KSI ECOCLEAN® | Technical Data Sheet

Compressed air filter APFF825-3-01 with filter element APE825

Rev 01_0325

Filter housing APFF825-3-01

Design / capacity		
Connection		3“ flange flange
Nominal capacity		825 cfm with APE825 at 14.5 psi (abs.) and 68°F at 101 psi g
Maximum capacity		1732 cfm with APE825SMA at 14.5 psi (abs.) and 68°F at 232 psi g
Maximum working pressure		232 psi g
Material		Carbon steel
Operating temperature maximum		176 °F
Coating inside / outside		corrosion protection layer
Colour outside		RAL5010 (powder coated)
Fixing element		Tie rod
Condensate drainage connection		Rp 1/2“ female thread
Dimensions in inch	**A**	34.33
[Dimension drawing on the last page]	**B**	4.57
	C	14.17
	D	11.22
	E	20.08
Weight in lbs		441

Scope of supply	
Housing	APFF825-3-01
Filter element	APE825
Quantity	1
Types of condensate drainage:	
SMA - MF1 - MFO - FF5 - VF25	D200
DSF - DF1 - DMF, CA	HAM12

Norms	
Pressure vessel standard	ASME Certification Mark with “UM” designator
NB Registration	Yes

Options	
Differential pressure gauge	APFF-DPN
Zero-loss condensate drain	KN265

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Filter elements APE825 SMA - MF1 - MFO - FF5 - VF25

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	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 68°F	96%

Filter elements APE825 CA

Design	
Flow direction	From the inside out
Material end caps	Glass-fibre reinforced nylon (30%) - (temperature resistant up to 248°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 68°F	96%

Filter elements APE825 DSF - DF1 - 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 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 68°F	96%

Correction factors																
Working pressure	psig	29	43.5	58	72.5	87	101	116	130	145	160	174	189	203	218	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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Capacity filter elements APE825

Type	Particle filtration	Residual oil content	Working temperature [°F]		Differential pressure [psi]			ISO classes*	
	[micron]	[mg/m3]	maximum	recommended	new	moistened	replacement	particle	oil
APE825SMA	0.01	0.01	248	122	1.2	1.9	1 year	1	1
APE825MF1	0.1	0.1	248	122	1.1	1.5	1 year	1	2
APE825MFO	1	0.5	248	122	0.9	1.4	1 year	2	2
APE825FF5	5	5	248	-	0.8	1.2	1 year	3	4
APE825VF25	25	10	248	-	0.7	0.7	1 year	5	5
APE825CA	-	0.003	77	-	1.1	-	6 months	-	1
APE825DSF	0.01	-	248	122	1.2	-	1 year	1	-
APE825DF1	0.1	-	248	122	1.1	-	1 year	2	-
APE825DMF	1	-	248	122	0.9	-	1 year	2	-

*Compressed air quality according ISO 8573-1:2010

Dimensional drawing