Check condensate drain pans for algae every three months. If algae growth is found, consult a water treatment specialist for proper chemical treatment.

VIBRATION LEVELS

Should excessive vibration develop, check the following possibilities: (1) Build-up of dirt or foreign matter on wheel; (2) Bolts on bearings, housings or driver loose; (3) V-belt drives improperly aligned, belts must have proper tension, sheaves must be balanced; (4) Check bearing locking collars for tightness; (5) Check wheel set screws; (6) Foreign matter entered fan causing damage to wheel, shaft or bearings. (7) Vibration may be coming from a source other than the fan. stop the fan and determine if the vibration still exists. Disconnect the driver motor from the fan and operate it or by itself to determine if it produces vibration.

FILTERS

INSERTING FILTERS

1-1-

 Check quanitity and size of filters. Refer to Table 5, 6, 7 and 8.

- 2. Check that the gasketing in the bag filter channel is in place.
- 3. Always load filters from bottom row to top.
- 4. On bag filters, leave paper banding in place until filters are installed; then remove. Install filters so that foam gasket on filter frame is perpendicular to filter rack.
- NOTE: On unit sizes 105, 120, 150, and 170 the bottom row of bag filters could be installed with the pleats horizontally.
- 5. Prefilters are to be installed on upstream side of bag filters. Airflow arrows must point downstream (in direction of airflow).

MAINTENANCE AND REPLACEMENT

Filters should be replaced when the pressure drop, measured by a manometer, reaches the prescribed limits for the installation.

TABLE 5 - FLAT FILTER SIZES AND QUANTITIES

									U	NIT SIZ	75							
		35	60	80	105	120	150	170	215		7	T	T			т—		
Area	a(sq.ft.)	4.0	6.0	8.0	11.1	13.3	16.7			250	305	360	400	500	580	660	800	100
Filter	12" x 24"		1			10.5	10.7	17.8	22.2	24.0	32.0	40.0	41.7	50.0	60.0	66.0	82.7	108.
	16" x 20"					6										3	3	100.
	16" x 25"				4		6	8										
Size	20" x 20"						- 0											
	24" x 20"								8				15					14
	24" x 24"	1	1	2								12		15			5	21
TEC.										6	. 8				15	15	15	

NOTES:

