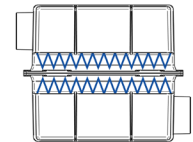
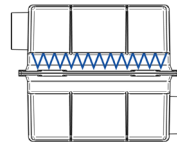
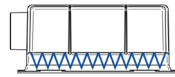


FREUDENBERG VILEDON® FUEL CELL FILTERS

FC F-05 SERIES

USAGE: PARTICULATE (DROPLETS) AND GASEOUS CONTAMINANTS
ATTACHMENT PORT: INNER THREAD G2"
FILTERELEMENT: A: BASE ELEMENT

TECHNICAL DATA



	FC F-0514-A	FC F-0512-A	FC F-0513-AA
Housing	half-open	closed	closed
Size (L/W/H) in mm ca.	301 / 255,5 / 122	314 / 255,5 / 244	314 / 255,5 / 244
Housing Burst Pressure in mbar	-	120	120
Screws: Maximum Fastening Torque in Nm	1,5	1,5	1,5
Max. Operation/Storage Temperature in °C	80	80	80
Nominal Volume Flow in m³/h	0 – 250	0 – 250	0 – 250
Number of Filterelements	1	1	2
PERFORMANCE:	FILTERELEMENT	FILTERELEMENT	FILTERELEMENTS
	A:	A:	AA:
Pressure Drop in Pa (Begin of Life, following ISO 5011)			
100m³/h	263	372	389
150m³/h	599	853	882
200m³/h	1061	1555	1596
250m³/h	1659	2434	2489
300m³/h	2394	3497	3570
Particulate Efficiency in % (AC-Fine Dust, following DIN 71460)			
0,2µm	84	84	92
0,3µm	84	84	93
0,5µm	85	85	94
1µm	87	87	95
3µm	92	92	97
5µm	94	94	> 98
10µm	96	96	> 98
Adsorption Performance @ 100m³/h (Following DIN 71460)			
Capacity in mg			
SO ₂ @ 30 ppm	> 4900	> 4900	> 7000
NH ₃ @ 30 ppm	NA	NA	NA
NO _x @ 30 ppm	> 5500	> 5500	> 5800
Toluene @ 80 ppm	30000	30000	NA
n-Butane @ 80 ppm	1700	1700	NA
Breakthrough @ 1 min. in %			
SO ₂ @ 30 ppm	<1	<1	<1
NH ₃ @ 30 ppm	NA	NA	NA
NO _x @ 30 ppm	2	2	2
Toluene @ 80 ppm	2	2	NA
n-Butane @ 80 ppm	56	56	NA
Dust Holding Capacity in g @ 100m³/h (Following ISO 5011 / dp = 10 mbar)	46.9	46.9	46.9

(Rev. 00 – 01/2010)

Secure attaching in responsibility of customer, screw locking to be used if needed. The Filter should not be used as a supporting element or primary structure.

All values represent averages which are subject to usual production tolerances. The individual filtration performance of our filter does not only depend on the quality of the respective supplied part but also on local environmental conditions such as air quality as well as temperature and relative humidity. Each customer should adequately test any product before regular use in the field. Since we are currently optimizing our products, we reserve the right to modify our product portfolio, production facilities or locations, products and respective processing procedures and respective information without prior information. The values do not represent specifications. Any warranty and liability is subject to our General Terms of Delivery and Payment applicable at the delivery date.

CONTACT

FREUDENBERG FCCT KG Höhner Weg 2-4, 69465 Weinheim, Germany, www.ffcct.com
FAX +49 6201 88 4489 **E-MAIL** ffcct@freudenberg.de