

Grille Size / Designation	Rough Opening (inches)	Pt	0.036	0.055	0.080	0.105	0.143	0.180	0.220	0.335	0.420
SV3-A1	6.4 x 5.4	CFM	22	28	34	39	45	50	56	70	78
		NC	<15	<15	<15	<15	<15	<15	18	21	26
SV3-B2	8.4 x 7.4	CFM	48	60	72	84	96	108	120	150	168
		NC	<15	<15	<15	<15	18	19	25	28	33
SV3-C3	10.4 x 9.4	CFM	82	102	122	143	163	184	204	255	286
		NC	<15	<15	<15	<15	18	23	29	35	38
SV3-D4	12.4 x 11.4	CFM	126	157	188	220	251	283	314	393	440
		NC	<15	<15	<15	17	20	26	32	40	43
SV3-E5	14.4 x 13.4	CFM	179	224	269	314	358	403	448	560	627
		NC	<15	<15	18	19	21	27	33	41	44
SV3-F6	16.4 x 15.4	CFM	239	299	359	419	478	538	598	748	837
		NC	<15	17	20	21	23	29	35	43	46
SV3-G7	18.4 x 17.4	CFM	311	389	467	545	622	700	778	973	1089
		NC	<15	17	21	22	24	30	36	44	47
SV3-H8	20.4 x 19.4	CFM	391	489	587	685	782	880	978	1223	1369
		NC	<17	18	23	24	26	31	37	45	47
SV3-J9	22.4 x 21.4	CFM	480	600	720	840	960	1080	1200	1500	1680
		NC	<18	19	24	25	26	31	37	46	48

Throw Characteristics Note: When utilized as a supply air grille, no air velocity exceeding 50fpm shall extend beyond a plane of one foot from the grille and parallel to its face.

Please Note: Additional sizes available with complete performance data upon request.

TEST STANDARD

- ANSI / ASHRAE Standard 70
- Isothermal air used during testing.

SOUND LEVELS

- NC shown is the noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10⁻¹² watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands.
- When an opposed blade damper is used, add nc adjustment as shown on page E-5

PRESSURE

- P_t represents Total Pressure, inches of water, measured in the supply duct.
- Static pressure may be calculated by subtracting the Velocity pressure from the Total Pressure: P_s = P_t - P_v

RETURN USE

- Adjust the above supply data by adding +1 NC and use P_t as listed.

SIZING CHART

*GRILLE OPENING / DESIGNATION
ROUGH OPENING SIZES (WIDTH X HEIGHT)

Dimensions in Inches		WIDTH									
		6.4	8.4	10.4	12.4	14.4	16.4	18.4	20.4	22.4	
HEIGHT	5.4	A1	B1	C1	D1	E1	F1	G1	H1	J1	
	7.4	A2	B2	C2	D2	E2	F2	G2	H2	J2	
	9.4	A3	B3	C3	D3	E3	F3	G3	H3	J3	
	11.4	A4	B4	C4	D4	E4	F4	G4	H4	J4	
	13.4	A5	B5	C5	D5	E5	F5	G5	H5	J5	
	15.4	A6	B6	C6	D6	E6	F6	G6	H6	J6	
	17.4	A7	B7	C7	D7	E7	F7	G7	H7	J7	
	19.4	A8	B8	C8	D8	E8	F8	G8	H8	J8	
	21.4	A9	B9	C9	D9	E9	F9	G9	H9	J9	

*Width x Height dimensions are based on rear mounted duct collar. For other installation types (consult factory).

