLUE KIT**

Maximum Equivalent Flue Length = 7 Metres

Each Horizontal Flue Kit Includes all items marked as Std Spec

<b>Part No</b>	<b>Description</b>	<b>Std Spec</b>
M75371	Wall Terminal – 80/125	1
M86618	Extension – 80/125 x 500mm	1
M86603	90° Elbow – 80/125	1
M86617	Flue Analyser Test Point – 80/125	1
M86618	Extension – 80/125 x 500mm	
M86612	Extension – 80/125 x 1000mm	
M86592	45° Elbow – 80/125	
M86603	90° Elbow – 80/125	

**FLUE SPECIFICATION**  
**HORIZONTAL CONCENTRIC BALANCED FLUE**

HIGH OUTPUT LBF GCE MODELS

**LBF160GCE (100/150 Flue System)**

**PART NO: GLBFH002 - HORIZONTAL FLUE KIT**

Maximum Equivalent Flue Length = 7 Metres

Each Horizontal Flue Kit Includes all items marked as Std Spec

<b>Part No</b>	<b>Description</b>	<b>Std Spec</b>
M87990	Wall Terminal – 100/150	1
M87886	Extension – 100/150 x 500mm	1
M87890	90° Elbow – 100/150	1
M87887	Flue Analyser Test Point – 100/150	1
M87886	Extension – 100/150 x 500mm	
M87883	Extension – 100/150 x 1000mm	
M87891	45° Elbow – 100/150	
M87890	90° Elbow – 100/150	

**FLUE SPECIFICATION**  
**HORIZONTAL CONCENTRIC BALANCED FLUE**

HIGH OUTPUT LBF GCE MODELS

**LBF240GCE (130/200 Flue System)**

**PART NO: GLBFH003 - HORIZONTAL FLUE KIT**

Maximum Equivalent Flue Length = 7 Metres

Each Horizontal Flue Kit Includes all items marked as Std Spec

<b>Part No</b>	<b>Description</b>	<b>Std Spec</b>
M75342	Wall Terminal – 130/200	1
M87646	Extension – 130/200 x 500mm	1
M75335	90° Elbow – 130/200	1
M87647	Flue Analyser Test Point – 130/200	1
M87646	Extension – 130/200 x 500mm	
M87644	Extension – 130/200 x 1000mm	
M75336	45° Elbow – 130/200	
M75335	90° Elbow – 130/200	

**FLUE SPECIFICATION  
HORIZONTAL CONCENTRIC BALANCED FLUE**

HIGH OUTPUT LBF GCE MODELS

**LBF320GCE, LBF382GCE (130/130 Twin Flue System)**

**PART NO: GLBFH004 - HORIZONTAL FLUE KIT**

Maximum Equivalent Flue Length = 7 Metres

Each Horizontal Flue Kit Includes all items marked as Std Spec

<b>Part No</b>	<b>Description</b>	<b>Std Spec</b>
M75405	Wall Terminal – 130/200	1
M86546	Extension – 130mmØ x 500mm (x2)	1
M86512	90° Elbow – 130mmØ (x2)	1
M79635	Adapter Parallel to Concentric – 130/130 x 130/200	1
M75329	Clamp 200mm	1
M86546	Extension – 130mmØ x 500mm (x2)	
M86547	Extension – 130mmØ x 1000mm (x2)	
M86509	45° Elbow – 130mmØ (x2)	
M86512	90° Elbow – 130mmØ (x2)	

**FLUE SPECIFICATION**  
**VERTICAL CONCENTRIC BALANCED FLUE**

HIGH OUTPUT LBF GCE MODELS

**LBF120GCE (80/125 Flue System)**

**PART NO: GLBFV001 - VERTICAL FLUE KIT**

Maximum Equivalent Flue Length = 7 Metres

Each Vertical Flue Kit Includes all items marked as Std Spec

Part No	Description	Std Spec
M75370	Roof Terminal – 80/125	1
M86612	Extension – 80/125 x 1000mm	1
M86617	Flue Analyser Test Point – 80/125	1
M86618	Extension – 80/125 x 500mm	
M86612	Extension – 80/125 x 1000mm	
M86592	45° Elbow – 80/125	
M86603	90° Elbow – 80/125	
M87376	Flat Roof Connection Flashing	
M87909	Universal Roof Tile	

