

TABLE 75: NC VALUES

SIZE	CFM	MIN. Δ Ps	DISCHARGE NC @ Ps				RADIATED NC @ Ps				CFM	SIZE
			.75" Δ Ps	1.5" Δ Ps	2.5" Δ Ps	3.0" Δ Ps	.75" Δ Ps	1.5" Δ Ps	2.5" Δ Ps	3.0" Δ Ps		
			NC	NC	NC	NC	NC	NC	NC	NC		
5	100	.5"	<20	<20	<20	<20	<20	<20	<20	<20	100	5
	200		<20	<20	<20	<20	<20	<20	21	20	200	
	300		<20	<20	<20	<20	<20	<20	22	22	300	
	400		<20	<20	<20	20	<20	21	25	25	400	
6	300	.5"	<20	<20	<20	<20	<20	<20	22	22	300	6
	400		<20	<20	<20	20	<20	21	25	25	400	
	500		<20	<20	20	23	<20	24	27	28	500	
	600		<20	<20	23	25	20	25	28	30	600	
7	500	.5"	<20	<20	<20	<20	<20	<20	21	22	500	7
	600		<20	<20	<20	<20	<20	<20	24	25	600	
	800		<20	<20	20	23	<20	23	27	29	800	
	1000		<20	<20	25	26	20	26	31	32	1000	
8	500	.5"	<20	<20	<20	<20	<20	<20	21	22	500	8
	600		<20	<20	<20	<20	<20	<20	24	25	600	
	800		<20	<20	<20	21	<20	23	27	29	800	
	1000		<20	<20	24	25	20	26	31	32	1000	
9	800	.5"	<20	<20	<20	<20	<20	26	28	29	800	9
	1000		<20	<20	20	23	21	27	30	31	1000	
	1200		<20	<20	24	26	24	28	31	32	1200	
	1400		<20	20	26	29	27	31	33	34	1400	
	1600		<20	23	29	30	30	33	34	36	1600	
10	800	.5"	<20	<20	<20	<20	<20	26	28	29	800	10
	1000		<20	<20	20	23	21	27	30	31	1000	
	1200		<20	<20	24	26	24	28	31	32	1200	
	1400		<20	20	26	29	27	31	33	34	1400	
	1600		<20	23	29	30	30	33	34	36	1600	
12	1200	.5"	<20	<20	<20	20	<20	<20	24	26	1200	12
	1500		<20	<20	21	24	<20	22	26	28	1500	
	1800		<20	<20	24	26	20	25	27	29	1800	
	2100		<20	<20	25	29	25	26	29	30	2100	
	2400		<20	20	26	30	28	29	31	32	2400	
14	1600	.5"	<20	<20	<20	<20	<20	21	26	28	1600	14
	2000		<20	<20	<20	21	<20	24	28	30	2000	
	2400		<20	<20	21	24	21	26	30	33	2400	
	2800		<20	<20	24	25	27	29	31	34	2800	
	3200		<20	21	25	26	31	32	33	35	3200	

Table 2: ARI Standard 885, Appendix E

	Octave Band							
	2	3	4	5	6	7		
Radiated	2	1	0	0	0	0	Environmental Effect	
All Sizes	16	18	20	26	31	36	Type II Mineral Fiber	
	18	19	20	26	31	36	Total dB Reduction	
Discharge	2	1	0	0	0	0	Environmental Effect	
Sizes 5-7	2	4	10	20	20	14	5 ft., Duct Lining (12x12)	
(300-700 cfm)	9	5	2	0	0	0	End Reflection	
	6	10	18	20	21	12	5 ft., 8 in. Flex Duct	
	5	6	7	8	9	10	Room Effect	
	3	3	3	3	3	3	Sound Power Division	
	27	29	40	51	53	39	Total dB Reduction	
Discharge	2	1	0	0	0	0	Environmental Effect	
Sizes 8-24x16	2	3	9	18	17	12	5 ft., Duct Lining (15x15)	
(>700 cfm)	9	5	2	0	0	0	End Reflection	
	6	10	18	20	21	12	5 ft., 8 in. Flex Duct	
	5	6	7	8	9	10	Room Effect	
	5	5	5	5	5	5	Sound Power Division	
	29	30	41	51	52	39	Total dB Reduction	

