

## *Technical Information*

### **Balanced Flue Options for Gas Stoves, Riva Cassettes, Linea, E-Box/E-Studio, Studios 1, 2 & 3 and Riva2 800 & 1050**

#### **IMPORTANT**

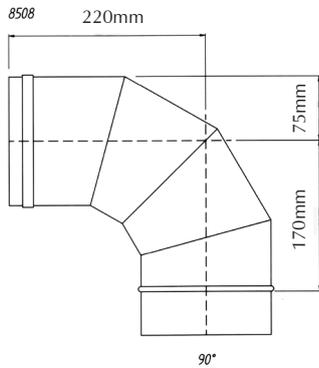
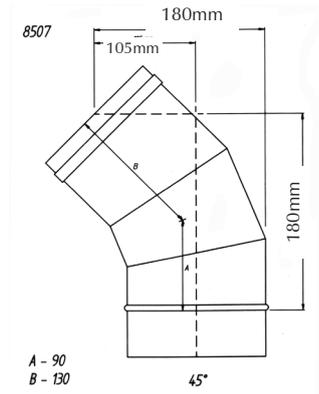
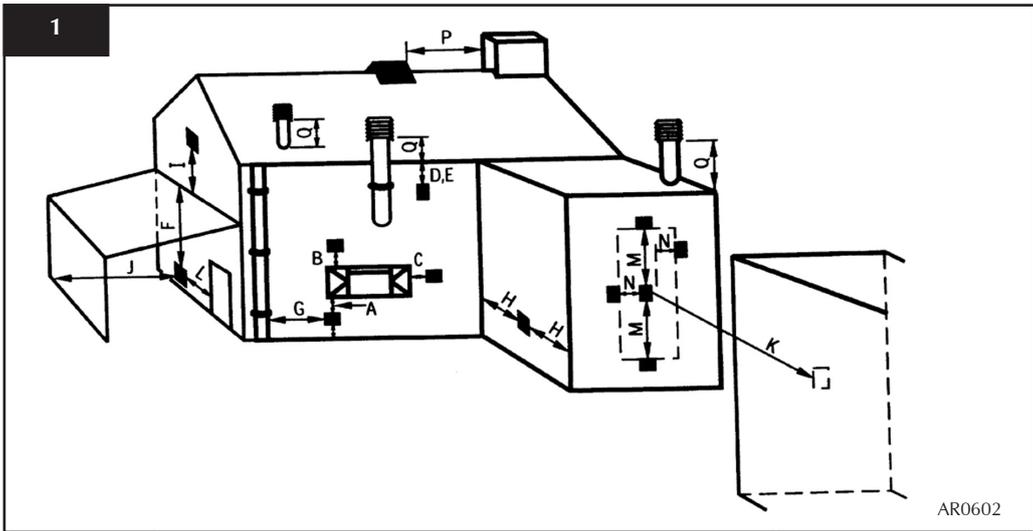
Balanced flues for stoves or fires are different to Conventional flues because the appliance is a sealed unit, drawing air for combustion from outside and discharging the products of combustion through the same external flue terminal. The flue has an outer tube to bring in the air and an inner tube to expel the gases.

The flue parts are stainless steel or anthracite finish. If an alternative finish is needed, the surface must be rubbed down with a fine wet and dry emery paper and wiped over with white spirit to remove any oil before painting.

Medium Balanced flue stoves have top or rear exit options as standard. The Riva, Riva 2 and Studio have a top exit only. Small Balanced flue appliances, Linea and E-Box/E-Studio are rear exit only. All appliances must use one of the flue systems listed.

No additional ventilation is required with a Balanced flue.

**NOTE:** Most configurations of flue require a restrictor to be fitted. Refer to each appliance's *Technical Specifications* given in the *Installation Instructions*.

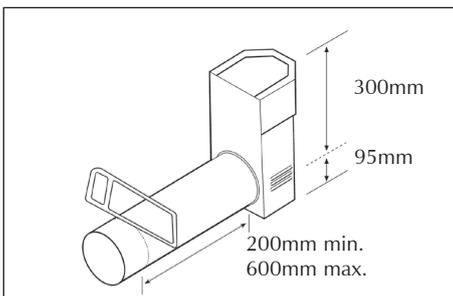


Dimension	Terminal Position	Minimum Distance (mm)
A	Directly below an opening, air brick (0-7 kW), opening windows, etc (>7-14 kW)	300mm 600mm
B	Above an opening, air brick (0-7kW) opening windows, etc (>7-14kW)	300mm 300mm
C	Horizontal to an opening, air brick (0-7kW) opening windows, etc (>7-14kW)	300mm 400mm
D*	Below gutters, soil pipes or drain pipes	300mm
E*	Below eaves	300mm
F	Below balconies or car port roof	600mm
G	From a vertical drain pipe or soil pipe	300mm
H	<b>From an internal or external corner</b>	600mm
I	Above ground roof or balcony level	300mm
J	From a surface facing the terminal	600mm
K	From a terminal facing the terminal	600mm
L	From an opening in the car port (e.g. door, window) into dwelling	1200mm
M	Vertically from a terminal on the same wall	1500mm
N	Horizontally from a terminal on the same wall	300mm
O	From the wall on which the terminal is mounted	N/A
P	From a vertical structure on the roof	600mm
Q	Above intersection with roof	300mm

