

# High Efficiency Oil Coalescing Prefilters



Henderson Engineering Co.  
815.786.9471 800.544.4379

**From 60 to 21,000 SCFM**



*Henderson Engineering Co., the only company in the world manufacturing single tower deliquescent and twin tower regenerative and heat-of-compression regenerative air dryers, has applied their compressed air know-how to the design and development of the Sahara filter product lines.*

*The filter cartridges used in Sahara filters are the result of extensive development and testing by Henderson's Engineers.*

A faint, stylized world map in a light tan color, showing the continents of North America, South America, Europe, and Africa.

***World Leader in Regenerative Dryer Technology***



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## *SAHARA High Efficiency Oil Coalescing Prefilters*

*When top performance is required, specify SAHARA High Efficiency Filters*

*The efficient, economical, reliable filter for all compressed air systems*

### Elements

- Filtration Rating: DOP efficiency 99.97% @ 0.3 micron
- Type: Pneumatic coalescing filter
- Separation Media: Microflex borosilicate glass fiber media with fixed pore structure
- Direction of Flow: Inside-Out
- Recommended Change-out Differential Pressure: 7-10 psid
- Temperature Rating: 225°F

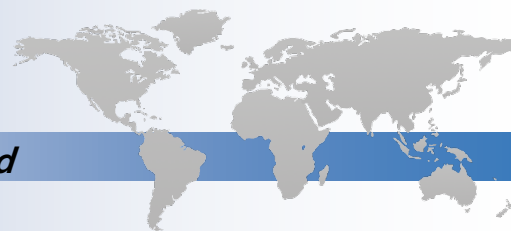
### Construction

- End Cap: Aluminium
- End Cap Configuration: Single Open Ended
- Seal/Gasket Material: Buna O-ring
- Easy-to-read pressure differential indicator included as standard



*Eliminate shutdowns for  
visual inspection of filter elements  
with the Pressure Differential Indicator  
(included as standard)*

*When Top Performance Is Required*



## Prefilter Model HEF

| MODEL     | RATED FLOW<br>SCFM * | INITIAL<br>▲ P<br>PSIG | PIPE SIZE | MAXIMUM<br>OPERATION |       | WEIGHT<br>(LBS.) | ELEMENT*** |      |
|-----------|----------------------|------------------------|-----------|----------------------|-------|------------------|------------|------|
|           |                      |                        |           | PSIG                 | °F ** |                  | MODEL      | QTY. |
| HEF-60    | 60                   | < 1                    | ¾" NPT    | 300                  | 250   | 7                | 16D33      | 1    |
| HEF-100   | 100                  | < 1                    | 1" NPT    | 300                  | 250   | 8                | 16D50      | 1    |
| HEF-165   | 165                  | < 1                    | 1 ½" NPT  | 300                  | 250   | 12               | 16D100     | 1    |
| HEF-250   | 250                  | < 1                    | 1 ½" NPT  | 300                  | 250   | 14               | 16D150     | 1    |
| HEF-350   | 350                  | < 1                    | 2" NPT    | 300                  | 250   | 16               | 16D150     | 1    |
| HEF-700   | 700                  | < 1                    | 2" FLG    | 150                  | 250   | 66               | 16D150     | 2    |
| HEF-1400  | 1400                 | < 1                    | 3" FLG    | 150                  | 250   | 155              | 16D150     | 4    |
| HEF-2100  | 2100                 | < 1                    | 4" FLG    | 150                  | 250   | 175              | 16D150     | 6    |
| HEF-2800  | 2800                 | < 1                    | 4" FLG    | 150                  | 250   | 250              | 16D150     | 8    |
| HEF-3500  | 3500                 | < 1                    | 6" FLG    | 150                  | 250   | 255              | 16D150     | 10   |
| HEF-4200  | 4200                 | < 1                    | 6" FLG    | 150                  | 250   | 500              | 16D150     | 12   |
| HEF-4900  | 4900                 | < 1                    | 6" FLG    | 150                  | 250   | 500              | 16D150     | 14   |
| HEF-5600  | 5600                 | < 1                    | 6" FLG    | 150                  | 250   | 500              | 16D150     | 16   |
| HEF-6300  | 6300                 | < 1                    | 6" FLG    | 150                  | 250   | 700              | 16D150     | 18   |
| HEF-7000  | 7000                 | < 1                    | 6" FLG    | 150                  | 250   | 700              | 16D150     | 20   |
| HEF-7700  | 7700                 | < 1                    | 8" FLG    | 150                  | 250   | 700              | 16D150     | 22   |
| HEF-8400  | 8400                 | < 1                    | 8" FLG    | 150                  | 250   | 700              | 16D150     | 24   |
| HEF-9100  | 9100                 | < 1                    | 8" FLG    | 150                  | 250   | 700              | 16D150     | 26   |
| HEF-9800  | 9800                 | < 1                    | 8" FLG    | 150                  | 250   | 700              | 16D150     | 28   |
| HEF-10500 | 10500                | < 1                    | 8" FLG    | 150                  | 250   | 700              | 16D150     | 30   |
| HEF-11200 | 11200                | < 1                    | 8" FLG    | 150                  | 250   | 845              | 16D150     | 32   |
| HEF-11900 | 11900                | < 1                    | 8" FLG    | 150                  | 250   | 845              | 16D150     | 34   |
| HEF-12600 | 12600                | < 1                    | 10" FLG   | 150                  | 250   | 845              | 16D150     | 36   |
| HEF-13300 | 13300                | < 1                    | 10" FLG   | 150                  | 250   | 845              | 16D150     | 38   |
| HEF-14000 | 14000                | < 1                    | 10" FLG   | 150                  | 250   | 845              | 16D150     | 40   |
| HEF-17500 | 17500                | < 1                    | 10" FLG   | 150                  | 250   | 1000             | 16D150     | 50   |
| HEF-21000 | 21000                | < 1                    | 10" FLG   | 150                  | 250   | 1000             | 16D150     | 60   |

\* Rated flow at 100 psig capacity.

\*\* Continuous operation: 160°F maximum temperature. Intermittent operation: 225-250°F maximum temperature.

\*\*\* Element rating is .3 micron particulate, 1 PPM oil.



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*World Leader in Regenerative Dryer Technology*



## *Custom Design*

### ***We can build a dryer to meet your strict performance requirements***

The heart of our company has always been engineering; finding novel solutions to our customers' unique applications. Our reputation has been built by building dryers custom designed for each specific application a customer requires. We are one of the few dryer manufacturers who can completely design and fabricate a dryer to each and every customers specifications.

Dryers are purchased to solve plant air problems. The decision to buy is complex and involves many variables; initial price, vendor qualifications, delivery, performance, and operating cost, just to name a few. The selection of a SAHARA air dryer is a safe choice. Our sales engineers will help you select the right system for your application. They have the expertise to review your plant air system and design the optimum engineered solution. Quality and reliability are built into every SAHARA air dryer and performance is guaranteed.

### **Sahara Air Products**

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*Henderson Engineering Co., Inc., is proud to be certified to the  
ISO 9001 Quality Management System standards and*