

PERFORMANCE DATA

SDS with SDB Plenum – ½ in. Slot Width (SDS50)

1 Slot

Flow Rate (cfm)			60	80	100	120	140	160	180	200	220
36 in. (4 in. Inlet)	Throw (ft.)	H	4-9-13	8-10-14	9-10-15	10-12-18	11-13-19	-	-	-	-
		V	11	13	14	16	17	-	-	-	-
	Total Pressure (in. w.g.)		0.144	0.254	0.394	0.571	0.773	-	-	-	-
48 in. (5 in. Inlet)	Throw (ft.)	H	2-8-13	5-10-16	8-12-17	11-13-19	12-13-20	12-14-22	13-16-23	-	-
		V	11	13	14	17	18	19	20	-	-
	Total Pressure (in. w.g.)		0.088	0.161	0.248	0.358	0.482	0.628	0.796	-	-
60 in. (5 in. Inlet)	Throw (ft.)	H	3-9-13	3-9-14	5-10-17	9-13-18	12-13-21	12-14-22	13-14-22	13-16-23	14-17-25
		V	10	13	14	16	17	18	20	21	22
	Total Pressure (in. w.g.)		0.043	0.079	0.122	0.176	0.238	0.310	0.392	0.486	0.587
	Sound (NC)		-	-	-	25	29	33	37	40	43

2 Slot

Flow Rate (cfm)			100	130	160	190	220	250	280	310	340
36 in. (5 in. Inlet)	Throw (ft.)	H	6-10-15	9-13-18	11-14-20	12-15-22	13-16-23	14-17-25	-	-	-
		V	14	16	18	20	21	22	-	-	-
	Total Pressure (in. w.g.)		0.097	0.163	0.245	0.348	0.465	0.601	-	-	-
48 in. (6 in. Inlet)	Throw (ft.)	H	10-12-16	11-13-18	12-14-20	12-16-23	13-17-24	14-18-25	16-19-26	17-20-29	17-21-30
		V	13	17	19	20	22	23	24	25	26
	Total Pressure (in. w.g.)		0.050	0.084	0.131	0.184	0.247	0.315	0.396	0.487	0.587
60 in. (7 in. Inlet)	Throw (ft.)	H	9-12-16	10-13-18	12-14-20	12-16-21	13-17-23	14-18-25	14-20-26	16-20-27	17-21-29
		V	10	14	18	20	21	22	23	25	26
	Total Pressure (in. w.g.)		0.032	0.053	0.077	0.112	0.147	0.193	0.242	0.294	0.354
	Sound (NC)		-	-	-	24	28	32	36	39	41

3 Slot

Flow Rate (cfm)			130	160	190	220	250	280	310	340	370
36 in. (6 in. Inlet)	Throw (ft.)	H	7-11-18	9-14-20	11-15-21	13-16-23	14-17-24	15-19-26	16-19-27	16-20-29	17-21-30
		V	15	18	19	21	22	24	25	26	27
	Total Pressure (in. w.g.)		0.072	0.112	0.158	0.211	0.270	0.339	0.417	0.502	0.593
48 in. (7 in. Inlet)	Throw (ft.)	H	11-13-18	12-14-20	13-16-22	14-17-24	14-18-25	16-19-26	17-20-28	18-22-30	18-23-31
		V	13	16	19	22	23	24	25	26	28
	Total Pressure (in. w.g.)		0.045	0.066	0.096	0.126	0.164	0.206	0.251	0.302	0.359
60 in. (8 in. Inlet)	Throw (ft.)	H	10-13-18	12-14-20	12-16-21	13-17-22	14-18-25	16-20-26	16-20-27	17-21-29	18-21-30
		V	12	14	16	20	22	23	25	26	27
	Total Pressure (in. w.g.)		0.024	0.035	0.049	0.068	0.086	0.108	0.132	0.159	0.189
	Sound (NC)		-	-	-	20	23	26	29	32	34

4 Slot

Flow Rate (cfm)			160	200	240	280	320	360	400	440	480
36 in. (7 in. Inlet)	Throw (ft.)	H	7-12-19	11-15-22	12-17-24	14-19-26	16-20-28	17-21-29	18-22-31	19-23-33	20-24-34
		V	18	20	22	24	25	27	28	30	31
	Total Pressure (in. w.g.)		0.061	0.096	0.138	0.190	0.248	0.311	0.385	0.465	0.553
48 in. (8 in. Inlet)	Throw (ft.)	H	5-10-20	7-14-23	11-18-24	14-19-26	17-20-29	18-22-30	19-23-32	20-24-34	20-25-36
		V	14	18	22	24	26	28	30	31	32
	Total Pressure (in. w.g.)		0.034	0.052	0.075	0.104	0.135	0.172	0.213	0.257	0.307
60 in. (10 in. Inlet)	Throw (ft.)	H	4-7-16	5-10-22	8-16-25	10-18-26	13-20-27	16-21-29	18-22-31	20-23-33	21-25-34
		V	12	16	18	21	25	27	29	30	31
	Total Pressure (in. w.g.)		0.018	0.029	0.043	0.061	0.079	0.097	0.122	0.148	0.173
	Sound (NC)		-	-	-	21	25	28	32	35	37

