

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
SV2-A1	6.4 x 5.4	CFM	15	18	22	25	29	32	36	45	50
		NC	<15	<15	<15	<15	<15	<15	<15	15	18
SV2-B2	8.4 x 7.4	CFM	30	38	46	53	61	68	76	95	107
		NC	<15	<15	<15	<15	<15	<15	16	22	25
SV2-C3	10.4 x 9.4	CFM	52	65	78	91	104	117	130	163	182
		NC	<15	<15	<15	<15	15	20	26	32	35
SV2-D4	12.4 x 11.4	CFM	80	100	120	140	160	180	200	250	280
		NC	<15	<15	<15	<15	17	23	29	37	40
SV2-E5	14.4 x 13.4	CFM	114	143	172	200	229	257	286	358	400
		NC	<15	<15	<15	16	18	24	30	38	42
SV2-F6	16.4 x 15.4	CFM	153	191	229	267	306	344	382	478	535
		NC	<15	<15	17	18	20	26	32	40	43
SV2-G7	18.4 x 17.4	CFM	198	248	298	347	397	446	496	620	694
		NC	<15	<15	18	19	21	27	33	41	44
SV2-H8	20.4 x 19.4	CFM	250	312	374	437	499	562	624	780	874
		NC	<15	<15	20	21	23	28	34	42	44
SV2-J9	22.4 x 21.4	CFM	306	383	460	536	613	689	766	958	1072
		NC	<15	16	21	22	23	28	34	43	45

**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<sup>-12</sup> 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<sub>t</sub> 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<sub>s</sub> = P<sub>t</sub> - P<sub>v</sub>

**RETURN USE**

- Adjust the above supply data by adding +1 NC and use P<sub>t</sub> 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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(310) 835-7500 • FAX (310) 835-0448

e-mail: airsec@anemostat.com • website: www.anemostat.com

# AIR FLOW PERFORMANCE DATA

## SV2

Grille Designation & Type	Rough Opening (inches)	Performance Data									
		(Pt)	.036	.055	.080	.105	.143	.180	.220	.335	.420
SV2-A1	6.3 x 5.4	CFM	15	18	22	25	29	32	36	45	50
		NC	<15	<15	<15	<15	<15	<15	15	18	23
SV2-B1	8.3 x 5.4	CFM	21	26	31	36	42	47	52	65	73
SV2-A2	6.3 x 7.4	NC	<15	<15	<15	<15	<15	<15	18	21	26
SV2-C1	10.3 x 5.4	CFM	27	34	41	48	54	61	68	85	95
SV2-A3	6.3 x 9.4	NC	<15	<15	<15	<15	<15	<15	20	23	28
<b>SV2-B2</b>	<b>8.3 x 7.4</b>	<b>CFM</b>	<b>30</b>	<b>38</b>	<b>46</b>	<b>53</b>	<b>61</b>	<b>68</b>	<b>76</b>	<b>95</b>	<b>107</b>
		<b>NC</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>16</b>	<b>22</b>	<b>25</b>	<b>30</b>
SV2-D1	12.3 x 5.4	CFM	34	43	52	60	69	77	86	108	121
SV2-A4	6.3 x 11.4	NC	<15	<15	<15	<15	<15	18	24	28	33
SV2-C2	10.3 x 7.4	CFM	40	50	60	70	80	90	100	125	149
SV2-B3	8.3 x 9.4	NC	<15	<15	<15	<15	<15	20	26	30	35
SV2-E1	14.3 x 5.4	CFM	41	51	61	71	82	92	102	128	143
SV2-A5	6.3 x 13.4	NC	<15	<15	<15	<15	<15	20	26	32	35
SV2-F1	16.3 x 5.4	CFM	46	58	70	81	93	104	116	145	163
		NC	<15	<15	<15	<15	<15	20	26	32	35
SV2-A6	6.3 x 15.4	CFM	47	59	71	83	94	106	118	148	165
		NC	<15	<15	<15	<15	15	20	26	32	35
SV2-D2	12.3 x 7.4	CFM	50	62	74	87	99	112	124	155	174
SV2-B4	8.3 x 11.4	NC	<15	<15	<15	<15	15	20	26	32	35
<b>SV2-C3</b>	<b>10.3 x 9.4</b>	<b>CFM</b>	<b>52</b>	<b>65</b>	<b>78</b>	<b>91</b>	<b>104</b>	<b>117</b>	<b>130</b>	<b>163</b>	<b>182</b>
		<b>NC</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>15</b>	<b>20</b>	<b>26</b>	<b>32</b>	<b>35</b>
SV2-G1	18.3 x 5.4	CFM	54	67	80	94	107	121	134	168	188
		NC	<15	<15	<15	<15	15	21	27	33	36
SV2-A7	6.3 x 17.4	CFM	54	68	82	95	109	122	136	170	190
		NC	<15	<15	<15	<15	15	21	27	33	36
SV2-E2	14.3 x 7.4	CFM	59	74	89	104	118	133	148	185	207
SV2-B5	8.3 x 13.4	NC	<15	<15	<15	<15	16	21	27	33	36
SV2-H1	20.3 x 5.4	CFM	60	75	90	105	120	135	150	188	210
		NC	<15	<15	<15	<15	16	21	27	33	36
SV2-A8	6.3 x 19.4	CFM	61	76	91	106	122	137	152	190	213
		NC	<15	<15	<15	<15	16	21	27	34	37
SV2-D3	12.3 x 9.4	CFM	65	81	97	113	130	146	162	203	227
SV2-C4	10.3 x 11.4	NC	<15	<15	<15	<15	16	21	28	34	37

