

A1 Bridge Flue Systems

Avent Balanced Flue Systems





PRINCIPLE OF OPERATION

The AVENT balanced flue terminal is the most complete balanced flue system on the market.

The system allows a balance between the air inlets and the exhaust outlets, this is achieved by both being in a zone of normally equal pressure. Down draught is therefore eliminated, allowing the boiler(s) to operate at maximum efficiency.

The AVENT balanced flue always operates at the optimum efficiency no matter what the wind conditions.

During calm conditions

The natural buoyancy of the flue gases causes clean air to be drawn in via the louvre vents, through one or more of the segmented compartments within the terminal and down into the boiler room. The temperature difference between the ambient air and the boiler room helps to create convection currents. Air changes take place when warm stale air is vented through the remaining segmented compartments.

During windy conditions

The effect of any excess air on the flue is taken away by the system. Clean air is forced, via the louvered vents, through the segmented compartments within the terminal on the windward side and down into the boiler room. At the same time, an amount of excess air is vented through the segmented compartments on the leeward side of the terminal.

The products of the combustion are exhausted through a heavily insulated stainless steel flue which is built into the central core of the terminal. As the flue outlet and the air inlet are at the same level consequently in the same pressure zone, this ensures that even a small variation in wind pressure affects the inlets and outlet equally, thus creating an equilibrium and a balanced condition within the boiler room at all times.

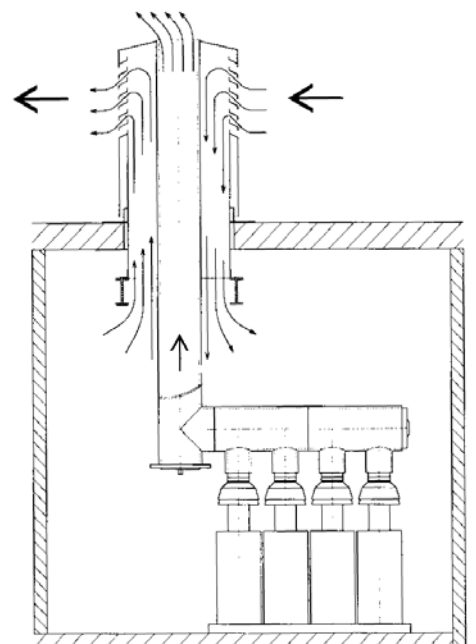
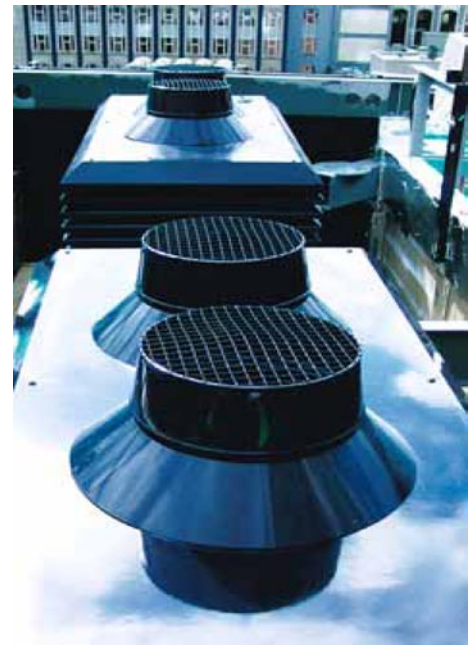
Why choose the AVENT balanced flue system?

- No matter what the wind speed the terminal will always allow the air to flow through.
- Generally no need for a mechanical means of ventilation at low levels
- Units can be coloured to any RAL or BS 4800 colour
- Maintenance free
- Eliminates any excessive condensation
- Guaranteed balance between air and exhaust
- Downdraught eliminated
- Choice between square, rectangular or circular (single or multiple flues) units

THE CLEAN AIR ACT

At A1 Bridge Flue we ensure that every effort is made to conform with the Clean Air Act memorandum of 1956 and the chimney heights of 1981, (which were due to be replaced by the joint European document of 1992). The new Clean Air Act of 1994 and the 'D1' of July 1996 by Her Majesty's Inspector of Pollution.

We believe that the importance placed on this issue by us means that you, the customer need not have to worry.





A1 Bridge Flue Systems are long established manufacturers of flue systems supplied throughout the U.K. A1 Flue Systems may be tailor made to suit your exact requirements.

Installations are designed in house by our own design team, operating the latest computer technology.

All flue components are manufactured in our own factory using computer controlled pattern cutting and hand assembly. This allows for efficient production of standard components & specials to be produced often without extended delivery dates.

Quality assurance to ISO9002

Cert. No. 1273/97



Certificate No. 1273/97

