



Falls Filtration
Technologies, Inc

AUTOMAZE

FEATURES:

- ✓ **Pulse Type
Cleaning Action**
- ✓ **Self Contained
Compressed Air
or Electrical
Drive System**
- ✓ **Unitized or
Remote
Mounted
Control System**
- ✓ **Easy to
Maintain**
- ✓ **Proven Filter
Media**



GENERAL

The **AUTOMAZE** automatic air filter is designed to offer the best in impingement type air cleaning with a minimum of servicing. It combines a highly efficient double filter panel traveling curtain for the removal of air-borne particles and a unique self-cleaning method featuring "pulse-type" action for the washout of collected particles from the filter panels. The filtering media employed has had many years of field proven success in stationary panel applications. The automatic operation of the **AUTOMAZE** insures even greater effectiveness of this filter media.

PRINCIPLES OF OPERATION

The **AUTOMAZE** operates on the viscous impingement principle of air filtering, whereby air-borne particles are trapped on the adhesive coated filter panels.

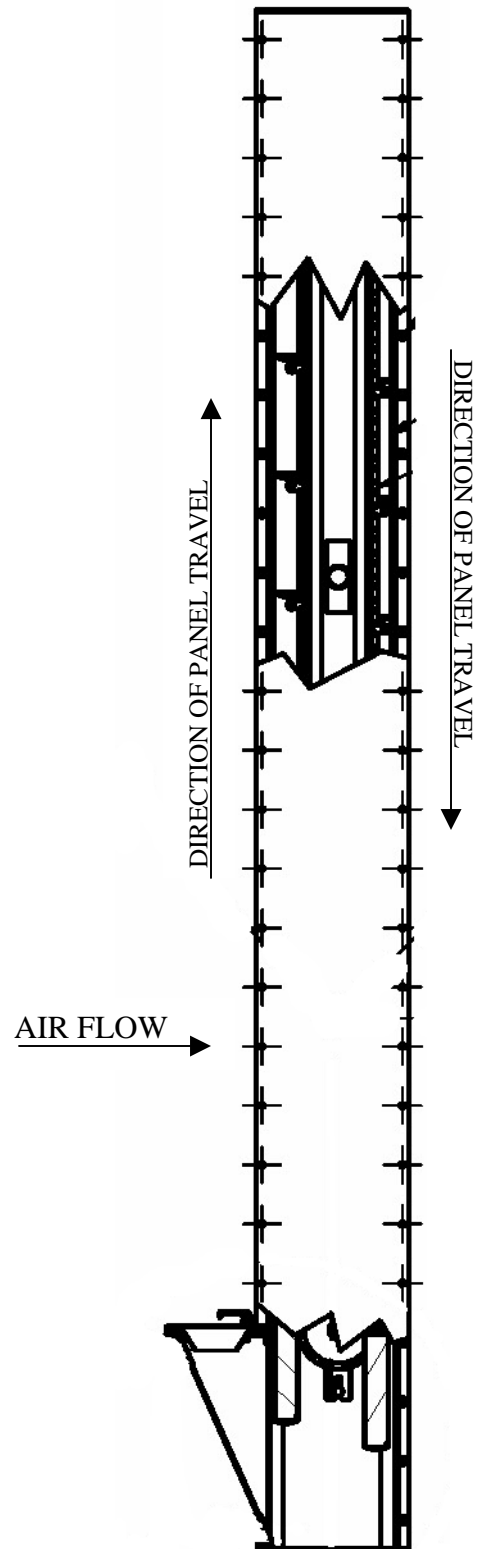
The media is formed into panels or cells that are suspended and carried on an endless roller chain to present a double filter barrier to the incoming air. The roller chain is mounted within the cabinet at the bottom of which is a tank containing a large supply of adhesive. The filter panels move up the front of the cabinet like a curtain, then over the top maintaining the vertical position like a Ferris wheel car. They then move down the back to be submerged, agitated, and cleaned in the adhesive bath prior to traveling back up the front again. Although the filter panel travel first vertically up and then down across the path of incoming air, they always present the same face to the moving air stream.

