

PERFORMANCE DATA

80/81/82/80FF/80FH Grille – Metric Units

Core Area Sq. M.	Nominal Size (mm)	Core Velocity (m/s) Velocity Pressure (Pa) Negative SP (Pa)	NC20										30				
			1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	7.5	5.0	6.0	7.0	7.5	
			1	2	4	6	8	10	16	22	30	35	16	22	30	35	
			3	5	8	12	16	21	28	33	48	65	74				
0.012	180 x 100	L/S	19	25	31	38	44	50	63	75	88	94					
	150 x 125	NC	-	-	-	-	-	-	21	28	34	36					
0.014	205 x 100	L/S	22	29	36	44	51	58	73	88	102	109					
	180 x 125	NC	-	-	-	-	-	-	22	29	34	37					
0.019	255 x 100	L/S	28	37	47	56	65	75	93	112	131	140					
	205 x 125	NC	-	-	-	-	-	-	23	30	35	38					
0.022	305 x 100	L/S	34	46	57	68	80	91	114	137	160	171					
	255 x 125	NC	-	-	-	-	-	15	23	30	36	39					
0.026	355 x 100	L/S	40	54	67	81	94	108	134	161	188	202					
		NC	-	-	-	-	-	16	24	31	37	39					
0.031	405 x 100	L/S	46	62	77	93	108	124	155	186	217	232					
	305 x 125	NC	-	-	-	-	-	16	25	32	37	40					
0.034	455 x 100	L/S	53	70	88	105	123	140	175	210	246	263					
	355 x 125	NC	-	-	-	-	-	17	25	32	38	40					
0.039	510 x 100	L/S	59	78	98	118	137	157	196	235	274	294					
	405 x 125	NC	-	-	-	-	-	17	26	32	38	41					
0.046	610 x 100	L/S	71	95	118	142	166	189	237	284	332	355					
	455 x 125	NC	-	-	-	-	-	18	26	33	39	42					
0.055	710 x 100	L/S	83	111	139	167	194	222	278	333	389	417					
	510 x 125	NC	-	-	-	-	-	18	27	34	40	42					
0.059	760 x 100	L/S	89	119	149	179	209	239	298	358	418	447					
	610 x 125	NC	-	-	-	-	-	19	27	34	40	43					
0.071	915 x 100	L/S	108	144	180	216	252	288	360	432	504	540					
	710 x 125	NC	-	-	-	-	-	20	28	35	41	43					
0.079	1015 x 100	L/S	120	160	200	240	281	321	401	481	561	601					
	760 x 125	NC	-	-	-	-	-	20	28	35	41	44					
0.095	1220 x 100	L/S	145	193	241	290	338	386	483	579	676	724					
	915 x 125	NC	-	-	-	-	-	16	21	29	36	42	44				
0.110	865 x 150	L/S	167	223	278	334	390	445	556	668	779	835					
	610 x 205	NC	-	-	-	-	-	16	21	30	37	42	45				
0.119	1525 x 100	L/S	182	242	303	363	424	484	606	727	848	908					
	1220 x 125	NC	-	-	-	-	-	16	22	30	37	43	45				
0.143	1830 x 100	L/S	219	291	364	437	510	583	729	874	1,020	1,093					
	760 x 205	NC	-	-	-	-	-	17	22	31	38	43	46				
0.157	1525 x 125	L/S	240	320	400	480	560	640	799	959	1,119	1,199					
	1220 x 150	NC	-	-	-	-	-	18	23	31	38	44	46				
0.190	1830 x 125	L/S	289	385	481	577	673	769	962	1,154	1,346	1,443					
	1525 x 150	NC	-	-	-	-	-	18	23	32	39	44	47				
0.235	1830 x 150	L/S	358	478	597	717	836	956	1,195	1,434	1,673	1,792					
	1220 x 205	NC	-	-	-	-	-	19	24	33	40	45	48				
0.252	915 x 305	L/S	384	512	640	769	897	1,025	1,281	1,537	1,793	1,921					
	760 x 355	NC	-	-	-	-	-	19	24	33	40	46	48				
0.272	1525 x 205	L/S	414	552	690	828	967	1,105	1,381	1,657	1,933	2,071					
	1220 x 255	NC	-	-	-	-	-	20	25	33	40	46	49				
0.327	1830 x 205	L/S	498	664	831	997	1,163	1,329	1,661	1,993	2,325	2,492					
	1525 x 255	NC	-	-	-	-	-	20	25	34	41	47	49				
0.399	1220 x 355	L/S	608	811	1,014	1,216	1,419	1,622	2,027	2,433	2,838	3,041					
	915 x 455	NC	-	-	-	-	15	21	26	35	42	47	50				
0.419	1830 x 255	L/S	638	851	1,064	1,276	1,489	1,702	2,127	2,553	2,978	3,191					
	1220 x 405	NC	-	-	-	-	16	21	26	35	42	48	50				
0.510	1830 x 305	L/S	778	1,037	1,297	1,556	1,816	2,075	2,594	3,112	3,631	3,890					
	1525 x 355	NC	-	-	-	-	16	22	27	36	43	48	51				
0.602	1830 x 355	L/S	918	1,224	1,530	1,836	2,142	2,448	3,060	3,672	4,284	4,590					
	1525 x 405	NC	-	-	-	-	17	23	28	36	43	49	52				

