

# FILTER ELEMENT – AMEC-XM

AMEC series for AdsoMax AMC series filter housing  
(General purpose filter – Particulate + Coalescing)



## DESCRIPTION

XM grade filter elements have been specifically developed for high efficient removal of solid particles, oil aerosols and water from compressed air<sup>(1)</sup>.

<sup>(1)</sup>For any other technical gas please contact us or your local dealer

## FILTER ELEMENT RATING ACCORDING TO ISO 8573-1

| Solid particles class | Water class | Oil class |
|-----------------------|-------------|-----------|
| 2                     | /           | 2         |

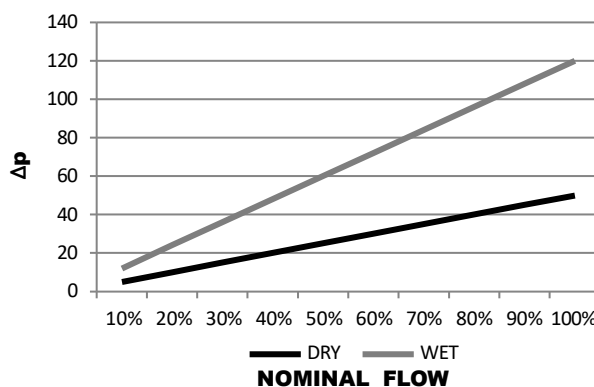
Validated according to ISO12500-1 and ISO12500-3

## TECHNICAL SPECIFICATION

|  |                           |
|--|---------------------------|
| Operating temperature                      | 1,5 - 65 °C / 35 - 149 °F |
| Operating pressure                         | 0 - 20 barg / 0 - 290 psi |
| Differential pressure (dry)                | 50 mbar / 0,725 psi       |
| Differential pressure (wet)                | 120 mbar / 1,740 psi      |
| Particle retention (nominal)               | 99,9999% (0,1 µm)         |
| Particle retention rate ISO <sup>(3)</sup> | 99,98 %                   |
| Residual oil content <sup>(4)</sup>        | < 0,1 mg/m <sup>3</sup>   |
| Flow Direction                             | INSIDE to OUTSIDE         |
| Capacity (ISO12500-2) <sup>(5)</sup>       | /                         |

<sup>(3)</sup>Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 M, Most penetrating particle size MPPS 0,3mm

<sup>(4)</sup>Tested according to ISO12500-1, 06050 M, Oil aerosol viscosity 32mm<sup>2</sup>/s, inlet concentration 10mg/m<sup>3</sup>



## MATERIALS

|                       |                              |
|-----------------------|------------------------------|
| Filter media          | Borosilicate micro fibers    |
| Protection media      | Polyester fleece             |
| Drainage media        | Polyester based polyurethane |
| Adsorption media      | /                            |
| Support (inner-outer) | Stainless steel 1.4301       |
| Bonding               | Polyurethane                 |
| Endcaps               | PA6 with 30% glass fibers    |
| Sealing               | NBR                          |

**SIZES**

| Model       | Diameter [mm] | Height [mm] | Flow Capacity [Nm <sup>3</sup> /h] | Flow Capacity [scfm] | Fits into filter housing |
|-------------|---------------|-------------|------------------------------------|----------------------|--------------------------|
| AMEC-72XM   | 51            | 59          | 72                                 | 42                   | AMC-F72                  |
| AMEC-96XM   | 51            | 119         | 96                                 | 56                   | AMC-F96                  |
| AMEC-150XM  | 60            | 119         | 150                                | 88                   | AMC-F150                 |
| AMEC-216XM  | 60            | 149         | 216                                | 126                  | AMC-F216                 |
| AMEC-282XM  | 75            | 107         | 282                                | 166                  | AMC-F282                 |
| AMEC-360XM  | 75            | 160         | 360                                | 212                  | AMC-F360                 |
| AMEC-432XM  | 75            | 207         | 432                                | 254                  | AMC-F432                 |
| AMEC-510XM  | 75            | 239         | 510                                | 300                  | AMC-F510                 |
| AMEC-750XM  | 75            | 305         | 750                                | 441                  | AMC-F750                 |
| AMEC-888XM  | 90            | 318         | 888                                | 522                  | AMC-F888                 |
| AMEC-1176XM | 90            | 436         | 1176                               | 692                  | AMC-F1176                |
| AMEC-1440XM | 90            | 498         | 1440                               | 847                  | AMC-F1440                |
| AMEC-1968XM | 140           | 506         | 1968                               | 1158                 | AMC-F1968                |
| AMEC-2760XM | 140           | 577         | 2760                               | 1624                 | AMC-F2760                |

**CORRECTION FACTORS**

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s). CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C<sub>OP</sub>

**OPERATING PRESSURE**

|                 |      |     |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|------|-----|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| [bar]           | 2    | 3   | 4    | 5    | 6    | 7   | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   |
| [psi]           | 29   | 44  | 58   | 72   | 87   | 100 | 115  | 130  | 145  | 160  | 174  | 189  | 203  | 218  | 232  | 247  | 261  | 276  | 290  |
| C <sub>OP</sub> | 0,38 | 0,5 | 0,63 | 0,75 | 0,88 | 1   | 1,13 | 1,25 | 1,38 | 1,50 | 1,63 | 1,75 | 1,88 | 2,00 | 2,13 | 2,25 | 2,38 | 2,50 | 2,63 |

**MAINTENANCE**

Replace filter element at least once per year or when pressure drop reaches 350mbar.

**INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE**

|  |   |  |
|--|---|--|
|  | Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015 |  |
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