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Horizontal (H) and vertical (V) throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum). Spread is the maximum width of the jet defined by the above terminal velocities.
- Throw values are based on full-open, one direction.
- Throw data is based on supply air and room air being at isothermal conditions.
- The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser. The NC values are 10 lower with vertical projection.
- All pressures are in in. w.g.
- Spread and throw data applies to Models SDB and SDBI only.
- Blanks "-" indicate an NC level below 20.
- Associated SDS diffuser must be specified and ordered as a separate item.

PERFORMANCE DATA

SDS with SDB Plenum – ¾ in. Slot Width (SDS75)

1 Slot

Flow Rate (cfm)			80	100	120	140	160	180	200	220	240
36 in. (4 in. Inlet)	Throw (ft.)	H	8-10-15	9-10-15	10-12-17	11-13-19	11-14-20	-	-	-	-
		V	12	14	16	17	18	-	-	-	-
	Total Pressure (in. w.g.)		0.164	0.254	0.369	0.499	0.654	-	-	-	-
48 in. (5 in. Inlet)	Throw (ft.)	H	8-10-14	10-11-17	10-12-18	11-13-19	12-14-20	12-16-22	13-16-23	13-17-24	-
		V	13	14	17	18	18	19	20	22	-
	Total Pressure (in. w.g.)		0.090	0.139	0.201	0.271	0.353	0.447	0.554	0.668	-
60 in. (6 in. Inlet)	Throw (ft.)	H	8-9-14	9-10-16	10-12-18	10-13-20	12-13-20	12-14-21	13-16-23	13-17-23	14-17-25
		V	13	14	16	17	18	20	20	21	22
	Total Pressure (in. w.g.)		0.058	0.093	0.133	0.186	0.244	0.307	0.377	0.458	0.539
	Sound (NC)		-	-	24	29	32	36	40	43	45

2 Slot

Flow Rate (cfm)			130	160	190	220	250	280	310	340	370
36 in. (6 in. Inlet)	Throw (ft.)	H	7-12-18	10-14-20	12-15-22	13-16-24	14-17-25	15-19-27	15-20-28	-	-
		V	16	18	19	21	23	24	25	-	-
	Total Pressure (in. w.g.)		-	0.104	0.162	0.228	0.305	0.390	0.490	-	-
48 in. (7 in. Inlet)	Throw (ft.)	H	5-11-18	7-14-20	11-16-23	13-17-24	14-18-25	16-19-28	16-20-29	17-22-30	18-23-31
		V	13	15	20	22	23	24	25	28	29
	Total Pressure (in. w.g.)		0.059	0.086	0.126	0.165	0.216	0.271	0.330	0.397	0.472
60 in. (8 in. Inlet)	Throw (ft.)	H	4-5-17	7-12-20	8-14-21	10-17-23	13-18-25	14-18-26	16-20-27	16-21-30	17-23-31
		V	13	16	18	21	22	23	25	26	27
	Total Pressure (in. w.g.)		0.045	0.066	0.091	0.146	0.161	0.202	0.247	0.297	0.353
	Sound (NC)		-	-	24	28	32	36	39	42	44

3 Slot

Flow Rate (cfm)			160	190	220	250	280	310	340	370	400
36 in. (7 in. Inlet)	Throw (ft.)	H	7-12-20	9-14-22	11-16-23	13-17-25	14-18-26	15-19-27	17-21-29	18-22-30	19-23-31
		V	17	19	21	22	23	25	27	28	29
	Total Pressure (in. w.g.)		0.073	0.107	0.140	0.183	0.230	0.280	0.336	0.400	0.466
48 in. (8 in. Inlet)	Throw (ft.)	H	5-11-20	7-17-23	10-18-24	12-18-25	14-19-28	17-20-30	18-22-30	18-23-31	19-24-34
		V	14	18	20	24	25	26	28	29	30
	Total Pressure (in. w.g.)		0.042	0.059	0.082	0.104	0.130	0.160	0.192	0.228	0.267
60 in. (10 in. Inlet)	Throw (ft.)	H	4-8-20	5-12-22	7-16-22	8-18-23	10-20-26	13-20-27	16-21-30	17-21-31	18-22-3
		V	13	16	18	20	22	26	27	29	29
	Total Pressure (in. w.g.)		0.023	0.037	0.046	0.060	0.078	0.092	0.110	0.133	0.156
	Sound (NC)		-	-	-	21	24	27	30	32	35

