

Oil Separator Elements (Oil Mist Filters)



Leading manufacturer of custom designed Oil Separator Elements to exacting specifications

Walker Filtration is a world-leading manufacturer of Oil Separator Elements (oil mist filters) for use in oil lubricated vacuum pumps across a wide range of industries.

Manufactured using only the highest quality components and specialised proprietary technical materials, our separators are designed to exceed individual customer specifications and rigorously tested and qualified to ensure superior performance.

Applications include:



Oil & Gas



Electronics



Automotive
& Robotics



Laboratories

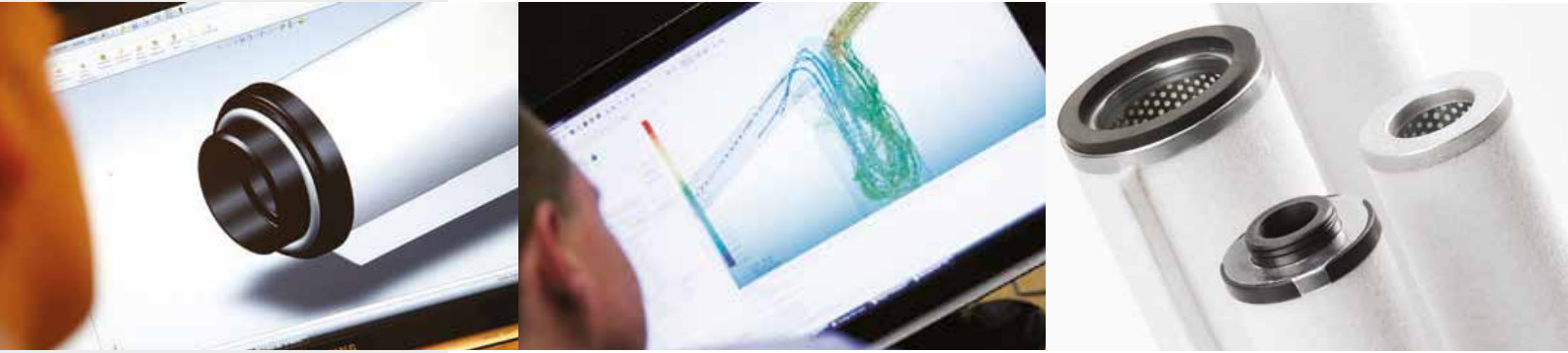


Food & Beverage



World-leading Filtration

Award-winning Original Design Manufacturer (ODM) specialising in Original Equipment Manufacturer (OEM) design and development.



Walker Filtration specialise in innovative award-winning design, development, manufacture and supply logistics, and is the long term partner of choice for industry leading blue-chip vacuum pump and compressor manufacturers worldwide.

Our exceptional in-house research, development and design capabilities, combined with our high quality and flexible manufacturing expertise, allows us to deliver the ever-changing complex requirements essential to our customers. We provide solutions across a wide array of requirements from custom R&D and product designs, to tailored testing and qualification protocols, through to individual supply logistic solutions, marketing and technical support, and continuous competitor appraisal. It is this commitment that has led Walker Filtration to become synonymous with technical excellence, innovation and achieving the highest possible standards time and time again.

Full manufacturing traceability.

Each manufactured product carries with it, full manufacturing traceability via a unique serial number. Tight quality controls coupled with unique batch identification enables complete traceability of the raw materials and components, manufacturing data and equipment, and production operators used throughout the manufacturing process.

Our expert team can provide you with all aspects of product design and manufacturing support.





Comprehensive Testing

Rigorous testing and validation maintains the highest levels of performance and quality – providing complete peace of mind.



Dedicated on-site testing facilities operating with state-of-the-art equipment and techniques, ensure product quality and performance.

To maintain performance standards, our separators are subject to rigorous performance testing over many hundreds of hours during development. All product development, validation and qualification is carried out within the specific vacuum pump or compressor model with which they were designed to be used, rather than with a generic test rig and an oil generation system. Each pump or compressor has its own characteristics in terms of the challenges it places on the oil separator(s), i.e. oil challenge, oil type, flow rate and temperature etc., characteristics which are difficult to replicate using a generic test rig. Testing within the pump or compressor gives the best representation of real-world separator performance.

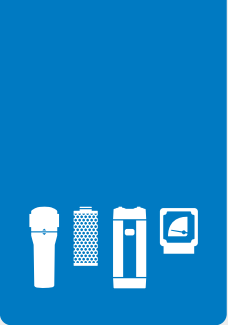
Our dedicated development and testing facilities operating with state-of-the-art equipment and techniques can measure separator performance (oil aerosol filtration efficiency) using particle analysis to determine aerosol size, size distribution and mass carryover. Separator energy efficiency (ΔP) is also determined, as is the effect of the separator on the pump or compressor via exhaust temperature. The performance of every separator model is optimised to ensure that the equipment in which it is assembled operates as efficiently as possible.

Prior to dispatch, every oil separator manufactured is DOP integrity tested as part of the manufacturing process.

