



Falls Filtration  
Technologies, Inc

"Manufacturer of Airmaze Products"

# MULTIMAZE

INDUSTRIAL AIR INTAKE



## MULTI MAZE INTAKE AIR FILTER/FILTER SILENCERS

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### Oil-wetted wire mesh of dry pleated paper media 400-6000 CFM capacity

#### **Performance**

Impingement principles provide up to 96% arrestment on harmful dirt particles 10 microns or larger on the oil wetted models, the dry paper models will achieve 99% arrestment on particles 5 microns or larger. Pressure drop across a clean filter element is less than .25" WG.

Depending on connection size, total loss across a complete unit is generally less than 3" WG. and is only slightly higher in the BWM type filters-silencer models.

#### **Attenuation**

Type MU filter silencers provide attenuation in the frequency ranges where noise levels of reciprocating compressors and engines are most objectionable. The BW models with additional acoustical components, were specifically designed for installation to lobe type compressors and centrifugal blowers.

For specific information refer to the chart below.

#### **Construction**

Relatively lightweight, Multimaze filters and filter-silencers can be supported directly on the air intake. The wire mesh filter element is of crimped galvanized screen cloth which becomes progressively denser. This results in greater dirt holding capacity, thus reducing service frequency intervals. Media will not pack down or channel due to vibration. The pleated-paper element is of pleated construction and employs a protective outer wrap to prevent damage to pleats.

Optional weather hoods are available on all models. Finish is grey enamel.

#### **Sizing**

Refer to the table on the opposite page. Capacities indicated are for constant flow.

#### **Servicing**

Unscrew wing nut and remove element. Wire mesh models require washing the element in a commercial cleaning detergent. Recharge with SAE 30 oil. Allow unit to drain prior to placing back in service. The pleated- paper element is usually considered a disposable. The silencer chambers of the silenced models require no attention during servicing.

#### **CAUTION**

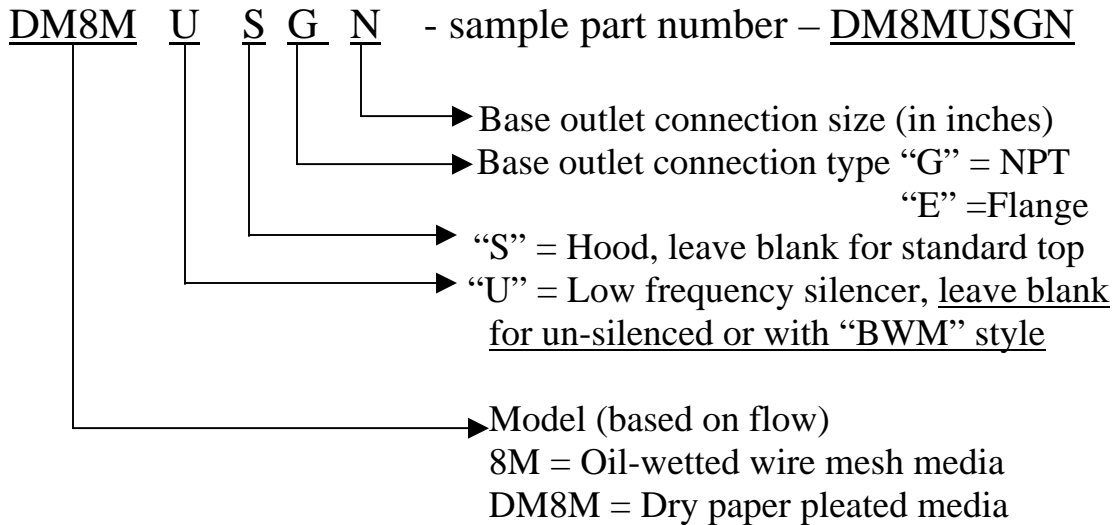
**DO NOT USE GASOLINE FOR AN ACCEPTABLE CLEANING FLUID!!!**

### **Sound decibel attenuation table**

#### **Given in decibel reduction for silenced model**

Frequency	150-300	300-600	600-1200	1200-2400	2400-4800	4800-9600
<b><u>MU</u></b>	<b>12</b>	<b>8</b>	<b>7</b>	<b>10</b>	<b>11</b>	<b>11</b>
<b><u>BWM</u></b>	<b>12</b>	<b>13</b>	<b>13</b>	<b>11</b>	<b>13</b>	<b>13</b>

## HOW TO CONSTRUCT PART NUMBER (COMPLETE UNIT)



**Note:**

For better sound attenuation in low and mid range frequencies place a “BWM” in front of the model number and remove the “M” after the number for the correct unit designation (sample BWM8SGN).

Model Number	Max. CFM	Base Size (inches)			Height Less Connection (inches)		Diameter (inches)		Approximate Shipping Weight (LBS)			
		Min Any	Max Flange	Max. MPT	Type M	Type BWM	W/O Hood	With Hood	Type M	Types MU & BWM	Add for Hood	Element only
8	400	3	3.5	6	8-3/8	17-1/8	8-5/8	10-5/8	20	35	10	6
10	700	4	5	8	10-3/8	21-1/8	10-5/8	14-5/8	25	50	15	9
12	1000	5	6	10	12-3/8	25-1/8	12-5/8	16-5/8	60	70	15	11
14	1350	6	8	12	14-3/8	29-1/8	14-5/8	18-5/8	70	85	25	17
18	2250	8	10	12	18-3/8	37-1/8	18-5/8	24-5/8	90	140	40	35
22	3250	10	14	12	22-3/8	45-1-8	22-5/8	32-5/8	135	200	50	42
225	4000	10	14	12	28-3/8	51-1/8	22-5/8	32-5/8	175	230	55	53
30	6000	12	22	12	30-3/8	61-1/8	30-5/8	42	255	375	75	77

**NOTE: FOR PAPER ELEMENT, ADD “DM” TO THE FRONT OF THE MODEL NUMBER TO ORDER ELEMENT ONLY ADD “-826” TO MODEL NUMBER**

### TYPES AND SIZES OF CONNECTIONS

Standard base sizes	3”	3-1/2”	4”	5”	6”	8”	10”	12”	14”	16”	18”	20”	22”
Connection size code for MPT	GN	GE	GS	GQ	GT	GV	GW	GX	-	-	-	-	-
Connection size code for flange	EN	EE	ES	EQ	ET	EV	EW	EX	EY	EO	EZ	EZZ	EXZ

Note: Units are furnished with studs to match an ANSI 125/150 lb standard pipe flange. Only ½ the number of studs are installed that are normally called out for size flange specified. Companion flanges are not furnished by Falls Filtration Tech.



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Falls Filtration Technologies reserves the right to change  
any model or specification at any time without notice