\*In addition, the terminal should not be nearer 300mm (natural draught) to an opening in the building fabric formed for the purpose of accommodating a built-in element such as a window frame.

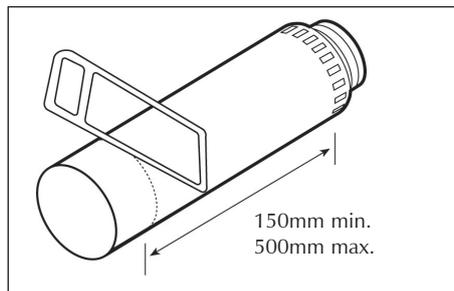
### Rear flue 8526 (Stoves only)

Terminal dimensions:  
395 x 200 x 200mm (H x W x D)  
Cut to length as required on site



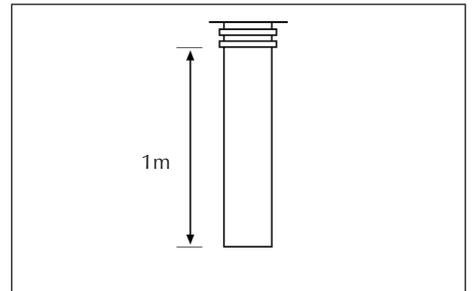
### Top exit, up & out terminal length (8523, 8534, 8509, 8567, 8708 kits)

(Also used on the rear outlet Linea, E-Box/E-Studio & Studio 22)  
Cut to length as required on site

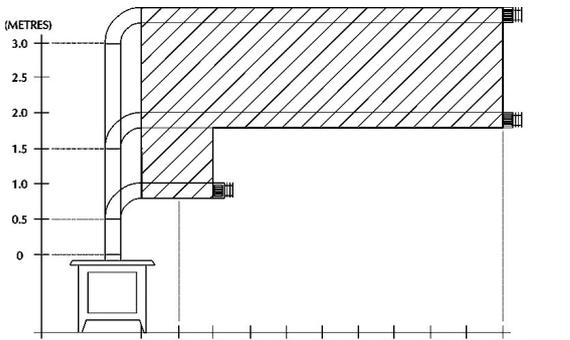
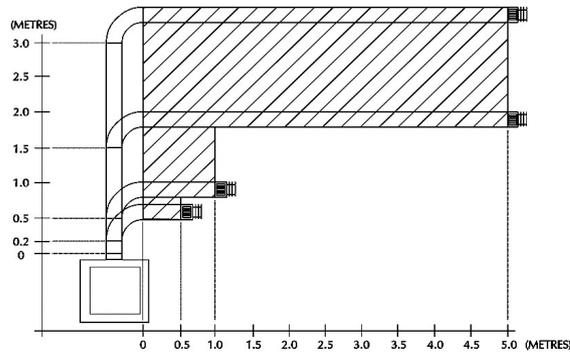


### Top exit, vertical (8524)

Cannot be cut



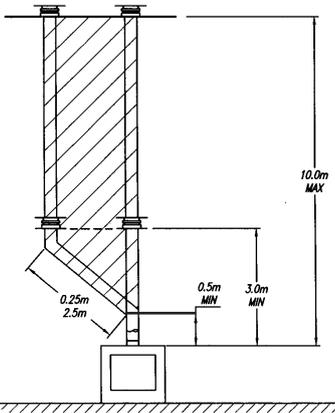
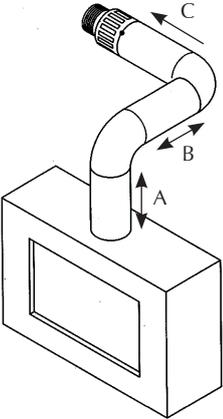
# FLUE OPTIONS