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AIR FLOW PERFORMANCE DATA

SV3

Grille Designation & Type	Rough Opening (inches)	Performance Data									
		(Pt)	.036	.055	.080	.105	.143	.180	.220	.335	.420
SV3-A1	6.3 x 5.4	CFM	22	28	34	39	45	50	56	70	78
		NC	<15	<15	<15	<15	<15	<15	<15	18	21
SV3-B1	8.3 x 5.4	CFM	33	41	49	57	66	74	82	103	115
SV3-A2	6.3 x 7.4	NC	<15	<15	<15	<15	<15	15	21	24	29
SV3- C1	10.3 x 5.4	CFM	42	53	64	74	85	95	106	133	148
SV3-A3	6.3 x 9.4	NC	<15	<15	<15	<15	<15	17	23	26	31
SV3-B2	8.3 x 7.4	CFM	48	60	72	84	96	108	120	150	168
		NC	<15	<15	<15	<15	<15	19	25	28	33
SV3-D1	12.3 x 5.4	CFM	54	67	80	94	107	121	134	168	188
SV3-A4	6.3 x 11.4	NC	<15	<15	<15	<15	15	21	27	31	36
SV3-C2	10.3 x 7.4	CFM	62	78	94	109	125	140	156	195	218
SV3-B3	8.3 x 9.4	NC	<15	<15	<15	<15	17	23	29	33	37
SV3-E1	14.3 x 5.4	CFM	64	80	96	112	128	144	160	200	224
SV3-A5	6.3 x 13.4	NC	<15	<15	<15	<15	17	23	29	35	38
SV3-F1	16.3 x 5.4	CFM	73	91	109	127	146	164	182	228	255
		NC	<15	<15	<15	<15	17	23	29	35	38
SV3-A6	6.3 x 15.4	CFM	74	92	110	129	147	166	184	230	258
		NC	<15	<15	<15	<15	18	23	29	35	38
SV3-D2	12.3 x 7.4	CFM	78	97	116	136	155	175	194	243	272
SV3-B4	8.3 x 11.4	NC	<15	<15	<15	<15	18	23	29	35	38
SV3-C3	10.3 x 9.4	CFM	82	102	122	143	163	184	204	255	286
		NC	<15	<15	<15	<15	18	23	29	35	38
SV3-G1	18.3 x 5.4	CFM	84	105	126	147	168	189	210	263	294
		NC	<15	<15	<15	15	18	24	30	36	39
SV3-A7	6.3 x 17.4	CFM	86	107	128	150	171	193	214	268	300
		NC	<15	<15	<15	15	18	24	30	36	39
SV3-E2	14.3 x 9.4	CFM	93	116	139	162	186	209	232	290	325
SV3-B5	8.3 x 13.4	NC	<15	<15	<15	16	19	24	30	36	39
SV3-H1	20.3 x 5.4	CFM	94	118	142	165	189	212	236	295	330
		NC	<15	<15	<15	16	19	24	30	36	39
SV3-A8	6.3 x 19.4	CFM	95	119	143	167	190	214	238	298	333
		NC	<15	<15	<15	16	19	24	30	37	40
SV3-D3	12.3 x 9.4	CFM	102	127	152	178	203	229	254	318	356
SV3-C4	10.3 x 11.4	NC	<15	<15	<15	16	19	24	31	37	40

* Grille designations in bold type are standard sizes

Throw Characteristics Note: When utilized as a supply air grille, no air velocity exceeding 50fpm shall extend beyond a plane of one foot from the grille and parallel to its face.

NOTES

- CFM Cubic feet per minute
- Pt Total pressure, inches of water
- NC. Noise criteria with sound pressure levels based on 10dB room absorption, re: 10-12 watts...indicate NC value < 20
- OBD When an opposed blade damper is used, add nc adjustment as shown on page 12
- RETURN USE Adjust the above supply data by adding +1 NC and use Pt as listed.

TEST DATA - in accordance with ANSI / ASHRAE 70-1991 standard, "Method of Testing for Rating of Performance Air Outlets and Inlets".

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AIR FLOW PERFORMANCE DATA

SV3

Grille Designation & Type	Rough Opening (inches)	Performance Data									
		(Pt)	.036	.055	.080	.105	.143	.180	.220	.335	.420
SV3-J1	22.3 x 5.4	CFM	104	130	156	182	208	234	260	325	364
		NC	<15	<15	<15	16	19	25	31	37	40
SV3-A9	6.3 x 21.4	CFM	106	132	158	185	211	238	264	330	370
		NC	<15	<15	<15	16	19	25	31	38	41
SV3-F2	16.3 x 7.4	CFM	106	133	160	186	213	239	266	333	372
SV3-B6	8.3 x 15.4	NC	<15	<15	<15	17	20	25	31	38	41
SV3-E3	14.3 x 9.4	CFM	120	150	180	210	240	270	300	375	420
SV3-C5	10.3 x 13.4	NC	<15	<15	<15	17	20	25	31	39	42
SV3-G2	18.3 x 7.4	CFM	122	152	182	213	243	274	304	380	426
SV3-B7	8.3 x 17.4	NC	<15	<15	15	17	20	25	31	39	42
SV3-D4	12.3 x 11.4	CFM	126	157	188	220	251	283	314	393	440
		NC	<15	<15	15	17	20	26	32	40	43
SV3-H2	20.3 x 7.4	CFM	137	171	205	239	274	308	342	428	479
SV3-B8	8.3 x 19.4	NC	<15	<15	15	17	20	26	32	40	43
SV3-F3	16.3 x 9.4	CFM	141	176	211	246	282	317	352	440	493
SV3-C6	10.3 x 15.4	NC	<15	<15	15	17	20	26	32	40	43
SV3-E4	14.3 x 11.4	CFM	150	187	224	262	299	337	374	468	524
SV3-D5	12.3 x 13.4	NC	<15	<15	15	17	21	26	32	40	43
SV3-J2	22.3 x 7.4	CFM	152	190	228	266	304	342	380	475	532
SV3-B9	8.3 x 21.4	NC	<15	<15	17	18	21	27	33	41	44
SV3-G3	18.3 x 9.4	CFM	159	199	239	279	318	358	398	498	557
SV3-C7	10.3 x 17.4	NC	<15	<15	18	19	21	27	33	41	44
SV3-F4	16.3 x 11.4	CFM	173	216	259	302	346	389	432	540	605
SV3-D6	12.3 x 15.4	NC	<15	<15	18	19	21	27	33	41	44
SV3-E5	14.3 x 13.4	CFM	179	224	269	314	358	403	448	560	627
		NC	<15	15	18	19	21	27	33	41	44
SV3-H3	20.3 x 9.4	CFM	179	224	269	314	358	403	448	560	627
SV3-C8	10.3 x 19.4	NC	<15	15	18	19	21	27	33	41	44
SV3-J3	22.3 x 19.4	CFM	198	248	298	347	397	446	496	620	694
SV3-D7	12.3 x 17.4	NC	<15	16	19	20	22	28	34	42	45
SV3-G4	18.3 x 11.4	CFM	198	248	298	347	397	446	496	620	694
SV3-C9	10.3 x 21.4	NC	<15	16	19	20	22	28	34	42	45
SV3-F5	16.3 x 13.4	CFM	207	259	311	363	414	466	518	648	725
SV3-E6	14.3 x 15.4	NC	<15	16	19	20	22	28	34	42	45

