



case study



Plastic fans offer better durability for aggressive gases

Halifax Fan has broken new ground by designing and manufacturing a new range of welded and fabricated poly-propylene fans, especially suitable for longer life when handling aggressive gases.

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The new range is based on the existing fan range, covers a wide range of physical sizes and will offer duties up to 50,000m³/hr and pressures up to 5000Pa. Fan casings are fabricated from co-polymer black poly-propylene, embossed on the exterior surface to increase durability and scratch resistance, with the impeller removable from either the inlet or

drive side of the case. The welded and balanced impellers are fabricated from a superior grade homo-polymer, secured to the shaft via a machined poly-propylene centre boss. Overall, the tough rigid poly-propylene construction is resistant to attack by a wide range of acids, alcohols, aldehydes, oils, esters, ketones, hydrocarbons and other aggressive media.



The new plastic material offers significant advantages in lightness and cost over more traditional stainless steel and nickel alloy alternatives, which makes them particularly suitable for rooftop, fume extraction and other elevated installations. In some cases the new plastic versions are less than half the weight of traditional metal alternatives.

Elevated ambient temperature operation can be offered as well as pressure tight models. Belt and direct-driven alternatives, universally handed cases plus a wide range of options, make for total bespoke flexibility.

- Halifax has designed three new fans with a low noise profile to meet today's demanding noise legislation in industrial environments.

- Halifax Fan is able to offer tailor-made application engineered variants in addition to the standard ranges, setting them above most of the plastic fan market.

- The new plastic range offers optimum energy efficiency that will help users to offset rising energy costs as well as the penalty of the Climate Change Levy.

- Halifax Fan is the UK's leading industrial fan manufacturer, specialising in centrifugal fans for industrial applications.

Application benefits

- Fan casings fabricated from co-polymer black polypropylene
- Duties up to 50,000m³/hr and pressures up to 5,000Pa
- Resistant to attack by a wide range of aggressive chemicals
- Less than half the weight of equivalent metal alternatives.
- Significant advantages in weight and cost over stainless steel and nickel alloy alternatives.

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