Technical Data Sheet

Compressed air filter IPF163 with filter element IPE160

Rev 01_0619

www.inmatec.com

Filter housing IPF163

Design / capacity		
Connection		Rp 2“ female thread
Nominal capacity		1300 m³/h with IPE160 at 1 bar (abs.) and 20°C at 7 bar g
Maximum capacity		2520 m³/h with IPE160 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 9006 (powder coated)
Fixing element		Wing suspension
Condensate drainage connection		Rp 1/2“ female thread
Dimensions in mm	**A**	744
[Dimension drawing on the last page]	**B**	45
	C	196
	D	195
Weight (incl. element and drainage)		12,6 Kg
CE norm		2014/68/EU Categorie I

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Scope of supply	
Housing	IPF163
Filter element	IPE160
Types of condensate drainage:	
SMA - FF3	D200
DMF, CA	HAM12

Options	
Differential pressure gauge	DPN
Level-controlled condensate drain	KN1
Level-controlled condensate drain	KN5

Capacity filter elements IPE160

Type	Particle filtration	Residual oil content	Working temperature [°C]		Differential pressure [mbar]			ISO classes*	
	[micron]	[mg/m³]	maximum	recommended	new	moistened	replacement	particle	oil
IPE160SMA	0,01	0,01	120		75	110	every 12 months	1	1
IPE160FF3	3	3	120		50	75	every 12 months	3	4
IPE160CA	-	0,003	50	25	100	-	every 6 months	-	1
IPE160DMF	1	-	120		55	-	every 12 months	2	-

*Compressed air quality according ISO 8573-1:2010

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Filter elements IPE160 SMA - FF3

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 IPE160 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 IPE160 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