

**LMS Technologies, Inc.**  
**P.O. Box 24185, Edina, MN 55424 U.S.A.**  
 (952) 918-9060, Fax: (952) 918-9061

Date :	April 5, 2018	Wfrac. 277	Test Requested by : Airsan
Filter ID :	Metal Screen Media Coalescer		Angle: Vertical
Test Type :	Fractional Efficiency water	<b>625 fpm</b>	Filter Mfr. : Airsan
Aerosol:	<b>Water Droplets</b>		ΔP init.: 0.321in. <span style="float: right; color: red;"><b>8.15 mm</b></span>

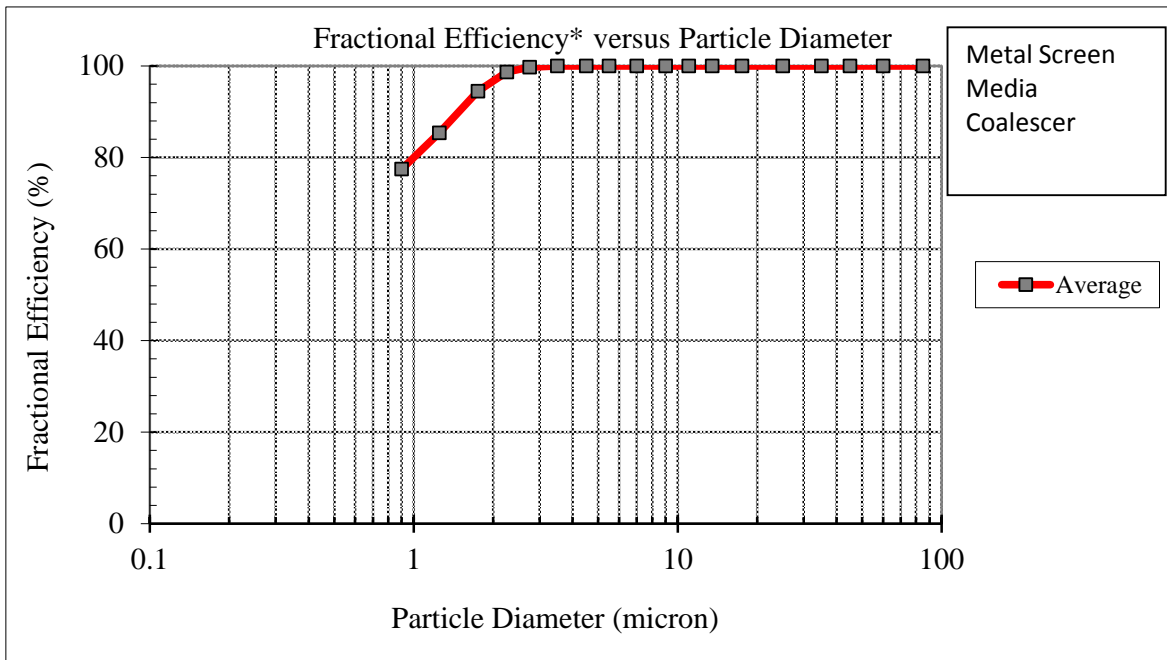
Time Elapsed, min.:	0.321in.		0.419in.			0.436in.					Average
	1 min.	2 min.	3 min.	4 min.	5 min.	6 min.	7 min.	8 min.			
Size Range (µm)	Initial Fractional Efficiency (%)										
0.2-0.3	<b>No Particle Region</b>										
0.3-0.4											
0.4-0.6											
0.6-0.8											
0.8-1.0	77.9	77.6	77.2	76.8	77.7	77.5	77.2	77.8			<b>77.46</b>
1.0-1.5	84.8	85.2	85.5	85.4	85.3	85.4	85.8	85.6			<b>85.38</b>
1.5-2.0	93.9	94.2	94.5	94.4	94.8	95.1	94.6	94.5			<b>94.50</b>
2.0-2.5	98.7	98.8	98.5	98.9	98.6	98.4	98.9	98.8			<b>98.70</b>
2.5-3.0	99.5	99.7	99.8	99.7	99.9	100.0	99.7	99.6			<b>99.74</b>
3-4	<b>100% Filtration Region</b>										<b>100.00</b>
4-5											<b>100.00</b>
5-6											<b>100.00</b>
6-8											<b>100.00</b>
8-10											<b>100.00</b>
10-12											<b>100.00</b>
12-15											<b>100.00</b>
15-20											<b>100.00</b>
20-30											<b>100.00</b>
30-40											<b>100.00</b>
40-50											<b>100.00</b>
50-70											<b>100.00</b>
70-100	<b>100.00</b>										

$$F_{eff} = \frac{C_{up} - C_{down}}{C_{UP}} \times 100\%$$

$F_{eff}$  = Fractional Efficiency of Water Mist Collection

$C_{up}$  = Water Particle Concentration Upstream of Filter

$C_{down}$  = Water Particle Concentration Downstream of Filter



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Filter ID :	Metal Screen Media Coalescer		Angle: Vertical	
Test Type :	Fractional Efficiency water	<b>625 fpm</b>	Filter Mfr. :	Airsan
Aerosol:	Water droplets		$\Delta P$ init.: <b>0.321in.</b>	$\Delta P$ final: <b>0.436in.</b>

