

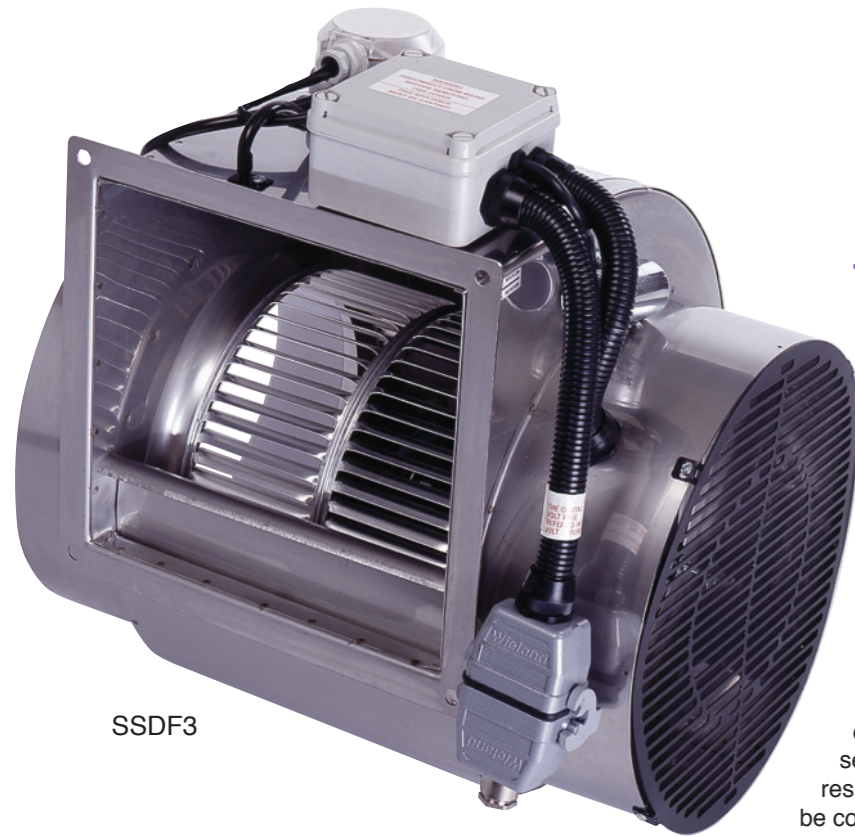
Safety

- **Differential Pressure safety Switch** which will activate if the fan stops operating or if the duct system becomes blocked, thus shutting down the boiler.



Ease of Use

- **6 or 10 Pole Plug and Socket** for easy wiring and installation



The Range

The Airflow Range of Ecodesign ErP 2013/2015 Compliant flue dilution fans is available in 5 sizes to satisfy the dilution needs of industrial and commercial boilers rated up to 650 kW (2,200,000 Btu) input.

Each size is available in standard form (GBDF series) for atmospheric boilers and water heaters of circa 75% efficiency. If excessive corrosion causing the failure of a GBDF series unit is due to the presence of residual condensate, then this will not be covered by our warranty.

Enhanced corrosion resistance versions (SSDF series) with stainless steel fan cases are also available for installation where regulations or the specification calls for stainless steel ducting, and when higher efficiency boilers such as modular designs are likely to produce condensation. SSDF's are therefore recommended for installations where condensation will occur.

Typical Installations

Important when designing and installing a dilution system incorporating Airflow flue dilution fans, attention should be paid to the latest edition of the following standards and guides.

- BS6644: 2005 Installation of gas fired hot water boilers of rated input between 60 kW and 2 MW.
- The Institute of Gas Engineers & Managers Utilization procedure IGE/UP/10-Edition 3. Installation of Gas Appliances in Industrial & Commercial premises.

(iii) Department of Environment - Chimney heights; Third Edition of the 1956 Clean Air Act Memorandum. (Defra Amended) Clean Air Act - 1993

The boiler is connected by a vertical flue to a header which is open to the "outside" air at both ends. One end of the header acts as the primary air intake for the dilution air and the other as the discharge. The fan is located on the discharge side of the header duct.

