# KSI ECOCLEAN® | Technical Data Sheet

## Compressed air filter APF765 with filter element APE765

**Rev 01_1122**

## Filter housing APF765

| Design / capacity | | |
|---|---|---|
| **Connection** | | Rp 2“ NPT female thread |
| **Nominal capacity** | | 765 scfm with APE765 at 14.5 psi (abs.) and 68°F at 101.5 psig |
| **Maximum capacity** | | 1484.28 scfm with APE765 at 14.5 psi (abs.) and 68°F at 232 psig |
| **Maximum working pressure** | | 232 psig |
| **Material** | | Aluminum |
| **Operating temperature maximum** | | 248 °F |
| **Coating inside / outside** | | Corrosion protection layer |
| **Colour outside** | | RAL 5010 (powder coated) |
| **Fixing element** | | Wing suspension |
| **Condensate drainage connection** | | Rp 1/2“ female thread |
| **Dimensions in inch** | **A** | 29.29 |
| **[Dimension drawing on the last page]** | **B** | 1.77 |
| | **C** | 7.72 |
| | **D** | 7.68 |
| **Weight (incl. element and drainage)** | | 27.94 lbs |
| **Norm** | | ASME B31.3;2020 |

| Scope of supply | |
|---|---|
| **Housing** | APF765 |
| **Filter element** | APE765 |
| **Types of condensate drainage:** | |
| **VF25 – FF5 – MFO – MF1 – SMA** | D200 |
| **DSF - DMF. CA** | HAM12 |

| Options | |
|---|---|
| **Differential pressure gauge** | APF-DPN |
| **Level-controlled condensate drain** | KN1 |
| **Level-controlled condensate drain** | KN5 |
| **Filter connection sets for 2 - 4 filters** | APF-VEE-(2/3)-XL |
| **Wall mounting brackets. including filter connecting kit** | APF-WHE-(1/2/3)-XL |

## Capacity filter elements APE765

| Type | Particle filtration | Residual oil content | Working temperature [Fahrenheit] | | Differential pressure [psi] | | | ISO classes* | |
|---|---|---|---|---|---|---|---|---|---|
| | [micron] | [mg/m³] | maximum | recommended | new | moistened | replacement | particle | oil |
| **APE765CA** | - | 0.003 | 122 | 77 | 1.5 | - | every 6 months | - | 1 |
| **APE765DMF** | 1 | - | 248 | - | 0.8 | - | every 12 months | 2 | - |
| **APE765DSF** | 0.01 | - | 248 | - | 1.1 | - | every 12 months | 1 | - |
| **APE765FF5** | 5 | 5 | 248 | - | 0.7 | 1.1 | every 12 months | 3 | 4 |
| **APE765MF1** | 0.1 | 0.1 | 248 | - | 0.9 | 1.3 | every 12 months | 1 | 2 |
| **APE765MFO** | 1 | 0.5 | 248 | - | 0.8 | 1.2 | every 12 months | 2 | 3 |
| **APE765SMA** | 0.01 | 0.01 | 248 | - | 1.1 | 1.6 | every 12 months | 1 | 1 |
| **APE765VF25** | 25 | 10 | 248 | - | 0.7 | 0.7 | every 12 months | 5 | 5 |

*Compressed air quality according ISO 8573-1:2010

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## Filter elements APE765 VF25 – FF5 – MFO – MF1 – SMA

| Design | |
|---|---|
| **Flow direction** | From the inside out |
| **Material end caps** | Glass-fibre reinforced nylon (30%) |
| **Support body inside and outside** | Stainless steel |
| **Filtration medium** | Borosilicate microfiber fabric |
| **Pre- and after filtration** | Polypropylene netting |
| **Drainage layer** | Nonwoven polyester |
| **Bonding end caps** | Two-part epoxy resin |
| **Material o-ring** | NBR |
| **Distinctive characteristics** | Technically silicone-free |
| **Cavity volume at 68°F** | 96% |

## Filter elements APE765 CA

| Design | |
|---|---|
| **Flow direction** | From the inside out |
| **Material end caps** | Glass-fibre reinforced nylon (30%) - (temperature resistant up to 248°F) |
| **Support body inside and outside** | Stainless steel |
| **Filtration medium** | Non-woven medium. activated carbon impregnated |
| **After filtration** | Borosilicate microfibre |
| **Bonding end caps** | Two-part epoxy resin |
| **Material o-ring** | NBR |
| **Distinctive characteristics** | Technically silicone-free |
| **Cavity volume at 68°F** | 96% |

## Filter elements APE765 DSF - DMF (dust filtration)

| Design | |
|---|---|
| **Flow direction** | From the outside in |
| **Material end caps** | Glass-fibre reinforced nylon (30%) - (temperature resistant up to 248°F) |
| **Support body inside and outside** | Stainless steel |
| **Filtration medium** | Borosilicate microfiber |
| **Pre- and after filtration** | Polypropylene netting |
| **Bonding end caps** | Two-part epoxy resin |
| **Material o-ring** | NBR |
| **Distinctive characteristics** | Technically silicone-free |
| **Cavity volume at 68°F** | 96% |

| Correction factors | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Working pressure** | psig | 29 | 43.5 | 58 | 72.5 | 87 | 101.5 | 116 | 130.5 | 145 | 159.5 | 174 | 188.5 | 203 | 217.5 | 232 |
| | Coefficient | 0.38 | 0.50 | 0.63 | 0.75 | 0.88 | 1.00 | 1.12 | 1.25 | 1.37 | 1.49 | 1.62 | 1.74 | 1.86 | 1.98 | 2.10 |

Multiply the capacity of the filter by the correction factor in the upper table.

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## Compressed air filter APF765SMA with filter element

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## Dimensional drawing