

# VISKON-AIRE\*

## Air Filter Products

### Series 490 Oil Mist Filters

Viskon-Aire\* Series 490 pocket filters are designed to meet the toughest operating environments. The Series 490 pocket filter can be used in oil mist applications to remove oil mist from the airstream, typically, oil mist is generated from most machining operations which create both a mist and aerosol that needs to be captured and removed from the airstream. Oil mist is the aerosol that is formed when oil is used for cooling or lubricating during the machining of metal and some plastic components. Oil smoke is formed when oil contacts the hot machined surface, vaporizes, and condenses sub-micron particles in some cases which are below 1  $\mu\text{m}$ .

It is recommended that best practices be followed which were developed using the recommendations set forth in the OSHA Metalworking Fluids Standards Advisory Committee Final Report (1999); the NIOSH Criteria Document on Occupational Exposure to Metalworking Fluids (1998); and the Organization Resources Counselors, "Management of the Metal Removal Fluid Environment: A Guide to the Safe and Efficient Use of Metal Removal Fluids" (1999) or other governing bodies.

The filter media is manufactured from high density air-laid glass fiber constructed into 8 or 10 pockets with support loops or rods and tested to ASHRAE 52.2-2017.



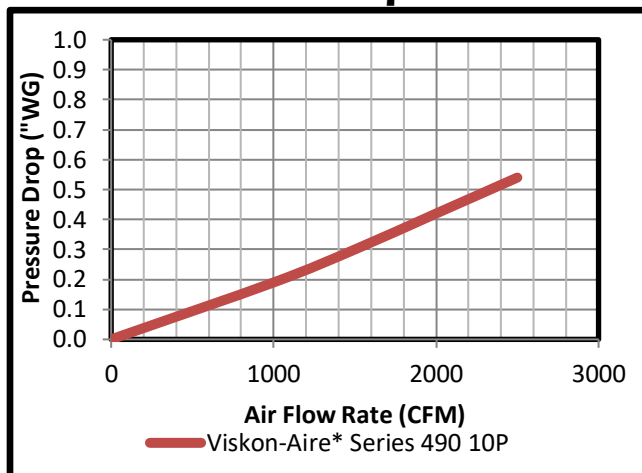
#### Viskon-Aire\*Series 490 Oil Mist Filter Benefits:

- Sustainable filter efficiency
- Low pressure drop ( $\Delta P$ ) for better air flow
- 95 Ft<sup>2</sup> of media in 10 pocket 26" depth
- High dust holding capacity
- Self-supporting loops or rods for pocket rigidity
- Doubled-locked stitching for greater strength
- High capture efficiency on oil mist particles
- Thermoplastically sealed stitching
- Roll formed galvanized header
- UL 900 Classified
- Maximum temperature 190° F (88 °C)

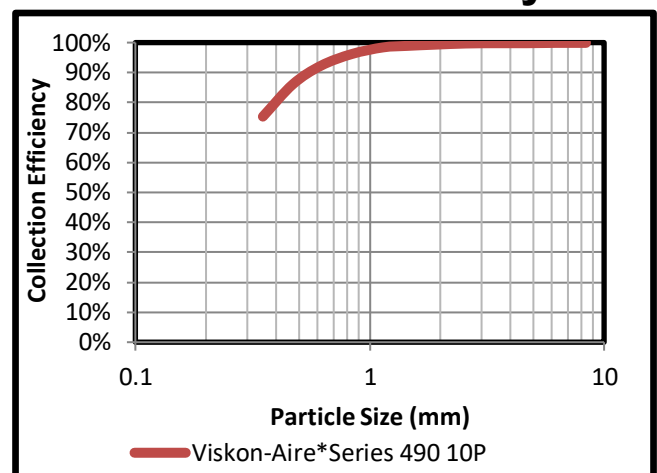
Performance	Results
Pressure Drop @ 1,968 CFM	0.42" w.g. (105 Pa)
Particle Size Efficiency @ 1 $\mu\text{m}$	98%
Final Pressure Pressure Drop:	1.5" w.g. ( 374 Pa)
Sustainable Efficiency:	ASHRAE MERV 15-A
Media Area:	81 - 130 ft <sup>2</sup> (7.5-12m <sup>2</sup> )