4 Slot

Flow Rate (cfm)			200	240	280	320	360	400	440	480	520
36 in. (8 in. Inlet)	Throw (ft.)	H	9-14-22	11-17-25	13-19-27	15-20-28	16-21-30	19-22-31	19-23-32	20-24-34	21-26-36
		V	18	21	24	25	27	29	30	31	33
	Total Pressure (in. w.g.)		0.062	0.090	0.124	0.161	0.205	0.254	0.307	0.366	0.428
48 in. (10 in. Inlet)	Throw (ft.)	H	6-12-24	10-16-25	12-18-28	13-20-29	14-22-31	17-24-32	18-24-35	19-25-36	23-26-37
		V	17	19	23	25	28	30	31	32	34
	Total Pressure (in. w.g.)		0.033	0.049	0.070	0.090	0.111	0.139	0.168	0.197	0.234
60 in. (10 in. Inlet)	Throw (ft.)	H	4-10-21	7-13-25	9-16-26	12-18-29	13-20-30	14-22-31	16-23-34	17-25-35	20-26-36
		V	14	17	20	22	25	27	30	31	33
	Total Pressure (in. w.g.)		0.021	0.031	0.044	0.057	0.070	0.088	0.107	0.125	0.148
	Sound (NC)		-	-	-	-	22	25	28	31	33

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Horizontal (H) and vertical (V) throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum). Spread is the maximum width of the jet defined by the above terminal velocities.
- Throw values are based on full-open, one direction.
- Throw data is based on supply air and room air being at isothermal conditions.
- The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser. The NC values are 10 lower with vertical projection.
- All pressures are in in. w.g.
- Spread and throw data applies to Models SDB and SDB1 only.
- Blanks "-" indicate an NC level below 20.
- Associated SDS diffuser must be specified and ordered as a separate item.

PERFORMANCE DATA

SDS with SDB Plenum – 1 in. Slot Width (SDS100)

1 Slot

Flow Rate (cfm)			100	120	140	160	180	200	220	240	260
36 in. (5 in. Inlet)	Throw (ft.)	H	6-11-15	9-12-17	11-13-19	11-14-20	12-14-20	12-15-22	-	-	-
		V	14	15	17	18	19	20	-	-	-
	Total Pressure (in. w.g.)		0.218	0.314	0.422	0.550	0.698	0.864	-	-	-
48 in. (5 in. Inlet)	Throw (ft.)	H	5-8-17	6-12-18	8-13-19	11-14-20	13-16-22	13-16-24	14-17-24	14-18-24	-
		V	14	17	18	19	20	22	22	23	-
	Total Pressure (in. w.g.)		0.108	0.155	0.209	0.273	0.346	0.428	0.517	0.615	-
60 in. (6 in. Inlet)	Throw (ft.)	H	3-7-16	5-9-18	7-12-20	8-14-20	10-14-21	12-16-22	13-16-23	14-17-25	14-18-26
		V	14	16	17	18	20	21	22	22	23
	Total Pressure (in. w.g.)		0.062	0.090	0.125	0.164	0.207	0.254	0.308	0.363	0.429
	Sound (NC)		-	-	20	24	27	30	33	36	38

2 Slot

Flow Rate (cfm)			160	190	220	250	280	310	340	370	400
36 in. (6 in. Inlet)	Throw (ft.)	H	7-14-20	11-15-22	13-16-23	14-17-24	15-19-26	16-19-27	17-20-28	-	-
		V	17	19	21	23	24	25	26	-	-
	Total Pressure (in. w.g.)		0.122	0.171	0.229	0.293	0.368	0.452	0.545	-	-
48 in. (7 in. Inlet)	Throw (ft.)	H	5-13-20	7-16-23	10-17-24	12-18-26	16-19-28	17-20-29	18-22-30	18-23-31	19-24-32
		V	17	19	22	23	24	26	28	29	30
	Total Pressure (in. w.g.)		0.060	0.087	0.114	0.150	0.188	0.228	0.275	0.326	0.381
60 in. (8 in. Inlet)	Throw (ft.)	H	4-9-20	5-14-22	7-17-23	9-18-25	10-20-26	13-20-29	17-21-30	18-22-31	18-22-32
		V	14	17	20	22	23	25	26	27	29
	Total Pressure (in. w.g.)		0.040	0.055	0.076	0.098	0.122	0.149	0.180	0.214	0.25
	Sound (NC)		-	-	-	21	24	27	30	32	35