Notes:
1. NC values are calculated based on procedures outlined in ARI standard 885, appendix E



TABLE 76: DISCHARGE SOUND POWER LEVELS

SIZE	CFM	.75" Δ Ps						1.5" Δ Ps						2.5" Δ Ps						3.0" Δ Ps						CFM	SIZE
		Sound Power Levels, dB						Sound Power Levels, dB						Sound Power Levels, dB						Sound Power Levels, dB							
		Octave Band (Hz)						Octave Band (Hz)						Octave Band (Hz)						Octave Band (Hz)							
		2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7		
5	100	47	36	32	26	23	50	44	37	35	28	25	52	53	44	38	27	24	55	55	48	41	27	25	100	5	
	200	49	40	36	34	28	25	52	47	40	37	29	26	54	55	46	40	29	26	57	57	50	43	29	27		200
	300	51	44	39	36	29	26	53	50	43	39	30	27	56	57	49	42	30	28	58	59	52	45	31	29		300
	400	53	48	43	39	32	29	54	53	46	42	32	29	58	60	52	45	33	31	61	62	54	46	34	32		400
6	300	51	44	39	36	29	26	53	50	43	39	30	27	56	57	49	42	30	28	58	59	52	45	31	29	300	6
	400	53	48	43	39	32	29	54	53	46	42	32	29	58	60	52	45	33	31	61	62	54	46	34	32	400	
	500	55	52	46	41	33	30	55	56	49	44	33	31	60	62	54	47	34	33	63	64	56	47	35	35	500	
	600	57	56	49	42	34	31	57	59	52	46	34	31	62	64	57	49	37	35	64	66	58	50	38	36	600	
7	500	53	48	39	35	29	26	54	53	42	36	30	30	60	57	46	39	33	35	61	59	48	40	35	36	500	7
	600	54	50	41	36	29	26	56	55	44	38	31	31	61	59	48	41	34	36	62	61	50	42	36	37	600	
	800	55	54	44	38	30	27	60	59	48	42	32	33	63	62	51	44	36	37	65	64	53	45	38	39	800	
	1000	59	55	48	43	34	31	62	61	52	45	36	36	66	66	55	47	39	39	67	67	57	49	41	41	1000	
8	500	53	48	39	35	29	26	54	53	42	36	30	30	60	57	46	39	33	35	61	59	48	40	35	36	500	8
	600	54	50	41	36	29	26	56	55	44	38	31	31	61	59	48	41	34	36	62	61	50	42	36	37	600	
	800	55	54	44	38	30	27	60	59	48	42	32	33	63	62	51	44	36	37	65	64	53	45	38	39	800	
	1000	59	55	48	43	34	31	62	61	52	45	36	36	66	66	55	47	39	39	67	67	57	49	41	41	1000	
9	800	52	48	41	33	30	27	61	56	47	37	31	34	65	60	51	41	34	38	66	62	53	43	35	40	800	9
	1000	55	52	46	38	35	31	63	59	50	41	36	36	67	63	54	44	38	40	69	65	56	46	39	42	1000	
	1200	57	55	50	42	39	34	65	61	53	44	40	38	69	66	56	47	42	42	71	68	58	48	43	43	1200	
	1400	61	59	55	46	44	38	67	63	57	48	45	42	71	68	59	50	46	45	72	70	60	51	47	46	1400	
10	1600	65	62	59	49	48	41	68	65	60	51	49	45	72	70	61	53	50	47	73	71	62	54	50	48	1600	10
	800	52	48	41	33	30	27	61	56	47	37	31	34	65	60	51	41	34	38	66	62	53	43	35	40	800	
	1000	55	52	46	38	35	31	63	59	50	41	36	36	67	63	54	44	38	40	69	65	56	46	39	42	1000	
	1200	57	55	50	42	39	34	65	61	53	44	40	38	69	66	56	47	42	42	71	68	58	48	43	43	1200	
12	1400	61	59	55	46	44	38	67	63	57	48	45	42	71	68	59	50	46	45	72	70	60	51	47	46	1400	12
	1600	65	62	59	49	48	41	68	65	60	51	49	45	72	70	61	53	50	47	73	71	62	54	50	48	1600	
	1200	53	50	44	32	28	29	61	56	48	36	34	39	66	62	53	41	39	44	66	63	54	42	40	45	1200	
	1500	56	53	47	36	32	33	63	59	51	39	36	40	67	64	55	43	41	45	68	66	56	45	42	46	1500	
14	1800	59	56	50	39	35	36	64	61	53	42	38	41	69	66	57	45	42	45	70	68	58	47	43	47	1800	14
	2100	61	59	53	42	39	38	65	62	55	45	41	41	70	67	59	48	44	46	72	70	60	50	45	47	2100	
	2400	62	61	56	46	42	39	66	63	56	47	43	42	71	68	60	51	45	47	74	71	61	52	47	48	2400	
	1600	53	49	43	35	32	35	61	55	48	38	37	41	65	60	52	42	41	45	67	62	54	44	43	47	1600	
14	2000	57	53	48	40	37	37	63	58	51	42	40	41	68	62	55	45	43	45	69	64	57	47	45	47	2000	14
	2400	60	56	52	44	41	38	65	60	54	46	43	42	70	64	57	48	45	46	71	66	59	50	46	48	2400	
	2800	63	59	56	49	46	42	67	62	57	50	47	45	71	66	60	52	49	48	72	67	61	53	50	49	2800	
	3200	65	62	59	53	51	45	68	64	60	54	51	47	72	67	62	55	53	50	73	68	62	56	53	50	3200	

