

Product Specification

MICROPLEAT® DM MINI PLEAT HEPA DUCTED FILTER

1.0 Scope

This specification covers high efficiency particulate air (HEPA) filters that are a component of high purity and clean room applications

2.0 Construction

The filters consist of a high efficiency pleated media pack using hot-melt bead separators, contained in cell sides made of anodized extruded aluminum and a ducted connection.

2.1 Media

The media shall be made of a continuous sheet of dual-phase high efficiency white micro-fiber glass paper with an acrylic binder.

2.2 Media Pack

The media shall be pleated into a pack using hot-melt bead separators, forming a 2" depth mini-pleat pack

2.3 Media Pack Sealant

The media pack shall be potted polyurethane on the top, bottom and sides of the frame.

2.4 Filter Frame

The media pack shall be contained within extruded cell sides of anodized aluminum. The frame shall have an aluminum panel installed on the air entering side of the frame, forming a fully enclosed module.

There shall be an inlet collar on the air entering side of the module to allow connection to duct work to supply air directly to the module.

An adjustable perforated damper shall be provided to adjust air flow to the module.



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There shall be a center port with access port provided to allow

2.5 Face Guard

A white expanded metal faceguard shall be provided on the air leaving side of the filter.

2.6 Media Area

The filters shall contain a minimum amount of media per the following schedule:

23.625 x 47.625 x 2.75	215 ft ²
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3.0 Performance

The filters shall meet the following minimum performance, based on overall penetration testing per IEST-RP-CC001 using PAO aerosol.

MICROPLEAT products are individually tested and certified at the factory.

Model	CD24480L-0NP750W36
Actual Size	23.625 x 47.625 x 5
Collar Diameter	10"
Rated Air Velocity	90 FPM
Rated Air Flow Capacity	620 CFM
Initial Resistance	0.45 – 0.50" W.G.
Final Resistance	Twice Initial Resistance
Efficiency (0.3 micron)	99.99% (Scanned)

4.0 Underwriters Laboratories Classification

The filters shall be classified per UL Standard 900 for flammability.

5.0 Operating Temperature Limits

The filter shall operate at temperatures up to 160°F (71 °C) without materially affecting filter integrity or performance.



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6.0 Product Options

This specification covers standard MICROPLEAT construction. Product is available in a wide range of material and construction options.

Contact your Parker HVAC Filtration representative regarding product specifications for specific products.

Minimum Efficiencies	99.97% on 0.3 micron (overall) 99.99% on 0.3 micron (scanned) 99.999% on 0.3 micron (scanned) 99.999% on 0.12 micron (scanned) 99.9995% on 0.12 micron (scanned)
Face Sizes	24 x 24 and 24 x 48
Depth	5"
Rated Air Velocity	90 FPM
Cell Side Materials	Anodized Extruded Aluminum
Cell Side Styles	Ducted Filter – 10" Collar Ducted Filter – 12" Collar
Gasket	1/4" x 3/4" Urethane Gasket Knife Edge Skirt
Factory Options	Expanded Metal Faceguards - White Coated Metal Center posts with test ports
Separators	2" Mini-Pleat Bead Pack (54 mm)

