KSI ECOCLEAN® | Technical Data Sheet

Compressed air filter APFF100-03 with filter element APE8601

Rev 01_0825

Filter housing APFF100-03

Design / capacity		
Connection		DN 100 flange
Nominal capacity		4200 m³/h with APE8601 at 1 bar (abs.) and 20°C at 7 bar g
Maximum capacity		8820 m³/h with APE8601 at 1 bar (abs.) and 20°C at 16 bar g
Maximum working pressure		16 bar g
Material		Carbon steel
Operating temperature maximum		80°C
Coating inside / outside		corrosion protection layer
Colour outside		RAL 5010 (powder coated)
Fixing element		Rp Tie rod
Condensate drainage connection		1/2“ female thread
Dimensions in mm	**A**	1152
[Dimension drawing on the last page]	**B**	177
	C	550
	D	405
	E	510
Weight in kg		102,1

Scope of supply	
Housing	APFF100-03
Filter element	APE8601
Quantity	3
Types of condensate drainage:	
SMA - MF1 - MFO - FF5 - VF25	D200
DSF - DF1 - DMF, CA	HAM12

Norms	
Pressure vessel standard	2014/68/EU
Category	III
Module	B + F
Fluid group	2

Options	
Differential pressure gauge	APFF-DPN
Level-controlled condensate drain	KN5

KSI ECOCLEAN® | Technical Data Sheet

Compressed air filter APFF100-03 with filter element APE8601

Rev 01_0825

Filter elements APE8601 SMA - MF1 - MFO - FF5 - VF25

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	Borosilicate microfiber fabric
Pre- and final filtration	Fibrous fleece
Drainage layer	Polyester needle felt
Bonding end caps	Two-component polyurethane resin
Material o-ring	NBR
Distinctive characteristics	Technically silicone-free
Cavity volume at 20°C	96%

Filter elements APE8601 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
Final filtration	Fibrous fleece
Bonding end caps	Two-component polyurethane resin
Material o-ring	NBR
Distinctive characteristics	Technically silicone-free
Cavity volume at 20°C	96%

Filter elements APE8601 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 fabric
Pre- and final filtration	Fibrous fleece
Bonding end caps	Two-component polyurethane 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.

KSI ECOCLEAN® | Technical Data Sheet

Compressed air filter APFF100-03 with filter element APE8601

Rev 01_0825

Capacity filter elements APE8601

Type	Particle filtration	Residual oil content	Working temperature [°C]		Differ. pressure [mbar]		Replacement	ISO classes*	
	[micron]	[mg/m³]	max.	rcommended	new	moistened		particle	oil
APE8601SMA	0,01	0,01	120	50	85	130	1 year	1	1
APE8601MF1	0,1	0,1	120	50	75	100	1 year	1	2
APE8601MFO	1	0,5	120	50	60	95	1 year	2	2
APE8601FF5	5	5	120	-	55	80	1 year	3	4
APE8601VF25	25	10	120	-	45	50	1 year	5	5
APE8601CA	-	0,003	25	-	75	-	every 300-400 op. hours	-	1
APE8601DSF	0,01	-	120	50	85	-	1 year	1	-
APE8601DF1	0,1	-	120	50	75	-	1 year	2	-
APE8601DMF	1	-	120	50	60	-	1 year	2	-

*Compressed air quality according ISO 8573-1:2010

Dimensional drawing