

DURAFILTER FCC-50

FILTER CARTRIDGE

The DuraFilter FCC-50 is a disposable filter cartridge used as a main filter in mobile and stationary welding fume extraction systems. The filter cartridge is built of cellulose fibers. It is shaped into a square profile and provided with cardboard corners. The special construction (pleats) and the embossing of the filter medium guarantee an equal airflow over the filter. As a result, the pollution is equally divided over the entire filter surface.

The welding fume particles are collected on the inside of the filter cartridge. When it is saturated, it needs to be replaced.



APPLICATIONS

The DuraFilter FCC-50 is intended to be used for the following applications:

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



Do **not** use the DuraFilter FCC-50 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

Material	cellulose fibres + polyurethane + cardboard
Dimensions L x W	550 x 550 mm (21.65 x 21.65 in.)
Height	590 mm (23.22 in.)
Colour	yellow/brown
Weight (net)	9,15 kg (20.2 lbs)
Shape	pleated square
Number of pleats	508
Filter surface area	50 m ² (538 ft ²)
Surface weight	118 g/m ² (169 grains/ft ²)

Performance

Treatment	SurfacePlus precoat (synthetic amorphous silica)
Efficiency	>99%

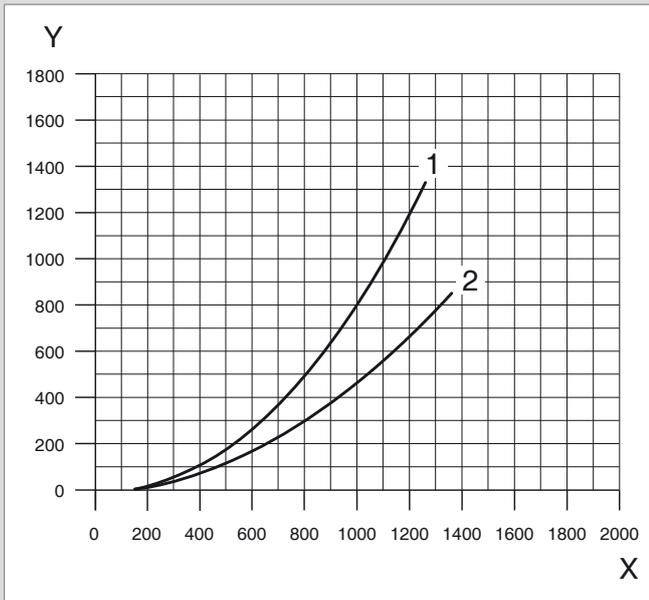
Filter class	M according to NEN EN IEC 60335-2-69
Filter class/at flow	200 m ³ /m ² .h (10.9 ft ³ /ft ² .min.)
Particle size	0,3-5 µm
Filtration speed	0,056 m/s (11 ft/min.)
Quartz dust concentration	200 +/- 20 mg/m ³ (0.087 grains/ft ³)
Fire class	F1 according to DIN 53438
Air permeability test at 200 Pa (0.8 in. WG)	520 m ³ /m ² .h (28.4 CFM/ft ²)
Ambient conditions	
Operating temperature:	<ul style="list-style-type: none"> • Min. 5°C (41°F) • Nom. 20°C (68°F) • Max. 45°C (113°F)
Max. relative humidity	75%
Outdoor use allowed	no
Storage conditions	<ul style="list-style-type: none"> • 5-45°C (41-113°F) • relative humidity max. 75%
Available options	
FAC-50	activated carbon filter
Where used	
MFD	mobile welding fume extractor
SFD	stationary welding fume filter
Scope of supply	
Pre-coated filter cartridge - Pair of gloves - Dust mask	
Order information	
Article number	9850060050
Number/package	1
Shipping data	
Gross weight	10,75 kg (23.7 lbs)
Packing dimensions	58 x 58 x 62 cm (22.8 x 22.8 x 24.2 in.)
Max. number/pallet	12
Harmonized Tariff Code	8421.39.2090
Country of origin	the Netherlands

APPROVALS/CERTIFICATES



BGIA certificate no.
200621746/6210 and
200621747/6210, both valid
until June 1, 2012

PRESSURE DROP



X = Airflow (m³/h)

Y = Static pressure (Pa)

1 = Clogged filter

2 = Clean filter

Product type	DuraFilter FCC-50
Article no.	9850060050
Product category	Filters
Version	290910/D

Always check the latest version on www.plymovent.com.