Performance Notes

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets".
2. All pressures are in Pascals (Pa).
3. NC values are based on a room absorption of 10 dB re 10-12 watts.
4. Blanks (-) indicate an NC level below 15.
5. Grille tested without damper. Corrections for grille with damper:
Add 6 dB to the listed NC.
Multiply listed Negative Static Pressure by 1.3.
6. The performance tables are based on grilles with F border. For ED border the following correction factors must be applied due to the reduced core area of this border:
7. Does not include pressure drop through filter on FF, FH models.

PERFORMANCE DATA

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Core Area Sq. M.	Nominal Size (mm)	Core Velocity (m/s) Velocity Pressure (Pa) Negative SP (Pa)	NC20							30	
			0.5	1.0	1.5	2.0	2.5	3.0	3.5		
			0	1	1	2	4	6	8		
			2	8	17	28	41	57	74		
0.014	178 x 102	L/s	7	14	21	28	35	42	50		
	152 x 127	NC	-	-	-	15	21	26	30		
0.017	203 x 102	L/s	8	17	25	34	42	51	59		
	178 x 102	NC	-	-	-	16	22	27	31		
0.02	254 x 102	L/s	10	21	31	42	52	62	73		
	203 x 127	NC	-	-	-	16	22	27	32		
0.024	305 x 102	L/s	12	25	37	49	61	74	86		
	254 x 127	NC	-	-	-	17	23	28	32		
0.028	356 x 102	L/s	14	28	42	57	71	85	99		
		NC	-	-	-	18	24	28	33		
0.032	406 x 102	L/s	16	32	48	64	80	96	112		
	305 x 127	NC	-	-	-	18	24	29	33		
0.036	457 x 102	L/s	18	37	55	74	92	110	129		
	356 x 127	NC	-	-	-	18	24	29	34		
0.043	508 x 102	L/s	22	43	65	87	109	130	152		
	406 x 127	NC	-	-	-	19	25	30	34		
0.048	610 x 102	L/s	25	49	74	98	123	147	172		
	457 x 127	NC	-	-	-	19	26	30	35		
0.056	711 x 102	L/s	28	57	85	113	142	170	198		
	508 x 127	NC	-	-	-	20	26	31	35		
0.064	762 x 102	L/s	33	65	98	130	163	195	228		
	610 x 127	NC	-	-	-	20	27	31	36		
0.075	914 x 102	L/s	38	76	115	153	191	229	268		
	711 x 127	NC	-	-	-	21	27	32	36		
0.084	1016 x 102	L/s	42	85	127	170	212	255	297		
	762 x 127	NC	-	-	-	21	27	32	37		
0.099	1219 x 102	L/s	51	101	152	202	253	303	354		
	914 x 127	NC	-	-	-	22	28	33	37		
0.11	864 x 152	L/s	56	111	167	223	278	334	390		
	610 x 203	NC	-	-	-	22	28	33	38		
0.124	1524 x 102	L/s	63	126	190	253	316	379	443		
	1219 x 127	NC	-	-	15	23	29	34	38		
0.149	1829 x 102	L/s	76	151	227	302	378	453	529		
	762 x 203	NC	-	-	16	23	30	34	39		
0.167	1524 x 127	L/s	85	170	255	340	425	510	595		
	1219 x 152	NC	-	-	16	24	30	35	39		
0.193	1829 x 127	L/s	98	196	295	393	491	589	687		
	1524 x 152	NC	-	-	17	24	30	35	40		
0.228	1829 x 152	L/s	116	231	347	463	578	694	809		
	1219 x 203	NC	-	-	17	25	31	36	40		
0.258	914 x 305	L/s	131	262	394	525	656	787	919		
	762 x 356	NC	-	-	18	25	32	36	41		
0.289	1524 x 203	L/s	147	294	440	587	734	881	1,028		
	1219 x 254	NC	-	-	18	26	32	37	41		
0.335	1829 x 203	L/s	170	341	511	682	852	1,022	1,193		
	1524 x 254	NC	-	-	19	26	32	37	42		
0.399	1219 x 356	L/s	202	405	607	810	1,012	1,215	1,417		
	914 x 457	NC	-	-	19	27	33	38	42		
0.432	1829 x 254	L/s	219	439	658	878	1,097	1,317	1,536		
	1219 x 406	NC	-	-	20	27	33	38	42		
0.518	1829 x 305	L/s	263	527	790	1,054	1,317	1,580	1,844		
	1524 x 356	NC	-	-	20	28	34	39	43		
0.581	1829 x 356	L/s	295	590	885	1,180	1,475	1,770	2,065		
	1524 x 406	NC	-	-	21	28	34	39	44		

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