\* 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

## SV2

Grille Designation & Type	Rough Opening (inches)	Performance Data									
		(Pt)	.036	.055	.080	.105	.143	.180	.220	.335	.420
SV2-J1	22.3 x 5.4	CFM	66	83	100	116	133	149	166	208	233
		NC	<15	<15	<15	<15	16	22	28	34	37
SV2-A9	6.3 x 21.4	CFM	67	84	101	118	134	151	168	210	235
		NC	<15	<15	<15	<15	16	22	28	35	38
SV2-F2	16.3 x 7.4	CFM	68	85	102	119	136	153	170	213	238
SV2-B6	8.3 x 15.4	NC	<15	<15	<15	<15	17	22	28	35	38
SV2-E3	14.3 x 9.4	CFM	77	96	115	134	154	173	192	240	269
SV2-C5	10.3 x 13.4	NC	<15	<15	<15	<15	17	22	28	36	39
SV2-G2	18.3 x 7.4	CFM	78	97	116	136	155	175	194	243	272
SV2-B7	8.3 x 17.4	NC	<15	<15	<15	<15	17	22	28	36	39
<b>SV2-D4</b>	<b>12.3 x 11.4</b>	<b>CFM</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>250</b>	<b>280</b>
		<b>NC</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>17</b>	<b>23</b>	<b>29</b>	<b>37</b>	<b>40</b>
SV2-H2	20.3 x 7.4	CFM	87	109	131	153	174	196	218	273	305
SV2-B8	8.3 x 19.4	NC	<15	<15	<15	<15	17	23	29	37	40
SV2-F3	16.3 x 9.4	CFM	90	112	134	157	179	202	224	280	314
SV2-C6	10.3 x 15.4	NC	<15	<15	<15	<15	17	23	29	37	40
SV2-E4	14.3 x 11.4	CFM	95	119	143	167	190	214	238	298	333
SV2-D5	12.3 x 13.4	NC	<15	<15	<15	<15	18	23	29	37	40
SV2-J2	22.3 x 7.4	CFM	97	121	145	169	194	218	242	303	339
SV2-B9	8.3 x 21.4	NC	<15	<15	<15	<15	18	24	30	38	41
SV2-G3	18.3 x 9.4	CFM	102	127	152	178	203	229	254	318	356
SV2-C7	10.3 x 17.4	NC	<15	<15	<15	16	18	24	30	38	41
SV2-F4	16.3 x 11.4	CFM	110	138	166	193	221	248	276	345	386
SV2-D6	12.3 x 15.4	NC	<15	<15	<15	16	18	24	30	38	41
<b>SV2-E5</b>	<b>14.3 x 13.4</b>	<b>CFM</b>	<b>114</b>	<b>143</b>	<b>172</b>	<b>200</b>	<b>229</b>	<b>257</b>	<b>286</b>	<b>358</b>	<b>400</b>
		<b>NC</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>16</b>	<b>18</b>	<b>24</b>	<b>30</b>	<b>38</b>	<b>42</b>
SV2-H3	20.3 x 9.4	CFM	114	143	172	200	229	257	286	358	400
SV2-C8	10.3 x 19.4	NC	<15	<15	<15	16	18	24	30	38	42
SV2-J3	22.3 x 9.4	CFM	126	158	190	221	253	284	316	395	442
SV2-D7	12.3 x 17.4	NC	<15	<15	<15	17	19	25	31	39	42
SV2-G4	18.3 x 11.4	CFM	126	158	190	221	253	284	316	395	442
SV2-C9	12.3 x 21.4	NC	<15	<15	<15	17	19	25	31	39	42
SV2-F5	16.3 x 13.4	CFM	132	165	198	231	264	297	330	413	462
SV2-E6	14.3 x 15.4	NC	<15	<15	16	17	19	25	31	39	42

