



### Filter housing APF103CAK

| Design / capacity                    |                                                             |     |
|--------------------------------------|-------------------------------------------------------------|-----|
| Connection                           | Rp 1" female thread                                         |     |
| Nominal capacity                     | 110 m³/h with APE91CAK at 1 bar (abs.) and 20°C at 7 bar g  |     |
| Maximum capacity                     | 231 m³/h with APE91CAK at 1 bar (abs.) and 20°C at 16 bar g |     |
| Maximum working pressure             | 16 bar g                                                    |     |
| Material                             | Aluminium                                                   |     |
| Operating temperature maximum        | 120 °C                                                      |     |
| 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 mm                     | A                                                           | 328 |
| [Dimension drawing on the last page] | B                                                           | 23  |
|                                      | C                                                           | 104 |
|                                      | D                                                           | 98  |
| Weight (incl. element and drainage)  | 1,9 kg                                                      |     |
| CE norm                              | CE free according 2014/68/EU                                |     |

| Scope of supply     |           |
|---------------------|-----------|
| Housing             | APF103CAK |
| Filter element      | APE91CAK  |
| Condensate drainage | HAM12     |

| Options                                                 |                   |
|---------------------------------------------------------|-------------------|
| Oil indicator                                           | A-4000-120F       |
| Filter connection sets for 2 - 3 filters                | APF-VEE-(2/3)-M   |
| Wall mounting brackets, including filter connecting kit | APF-WHE-(1/2/3)-M |

### Capacity filter element APE91CAK

| Type     | Particle filtration | Residual oil content | Operation temperature [°C] |             | Differential pressure [mbar] |           |                 | ISO classes* |     |
|----------|---------------------|----------------------|----------------------------|-------------|------------------------------|-----------|-----------------|--------------|-----|
|          | [Mikron]            | [mg/m³]              | max                        | recommended | new                          | moistened | replacement     | particle     | oil |
| APE91CAK | 1,00                | 0                    | 50                         | 25          | 250                          | -         | every 12 months | 2            | -   |

Compressed air quality according ISO 8573-1:2010\*

| Correction factors |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Working pressure   | bar g       | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   |
|                    | 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.

## Aufbau

|                                        |                                    |
|----------------------------------------|------------------------------------|
| <b>Flow direction</b>                  | from the inside to the outside     |
| <b>Material end caps</b>               | Glass-fibre reinforced nylon (30%) |
| <b>Support body inside and outside</b> | acrylic tube                       |
| <b>Filtration medium</b>               | Activated carbon                   |
| <b>Pre / Final filtration</b>          | -                                  |
| <b>Bonding end caps</b>                | Two-part epoxy resin               |
| <b>Material o-ring</b>                 | NBR                                |
| <b>Distinctive characteristics</b>     | Technically silicone-free          |
| <b>Cavity volume at 20°C</b>           | 96%                                |

## Dimensional drawing