As part of our standard manufacturing process, every oil separator undergoes a DOP (Dispersed Oil Particulate) integrity test. Each separator is challenged with a poly-dispersed oil aerosol generated with a mean particle size normally distributed about the MPPS (most penetrating particle size). This ensures every product that leaves the product line is defect free in terms of oil aerosol bypass - our commitment to quality and high standards for which our products are renowned. Where oil separators are designed to be ATEX compliant, for use with oxygen or simply require static dissipative properties, conductivity tests are also performed at the same time.



For further information please call: **+44 (0) 191 417 7816**

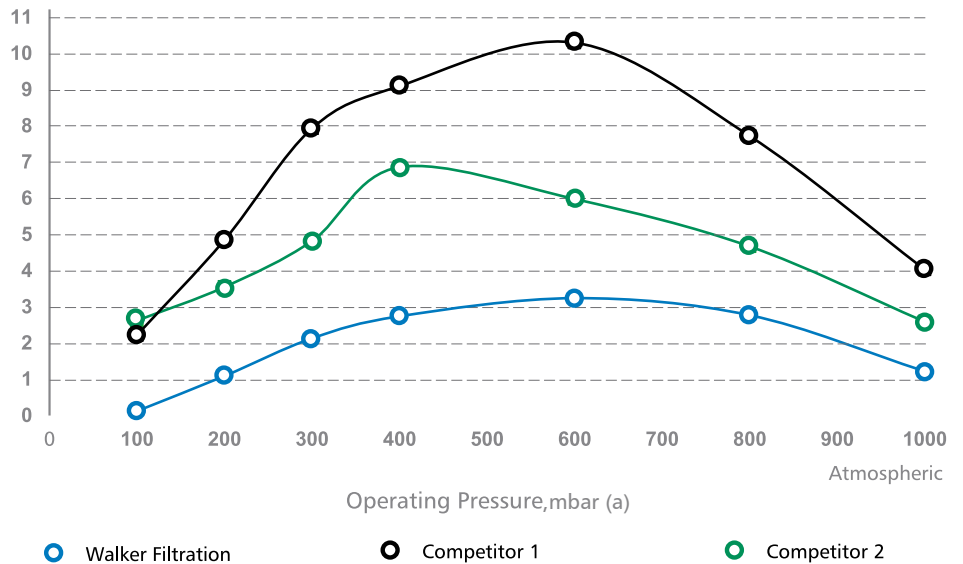


Performance Analysis

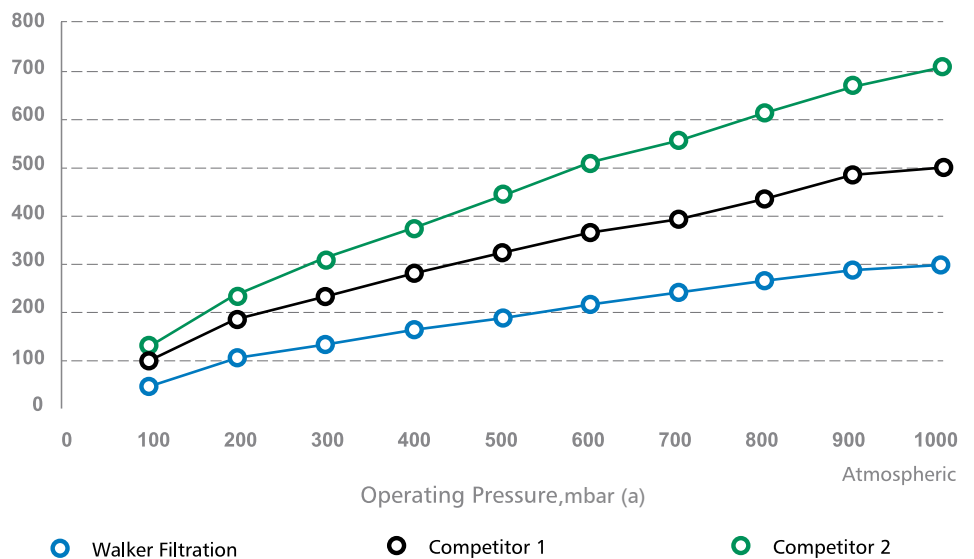
Benchmarking

Walker Filtration regularly conduct competitor performance benchmarking to ensure that our products consistently and significantly outperform other leading manufacturers.

Mass oil carry-over



Differential pressure (Pressure drop)



What does this mean?

Oil Separators designed and manufactured by Walker Filtration waste less oil and are more energy efficient, which:

- Increases the efficiency of the vacuum pump or compressor
- Reduces and minimises running costs
- Reduces environmental impact
- Promotes a cleaner and safer working environment

With Walker Filtration as your strategic ODM/OEM partner, you can pursue your business goals safe in the knowledge that all safety aspects are taken care of, and that product performance, operating efficiency and running costs are best in class.



THE QUEEN'S AWARDS
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INNOVATION
2016