**FLUE SPECIFICATION**  
**VERTICAL CONCENTRIC BALANCED FLUE**

HIGH OUTPUT LBF GCE MODELS

**LBF160GCE (100/150 Flue System)**

**PART NO: GLBFV002 - VERTICAL FLUE KIT**

Maximum Equivalent Flue Length = 7 Metres

Each Vertical Flue Kit Includes all items marked as Std Spec

Part No	Description	Std Spec
M30530	Roof Terminal – 100/150	1
M87832	Extension – 100/150 x 1000mm	1
M87887	Flue Analyser Test Point – 100/150	1
M87886	Extension – 100/150 x 500mm	
M87883	Extension – 100/150 x 1000mm	
M87891	45° Elbow – 100/150	
M87890	90° Elbow – 100/150	
M87379	Flat Roof Flashing	
M87913	Pitched Roof Connection Plate – 100/150	



**FLUE SPECIFICATION**  
**VERTICAL CONCENTRIC BALANCED FLUE**

HIGH OUTPUT LBF GCE MODELS

**LBF240GCE (130/200 Flue System)**

**PART NO: GLBFV003 - VERTICAL FLUE KIT**

Maximum Equivalent Flue Length = 7 Metres

Each Vertical Flue Kit Includes all items marked as Std Spec

Part No	Description	Std Spec
M75341	Roof Terminal – 130/200	1
M87644	Extension – 130/200 x 1000mm	1
M87647	Flue Analyser Test Point – 130/200	1
M87646	Extension – 130/200 x 500mm	
M87644	Extension – 130/200 x 1000mm	
M75336	45° Elbow – 130/200	
M75335	90° Elbow – 130/200	
M75326	Flat Roof Connection Plate – 210mmØ	

**FLUE SPECIFICATION**  
**VERTICAL CONCENTRIC BALANCED FLUE**

HIGH OUTPUT LBF GCE MODELS

**LBF320GCE, LBF382GCE (130/130 Twin Flue System)**

**PART NO: GLBFV004 - VERTICAL FLUE KIT**

Maximum Equivalent Flue Length = 7 Metres

Each Vertical Flue Kit Includes all items marked as Std Spec

Part No	Description	Std Spec
M75406	Roof Terminal – 130/200	1
M86547	Extension – 130mm $\varnothing$ x 1000mm (x2)	1
M79635	Adapter Parallel to Concentric – 130/130 x 130/200	1
M75329	Clamp With EPDM Seal Dia 200mm	1
M86546	Extension – 130mm $\varnothing$ x 500mm (x2)	
M86547	Extension – 130mm $\varnothing$ x 1000mm (x2)	
M86509	45° Elbow – 130mm $\varnothing$ (x2)	
M86512	90° Elbow – 130mm $\varnothing$	
M75326	Flat Roof Connection Plate – 210mm $\varnothing$	

## MAXIMUM FLUE LENGTHS

Type of installation :

C<sub>13</sub>, C<sub>33</sub>

The installation should meet the following requirements:

- The maximum permitted flue length is at 7 metres.
- The maximum number of 45° or 90° bends, within the 7 metre flue run is two.
- If you install a horizontal flue, it must be installed with a slope of 5mm per metre falling back to the water heater.
- Make sure the flue outlet area in which it is placed is permitted for that device category.

### Concentric Flue System

Unit	Diameter - mm	Maximum flue length - metres	Maximum number of bends
LBF120GCE	80/125	7	2
LBF160GCE	100/150	7	2
LBF240GCE	130/200	7	2
LBF320GCE	-	-	-
LBF382GCE	-	-	-

