

**MESSA**  
FILTRATION & SEPARATION

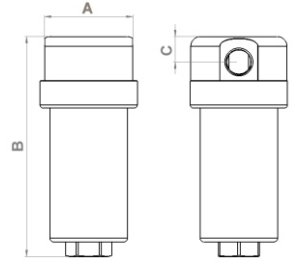


**A50HP**

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**COMPRESSED AIR FILTER**

| Model            | Capacity<br>m <sup>3</sup> /h @ 50<br>bar g | Pipe<br>Connection | Dimensions mm |     |    | Filter Element Type |
|------------------|---|--------------------|---------------|-----|----|---------------------|
|                  |   |                    | A             | B   | C  |                     |
| A50HP180(grade)  | 180   | 3/8"               | 90            | 135 | 26 | EHP51180 (grade)    |
| A50HP400(grade)  | 400   | 1/2"               | 90            | 185 | 26 | EHP51400 (grade)    |
| A50HP610(grade)  | 610   | 3/4"               | 90            | 225 | 26 | EHP51610 (grade)    |
| A50HP800(grade)  | 800   | 1"                 | 132           | 300 | 40 | EHP51800 (grade)    |
| A50HP1200(grade) | 1200  | 1"                 | 132           | 350 | 40 | EHP511200 (grade)   |
| A50HP1800(grade) | 1800  | 1 1/2"             | 132           | 430 | 40 | EHP511800 (grade)   |
| A50HP3400(grade) | 3400  | 2"                 | 150           | 470 | 50 | EHP513400 (grade)   |



### The Filter Element Specifications

|          |  |
|----------|--|
| <b>P</b> | <b>Pre- Filtration</b><br>Smaller than 5 micron are fine particles such as dust and particulary oil aerosols which must be filtered out by a fine filter   |
| <b>G</b> | <b>General Purpose Protection</b><br>For the removal at particles down to 1 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of 0,5 mg/m <sup>3</sup> @ 21°C         |
| <b>H</b> | <b>High Efficiency Oil Removal Filtration</b><br>For the removal at particles down to 0,01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0,01 mg/m <sup>3</sup> @ 21°C |
| <b>D</b> | <b>Dust Filtration</b><br>For the removal of dust particles down to 0.01 micron  |
| <b>C</b> | <b>Activated Carbon Filter</b><br>For the removal of oil vapour and hydrocarbon odours giving a maximum remaining oil content of 0,003 mg/m <sup>3</sup> @ 21°C  |

| GRADE                                |                    | P                                 | G   | H    | D     | C                |
|--------------------------------------|--------------------|-----------------------------------|-----|------|-------|------------------|
| Partial removal                      | micron             | 5                                 | 1   | 0.01 | 0.01  | -                |
| Maximum carryover @ 21 °C            | mg /m <sup>3</sup> | 5                                 | 0.5 | 0.01 | ----- | 0.003            |
| Max. Recommended working temperature | °C                 | 65                                | 65  | 65   | 65    | 30               |
| Min. Recommended working temperature | °C                 | 2                                 | 2   | 2    | 2     | 2                |
| Initial pressure drop (dry)          | mbar               | 30                                | 80  | 100  | 100   | 100              |
| Initial pressure drop (wet)          | mbar               | 80                                | 140 | 200  | 200   | 300              |
| Element change – out at              | mbar               | 700                               | 700 | 700  | 700   | 6 weeks          |
| Max. Inlet pressure                  | bar                | 50                                | 50  | 50   | 50    | 50               |
| Min. Inlet pressure                  | bar                | 2                                 | 2   | 2    | 2     | 2                |
| Filter media                         |                    | High efficiency micro fiber glass |     |      |       | Activated Carbon |
| Housing material                     |                    | High quality aluminum             |     |      |       |                  |

|                       |      |      |      |      |      |      |           |
|-----------------------|------|------|------|------|------|------|-----------|
| Working pressure barg | 20   | 25   | 30   | 35   | 40   | 45   | <b>50</b> |
| Correction factor     | 2.43 | 1,96 | 1,65 | 1,42 | 1,24 | 1,11 | <b>1</b>  |

- Notes:
- The manual drain standard on all models.
  - Activated carbon filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide and carbon dioxide.
  - Contact factory for other operating pressure, higher capacities and special models.

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