3 Slot

Flow Rate (cfm)			190	220	250	280	310	340	370	400	430
36 in. (8 in. Inlet)	Throw (ft.)	H	8-14-21	10-16-23	11-17-25	13-19-27	15-20-28	16-21-30	16-22-31	18-23-32	19-24-33
		V	18	20	22	24	26	27	28	29	30
	Total Pressure (in. w.g.)		0.076	0.105	0.134	0.168	0.206	0.248	0.294	0.344	0.399
48 in. (10 in. Inlet)	Throw (ft.)	H	5-12-23	7-16-24	10-18-25	12-19-28	14-20-30	16-22-31	16-23-32	17-23-34	17-24-35
		V	16	18	20	23	25	26	28	29	30
	Total Pressure (in. w.g.)		0.037	0.051	0.066	0.082	0.101	0.121	0.144	0.168	0.194
60 in. (10 in. Inlet)	Throw (ft.)	H	4-8-22	5-12-23	7-14-25	8-18-26	9-20-29	12-21-31	14-21-31	16-22-33	17-23-34
		V	14	16	18	20	22	23	26	27	29
	Total Pressure (in. w.g.)		0.027	0.033	0.043	0.057	0.067	0.080	0.097	0.113	0.130
	Sound (NC)		-	-	-	-	20	23	25	28	30

4 Slot

Flow Rate (cfm)			240	280	320	360	400	440	480	520	560
36 in. (8 in. Inlet)	Throw (ft.)	H	9-15-25	12-17-27	13-18-28	14-21-30	15-23-32	17-24-33	20-24-34	21-25-36	22-26-37
		V	19	23	25	27	29	30	31	32	33
	Total Pressure (in. w.g.)		0.070	0.096	0.125	0.159	0.198	0.239	0.284	0.333	0.388
48 in. (10 in. Inlet)	Throw (ft.)	H	6-12-25	8-16-26	11-18-29	14-22-30	18-23-31	19-24-34	20-25-35	22-26-36	23-28-37
		V	17	20	23	25	29	30	31	32	35
	Total Pressure (in. w.g.)		0.036	0.051	0.066	0.081	0.102	0.123	0.144	0.171	0.198
60 in. (10 in. Inlet)	Throw (ft.)	H	5-9-23	7-13-26	8-14-29	9-17-29	12-20-31	14-21-33	16-22-35	20-26-36	21-26-36
		V	14	17	20	22	25	26	30	33	33
	Total Pressure (in. w.g.)		0.025	0.036	0.046	0.057	0.071	0.086	0.101	0.120	0.139
	Sound (NC)		-	-	-	-	20	23	26	28	31

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Horizontal (H) and vertical (V) throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum). Spread is the maximum width of the jet defined by the above terminal velocities.
- Throw values are based on full-open, one direction.
- Throw data is based on supply air and room air being at isothermal conditions.
- The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser. The NC values are 10 lower with vertical projection.
- All pressures are in in. w.g.
- Spread and throw data applies to Models SDB and SDBI only.
- Blanks "-" indicate an NC level below 20.
- Associated SDS diffuser must be specified and ordered as a separate item.

PERFORMANCE DATA

SDS with SDB Plenum – 1 ½ in. Slot Width (SDS150)

1 Slot

Flow Rate (cfm)			120	140	160	180	200	220	240	260	280
36 in. (5 in. Inlet)	Throw (ft.)	H	13-16-23	14-17-25	15-19-26	16-20-28	17-21-30	18-22-31	19-23-32	19-24-34	20-25-35
		V	15	16	17	18	19	20	21	21	22
	Total Pressure (in. w.g.)		0.135	0.184	0.240	0.304	0.375	0.454	0.541	0.634	0.736
48 in. (6 in. Inlet)	Throw (ft.)	H	9-14-21	11-16-23	12-17-24	14-18-26	15-19-27	16-20-28	17-21-30	18-22-31	18-23-32
		V	15	16	17	18	19	20	21	22	23
	Total Pressure (in. w.g.)		0.071	0.096	0.125	0.159	0.196	0.237	0.282	0.331	0.384
60 in. (6 in. Inlet)	Throw (ft.)	H	5-9-19	7-11-20	8-12-22	9-14-23	10-16-24	11-17-26	12-19-27	14-20-28	15-20-29
		V	16	17	18	19	20	21	22	23	24
	Total Pressure (in. w.g.)		0.056	0.077	0.100	0.127	0.157	0.190	0.226	0.265	0.307
	Sound (NC)		-	19	22	26	28	31	33	36	38