### Parallel Flue System

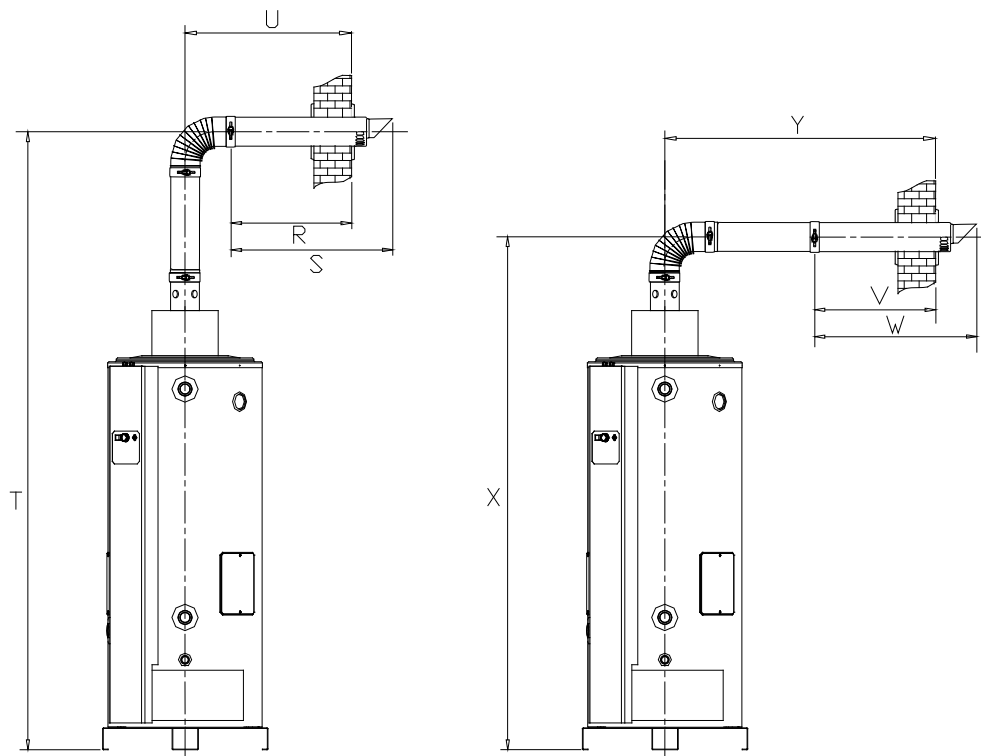
Unit	Diameter - mm	Maximum flue length - metres	Maximum number of bends
LBF120GCE	-	-	-
LBF160GCE	-	-	-
LBF240GCE	-	-	-
LBF320GCE	130	7	2
LBF382GCE	130	7	2

#### PLEASE NOTE:

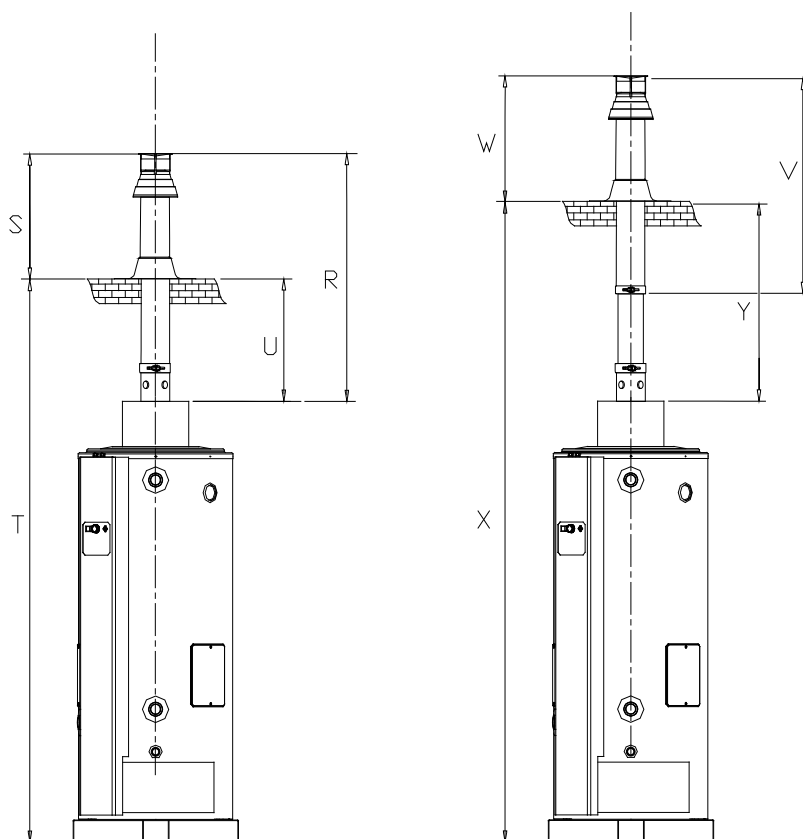
IF LESS THAN THE MAXIMUM NUMBER OF BENDS ARE USED, YOU SHOULD STILL ADHERE TO THE MAXIMUM FLUE LENGTH.

