

PERFORMANCE DATA

Heavy Duty Return Grille 0° Deflection - MODEL HDRG41

Size	Duct Area ft ²	Nk Vel	300	400	500	600	700	800	900	1000	1200
		Ps	-.012	-.022	-.034	-.049	-.067	-.087	-.110	-.136	-.196
06x06	.25	CFM	63	84	105	126	147	168	189	210	252
		NC	-	-	-	-	20	22	27	28	32
08x06	.33	CFM	86	115	143	172	201	229	258	286	344
		NC	-	-	-	-	21	23	28	29	33
08x08	.44	CFM	117	156	195	234	273	313	352	391	469
		NC	-	-	-	-	26	25	30	31	35
12x06	.50	CFM	132	176	220	264	307	351	395	439	527
		NC	-	-	-	-	23	25	30	31	35
16x06 12x08	.67	CFM	180	240	299	359	419	479	539	599	719
		NC	-	-	-	21	25	27	32	33	37
12x10	.83	CFM	228	303	379	455	531	607	683	759	910
		NC	-	-	-	22	26	28	33	34	38
24x06 12x12	1.00	CFM	276	367	459	551	643	735	827	918	1102
		NC	-	-	-	22	26	28	33	34	38
14x12	1.16	CFM	323	431	539	647	755	863	970	1078	1294
		NC	-	-	20	23	27	29	34	35	39
14x14	1.36	CFM	380	506	633	759	886	1013	1139	1139	1524
		NC	-	-	21	24	28	30	35	36	40
18x18	2.25	CFM	638	851	1063	1276	1489	1701	1914	2127	2552
		NC	-	21	23	26	30	32	37	38	42
24x12 18x16	2.00	CFM	563	751	938	1126	1314	1501	1689	1877	2252
		NC	-	20	22	25	29	31	36	37	41
24x18	3.00	CFM	857	1142	1428	1714	1999	2285	2570	2856	3427
		NC	-	22	24	27	31	33	38	39	43
48x12 24x24	4.00	CFM	1151	1534	1918	2301	2685	3068	3452	3835	4602
		NC	21	24	26	29	33	35	40	41	45
30x20	4.17	CFM	1198	1598	1997	2397	2797	3196	3595	3995	4794
		NC	21	24	26	29	33	35	40	41	45
36x20 30x24	5.00	CFM	1444	1926	2407	2889	3370	3851	4333	4814	5777
		NC	22	25	27	30	34	36	41	42	46
36x22	5.50	CFM	1590	2120	2650	3180	3710	4240	4770	5300	6360
		NC	22	25	27	30	34	36	41	42	46
48x18 36x24	6.00	CFM	1738	2317	2897	3476	4055	4635	5214	5793	6952
		NC	22	25	27	30	34	36	41	42	46
48x24 36x32	8.00	CFM	2326	3101	3876	4651	5426	6201	6977	7752	9302
		NC	24	27	29	32	36	38	43	44	48
48x30 42x34	10.00	CFM	2919	3892	4865	5839	6812	7785	8758	9731	11677
		NC	25	28	30	33	37	39	44	45	49

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48x36	12.00	CFM	3513	4684	5855	7026	8197	9368	10539	11710	14052
		NC	25	28	30	33	37	39	44	45	49
48x40	13.33	CFM	3909	5212	6515	7818	9121	10424	11727	13030	15635
		NC	26	29	31	24	28	40	45	46	50
48x48	16.00	CFM	4701	6267	7837	9401	10968	12535	14102	15668	18802
		NC	27	30	32	35	39	41	46	47	51

PERFORMANCE NOTES FOR SERIES HDRG41

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Nk Vel Neck Velocity of air stream in Feet per Minute

Ps Negative Static pressure (inches of water column)

NC Noise criterion, Sound pressure level. NC ratings are based on sound power level (Lw)

RE: 10⁻¹² watts minus a 10dB room attenuation in all octave bands.

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		NC	-	-	-	-	23	27	32	37	48
08x06	.33	CFM	86	115	143	172	201	229	258	286	344
		NC	-	-	-	-	24	28	33	38	49
08x08	.44	CFM	117	156	195	234	273	313	352	391	469
		NC	-	-	-	21	26	30	35	40	51
12x06	.50	CFM	132	176	220	264	307	351	395	439	527
		NC	-	-	-	21	26	30	35	40	51
16x06 12x08	.67	CFM	180	240	299	359	419	479	539	599	719
		NC	-	-	-	23	28	28	37	42	53
12x10	.83	CFM	228	303	379	455	531	607	683	759	910
		NC	-	-	20	24	29	33	38	43	54
24x06 12x12	1.00	CFM	276	367	459	551	643	735	827	918	1102
		NC	-	-	20	24	29	33	38	43	54
14x12	1.16	CFM	323	431	539	647	755	863	970	1078	1294
		NC	-	-	21	25	30	34	39	44	55
14x14	1.36	CFM	380	506	633	759	886	1013	1139	1139	1524
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		NC	-	21	25	29	34	38	43	48	59
48x12 24x24	4.00	CFM	1151	1534	1918	2301	2685	3068	3452	3835	4602
		NC	20	23	27	31	36	40	45	50	61
30x20	4.17	CFM	1198	1598	1997	2397	2797	3196	3595	3995	4794
		NC	20	23	27	27	31	36	45	50	61
36x20 30x24	5.00	CFM	1444	1926	2407	2889	3370	3851	4333	4814	5777
		NC	21	24	28	32	37	41	46	51	62
36x22	5.50	CFM	1738	2317	2897	3476	4055	4635	5214	5793	6952
		NC	21	24	28	32	37	41	46	51	62
48x18 36x24	6.00	CFM	2205	2940	3674	4409	5144	5879	6614	7349	8819
		NC	22	25	29	33	38	42	47	52	63
48x24 36x32	8.00	CFM	2326	3101	3876	4651	5426	6201	6977	7752	9302
		NC	23	26	30	34	39	43	48	53	64

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		NC	24	27	31	35	40	44	49	54	65
48x40	13.33	CFM	3909	5212	6515	7818	9121	10424	11727	13030	15635
		NC	25	28	32	36	41	45	50	55	66
48x48	16.00	CFM	4701	6267	7834	9401	10968	12535	14102	15668	18802
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