* Grille designations in bold type are standard sizes

Throw Characteristics Note: When utilized as a supply air grille, no air velocity exceeding 50fpm shall extend beyond a plane of one foot from the grille and parallel to its face.

NOTES

- CFM Cubic feet per minute
- Pt Total pressure, inches of water
- NC. Noise criteria with sound pressure levels based on 10dB room absorption, re: 10-12 watts...indicate NC value < 20
- OBD When an opposed blade damper is used, add nc adjustment as shown on page 12
- RETURN USE Adjust the above supply data by adding +1 NC and use Pt as listed.

TEST DATA - in accordance with ANSI / ASHRAE 70-1991 standard, "Method of Testing for Rating of Performance Air Outlets and Inlets".

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AIR FLOW PERFORMANCE DATA

SV3

Grille Designation & Type	Rough Opening (inches)	Performance Data									
		(Pt)	.036	.055	.080	.105	.143	.180	.220	.335	.420
SV3-H4	20.3 x 11.4	CFM	222	277	332	388	443	499	554	693	776
SV3-D8	12.3 x 19.4	NC	<15	16	19	20	22	28	34	42	45
SV3-G5	18.3 x 13.4	CFM	236	295	354	413	472	531	590	738	826
SV3-E7	14.3 x 17.4	NC	<15	16	19	20	22	28	34	42	45
SV3-F6	16.3 x 15.4	CFM	239	299	359	419	478	538	598	748	837
		NC	<15	17	20	21	23	29	35	43	46
SV3-J4	22.3 x 9.4	CFM	246	307	368	430	491	553	614	768	860
SV3-D9	12.3 x 21.4	NC	<15	17	20	21	23	29	35	43	46
SV3-H5	20.3 x 13.4	CFM	263	329	395	461	526	592	658	823	921
SV3-E8	14.3 x 19.4	NC	<15	17	20	21	23	29	35	43	46
SV3-G6	18.3 x 15.4	CFM	274	342	410	479	547	616	684	855	958
SV3-F7	16.3 x 17.4	NC	<15	17	20	21	23	29	35	44	47
SV3-J5	22.3 x 13.4	CFM	292	365	438	511	584	657	730	913	1022
SV3-E9	14.3 x 21.4	NC	15	17	20	22	24	29	35	44	47
SV3-H6	20.3 x 15.4	CFM	306	383	460	536	613	689	766	958	1072
SV3-F8	16.3 x 19.4	NC	15	17	20	22	24	30	36	44	47
SV3-G7	18.3 x 17.4	CFM	311	389	467	545	622	700	778	973	1089
		NC	15	17	21	22	24	30	36	44	47
SV3-J6	22.3 x 15.4	CFM	340	425	510	595	680	765	850	1063	1190
SV3-F9	16.3 x 21.4	NC	15	17	22	23	25	30	36	45	47
SV3-H7	20.3 x 17.4	CFM	350	437	524	612	699	787	874	1093	1224
SV3-G8	18.3 x 19.4	NC	15	17	23	24	25	30	36	45	47
SV3-J7	22.3 x 17.4	CFM	386	483	580	676	773	869	966	1208	1352
SV3-G9	18.3 x 21.4	NC	17	18	23	24	25	31	37	45	47
SV3-H8	20.3 x 19.4	CFM	391	489	587	685	782	880	978	1223	1369
		NC	17	18	23	24	26	31	37	45	47
SV3-J8	22.3 x 19.4	CFM	434	542	650	759	867	976	1084	1355	1518
SV3-H9	20.3 x 21.4	NC	17	18	23	25	26	31	37	46	48
SV3-J9	22.3 x 21.4	CFM	480	600	720	840	960	1080	1200	1500	1680
		NC	18	19	24	25	26	31	37	46	48

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Throw Characteristics Note: When utilized as a supply air grille, no air velocity exceeding 50fpm shall extend beyond a plane of one foot from the grille and parallel to its face.

NOTES

- CFM Cubic feet per minute
- Pt Total pressure, inches of water
- NC. Noise criteria with sound pressure levels based on 10dB room absorption, re: 10-12 watts...indicate NC value < 20
- OBD When an opposed blade damper is used, add nc adjustment as shown on page 12
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