Notes:

1. All sound data are measured in accordance with industry standard ARI-880
2. Sound power levels are in decibels, re 10-12 watts

TABLE 77: RADIATED SOUND POWER LEVELS

SIZE	CFM	.75" Δ Ps						1.5" Δ Ps						2.5" Δ Ps						3.0" Δ Ps						CFM	SIZE
		Sound Power Levels, dB						Sound Power Levels, dB						Sound Power Levels, dB						Sound Power Levels, dB							
		Octave Band (Hz)						Octave Band (Hz)						Octave Band (Hz)						Octave Band (Hz)							
		2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7		
5	100	49	37	36	34	25	20	49	43	41	36	31	25	53	46	45	40	35	31	50	47	44	41	36	31	100	5
	200	51	40	38	36	28	23	52	46	43	38	33	28	55	49	47	42	37	33	53	50	46	43	38	33	200	
	300	53	43	40	37	31	26	54	48	45	40	35	30	57	51	48	44	39	35	56	52	48	45	40	35	300	
	400	55	45	42	39	33	28	57	51	47	42	37	32	59	53	50	46	41	37	59	54	50	47	42	37	400	
6	300	53	43	40	37	31	26	54	48	45	40	35	30	57	51	48	44	39	35	56	52	48	45	40	35	300	6
	400	55	45	42	39	33	28	57	51	47	42	37	32	59	53	50	46	41	37	59	54	50	47	42	37	400	
	500	57	49	44	41	36	31	60	54	49	44	40	35	61	56	52	48	43	39	62	57	53	49	44	39	500	
	600	58	52	46	42	39	34	62	56	50	46	42	37	63	58	53	49	45	40	64	59	55	50	46	41	600	
7	500	51	40	40	34	29	25	52	47	42	39	34	29	57	51	47	41	37	36	57	53	47	41	37	35	500	7
	600	52	42	41	35	30	26	54	49	44	40	35	32	59	54	49	43	39	37	60	56	50	44	40	38	600	
	800	53	46	42	36	31	27	58	54	48	43	38	33	61	58	51	45	42	41	63	59	53	47	43	43	800	
	1000	57	48	46	39	32	28	60	56	51	44	39	34	63	61	54	48	44	44	65	62	56	49	46	46	1000	
8	500	51	40	40	34	29	25	52	47	42	39	34	29	57	51	47	41	37	36	57	53	47	41	37	35	500	8
	600	52	42	41	35	30	26	54	49	44	40	35	32	59	54	49	43	39	37	60	56	50	44	40	38	600	
	800	53	46	42	36	31	27	58	54	48	43	38	33	61	58	51	45	42	41	63	59	53	47	43	43	800	
	1000	57	48	46	39	32	28	60	56	51	44	39	34	63	61	54	48	44	44	65	62	56	49	46	46	1000	
