

BEHRINGER®

Mahle Automatic Back-Flushing Filter

MAHLE

Automatic Back-Flush
AF119/139/179 Series
High Flow Filtration

There is a new addition to the MAHLE family of automatic back-flush filter systems. With the addition of the AF 1*9 series, MAHLE is proud to announce that this "Big Brother" of the family can handle flow ranges up to 8 times the flow of the previous range. This means that high flow applications are no match for this filtration powerhouse. It is available with the same three cleaning principles of its smaller siblings AF 113, AF 133, and AF 173. This series, as well as MAHLE's previous series' of back-flushing filters, is a perfect match for low to medium viscosity fluids, can be cleaned in process, and requires no disposal measures associated with standard cartridge type filters.



New Product Spotlight

Features and Benefits

MAHLE's new series of back-flush filters incorporate the same principles of interchangeability inherent in the previous "Vario" range. What this means is that the same filter housing can be retrofitted with any of the back-flush designs. This, coupled with the ability to handle up to 8-times the flow of the next smaller filter size, makes this filtration system the flagship of the back-flush filter family. The design of each cleaning principle is such that MAHLE can offer either a single- or double-element design. This flexibility allows the filters to be more concentrated to the application's requirements. This results in two different housing lengths, making this series a truly versatile design. The sheer size of this filter range allows a single-unit design, where past applications and / or competitor designs would require complicated banks of multiple filters arranged in parallel-flow manifolds, and with more complicated electronics to effect the cleaning cycles. A single-filter design is not only easier, but it is typically less expensive, and easier to install and maintain. To ease operations even further, MAHLE offers a complete line of accessories available in many different configurations and styles to "customize" the filtration system to you specific application requirements. MAHLE Industrial Filters is the World's leading filtration innovator. The choice is obvious: Use MAHLE for you every filtration requirement.

Available Designs

AF 119: Pressurized Segment Cleaning:

This design uses the filter's internal pressure to back-flush, and requires minimal disposal measures. Contamination is removed via the cleaning channel on the outside of the filter element.

AF 139: Pulsating External Pressure Segment Cleaning:

This design is used when the filter's internal pressure is not great enough to back-flush. The design utilizes an external pressure source such as air or clean fluid to back-flush the filter element. The external pressure medium is pushed through the element, one segment at a time. Back-flushed particles then exit the filter through the bottom cone. The sludge drain valve is opened during the cleaning cycle to remove these particles.

AF 179: Pulsating External Pressure Segment Cleaning:

This is the ultimate in back-flushing filter designs. The design incorporates both the internal channel with external pressure cleaning, and the external cleaning channel, resulting in a back-flush filter that operates with 100% output flow during a cleaning cycle. This is an excellent choice for applications where there is no way to dispose of back-flushed fluid, or where the fluid being filtered is too expensive or hazardous to dispose of. See insert at right for more detailed information.

AF 179 Construction

The Filter housing is made of welded steel material, and is easily customized to accommodate many different connections and optional accessories.

Because of the ease and flexibility, customers are able to determine which connections and accessories will best suit their application.



The AF 179 cleaning mechanism consists of a vertically-segmented filter element, with an internal back-flush channel. This channel seals to and isolates one vertical segment at a time from the



filtration process. The Back-flush medium is then pushed through the channel and ultimately, through the element.

On the outside of the filter element, there is also another channel. This channel seals vertically to the same segment as the inside channel. This channel

then exits the filter. Because the segment being cleaned is completely sealed off from the filtration process, the filter will maintain 100% of output flow during a cleaning cycle.



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