PLYMIJVENT®

clean air at work

DURAFILTER FCC-30

FILTER CARTRIDGE

The DuraFilter FCC-30 is a filter cartridge used as a main filter in mobile and stationary welding fume extraction systems. 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 DuraFilter FCC-30 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-30 for the following applications or in the following circumstances:



- 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/polyester fibres + polyurethane + metal
Diameter	Ø 480 mm (18.9 in.)
Height	600 mm (23.6 in.)
Colour	yellow/brown
Weight (net)	6,3 kg (13.9 lbs)
Shape	pleated round
Number of pleats	420
Filter surface area	30 m ² (323 ft ²)
Surface weight	90 g/m² (129 grains/ft²)
■ Performance	
Treatment	SurfacePlus precoat (synthetic amorphous silica)
Efficiency	>99,9%
Filter class	M according to DIN EN 60335-2-69

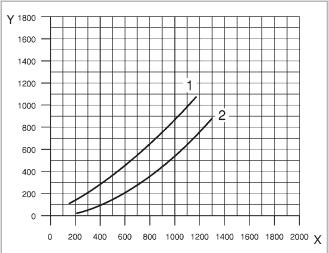
Filter class/at flow	200 m ³ /m ² .h (10.9 ft ³ /ft ² .min.)
Particle size	0,3-5 μm
Filtration speed	0,056 m/s (11 ft/min.)
Quartz dust concentration	200 +/- 20 mg/m³ (0.087 grains/ft³)
Air permeability test at 200 Pa (0.8 in. WG)	250 m³/m².h (13.6 CFM/ft²)
■ Ambient conditions	
Operating temperature: • Min. • Nom. • Max.	• 5°C (41°F) • 20°C (68°F) • 45°C (113°F)
Max. relative humidity	75%
Outdoor use allowed	no
Storage conditions	• 5-45°C (41-113°F) • relative humidity max. 75%
■ Where used	
MFS	mobile welding fume extractor
SFS	stationary welding fume filter
Scope of supply	
Pre-coated filter cartridge - Dust mask	Pair of disposable gloves -
Order information	
Article number	9850060110
Number/package	1
■ Shipping data	
Gross weight	7,5 kg (16.5 lbs)
Packing dimensions	500 x 500 x 625 mm (19.7 x 19.7 x 24.6 in.)
Max. number/pallet	
Harmonized Tariff Code	8421.39.2090
Country of origin	the Netherlands

APPROVALS/CERTIFICATES



BGIA certificate no. 200621751/6210 (valid until June 1, 2012)

PRESSURE DROP



- $X = Airflow (m^3/h)$
- Y = Static pressure (Pa)
- 1 = Clogged filter
- 2 = Clean filter

Product type

Article no.

Product category

DuraFilter FCC-30

9850060110 Filters

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