IF LESS THAN THE MAXIMUM STATED FLUE LENGTH IS USED, YOU SHOULD STILL ADHERE TO THE MAXIMUM NUMBER OF PERMITTED BENDS.

## MINIMUM SPACE REQUIREMENTS



**FIGURE 1.1: DIMENSIONS LBF120GCE, LBF160GCE, LBF240GCE HORIZONTAL**



**FIGURE 1.2: DIMENSIONS LBF120GCE, LBF160GCE, LBF240GCE VERTICAL**

Dimensions for horizontal termination mm			
	LBF120GCE	LBF160GCE	LBF240GCE
R	550	550	550
S	725	790	940
T	2735	2735	2755
U	735	755	770
V	550	550	550
W	725	790	940
X	2285	2285	2305
Y	1195	1205	1215

**FIGURE 1.2: DIMENSIONS LBF120GCE, LBF160GCE, LBF240GCE HORIZONTAL**

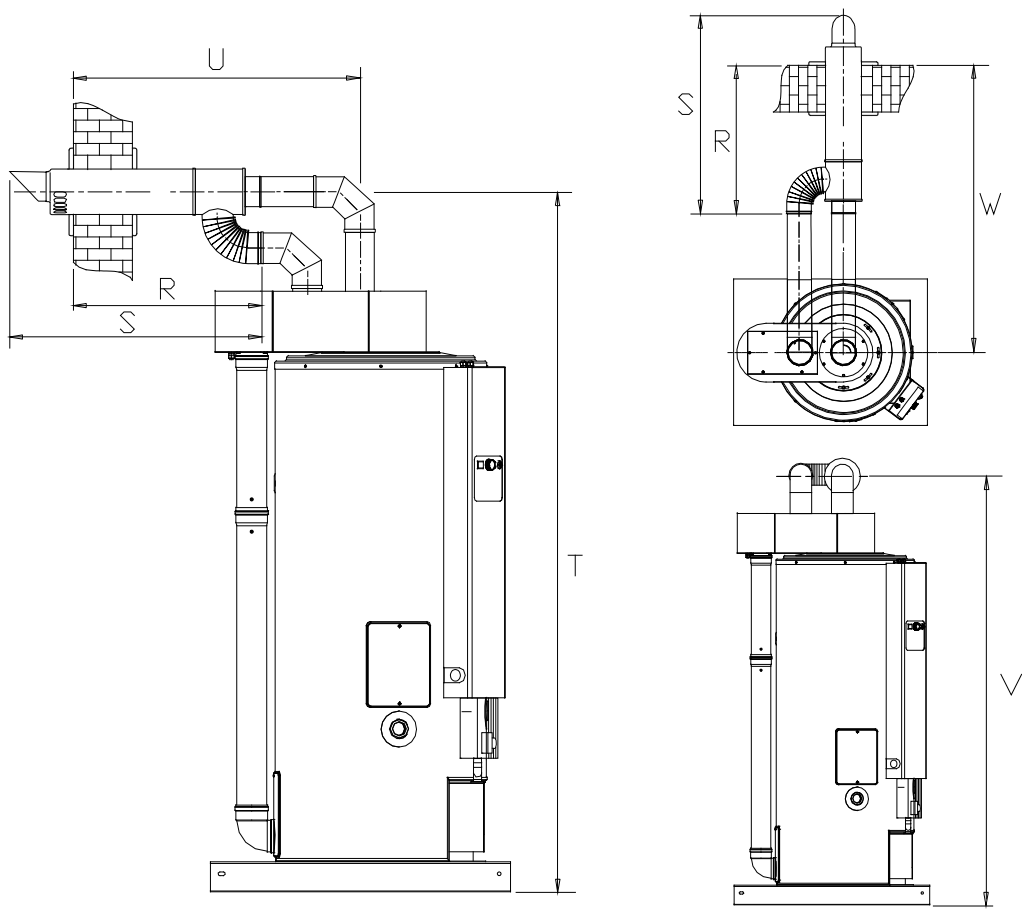
Dimensions for vertical termination mm			
	LBF120GCE	LBF160GCE	LBF240GCE
R	1350	1430	1700
S	605	645	870
T	3350	3000	2880
U	876	876	876
V	1230	1430	1645
W	605	645	880
X	3815	3940	3815
Y	1815	1815	1815