\* 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

## SV2

Grille Designation & Type	Rough Opening (inches)	Performance Data									
		(Pt)	.036	.055	.080	.105	.143	.180	.220	.335	.420
SV2-H4	20.3 x 11.4	CFM	142	177	212	248	283	319	354	443	496
SV2-D8	12.3 x 19.4	NC	<15	<15	16	17	19	25	31	39	42
SV2-G5	18.3 x 13.4	CFM	150	188	226	263	301	338	376	470	526
SV2-E7	14.3 x 17.4	NC	<15	<15	16	17	19	25	31	39	42
<b>SV2-F6</b>	<b>16.3 x 15.4</b>	<b>CFM</b>	<b>153</b>	<b>191</b>	<b>229</b>	<b>267</b>	<b>306</b>	<b>344</b>	<b>382</b>	<b>478</b>	<b>535</b>
		<b>NC</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>17</b>	<b>18</b>	<b>20</b>	<b>26</b>	<b>32</b>	<b>40</b>	<b>43</b>
SV2-J4	22.3 x 11.4	CFM	157	196	235	274	314	353	392	490	549
SV2-D9	12.3 x 21.4	NC	<15	<15	17	18	20	26	32	40	43
SV2-H5	20.3 x 13.4	CFM	168	210	252	294	336	378	420	525	588
SV2-E8	14.3 x 19.4	NC	<15	<15	17	18	20	26	32	40	43
SV2-G6	18.3 x 15.4	CFM	174	218	262	305	349	392	436	545	610
SV2-F7	16.3 x 17.4	NC	<15	<15	17	18	20	26	32	41	44
SV2-J5	22.3 x 13.4	CFM	186	233	280	326	373	419	466	583	652
SV2-E9	14.3 x 21.4	NC	<15	<15	18	19	21	26	32	41	44
SV2-H6	20.3 x 15.4	CFM	195	244	293	342	390	439	488	610	683
SV2-F8	16.3 x 19.4	NC	<15	<15	18	19	21	27	33	41	44
<b>SV2-G7</b>	<b>18.3 x 17.4</b>	<b>CFM</b>	<b>198</b>	<b>248</b>	<b>298</b>	<b>347</b>	<b>397</b>	<b>446</b>	<b>496</b>	<b>620</b>	<b>694</b>
		<b>NC</b>	<b>&lt;15</b>	<b>&lt;15</b>	<b>18</b>	<b>19</b>	<b>21</b>	<b>27</b>	<b>33</b>	<b>41</b>	<b>44</b>
SV2-J6	22.3 x 15.4	CFM	217	271	325	379	434	488	542	678	759
SV2-F9	16.3 x 21.4	NC	<15	<15	19	20	22	27	33	42	44
SV2-H7	20.3 x 17.4	CFM	222	278	334	389	445	500	556	695	778
SV2-G8	18.3 x 19.4	NC	<15	<15	20	21	22	27	33	42	44
SV2-J7	22.3 x 17.4	CFM	246	308	370	431	493	554	616	770	862
SV2-G9	18.3 x 21.4	NC	<15	15	20	21	22	28	34	42	44
<b>SV2-H8</b>	<b>20.3 x 19.4</b>	<b>CFM</b>	<b>250</b>	<b>312</b>	<b>374</b>	<b>437</b>	<b>499</b>	<b>562</b>	<b>624</b>	<b>780</b>	<b>874</b>
		<b>NC</b>	<b>&lt;15</b>	<b>15</b>	<b>20</b>	<b>21</b>	<b>23</b>	<b>28</b>	<b>34</b>	<b>42</b>	<b>44</b>
SV2-J8	22.3 x 19.4	CFM	277	346	415	484	554	623	692	865	969
SV2-H9	20.3 x 21.4	NC	<15	15	20	22	23	28	34	43	45
<b>SV2-J9</b>	<b>22.3 x 21.4</b>	<b>CFM</b>	<b>306</b>	<b>383</b>	<b>460</b>	<b>536</b>	<b>613</b>	<b>689</b>	<b>766</b>	<b>958</b>	<b>1072</b>
		<b>NC</b>	<b>&lt;15</b>	<b>16</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>28</b>	<b>34</b>	<b>43</b>	<b>45</b>

\* 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".