

Performance Data



HL-SS Series

Module Size	Neck Size	Neck Velocity	400	500	600	700	800	900	1000	1200	1400
12"x 12"	4" Round Neck	Velocity Pressure	0.010	0.016	0.022	0.031	0.040	0.051	0.062	0.090	0.122
		CFM	35	44	52	61	70	79	87	105	122
		Duct Pt, Inches WG	0.034	0.053	0.076	0.103	0.134	0.170	0.210	0.303	0.412
	5" Round Neck	NC (Noise Criteria)	-	-	12	17	21	24	27	33	38
		Throw Feet	1 2 3	1 2 4	2 2 5	2 3 6	2 3 6	2 4 7	3 4 8	3 5 10	4 6 11
		CFM	55	68	82	95	109	123	136	164	191
	6" Round Neck	Duct Pt, Inches WG	0.040	0.063	0.091	0.124	0.161	0.204	0.252	0.363	0.494
		NC (Noise Criteria)	-	-	12	17	21	24	28	33	38
		Throw Feet	2 2 5	2 3 6	2 3 7	3 4 8	3 5 9	3 5 10	4 6 12	5 7 14	5 8 15
	7" Round Neck	CFM	78	98	118	137	157	176	196	235	274
		Duct Pt, Inches WG	0.049	0.076	0.109	0.149	0.194	0.246	0.303	0.437	0.594
		NC (Noise Criteria)	-	-	12	17	21	24	28	33	38
8" Round Neck	Throw Feet	2 3 6	3 4 8	3 5 9	4 5 11	4 6 12	5 7 14	5 8 15	6 9 17	7 11 18	
	CFM	107	134	160	187	214	240	267	320	374	
	Duct Pt, Inches WG	0.058	0.091	0.131	0.178	0.233	0.295	0.364	0.524	0.714	
12"x 24"	NC (Noise Criteria)	-	-	12	17	21	24	28	33	38	
	Throw Feet	3 4 8	3 5 9	4 6 11	4 7 13	5 8 15	6 9 17	6 9 18	8 11 20	9 13 21	
	CFM	140	175	209	244	279	314	349	419	489	
6" Round Neck	Duct Pt, Inches WG	0.070	0.109	0.156	0.213	0.278	0.352	0.434	0.626	0.852	
	NC (Noise Criteria)	-	-	12	17	21	24	28	33	38	
	Throw Feet	3 5 9	4 6 11	5 7 14	5 8 16	6 9 18	7 10 19	8 11 20	9 14 22	11 16 24	
8" Round Neck	CFM	78	98	118	137	157	176	196	235	274	
	Duct Pt, Inches WG	0.011	0.017	0.025	0.034	0.044	0.056	0.069	0.099	0.135	
	NC (Noise Criteria)	-	-	-	-	13	17	21	28	34	
10" Round Neck	Throw Feet	1 1 4	1 2 4	1 3 5	2 3 6	2 4 7	3 4 8	3 4 9	4 5 11	4 6 11	
	CFM	140	175	209	244	279	314	349	419	489	
	Duct Pt, Inches WG	0.018	0.028	0.040	0.055	0.072	0.091	0.112	0.162	0.220	
12" Round Neck	NC (Noise Criteria)	-	-	-	12	17	21	25	32	38	
	Throw Feet	2 3 6	2 4 7	3 4 9	3 5 10	4 6 12	4 6 12	5 7 13	6 9 14	7 10 15	
	CFM	218	273	327	382	436	491	545	654	763	
14" Round Neck	Duct Pt, Inches WG	0.027	0.042	0.060	0.082	0.107	0.136	0.168	0.241	0.329	
	NC (Noise Criteria)	-	-	-	15	20	24	28	35	41	
	Throw Feet	3 4 8	3 5 10	4 6 12	5 7 13	5 8 14	6 9 15	7 10 16	8 12 18	10 13 19	
15" Round Neck	CFM	314	393	471	550	628	707	785	942	1099	
	Duct Pt, Inches WG	0.038	0.059	0.085	0.115	0.151	0.191	0.235	0.339	0.461	
	NC (Noise Criteria)	-	-	12	18	23	27	31	38	43	
12"x 24"	Throw Feet	4 5 11	5 7 14	5 8 15	6 9 16	7 11 17	8 12 18	9 14 19	11 15 21	13 16 23	
	CFM	428	535	641	748	855	962	1069	1283	1497	
	Duct Pt, Inches WG	0.051	0.079	0.114	0.155	0.202	0.256	0.316	0.455	0.619	
14" Round Neck	NC (Noise Criteria)	-	-	14	20	25	29	33	40	45	
	Throw Feet	4 7 13	6 8 16	7 10 17	8 12 19	9 13 20	10 15 21	11 16 23	13 17 25	15 19 27	
	CFM	491	614	736	859	982	1104	1227	1472	1718	
15" Round Neck	Duct Pt, Inches WG	0.058	0.090	0.130	0.177	0.231	0.292	0.360	0.519	0.706	
	NC (Noise Criteria)	-	-	15	21	26	30	34	41	46	
	Throw Feet	5 7 15	6 9 17	7 11 19	9 13 20	10 15 22	11 16 23	12 17 24	15 19 26	17 20 29	

Performance Notes:

- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006. Actual performance, with flexible duct inlet, may vary in the field. See the Engineering Guidelines section of this
- If the diffuser is mounted on an exposed duct, the throw values are 70% of those listed in the table.
- Throw values are given for terminal velocities of 150, 100 and 50 fpm and for isothermal conditions. See the section, Engineering Guidelines for catalog throw data information.
- NC values based on octave band 2 to 7 sound power levels minus a room absorption of 10 dB.
- Dash (-) in space denotes an NC value of less than 10.
- Each NC value represents the noise criteria curve which will not be exceeded by the sound pressure in any of the octave bands, 2 through 7, with a room absorption of 10 dB, re 10-12 watts.
- All pressures are given in inches of water.
- To obtain Duct Ps, subtract the velocity pressure from the Duct Pt.