

The facility is capable of accommodating chimney heights up to 5.5 **metres** above the floor of the test room. For all tests, a chimney length of 3.66 m was used, which gave an **overall** height of about 4.6 m from the floor of the test chamber. This is, in most cases, the minimum height recommended by the manufacturers. The minimum height was selected because it was anticipated that it would provide the minimum draft for the testing, and that spillage would be most critical with minimum draft.

2.2 Test Fireplaces

Five fireplaces were chosen for testing, to represent the broad range of units found on the market. Table 1 provides a general description of each unit.

Table 1: Description of Fireplaces Tested

Unit	Relative Tightness of Firebox & Doors	Outdoor Air Supply Termination	Outdoor Air Duct Size	Firechamber Lining	Other
A	Loose	Circulation Plenum	100mm diameter	Refractory	
B	Medium	Circulation Plenum	83 x 254 mm	Metal	Fan Forced Circulation & Combustion Air
C	Tight	Circulation Plenum	100mm diameter	Refractory	
D	Very Tight	Firebox	100mm diameter	Metal	
E	Loose	Firebox	100 mm diameter	Refractory	Air-cooled Chimney

For **units** A, B and C, the outdoor air supplies terminated in the plenum where air circulated to remove heat **from** the **fireplace**. Unit A had no connection between the circulation air plenum and the **firebox**. Units B and C had combustion air drawn from