

## **HP SERIES HIGH PRESSURE COMPRESSED AIR FILTERS**



Airmaster HPF Series High Pressure Compressed Air Filters are specially designed for compressed air applications where high pressure Compressors are used to boost the air pressure up to 50 bar limits.

The high endurance and reliable HPF Series filters will comply with almost all high pressure compressed air applications and are suitable with all Compressors.

Airmaster HPF Series 50 bar high pressure air filters are manufactured from anticorrosive and high endurance aluminum alloy, with metal working methods and without using welding.

All filter elements are silicone free. Optionally stainless steel can be used in element bodies to ensure compliance with the most sensitive processes.

All HPF series filter bodies are anodized to ensure maximum housing corrosion resistance and prolonged life cycle. All models come with standard manual drain.

### **Airmaster OF Series :**

- General Purpose Filter - Pre-filtering
- Partical Filtration : Up to 3 microns diameter.

-Efficient in particulate filtering  
-General purpose filtration

### **Airmaster SF Series:**

- General Purpose Filter - Inlet Filter
- Partical Filtration : Up to 0,1 microns diameter.
- Oil Vapour Filtration: 0,1mg/m<sup>3</sup> at 20°C reference temperature

-Efficient in particulate and oil vapour proof filtering

### **Airmaster PF Series:**

- Fine Filter - Outlet Filter
- Partical Filtration : Up to 0,01 microns diameter.
- Oil Vapour Filtration: 0,01mg/m<sup>3</sup> at 20°C reference temperature

-Very efficient in dust and oil vapour proof filtering

### **Airmaster CF Series:**

- Active Carbon Filter
- Odor Filtering - Only used in combination with and after PF Series
- Oil Vapour Filtration: 0,003mg/m<sup>3</sup> at 20°C reference temperature
- Should not be used in saturated oil vapor environment
- Max operation temperature is 30°C, max element change period is 1.000 hrs
- Can not remove certain gases including carbon monoxide and carbon dioxide

| AIRMASTER HP SERIES HIGH PRESSURE COMPRESSED AIR FILTER SPECIFICATIONS |                 |          |            |               |      |               |       |                |        |          |
|--|-----------------|----------|------------|---------------|------|---------------|-------|----------------|--------|----------|
| FILTER MODEL   | FILTER CAPACITY |          | CONNECTION | WORKING TEMP. |      | WORKING PRES. |       | FILTER ELEMENT |        |          |
|  | M3/Hr           | Lt / Min |            | MAX.          | MIN. | MAX.          | MIN.  | MODEL          | CHANGE | ΔP (bar) |
| HPF020   | 120             | 2.000    | 1/4"       | 80 C°         | 2 C° | 50 Bar        | 2 Bar | EHPF020        | 3.500  | 0,7      |
| HPF050   | 300             | 5.000    | 1/2"       | 80 C°         | 2 C° | 50 Bar        | 2 Bar | EHPF050        | 3.500  | 0,7      |
| HPF100   | 600             | 10.000   | 3/4"       | 80 C°         | 2 C° | 50 Bar        | 2 Bar | EHPF100        | 3.500  | 0,7      |
| HPF150   | 900             | 15.000   | 1"         | 80 C°         | 2 C° | 50 Bar        | 2 Bar | EHPF150        | 3.500  | 0,7      |
| HPF200   | 1.200           | 20.000   | 1"         | 80 C°         | 2 C° | 50 Bar        | 2 Bar | EHPF200        | 3.500  | 0,7      |
| HPF280   | 1.650           | 27.500   | 1 1/2"     | 80 C°         | 2 C° | 50 Bar        | 2 Bar | EHPF280        | 3.500  | 0,7      |
| HPF430   | 2.550           | 42.500   | 2"         | 80 C°         | 2 C° | 50 Bar        | 2 Bar | EHPF430        | 3.500  | 0,7      |
| HPF500   | 3.000           | 50.000   | 2 1/2"     | 80 C°         | 2 C° | 50 Bar        | 2 Bar | EHPF500        | 3.500  | 0,7      |

|                        |      |      |      |      |      |      |      |
|------------------------|------|------|------|------|------|------|------|
| <b>CORR. FACTOR</b>    | 2,43 | 1,96 | 1,65 | 1,41 | 1,24 | 1,12 | 1,00 |
| Operating Press. (Bar) | 20   | 25   | 30   | 35   | 40   | 45   | 50   |
| Operating Press. (PSI) | 290  | 363  | 435  | 507  | 580  | 653  | 725  |

| AIRMASTER HPF SERIES FILTER ELEMENTS PERFORMANCE TABLE |                     |                      |                             |                           |                         |
|--|---------------------|----------------------|-----------------------------|---------------------------|-------------------------|
| AIRMASTER HP Element Series                            | Partical Filtration | Oil Vapor Filtration | Nom. Pres. Loss (Clean&Dry) | Max Operating Temperature | Max Element Change Time |
| OF   | 3 micron            | -                    | 0.04 bar                    | 80 C°                     | 3.500 hrs               |
| SF   | 0.1 micron          | 0.1 mg/m3            | 0.08 bar                    | 80 C°                     | 3.500 hrs               |
| PF   | 0.01 micron         | 0.01 mg/m3           | 0.1 bar                     | 80 C°                     | 3.500 hrs               |
| CF   | -                   | 0.003 mg/m3          | 0.1 bar                     | 30 C°                     | 6 MONTHS                |

| AIRMASTER High Pressure Filter Dimensions |            |                  |                   |                 |               |
|---|------------|------------------|-------------------|-----------------|---------------|
| MODEL                                     | Connection | Capacity (m3/hr) | Capacity (lt/min) | Diameter (mm) D | Height (mm) H |
| HPF020                                    | 1/4"       | 120              | 2.000             | 118             | 155           |
| HPF050                                    | 1/2"       | 300              | 5.000             | 118             | 165           |
| HPF100                                    | 3/4"       | 600              | 10.000            | 118             | 210           |
| HPF150                                    | 1"         | 900              | 15.000            | 139             | 260           |
| HPF200                                    | 1"         | 1.200            | 20.000            | 139             | 330           |
| HPF280                                    | 1 1/2"     | 1.650            | 27.500            | 139             | 380           |
| HPF430                                    | 2"         | 2.550            | 42.500            | 158             | 400           |
| HPF500                                    | 2 1/2"     | 3.000            | 50.000            | 180             | 400           |

