

# Walker Filtration

## SPECIAL PRODUCTS

### Bespoke product solutions



At Walker Filtration, we have always paid great care and attention to producing exactly what our customers need – even when that means designing a non-standard product. Our Special Products Division has a very high success rate of producing such non-standard filtration and drying equipment.

Walker Filtration is a flexible manufacturer and we aim to help customers when they come to us with special requirements for products that might be needed for a wide range of applications.



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## SPECIAL PRODUCTS

### Recent special products



We have recently produced a number of high temperature elements that were required to work at temperatures of up to 205°C (400°F), which involved a number of non-standard manufacturing methods. When successfully completed, the elements were fitted downstream of a 30,000 scfm heat regenerative dryer.

To meet the challenge of the temperatures the special elements would be exposed to, Walker Filtration decided it was necessary to use a special high temperature encapsulating resin for both bonding the end caps and for the side seaming of the pleated borosilicate glass paper filter media. In addition to the special resin used, other non-standard features included PTFE coated O-rings and PTFE gaskets used to seal the elements.

Another special project Walker Filtration has recently been involved in required designing and producing high pressure water separators together with high pressure oil removal coalescing filters. In this case, because the connections were larger than the standard range (3" BSP), the standard high pressure cast aluminium range

was not suitable, so the filter heads were machined from solid 200mm diameter carbon steel. Under normal circumstances, the filter bowl assembly would have been a welded fabrication, but Walker Filtration's experience determined that the design should include a removable bowl end to reduce weight and facilitate maintenance.

Sometimes the request for a special product comes via email – as the enquiry we received from an engineering consultancy working in the biomedical field. Walker Filtration were asked to produce a bacterial filter/silencer that would reduce noise levels of exhaust air and filter out the bacteria. An initial testing phase has been carried out and the client has requested more samples for a further phase of testing and evaluation.

Walker Filtration's Special Product Division has access to all the research, design and technical skills that go into all our standard products. Our bespoke products are manufactured and tested to the same standard and for the same high performance that all Walker Filtration products are known for.



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