Note: a draught stabiliser or diverter must be incorporated in the boiler's primary flue, if not part of the boiler. Shown in Fig 2, is a typical boiler house installation incorporating an Airflow dilution fan illustrating the requirements for satisfactory and safe operation.



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Typical Installations of Flue Dilution Fans

Fig 1

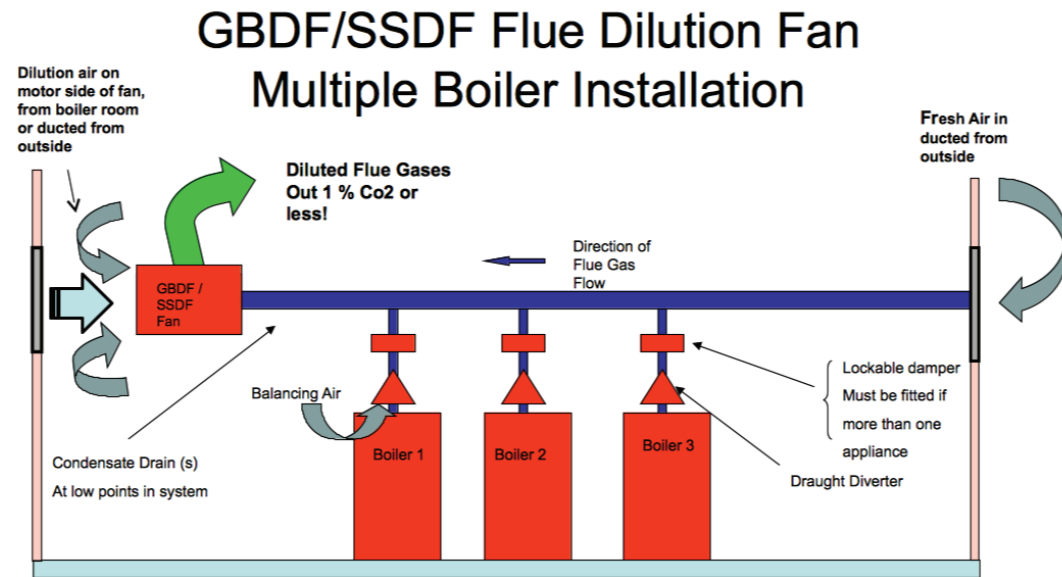
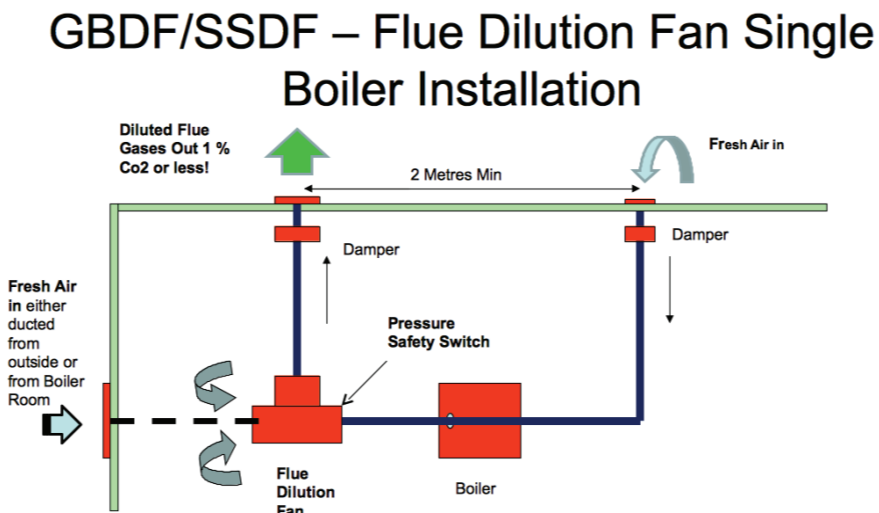