The movement of the endless chain is accomplished by an air or electric operated chain drive system controlled by an automatic time-cycle controller.

"PULSE TYPE" SELF CLEANING ACTION

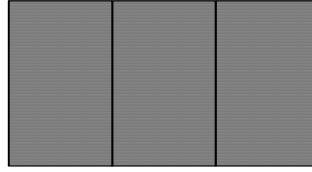
The intermittent forceful "pulse-action" of the drive system moving the filter panels provides a unique and positive filter cleaning action of the **AUTOMAZE**. As the roller chain carries the panels through the adhesive the filter panel swings back and forth many times forcing clean adhesive through the filter media in both directions, washing out collected dirt particles and allowing them to settle to the bottom of the tank.

This action not only thoroughly cleans the filter panels but also completely renews the coating on the panels, thus maintaining optimum filtering efficiency at all times



CUTAWAY SIDE VIEW OF AUTOMAZE


**UNIT 3-9
THRU 3-33**

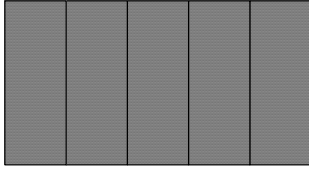
**UNIT 6-18
THRU 10-66**

**UNIT 11-27
THRU 15-99**

**UNIT 16-36
THRU 20-132**

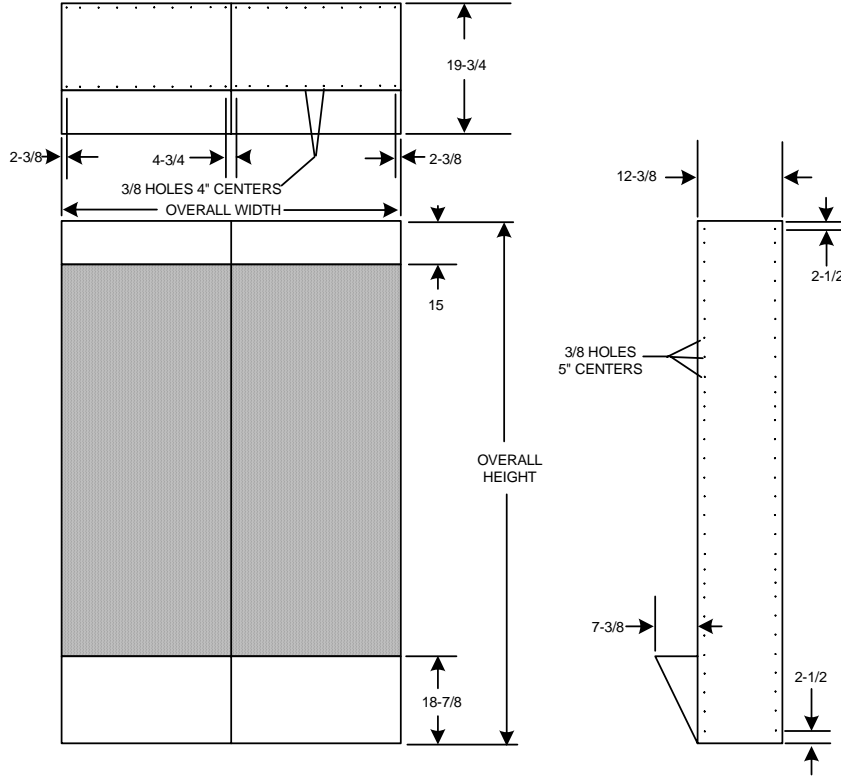
AUTOMAZE CAPACITY TABLES

OVERALL HEIGHT (INCHES)	OVERALL WIDTH															
	36-3/4"		48-3/4"		60-3/4"		73-3/4"		85-3/4"		97-3/4"		109-3/4"		121-3/4"	
	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM
60	3-9	3100	4-9	4180	5-9	5260	6-18	6200	7-18	7280	8-18	8360	9-18	9440	10-18	10520
65	3-10	3680	4-10	4970	5-10	6260	6-20	7360	7-20	8650	8-20	9940	9-20	11230	10-20	12520
70	3-11	4260	4-11	5760	5-11	7260	6-22	8520	7-22	10020	8-22	11520	9-22	13020	10-22	14520
75	3-12	4840	4-12	6550	5-12	8260	6-24	9680	7-24	11390	8-24	13100	9-24	14810	10-24	16520
80	3-13	5420	4-13	7340	5-13	9260	6-26	10840	7-26	12760	8-26	14680	9-26	16600	10-26	18520
85	3-14	6000	4-14	8130	5-14	10260	6-28	12000	7-28	14130	8-28	16260	9-28	18390	10-28	20520