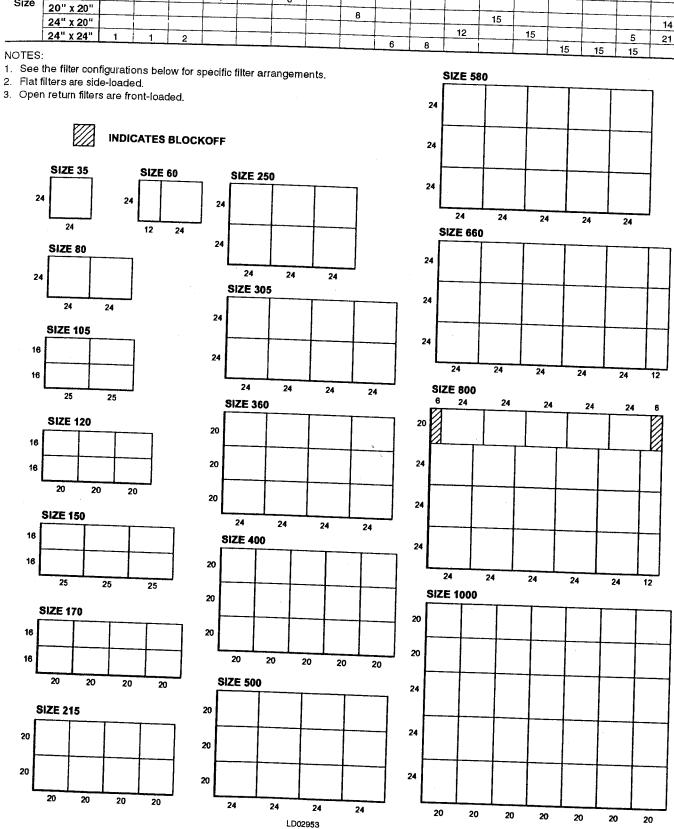


TABLE 6 - ANGLE FILTER SIZES AND QUANTITIES

									U	NIT SIZ	Έ							
		35	60	80	105	120	150	170	215	250	305	360	400	500	580	660	800	1000
Area	(sq. ft.)	4.4	8.9	11.1	15.6	16,7	21.1	22.2	29.2	35.6	42.2	50.0	55.6	66.7	80.0	88.0	133.3	140.0
	12" x 24"															4	100.0	1,10.0
-	16" x 20"	2	4		2		2			16	4					<u>'</u>		
Filter	16" x 25"								8		12							<u></u>
Size	20" x 20"			4	4	6	6	8				8		24	L		48	<u> </u>
	20" x 24"																	
	20" x 25"								2			8	16					42
	24" x 24"														20	20	 	

NOTES:

1. See the filter configurations below for specific filter arrangements.

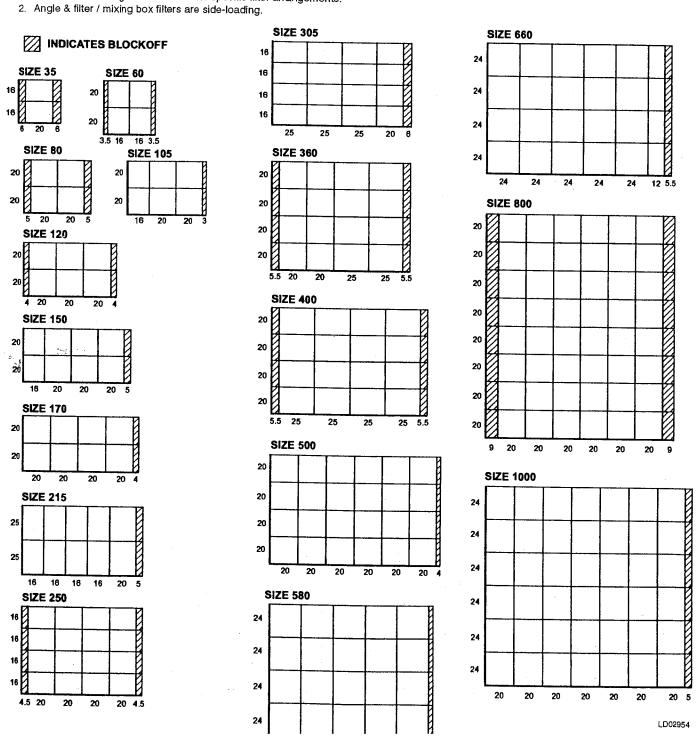
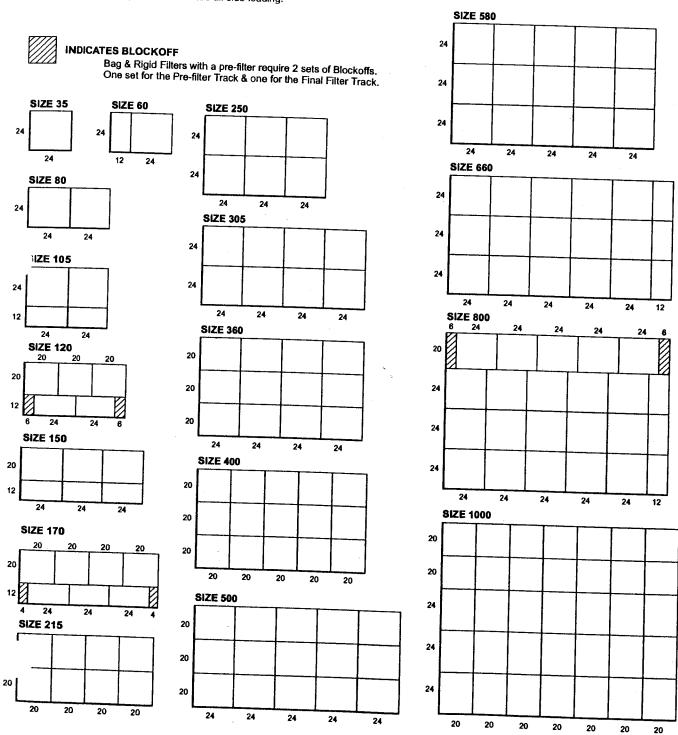


