KSI ECOCLEAN® | Technical Data Sheet

Compressed air filter APF83 with filter element APE78

Rev 02_0820

Filter housing APF83

Design / capacity		
Connection		Rp 3/4“ female thread
Nominal capacity		120 m³/h with APE78 at 1 bar (abs.) and 20°C at 7 bar g
Maximum capacity		252 m³/h with APE78 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	APF83
Filter element	APE78
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 APE78

Type	Particle filtration	Residual oil content	Working temperature [°C]		Differential pressure [mbar]			ISO classes*	
	[micron]	[mg/m³]	maximum	recommended	new	moistened	replacement	particle	oil
APE78VF25	25	10	120	-	45	50	every 12 months	5	5
APE78SMA	0,01	0,01	120	-	75	110	every 12 months	1	1
APE78MFO	1	0,5	120	-	55	85	every 12 months	2	3
APE78MF1	0,1	0,1	120	-	65	90	every 12 months	1	2
APE78FF5	5	5	120	-	50	75	every 12 months	3	4
APE78DSF	0,01	-	120	-	75	-	every 12 months	1	-
APE78DMF	1	-	120	-	55	-	every 12 months	2	-
APE78DF1	0,1	-	120	-	65	-	every 12 months	2	-
APE78CA	-	0,003	50	25	100	-	every 6 months	-	1

*Compressed air quality according ISO 8573-1:2010

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Filter elements APE78 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 APE78 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 APE78 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.

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Dimensional drawing