

## FCC-150

### FILTER CARTRIDGE (TWO-PIECE)

The FCC-150 is a two-piece filter cartridge used as a main filter in a centralized filter system. It is constructed out of cellulose fibers. The medium is formed into a wedge-shaped filter pattern and molded into a round profile. As a result of this special pleated design and construction, along with the final embossing of filter medium, an equal airflow is created, enabling the weight of dust flow to be equally distributed over the filter surface.

The welding fume particles are collected on the outside of the filter cartridge. When the pressure drop reaches a certain minimum level, it is automatically cleaned by compressed airshots from the inside of the filter. This makes it a self-cleaning filter.



#### APPLICATIONS

The FCC-150 is intended to be used for the following applications:

- MIG-MAG/GMAW welding
- TIG welding
- FCAW welding
- stick/MMAW welding



Do **not** use the FCC-150 for the following applications or in the following circumstances:

- arc-air gouging
- aluminium laser cutting
- oil mist
- heavy oil mist in welding fume
- extraction of aggressive fumes and gases (e.g. from acids, from alkaline, from soldering paste containing lithium)
- extraction of hot gases (more than 45°C/113°F continuously)
- grinding aluminum and magnesium
- flame spraying
- extraction of cement, saw dust, wood dust etc.
- sucking cigarettes, cigars, oiled tissues and other burning particles, objects and acids
- explosive environments or explosive substances/gases



#### SPECIFICATIONS

##### Physical dimensions and properties

Filter material	<ul style="list-style-type: none"> <li>• 78% cellulose</li> <li>• 22% resin (phenol with flame retardant impregnation F1)</li> </ul>
Diameter	Ø 860 mm (33.9 in.)
Height	2 x 600 mm (2 x 23.6 in.)
Colour of filter material	light yellow
Weight (net)	2 x 20 kg (2 x 44 lbs)
Shape	pleated round
Number of pleats	798
Filter surface area	2 x 75 m <sup>2</sup> (2 x 807 ft <sup>2</sup> )
Surface weight	128 g/m <sup>2</sup> (184 grains/ft <sup>2</sup> )
<b>Performance</b>	
Treatment	SurfacePlus precoat (synthetic amorphous silica)

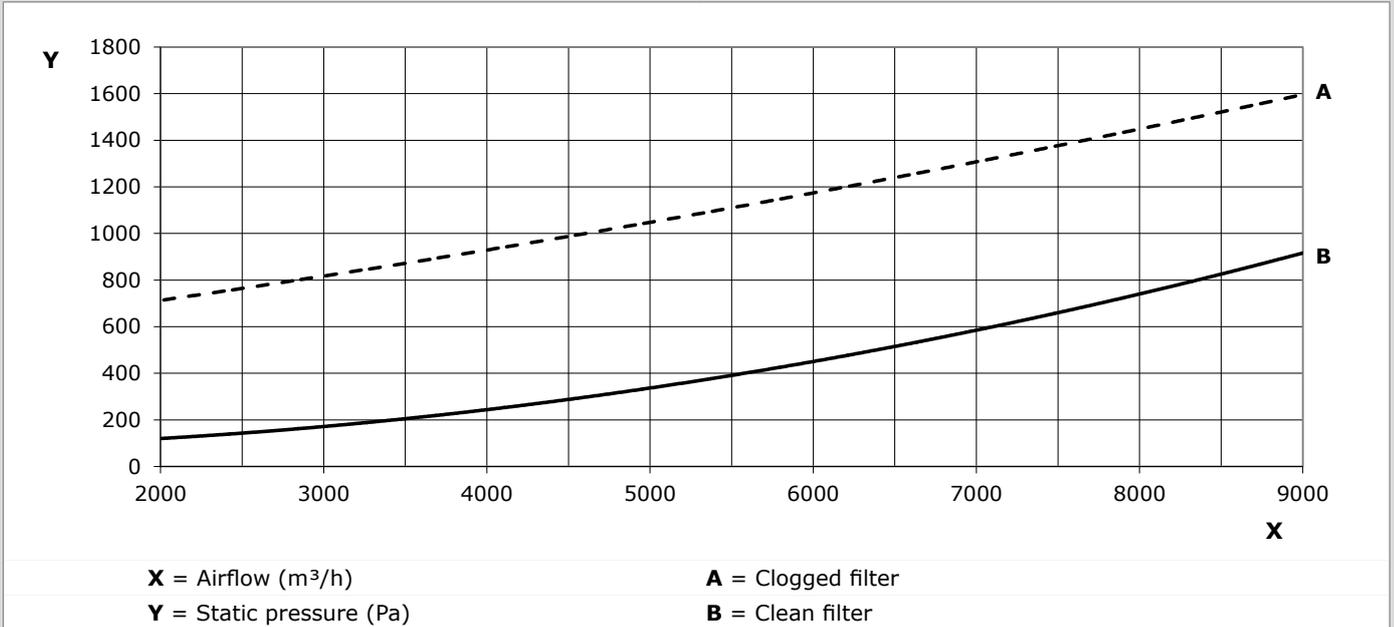
Dust class	M according to DIN EN 60335-2-69
Dust class/at flow	200 m <sup>3</sup> /m <sup>2</sup> .h (10.9 ft <sup>3</sup> /ft <sup>2</sup> .min.)
Particle size	0,3-5 µm
Filtration speed	0,056 m/s (11 ft/min.)
Quartz dust concentration	200 +/- 20 mg/m <sup>3</sup> (0.087 grains/ft <sup>3</sup> )
Fire class	F1 according to DIN 53438
Air permeability test at 200 Pa (0.8 in. WG)	520 m <sup>3</sup> /m <sup>2</sup> .h (28.4 CFM/ft <sup>2</sup> )
<b>Ambient conditions</b>	
Operating temperature:	<ul style="list-style-type: none"> <li>• Min. 5°C (41°F)</li> <li>• Nom. 20°C (68°F)</li> <li>• Max. 50°C (122°F)</li> </ul>
Max. relative humidity	75%
Outdoor use allowed	no
Storage conditions	<ul style="list-style-type: none"> <li>• 5-50°C (41-122°F)</li> <li>• relative humidity max. 75%</li> </ul>
<b>Where used</b>	
SCS	central filter system
<b>Scope of supply</b>	
Filter cartridge (two-piece)	
<b>Order information</b>	
Article number	9850060080
Number/package	1 (two-piece)
<b>Shipping data</b>	
Gross weight	2 x 22 kg (2 x 48.5 lbs)
Packing dimensions	2 x (92 x 92 x 65 cm) 2 x (36.2 x 36.2 x 25.6 in.)
Max. number/pallet	1,5 (3 pieces)
Harmonized Tariff Code	8421.39.2090

**APPROVALS/CERTIFICATES**



**Filter material:**  
 IFA certificate no.  
 201421649/6210 (valid until  
 May 8, 2017)

**PRESSURE DROP**



Product type	<b>FCC-150</b>
Article no.	9850060080
Product category	Filters
Version	300318/G

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