**Pressure Drop Curve**



**Particle Size Efficiency**



**“When Clean Air is Critical”**

## Performance Technical Data:

Viskon-Aire* Model Number	MERV Rating (EN 779)	Actual Dimensions Inches (mm)			Number of Pockets	Capacity CFM (m <sup>3</sup> /hr)	Initial Pressure Drop inches w.g. (Pa)	Media Area ft <sup>2</sup> (m <sup>2</sup> )
		Height	Width	Depth				
FG14242426081OMX (Loops)	15 (F9)	23.31 (592)	23.31 (592)	26 (660)	8	2000 CFM (3400 m <sup>3</sup> /hr.)	0.60" w.g. (152 Pa)	81 ft <sup>2</sup> (7.5 m <sup>2</sup> )
FG14242426103OMX (Support Rods)	15 (F9)	23.31 (592)	23.31 (592)	26 (660)	10	2000 CFM (3400 m <sup>3</sup> /hr.)	0.42" w.g. (105 Pa)	95 ft <sup>2</sup> (9 m <sup>2</sup> )
FG14242426101OMX (Loops)	15 (F9)	23.31 (592)	23.31 (592)	26 (660)	10	2000 CFM (3400 m <sup>3</sup> /hr.)	0.42" w.g. (105 Pa)	95 ft <sup>2</sup> (9 m <sup>2</sup> )
FG14242436101OMX (Loops)	15 (F9)	23.31 (592)	23.31 (592)	36 (914)	10	2000 CFM (3400 m <sup>3</sup> /hr.)	0.56" w.g. (139 Pa)	130 ft <sup>2</sup> (12 m <sup>2</sup> )

## Performance Data Notes for Viskon-Aire Filters:

1. Pressure drop represents inches of water (0.42" w.g.) (24x24x26) with the filter being in a clean condition. Final pressure drop is recommended to 1.5" w.g., however, it is recommended that the pressure drop change should be selected on the basis of life cycle costing that optimizes the best use of the filter in oil mist environments.
2. Efficiency is based upon ASHRAE Test Standard 52.2-2017.
3. Note: Filter header depth is 13/16" (21mm).

## Product Shipping & Packaging Information:

Filter Model	Actual Dimensions Inches (mm)			Weight Lbs (kg)	Packaging	Carton Dimensions Inches (mm)
	Height	Width	Depth			
FG14242426103OMX (Support Rods)	23.31 (592)	23.31 (592)	26 (660)	5.8 (2.63)	4 per carton	24 x 15 x 48 (610 x 381 x 1219)
FG14242430101OMX (Loops)	23.31 (592)	23.31 (592)	30 (762)	6.0 (2.72)	3 per carton	25 x 25 x 12 (635 x 635 x 305)
FG14242426101OMX (Loops)	23.31 (592)	23.31 (592)	26 (660)	5.5 (2.49)	3 per carton	25 x 25 x 12 (635 x 635 x 305)
FG14242436101OMX (Loops)	23.31 (592)	23.31 (592)	36 (914)	7.3 (3.31)	3 per carton	25 x 25 x 12 (635 x 635 x 305)

Viskon-Aire Corporation has a policy of continuous research & development and reserves the right to change the design and specifications without notice.

## Viskon-Aire\* High Performance Pre-filter Products

Viskon-Aire Corporation manufactures a complete line of complementary pre-filter products. Viskon-Aire offers self-sealing panel filters which can be close-coupled to the Series 490 pocket filter to help coalesce oil mist particles upstream of the pocket filter. Coalescing heavy oil mist particles upstream of the Viskon-Aire\* pocket filter will increase the life of the pocket filter, thus increasing your ROI.

Viskon-Aire\* offers a complete line of oil mist products to remediate oil mist particles from the airstream. Viskon-Aire offers high end ASHRAE rated products in efficiencies from MERV 11 - MERV 16 with different pocket configurations and depth. Viskon-Aire's high quality pre-filter portfolio, you can select filters which will protect your final filter investment and ensure long life of the total filter system.

**Viskon-Aire Corporation**  
 Telephone: (410)-543-8802 Email: [sales@viskon-aire.com](mailto:sales@viskon-aire.com)  
 F.O.B. Salisbury, Maryland  
[www.Viskon-Aire.com](http://www.Viskon-Aire.com)