



Oil Separator Elements (Oil Mist Filters)



Leading manufacturer of Oil Separator Elements for custom 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, our separators are designed to meet individual customer specifications and designed, tested and validated to ensure enhanced performance.

Applications include:



Oil & Gas



Electronics



Automotive and Robotics



Laboratories



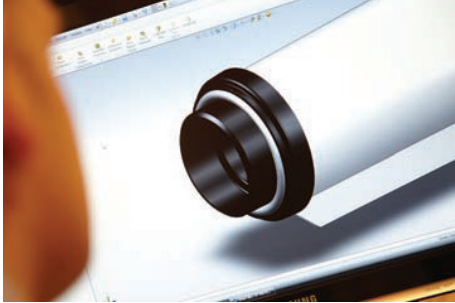
Food & Beverage



Paint Applications

World-leading Filtration

Award winning innovative ODM and OEM design and development

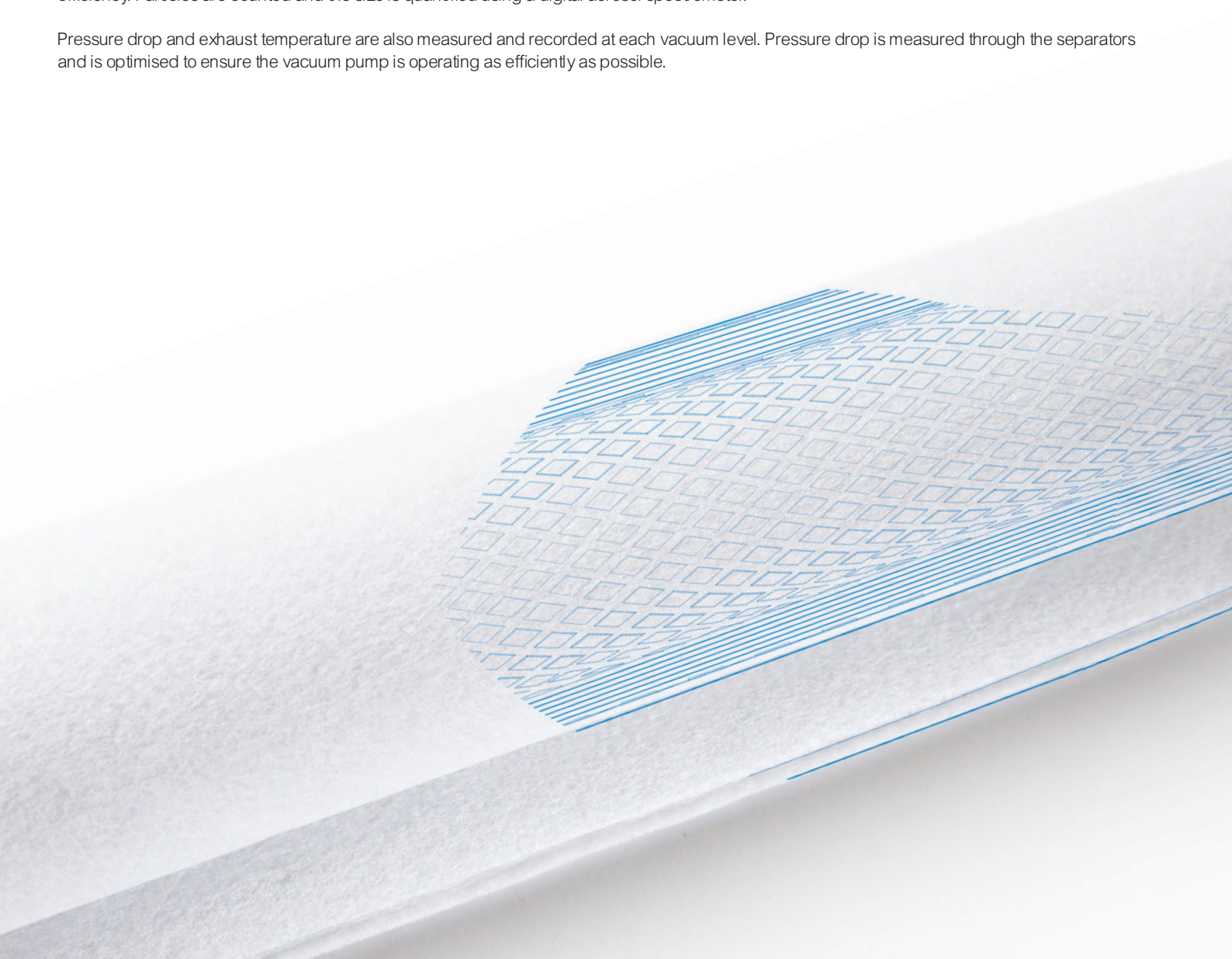


Walker Filtration specialise in award winning design and development, manufacture and supply logistics, and is a long term partner of choice for industry leading blue-chip vacuum pump and compressor manufacturers worldwide.

Our product has become synonymous with technical excellence and achieving the highest possible filtration standards time and time again. To maintain these standards, our oil separators are subject to performance tests in various vacuum pump sizes and numerous operating conditions - ensuring that performance reflects real life results. Tests can also be undertaken using different types of oil to suit customer requirements.

Dedicated testing facilities are fitted with state of the art equipment that measures flow rate, particle count, mass carryover, and aerosol removal efficiency. Particles are counted and the size is quantified using a digital aerosol spectrometer.

Pressure drop and exhaust temperature are also measured and recorded at each vacuum level. Pressure drop is measured through the separators and is optimised to ensure the vacuum pump is operating as efficiently as possible.