90	3-15	6580	4-15	8920	5-15	11260	6-30	13160	7-30	15500	8-30	17840	9-30	20180	10-30	22520
95	3-16	7160	4-16	9710	5-16	12260	6-32	14320	7-32	16870	8-32	19420	9-32	21970	10-32	24520
100	3-17	7740	4-17	10500	5-17	13260	6-34	15480	7-34	18240	8-34	21000	9-34	23760	10-34	26520
105	3-18	8320	4-18	11290	5-18	14260	6-36	16640	7-36	19610	8-36	22580	9-36	25550	10-36	28520
110	3-19	8900	4-19	12080	5-19	15260	6-38	17800	7-38	20980	8-38	24160	9-38	27340	10-38	30520
115	3-20	9480	4-20	12870	5-20	16260	6-40	18960	7-40	22350	8-40	25740	9-40	29130	10-40	32520
120	3-21	10060	4-21	13660	5-21	17260	6-42	20120	7-42	23720	8-42	27320	9-42	30920	10-42	34520
125	3-22	10640	4-22	14450	5-22	18260	6-44	21280	7-44	25090	8-44	28900	9-44	32710	10-44	36520
130	3-23	11220	4-23	15240	5-23	19260	6-46	22440	7-46	26460	8-46	30480	9-46	34500	10-46	38520
135	3-24	11800	4-24	16030	5-24	20260	6-48	23600	7-48	27830	8-48	32060	9-48	36290	10-48	40520
140	3-25	12380	4-25	16820	5-25	21260	6-50	24760	7-50	29200	8-50	33640	9-50	38080	10-50	42520
145	3-26	12960	4-26	17610	5-26	22260	6-52	25920	7-52	30570	8-52	35220	9-52	39870	10-52	44520
150	3-27	13540	4-27	18400	5-27	23260	6-54	27080	7-54	31940	8-54	36800	9-54	41660	10-54	46520
155	3-28	14120	4-28	19190	5-28	24260	6-56	28240	7-56	33310	8-56	38380	9-56	43450	10-56	48520
160	3-29	14700	4-29	19980	5-29	25260	6-58	29400	7-58	34680	8-58	39960	9-58	45240	10-58	50520
165	3-30	15280	4-30	20770	5-30	26260	6-60	30560	7-60	36050	8-60	41540	9-60	47030	10-60	52520
170	3-31	15860	4-31	21560	5-31	27260	6-62	31720	7-62	37420	8-62	43120	9-62	48820	10-62	54520
175	3-32	16440	4-32	22350	5-32	28260	6-64	32880	7-64	38790	8-64	44700	9-64	50610	10-64	56520
180	3-33	17020	4-33	23140	5-33	29260	6-66	34040	7-66	40160	8-66	46280	9-66	52400	10-66	58520