TABLE 7 - BAG FILTER / RIGID FILTER SIZES AND QUANTITIES

		<u> </u>	·		T			U	NIT SI	ZE								
		35	60	80	105	120	150	170	215	250	305	360	400	500	500			
Area (sq. ft.)		4.0	6.0	8.0	12.0	12.3	16.0	17.1	20.0						580	660	800	1000
	12" x 24"		1	 -	2				22.2	24.0	32.0	40.0	41.7	50.0	60.0	66.0	82.7	108.8
Filter	20" x 20"					2	3	3								3	3	l
Size	24" x 20"					3		4	8				15					14
	24" x 24"	1	1	2	2		3					12		15			5	21
		<u> </u>				1				6	8				15	15	15	_ _

- 1. Filter sizes are dimensioned width by height (W x H). Example: Filter size 12 x 24 = 12" wide by 24" high filter.
- 2. See the filter configurations below for specific filter arrangements.

3. Bag, rigid & pre-filter filters are all side-loading.



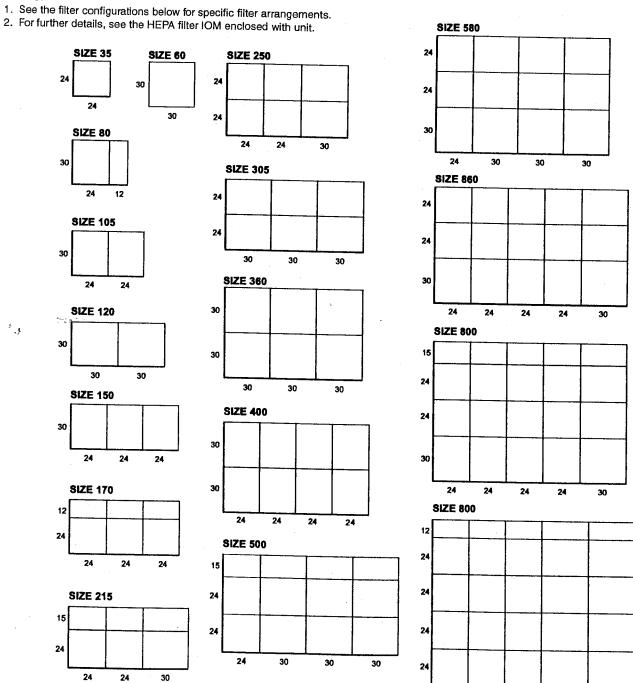
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TABLE 8 - HEPA FILTER SIZES AND QUANTITIES PER UNIT SIZE

									U	NIT SIZ	Œ							
		35	60	80	105	120	150	170	215	250	305	360	400	500	580	660	800	1000
Are	Area (sq. ft.)		6.2	7.5	10.0	12.5	15.0	18.0	21.1	26,0	30.0	37.5	40.0	49.8	61.7	68.2	81.3	
Max CFM	2,000	3,125	3,750	5,000	6,250	7,500	9,000	10,563	13,000	15,000				30,875			98.9	
	24" x 24"	1						3	2	4	,,,,,,,,,	10,7.00	20,000	2	2	8	40,888	
	24" x 12"							1										12
	12" x 24"							3									 	
Filter	15" x 24"					-			2					-				3
Size	15" x 30"		-						1				· · · · · · · · · · · · · · · · · · ·	3			4	
OILE	24" x 30"								1	2	6						1	ļ
	12" x 30"								<u> </u>					6	6	. 2	2	8
	30" x 24"			1	2		3										ļ	2
	30" x 30"		. 1			2							8			4	4	<u> </u>
	30" x 12"			1								6			3	1	1	

NOTES:

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TABLE 9 - CARBON FILTER SIZES AND QUANTITIES PER UNIT SIZE

•	ļ							U	NIT SIZ	'E							
	35	60	80	105	120	150	170	215	250		000						
AREA (sq.ft.)	16	24	32	40	50	60		 	 	305	360	400	500	580	660	800	1000
24" x 24"	1	1	0_	 			72	84	98	128	144	162	200	240	264	330	432
24" x 12"	+	4	8	10	10	15	18	18	21	32	36	36	50	60	60		
24 X12		4		}	5			6	7		-			- 00		75	108
NOTES: 1 See the fil	to=						<u> </u>				1	9			12	15	i —

ee the filter configurations below for specific filter arrangements.

2. Carbon filters are side loading.