Comprehensive Testing

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

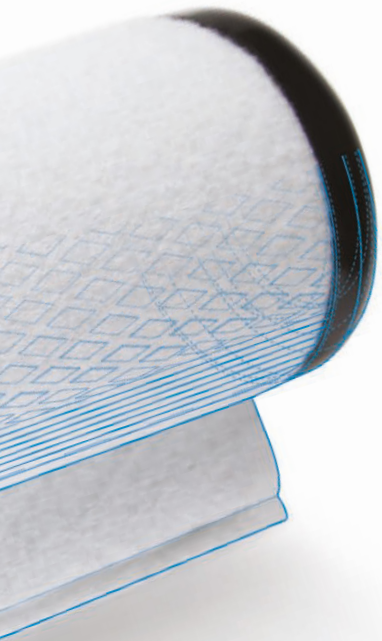


Every Oil Separator manufactured by Walker Filtration is DOP integrity tested prior to despatch in a vacuum performance cell to guarantee quality.

As part of our production process, each product we manufacture is integrity tested. Every separator is challenged with dispersed oil aerosol particles that are generated around the Most Penetrating Particle Size (MPPS) for the filtration media. This is the most robust and challenging test possible and maintains the incredibly high standards our product is known for.

Each batch manufactured carries a unique serial number, offering complete traceability to raw materials and manufacturing data, for complete peace of mind.

If there is a requirement for the product to be ATEX certified, electrical conductivity testing is also carried out to ensure static charge dissipation is in operation.



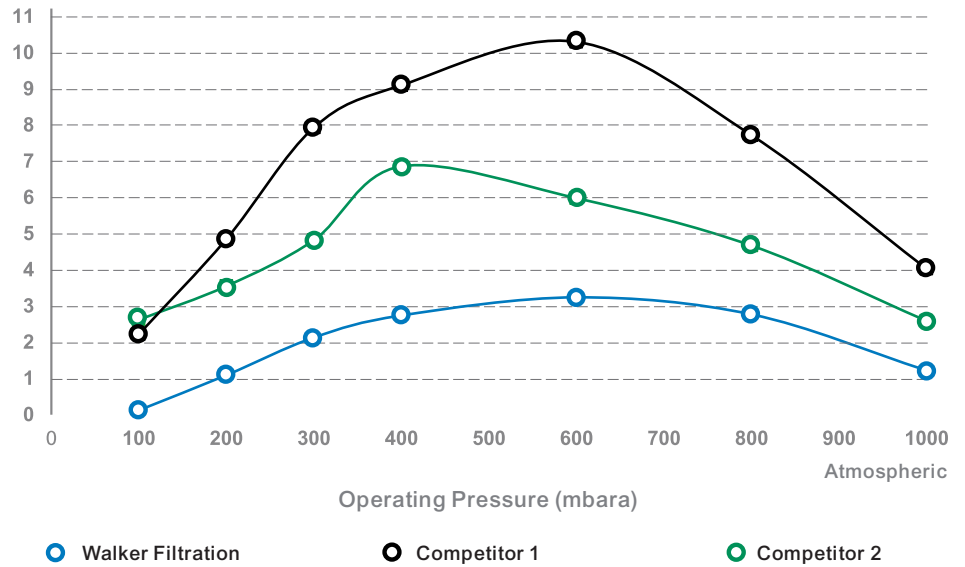


Performance Analysis

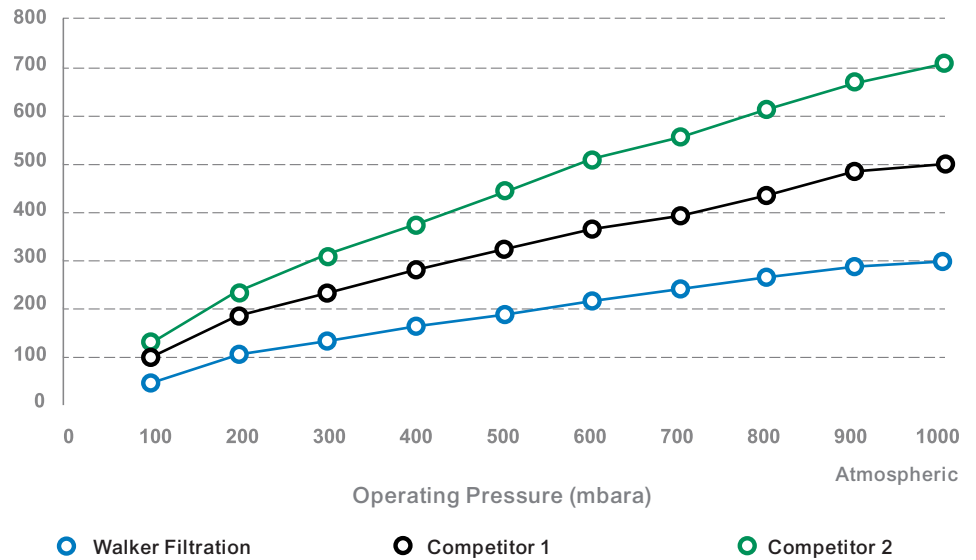
Competitor benchmarking

Competitor testing is conducted regularly, highlighting vacuum separator performance. Walker Filtration is significantly outperforming the leading competitors in the market place:

Mass oil carry-over



Differential pressure



What does this mean?

- Competitor separators waste more oil and have a higher pressure drop
- This reduces the efficiency of the vacuum pump
- Has a detrimental impact on the environment
- Is not conducive to a clean and safe working environment
- And can significantly increase running costs