2 Slot

Flow Rate (cfm)			190	220	250	280	310	340	370	400	430
36 in. (6 in. Inlet)	Throw (ft.)	H	14-19-27	16-20-29	18-22-30	19-23-32	20-24-34	20-25-35	21-26-37	22-27-38	23-28-40
		V	19	20	21	23	24	25	26	27	28
	Total Pressure (in. w.g.)		0.120	0.161	0.208	0.261	0.320	0.385	0.455	0.532	0.615
48 in. (8 in. Inlet)	Throw (ft.)	H	10-16-22	12-17-24	14-18-26	15-19-27	16-20-29	17-21-30	18-22-31	19-23-32	19-24-34
		V	16	17	18	19	20	21	22	23	24
	Total Pressure (in. w.g.)		0.049	0.066	0.086	0.107	0.132	0.158	0.188	0.219	0.253
60 in. (10 in. Inlet)	Throw (ft.)	H	8-12-18	9-14-20	11-15-21	12-16-22	13-16-23	14-17-24	15-18-25	15-19-26	16-19-27
		V	13	14	15	16	17	18	18	19	20
	Total Pressure (in. w.g.)		0.026	0.034	0.045	0.056	0.068	0.082	0.098	0.114	0.132
	Sound (NC)		-	-	-	-	17	19	21	23	25

3 Slot

Flow Rate (cfm)			220	250	280	310	340	370	400	430	460
36 in. (8 in. Inlet)	Throw (ft.)	H	12-17-29	13-20-30	15-22-32	16-24-34	18-25-36	19-26-37	21-27-39	23-28-40	24-29-41
		V	18	19	20	21	22	23	24	25	26
	Total Pressure (in. w.g.)		0.059	0.076	0.096	0.117	0.141	0.167	0.196	0.226	0.259
48 in. (10 in. Inlet)	Throw (ft.)	H	7-14-23	10-16-24	12-17-26	13-19-27	14-20-28	15-21-29	17-22-31	18-22-32	19-23-33
		V	12	13	14	15	16	16	17	18	18
	Total Pressure (in. w.g.)		0.028	0.037	0.046	0.056	0.068	0.080	0.094	0.108	0.124
60 in. (10 in. Inlet)	Throw (ft.)	H	5-11-17	6-13-18	8-14-19	9-14-20	11-15-21	13-16-22	13-16-23	14-17-24	14-17-24
		V	7	8	9	10	10	11	12	13	14
	Total Pressure (in. w.g.)		0.023	0.030	0.037	0.045	0.055	0.065	0.076	0.087	0.100
	Sound (NC)		-	-	-	-	-	17	19	21	23

4 Slot

Flow Rate (cfm)			280	320	360	400	440	480	520	560	600
36 in. (8 in. Inlet)	Throw (ft.)	H	13-20-30	15-23-32	17-24-34	19-26-36	21-27-38	23-28-40	24-29-41	25-30-43	26-31-44
		V	19	20	22	23	24	25	26	27	28
	Total Pressure (in. w.g.)		0.075	0.098	0.124	0.153	0.185	0.220	0.258	0.299	0.344
48 in. (10 in. Inlet)	Throw (ft.)	H	7-13-25	9-14-26	11-16-28	12-18-29	13-20-31	14-22-32	6-23-34	17-25-35	18-26-36
		V	13	15	16	16	17	18	19	19	20
	Total Pressure (in. w.g.)		0.035	0.046	0.058	0.071	0.086	0.103	0.120	0.140	0.160
60 in. (10 in. Inlet)	Throw (ft.)	H	3-7-14	4-8-16	5-9-18	6-10-20	8-11-23	8-12-25	9-13-26	10-14-27	10-15-28
		V	9	10	11	12	13	14	15	15	16
	Total Pressure (in. w.g.)		0.029	0.038	0.048	0.060	0.072	0.086	0.101	0.117	0.134
	Sound (NC)		-	-	-	16	19	21	23	25	27

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Horizontal (H) and vertical (V) throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum). Spread is the maximum width of the jet defined by the above terminal velocities.
- Throw values are based on full-open, one direction.
- Throw data is based on supply air and room air being at isothermal conditions.
- The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser. The NC values are 10 lower with vertical projection.
- All pressures are in in. w.g.
- Spread and throw data applies to Models SDB and SDBI only.
- Blanks "-" indicate a NC level below 15.
- Associated SDS diffuser must be specified and ordered as a separate item.