

# Technical Data Sheet

## Compressed air filter IPF163 with filter element IPE160

Rev 01\_0619



### Filter housing IPF163

Design / capacity	
Connection	Rp 2" female thread
Nominal capacity	1300 m <sup>3</sup> /h with IPE160 at 1 bar (abs.) and 20°C at 7 bar g
Maximum capacity	2520 m <sup>3</sup> /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

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 [micron]	Residual oil content [mg/m <sup>3</sup> ]	Working temperature [°C]		Differential pressure [mbar]			ISO classes*	
			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