<p><b>1. REAR FLUE KIT - 8526 - STOVES ONLY:</b> <i>Small Balanced Flue stoves only ever use this kit</i></p>	<p><b>HORIZONTAL FROM THE REAR OF THE Appliance</b></p>
<p>This rear flue allows for a maximum wall thickness of 600mm* which includes the 50mm prescribed clearance between the back of the appliance and the surface of the internal wall.</p> <p>*The Manhattan appliance requires an additional 50mm clearance at the rear for the side panels, reducing the useable flue length by 50mm to 550mm</p> <ul style="list-style-type: none"> <li>• Cut to length as required</li> </ul>	
<p><b>2. REAR FLUE KIT - 8708 - E-BOX/E-STUDIO &amp; STUDIO 22 ONLY:</b></p>	
<p>1 x 500mm length.</p> <ul style="list-style-type: none"> <li>• Cut to length as required</li> </ul>	
<p><b>3. TOP FLUE UP &amp; OUT KIT (8523/8523AN) - RIVA 2 1050 &amp; STOVES ONLY</b></p>	<p><b>VERTICAL FROM THE TOP OF THE APPLIANCE AND THEN HORIZONTALLY OUT</b></p>
<p>The basic kit comprises:</p> <ul style="list-style-type: none"> <li>1 x 500mm vertical length</li> <li>1 x 500mm terminal length (cut to length on site)</li> <li>1 x 90 degree elbow</li> <li>1 x wall plate</li> <li>1 x 75mm restrictor fixing screws</li> <li>1 x Fixing screw pack</li> </ul> <p>The supplied kit contains the minimum requirements but extra lengths can be added to the vertical and horizontal, see <i>Diagram 2</i> and table 10 or the <i>Installation Instructions</i> for the appliance.</p> <p><b>TOP FLUE UP &amp; OUT WITH ADDITIONAL BEND</b> A further bend may be used on the horizontal section (either 45° or 90°) but the overall horizontal flue run is reduced, <i>Diagram 7</i>.</p>	<p><b>2</b> Top Flue up &amp; out <b>Riva 2 - 1050 &amp; Stoves only</b></p> 
<p><b>4. TOP FLUE UP &amp; OUT KIT (8534/8534AN) - RIVA, RIVA 2 800, STUDIO 1 &amp; 22 ONLY</b></p>	<p><b>VERTICAL FROM THE TOP OF THE APPLIANCE THEN HORIZONTALLY OUT</b></p>
<p>The basic kit comprises:</p> <ul style="list-style-type: none"> <li>1 x 200mm vertical length</li> <li>1 x 500mm terminal length (cut to length on site)</li> <li>1 x 90 degree elbow</li> <li>1 x wall plate</li> <li>1 x 70mm restrictor</li> <li>1 x 60mm restrictor</li> <li>1 x 75mm restrictor fixing screws</li> <li>1 x Fixing screw pack</li> </ul> <p>The supplied kit contains the minimum requirements. (Note that with a 200mm rise you can only use a 500mm terminal length or less). If needed, add extra lengths to the vertical and horizontal as given <i>Diagram 3</i> and Table 10 or the <i>Installation Instructions</i> for the appliance.</p> <p><b>TOP FLUE UP &amp; OUT WITH ADDITIONAL BEND</b> A further bend may be used on the horizontal section (either 45° or 90°) but the overall horizontal flue run is reduced, <i>Diagram 7</i>.</p>	<p><b>3</b> Riva, Riva 2 - 800 + Studio 1 &amp; 22</p> 

# FLUE OPTIONS

<p><b>5. TOP FLUE UP &amp; OUT KIT (8509/8509AN) - STUDIO 2 ONLY</b></p>	<p><b>VERTICAL FROM THE TOP OF THE APPLIANCE THEN HORIZONTALLY OUT - Studio 2 requires a minimum 700mm rise from the top of the unit</b></p>
<p>The basic kit comprises:</p> <ul style="list-style-type: none"> <li>1 x 200mm vertical length</li> <li>1x 500mm vertical length</li> <li>1 x 500mm terminal length (cut to length on site)</li> <li>1 x 90 degree elbow</li> <li>1 x wall plate</li> <li>1 x 75mm restrictor</li> </ul> <p>The supplied kit contains the minimum requirements. (Note that with a 700mm rise you can only use a 500mm terminal length or less). If needed, add extra lengths to the vertical and horizontal as given in <i>Diagram 4</i> and Table 10 or the <i>Installation Instructions</i> for the appliance.</p> <p><b>TOP FLUE UP &amp; OUT WITH ADDITIONAL BEND</b> A further bend may be used on the horizontal section (either 45° or 90°) but the overall horizontal flue run is reduced, <i>Diagram 7</i>.</p>	<p><b>4</b></p> <p style="text-align: center;"><b>Studio 2</b></p>
<p><b>6. TOP FLUE UP &amp; OUT KIT (8567/8567AN) - STUDIO 3 ONLY</b></p>	<p><b>VERTICAL FROM THE TOP OF THE APPLIANCE THEN HORIZONTALLY OUT - Studio 3 requires a minimum 1000mm rise from the top of the unit</b></p>
<p>The basic kit comprises:</p> <ul style="list-style-type: none"> <li>1 x 1000mm vertical length</li> <li>1x 500mm vertical length</li> <li>1 x 500mm terminal length (cut to length on site)</li> <li>1 x 90 degree elbow</li> <li>1 x wall plate</li> </ul> <p>The supplied kit contains the minimum requirements. (Note that with a 1000mm rise you can only use a 500mm terminal length or less). If needed, add extra lengths to the vertical and horizontal as given in <i>Diagram 5</i> and Table 10 or the <i>Installation Instructions</i> for the appliance.</p> <p><b>TOP FLUE UP &amp; OUT WITH ADDITIONAL BEND</b> A further bend may be used on the horizontal section (either 45° or 90°) but the overall horizontal flue run is reduced, <i>Diagram 7</i>.</p>	<p><b>5</b></p> <p style="text-align: center;"><b>Studio 3</b></p>