9	800	52	45	44	37	35	32	59	50	51	44	42	39	62	56	53	47	45	43	64	59	54	48	46	44	800	9
	1000	54	47	47	39	37	34	59	51	52	44	44	41	64	56	55	48	47	45	65	59	56	49	48	46	1000	
	1200	55	49	49	40	38	35	60	52	53	45	45	42	65	57	56	49	49	47	66	59	57	50	50	48	1200	
	1400	58	52	52	42	40	37	62	54	56	47	46	43	66	58	58	51	50	48	68	60	59	52	50	49	1400	
	1600	60	54	55	44	41	38	63	55	58	48	46	44	67	59	59	52	51	49	69	60	60	53	50	50	1600	
10	800	52	45	44	37	35	32	59	50	51	44	42	39	62	56	53	47	45	43	64	59	54	48	46	44	800	10
	1000	54	47	47	39	37	34	59	51	52	44	44	41	64	56	55	48	47	45	65	59	56	49	48	46	1000	
	1200	55	49	49	40	38	35	60	52	53	45	45	42	65	57	56	49	49	47	66	59	57	50	50	48	1200	
	1400	58	52	52	42	40	37	62	54	56	47	46	43	66	58	58	51	50	48	68	60	59	52	50	49	1400	
	1600	60	54	55	44	41	38	63	55	58	48	46	44	67	59	59	52	51	49	69	60	60	53	50	50	1600	
12	1200	50	43	43	37	35	29	55	48	45	41	39	36	61	53	49	46	42	42	62	55	51	47	44	43	1200	12
	1500	52	46	45	39	35	30	57	50	48	44	42	40	62	55	51	48	45	45	64	57	52	49	47	46	1500	
	1800	53	48	46	41	35	31	59	52	50	47	44	43	63	57	52	50	48	48	65	59	53	51	49	49	1800	
	2100	58	51	50	46	41	40	60	54	51	49	47	46	64	57	54	51	50	50	66	60	55	52	52	51	2100	
	2400	62	54	53	50	47	47	62	55	54	50	49	48	65	58	56	52	52	52	67	61	57	53	54	53	2400	
14	1600	53	43	42	35	32	28	59	51	47	44	38	37	62	54	51	47	45	43	64	56	52	47	46	45	1600	14
	2000	55	47	45	39	36	32	61	52	49	46	42	41	64	56	53	49	47	46	66	58	54	49	48	48	2000	
	2400	56	50	47	43	40	36	63	53	51	47	46	45	66	58	54	50	49	49	68	60	56	51	50	50	2400	
	2800	59	53	52	46	44	41	64	55	54	49	48	47	67	59	56	52	51	51	69	61	58	53	53	52	2800	
	3200	61	55	56	48	47	45	64	56	57	50	50	49	68	60	58	53	53	52	70	62	59	54	55	54	3200	

Notes:

1. All sound data are measured in accordance with industry standard ARI-880
2. Sound power levels are in decibels, re 10-12 watts