OVERALL HEIGHT (INCHES)	OVERALL WIDTH															
	134-3/4"		146-3/4"		158-3/4"		170-3/4"		183"		195"		207"		219"	
	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM
60	11-27	11460	12-27	12540	13-27	13620	14-27	14700	15-27	15780	16-36	16720	17-36	17800	18-36	18880
65	11-30	13120	12-30	14910	13-30	16200	14-30	17490	15-30	18780	16-40	18880	17-40	21170	18-40	22460
70	11-33	15780	12-33	17280	13-33	18780	14-33	20280	15-33	21780	16-44	23040	17-44	24540	18-44	26040
75	11-36	17940	12-36	19650	13-36	21360	14-36	23070	15-36	24780	16-48	26200	17-48	27910	18-48	29620
80	11-39	20100	12-39	22020	13-39	23940	14-39	25860	15-39	27780	16-52	29360	17-52	31280	18-52	33200
85	11-42	22260	12-42	24390	13-42	26520	14-42	28650	15-42	30780	16-56	32520	17-56	34650	18-56	36780
90	11-45	24420	12-45	26760	13-45	29100	14-45	31440	15-45	33780	16-60	35680	17-60	38020	18-60	40360
95	11-48	26580	12-48	29130	13-48	31680	14-48	34230	15-48	36780	16-64	38840	17-64	41390	18-64	43940
100	11-51	28740	12-51	31500	13-51	34260	14-51	37020	15-51	39780	16-68	42000	17-68	44760	18-68	47520
105	11-54	30900	12-54	33870	13-54	36840	14-54	39810	15-54	42780	16-72	45160	17-72	48130	18-72	51100
110	11-57	33060	12-57	36240	13-57	39420	14-57	42600	15-57	45780	16-76	48320	17-76	51500	18-76	54680
115	11-60	35220	12-60	38610	13-60	42000	14-60	45390	15-60	48780	16-80	51480	17-80	54870	18-80	58260
120	11-63	37380	12-63	40980	13-63	44580	14-63	48180	15-63	51780	16-84	54640	17-84	58240	18-84	61840
125	11-66	39540	12-66	43350	13-66	47160	14-66	50970	15-66	54780	16-88	57800	17-88	61610	18-88	65420
130	11-69	41700	12-69	45720	13-69	49740	14-69	53760	15-69	57780	16-92	60960	17-92	64980	18-92	69000
135	11-72	43860	12-72	48090	13-72	52320	14-72	56550	15-72	60780	16-96	64120	17-96	68350	18-96	72580
140	11-75	46020	12-75	50460	13-75	54900	14-75	59340	15-75	63780	16-100	67280	17-100	71720	18-100	76160
145	11-78	48180	12-78	52830	13-78	57480	14-78	62130	15-78	66780	16-104	70440	17-104	75090	18-104	79740
150	11-81	50340	12-81	55200	13-81	60060	14-81	64920	15-81	69780	16-108	73600	17-108	78460	18-108	83320
155	11-84	52500	12-84	57570	13-84	62640	14-84	67710	15-84	72780	16-112	76760	17-112	81830	18-112	86900
160	11-87	54660	12-87	59940	13-87	65220	14-87	70500	15-87	75780	16-116	79920	17-116	85200	18-116	90480
165	11-90	56820	12-90	62310	13-90	67800	14-90	73290	15-90	78780	16-120	83080	17-120	88570	18-120	94060
170	11-93	58980	12-93	64680	13-93	70380	14-93	76080	15-93	81780	16-124	86240	17-124	91940	18-124	97640
175	11-96	61140	12-96	67050	13-96	72960	14-96	78870	15-96	84780	16-128	89400	17-128	95310	18-128	101220
180	11-99	63300	12-99	69420	13-99	75540	14-99	81660	15-99	87780	16-132	92560	17-132	98680	18-132	104800