# FLUE OPTIONS

7. TOP FLUE VERTICAL KIT (8524/8524AN) - ALL APPLIANCES	VERTICAL FROM THE TOP OF THE APPLIANCE																												
<p>A minimum vertical rise of 3m to a maximum of 10m. The basic kit comprises:</p> <ul style="list-style-type: none"> <li>2 x 1m lengths</li> <li>1 x 1m terminal length</li> <li>1 x 60mm restrictor</li> <li>1 x 52mm restrictor</li> <li>1 x 47mm restrictor</li> <li>1 x 70mm restrictor</li> </ul> <p>Extra lengths can be added, <i>Diagram 3</i> above and the <i>Installation Instructions</i> of the appliance.</p>	<p><b>6</b></p>  <p>Top exit, vertical</p>																												
8. TOP FLUE VERTICAL OFFSET KIT (8530/8530AN) - ALL APPLIANCES <i>Used with kit 8524 only, see diagram 6</i>																													
<p>A minimum rise of 500mm is required to the first bend. Refer to <i>Diagram 6</i> and the installation instructions provided with the appliance.</p>																													
9. TOP FLUE UP & OUT WITH ADDITIONAL BEND	<p><b>7</b></p>  <p>Top Flue up &amp; out with additional bend.</p> <p>Either 40° or 90°</p> <p>When A = 1.0 to 1.499 metres B+C = 1.0 metre max.</p> <p>When A = 1.499 to 3.0 metres B+C = 4.0 metres max.</p> <p><b>For Studio 3 only</b></p> <p>When A = 1.5 to 2.499 metres B+C = 1.0 metre max.</p> <p>When A = 2.5 to 3.0 metres B+C = 4.0 metres max.</p>																												
10. TABLE OF OPTIONAL EXTRA FLUE LENGTHS & BENDS	11. TERMINAL GUARDS																												
<table border="1"> <thead> <tr> <th>NOMINAL LENGTH</th> <th>ACTUAL LENGTH</th> <th>STAINLESS FINISH</th> <th>ANTHRACITE FINISH</th> </tr> </thead> <tbody> <tr> <td>200mm</td> <td>140mm</td> <td>8527</td> <td>8527AN</td> </tr> <tr> <td>500mm</td> <td>440mm</td> <td>8528</td> <td>8528AN</td> </tr> <tr> <td>1000mm</td> <td>940mm</td> <td>8529</td> <td>8529AN</td> </tr> <tr> <td>45° Bend</td> <td>N/A</td> <td>8507</td> <td>8507AN</td> </tr> <tr> <td>90° Bend</td> <td>N/A</td> <td>8508</td> <td>8508AN</td> </tr> <tr> <td>Optional Flue Collar (Appliances Only)</td> <td></td> <td>N/A</td> <td>8548</td> </tr> </tbody> </table>	NOMINAL LENGTH	ACTUAL LENGTH	STAINLESS FINISH	ANTHRACITE FINISH	200mm	140mm	8527	8527AN	500mm	440mm	8528	8528AN	1000mm	940mm	8529	8529AN	45° Bend	N/A	8507	8507AN	90° Bend	N/A	8508	8508AN	Optional Flue Collar (Appliances Only)		N/A	8548	<p>Any terminal which is less than 2 metres above any area where people have access must be fitted with a guard. Guards are supplied in all Rear Flue systems. If no guard is supplied as part of the kit, you must order from: MEC0270</p>
NOMINAL LENGTH	ACTUAL LENGTH	STAINLESS FINISH	ANTHRACITE FINISH																										
200mm	140mm	8527	8527AN																										
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90° Bend	N/A	8508	8508AN																										
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