**TABLE 1.1: DIMENSIONS LBF120GCE/ LBF160GCE/ LBF240GCE VERTICAL**

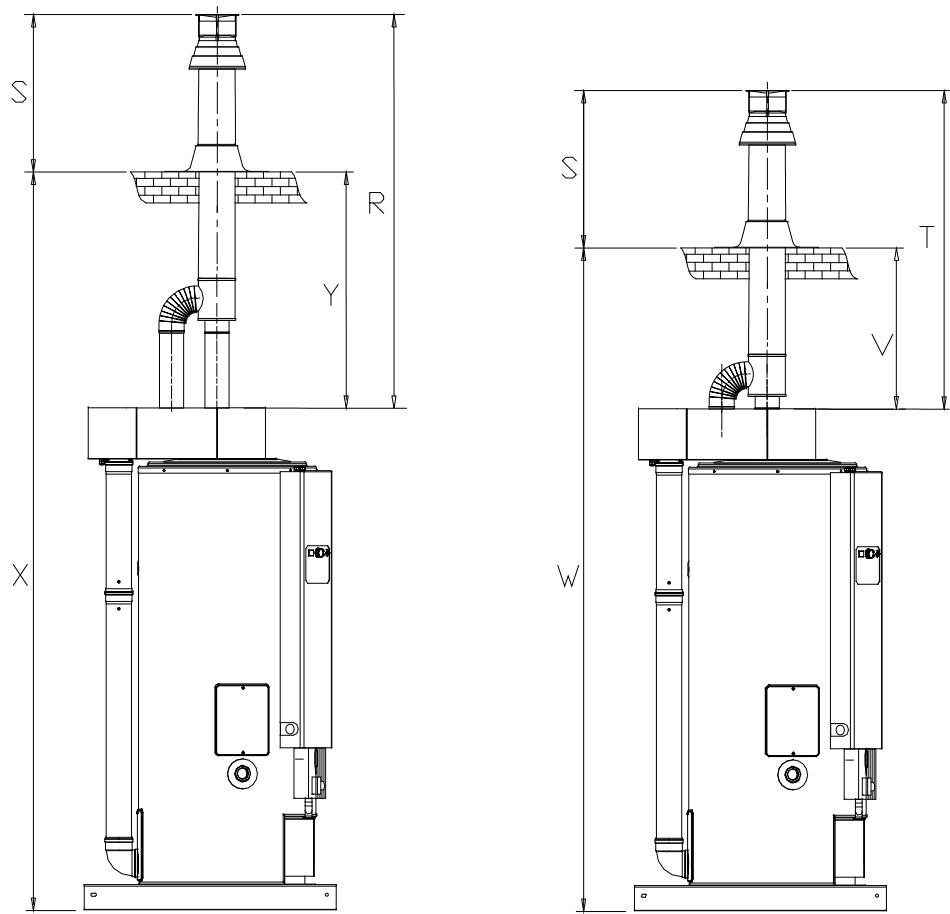
## INSTALLATION CLEARANCES

When installing the flue, we would recommend that any holes drilled or openings made, have a clearance of 5mm from the outside of the flue pipe.

This would mean that a Ø 200mm flue would require a hole or opening of Ø 210mm.



**FIGURE 2.1: DIMENSIONS LBF320GCE, LBF382GCE, HORIZONTAL**



**FIGURE 2.2: DIMENSIONS LBF320GCE, LBF382GCE, VERTICAL**

<b>Dimensions for horizontal termination mm</b>		
	<b>LBF320GCE</b>	<b>LBF382GCE</b>
R	690	690
S	1070	1070
T	2400	2400
U	1100	1100
V	2140	2140
W	870	870

**TABLE 2.1: DIMENSIONS LBF320GCE/ LBF382GCE HORIZONTAL**

<b>Dimensions for vertical termination mm</b>		
	<b>LBF320GCE</b>	<b>LBF382GCE</b>
R	2560	2560
S	1000	1000
T	1560	1560
X	3580	3580
V	610	610
W	2630	2630

**TABLE 2.2: DIMENSIONS LBF320GCE/ LBF382GCE VERTICAL**











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