



Filter housing APF103

Design / capacity		
Connection	Rp 1" female thread	
Nominal capacity	220 m³/h with APE91 at 1 bar (abs.) and 20°C at 7 bar g	
Maximum capacity	454 m³/h with APE91 at 1 bar (abs.) and 20°C at 16 bar g	
Maximum working pressure	16 bar g	
Material	Aluminum	
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	APF103
Filter element	APE91
Types of condensate drainage:	
VF25 – FF5 – MFO – MF1 – SMA	D150
DSF - DF1 - DMF, CA	HAM12

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

Capacity filter elements APE91

Type	Particle filtration [micron]	Residual oil content [mg/m³]	Working temperature [°C]		Differential pressure [mbar]			ISO classes*	
			maximum	recommended	new	moistened	replacement	particle	oil
APE91VF25	25	10	120	-	45	50	every 12 months	5	5
APE91SMA	0,01	0,01	120	-	75	110	every 12 months	1	1
APE91MFO	1	0,5	120	-	55	85	every 12 months	2	3
APE91MF1	0,1	0,1	120	-	65	90	every 12 months	1	2
APE91FF5	5	5	120	-	50	75	every 12 months	3	4
APE91DSF	0,01	-	120	-	75	-	every 12 months	1	-
APE91DMF	1	-	120	-	55	-	every 12 months	2	-
APE91DF1	0,1	-	120	-	65	-	every 12 months	2	-
APE91CA	-	0,003	50	25	100	-	every 6 months	-	1

*Compressed air quality according ISO 8573-1:2010



Filter elements APE91 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 20°C	96%

Filter elements APE91 CA

Design	
Flow direction	From the inside out
Material end caps	Glass-fibre reinforced nylon (30%) - (temperature resistant up to 120°C)
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 20°C	96%

Filter elements APE91 DSF - DF1 - DMF (dust filtration)

Design	
Flow direction	From the outside in
Material end caps	Glass-fibre reinforced nylon (30%) - (temperature resistant up to 120°C)
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 20°C	96%

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.

Dimensional drawing