Fig 2



Airflow Ventilation Solutions



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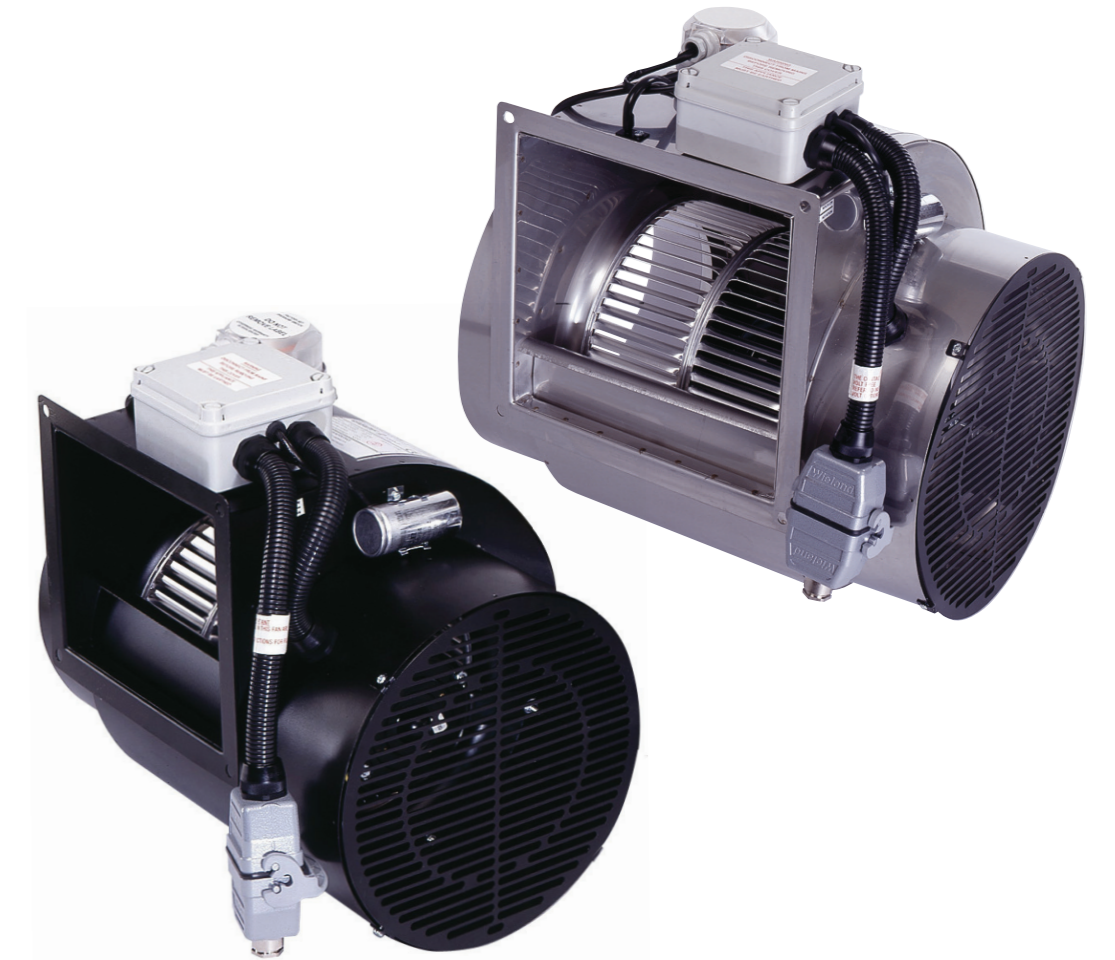
Airflow Developments Limited
Aidelle House, Lancaster Road,
Cressex Business Park,
High Wycombe, Buckinghamshire,
HP12 3QP

E-mail: info@airflow.com
Telephone: +44 (0) 1494 525252
Facsimile +44 (0) 1494 461073
airflow.com

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FLUE DILUTION FANS



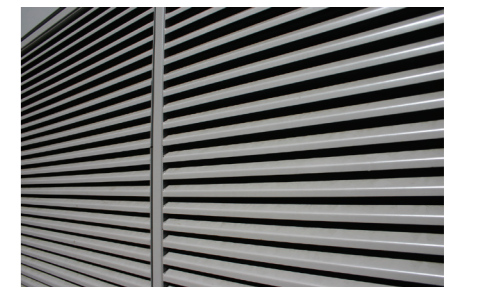
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Innovative



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