UNIT 21-45
THRU 25-165



---NOTE---

Capacities listed in these tables are based on normal rated air velocities of 505 FPM through the AUTOMAZE filter panel
To designate the size filter desired simply state the *unit number*; e.g., Unit 17-96 is 207" wide by 135 " tall with a capacity of 68,350 CFM

OVERALL HEIGHT (INCHES)	OVERALL WIDTH													
	231		243		255-3/4		267-3/4		279-3/4		291-3/4		303-3/4	
	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM	Unit No.	CFM
60	19-36	19960	20-36	21040	21-45	21980	22-45	23060	23-45	24140	24-45	25220	25-45	26300
65	19-40	23750	20-40	25040	21-50	26140	22-50	27430	23-50	28720	24-50	30010	25-50	31300
70	19-44	27540	20-44	29040	21-55	30300	22-55	31800	23-55	33300	24-55	34800	25-55	36300
75	19-48	31330	20-48	33040	21-60	34460	22-60	36170	23-60	37880	24-60	39590	25-60	41300
80	19-52	35120	20-52	37040	21-65	38620	22-65	40540	23-65	42460	24-65	44380	25-65	46300
85	19-56	38910	20-56	41040	21-70	42780	22-70	44910	23-70	47040	24-70	49170	25-70	51300
90	19-60	42700	20-60	45040	21-75	46940	22-75	49280	23-75	51620	24-75	53960	25-75	56300
95	19-64	46490	20-64	49040	21-80	51100	22-80	53650	23-80	56200	24-80	58750	25-80	61300
100	19-68	50280	20-68	53040	21-85	55260	22-85	58020	23-85	60780	24-85	63540	25-85	66300
105	19-72	54070	20-72	57040	21-90	59420	22-90	62390	23-90	65360	24-90	68330	25-90	71300
110	19-76	57860	20-76	61040	21-95	63580	22-95	66760	23-95	69940	24-95	73120	25-95	76300
115	19-80	61650	20-80	65040	21-100	67740	22-100	71130	23-100	74520	24-100	77910	25-100	81300
120	19-84	65440	20-84	69040	21-105	71900	22-105	75500	23-105	79100	24-105	82700	25-105	86300
125	19-88	69230	20-88	73040	21-110	76060	22-110	79870	23-110	83680	24-110	87490	25-110	91300
130	19-92	73020	20-92	77040	21-115	80220	22-115	84240	23-115	88260	24-115	92280	25-115	96300
135	19-96	76810	20-96	81040	21-120	84380	22-120	88610	23-120	92840	24-120	97070	25-120	101300
140	19-100	80600	20-100	85040	21-125	88540	22-125	92980	23-125	97420	24-125	101860	25-125	106300
145	19-104	84390	20-104	89040	21-130	92700	22-130	97350	23-130	102000	24-130	106650	25-130	111300
150	19-108	88180	20-108	93040	21-135	96860	22-135	101720	23-135	106580	24-135	111440	25-135	116300
155	19-112	91970	20-112	97040	21-140	101020	22-140	106090	23-140	111160	24-140	116230	25-140	121300
160	19-116	95760	20-116	101040	21-145	105180	22-145	110460	23-145	115740	24-145	121020	25-145	126300
165	19-120	99550	20-120	105040	21-150	109340	22-150	114830	23-150	120320	24-150	125810	25-150	131300
170	19-124	102440	20-124	109040	21-155	113500	22-155	119200	23-155	124900	24-155	130600	25-155	136300
175	19-128	106130	20-128	113040	21-160	117660	22-160	123570	23-160	129480	24-160	135390	25-160	141300
180	19-132	108920	20-132	117040	21-165	121820	22-165	127940	23-165	134060	24-165	140180	25-165	146300



Optional Equipment

AIR LINE FILTER

Recommended for all Automaze Installations



COMPRESSOR UNIT

For areas where Installation does not have a compressed air source



OIL CLEAN UP FILTER

For reduced tank maintenance frequency



OIL TANK HEATERS

For Cold Operation of Automaze



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