



TABLE 78: 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		
		1 ROW	2 ROW	4 ROW	NC	NC	NC	NC	NC	NC	NC	NC		
5	100	0.51	0.52	0.54	<20	<20	<20	<20	<20	<20	<20	<20	100	5
	200	0.54	0.57	0.64	<20	<20	<20	<20	<20	<20	<20	21	200	
	300	0.58	0.64	0.78	<20	<20	<20	<20	<20	<20	20	22	300	
	400	0.63	0.73	0.94	<20	<20	<20	<20	<20	<20	22	25	400	
6	300	0.58	0.64	0.78	<20	<20	<20	<20	<20	<20	20	22	300	6
	400	0.63	0.73	0.94	<20	<20	<20	<20	<20	<20	22	25	400	
	500	0.69	0.83	1.14	<20	<20	<20	20	<20	20	25	27	500	
	600	0.75	0.94	1.36	<20	<20	<20	23	22	23	26	28	600	
7	500	0.58	0.64	0.78	<20	<20	<20	<20	<20	<20	<20	21	500	7
	600	0.61	0.69	0.87	<20	<20	<20	<20	<20	<20	20	24	600	
	800	0.67	0.80	1.10	<20	<20	<20	20	<20	<20	25	27	800	
	1000	0.75	0.94	1.36	<20	<20	23	25	21	22	27	31	1000	
8	500	0.58	0.64	0.78	<20	<20	<20	<20	<20	<20	<20	21	500	8
	600	0.61	0.69	0.87	<20	<20	<20	<20	<20	<20	20	24	600	
	800	0.67	0.80	1.10	<20	<20	<20	<20	<20	<20	25	27	800	
	1000	0.75	0.94	1.36	<20	<20	21	24	21	22	27	31	1000	
9	800	0.57	0.62	0.73	<20	<20	<20	<20	20	21	27	28	800	9
	1000	0.60	0.67	0.83	<20	<20	<20	20	22	24	28	30	1000	
	1200	0.63	0.73	0.94	<20	<20	20	24	25	26	30	31	1200	
	1600	0.71	0.86	1.21	<20	20	25	29	30	31	33	34	1600	
10	800	0.57	0.62	0.73	<20	<20	<20	<20	20	21	27	28	800	10
	1000	0.60	0.67	0.83	<20	<20	<20	20	22	24	28	30	1000	
	1200	0.63	0.73	0.94	<20	<20	20	24	25	26	30	31	1200	
	1600	0.71	0.86	1.21	<20	20	25	29	30	31	33	34	1600	
12	1200	0.56	0.60	0.70	<20	<20	<20	<20	<20	<20	21	24	1200	12
	1500	0.58	0.65	0.79	<20	<20	<20	21	<20	20	24	26	1500	
	1800	0.61	0.70	0.89	<20	<20	21	24	21	22	26	27	1800	
	2100	0.64	0.75	1.00	<20	<20	23	25	25	26	27	29	2100	
	2400	0.68	0.82	1.12	<20	<20	24	26	28	28	28	30	2400	
14	1600	0.59	0.66	0.82	<20	<20	<20	<20	<20	<20	24	26	1600	14
	2000	0.63	0.73	0.96	<20	<20	<20	<20	20	21	26	28	2000	
	2400	0.68	0.82	1.12	<20	<20	<20	21	22	24	28	30	2400	
	3200	0.79	1.01	1.50	<20	20	24	25	31	31	32	33	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 79: DISCHARGE SOUND POWER LEVELS

SIZE	CFM	1.25" 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	2	3	4	5		
5	100	47	39	33	32	26	23	49	40	34	33	27	24	51	49	41	36	28	24	52	53	44	38	27	24	100	5				
	200	49	43	37	34	28	25	50	44	38	35	28	26	53	51	43	39	29	26	54	55	46	40	29	26	200					
	300	51	46	40	36	29	26	52	47	41	37	29	27	54	54	46	40	30	27	56	57	49	42	30	28	300					
	400	53	49	43	39	32	28	53	50	44	40	32	29	56	56	49	43	32	30	58	60	52	45	33	31	400					
6	300	51	46	40	36	29	26	52	47	41	37	29	27	54	54	46	40	30	27	56	57	49	42	30	28	300	6				
	400	53	49	43	39	32	29	53	51	44	40	32	29	56	56	49	43	32	30	58	60	52	45	33	31	400					
	500	55	54	46	41	33	30	55	54	47	42	33	30	58	59	51	45	33	32	60	62	54	47	34	33	500					
	600	57	56	49	43	34	31	57	57	50	44	34	31	60	61	54	47	35	33	62	64	58	49	37	35	600					
7	500	53	49	39	35	29	27	54	50	40	35	29	28	57	55	44	37	31	32	60	57	46	39	33	35	500	7				
	600	54	51	41	36	29	28	55	52	42	37	30	29	59	57	46	39	32	34	61	59	48	41	34	36	600					
	800	56	55	45	39	31	29	57	56	46	40	32	30	62	61	50	43	34	35	63	62	51	44	36	37	800					
	1000	59	57	49	43	34	32	60	58	50	44	35	33	64	64	53	46	37	37	66	66	55	47	39	39	1000					
8	500	53	49	39	35	29	27	54	50	40	35	29	28	57	55	44	37	31	32	60	57	46	39	33	35	500	8				
	600	54	51	41	36	29	28	55	52	42	37	30	29	59	57	46	39	32	34	61	59	48	41	34	36	600					
	800	56	55	45	39	31	29	57	56	46	40	32	30	62	61	50	43	34	35	63	62	51	44	36	37	800					
	1000	59	57	49	43	34	32	60	58	50	44	35	33	64	64	53	46	37	37	66	66	55	47	39	39	1000					
9	800	55	50	43	34	30	29	57	52	44	35	30	30	63	58	49	39	33	36	65	60	51	41	34	38	800	9				
	1000	57	54	47	38	35	32	59	55	48	39	35	33	65	61	52	42	37	38	67	63	54	44	38	40	1000					
	1200	59	57	50	42	39	35	61	58	51	43	39	36	67	63	54	45	41	40	69	66	56	47	42	42	1200					
	1400	63	60	55	46	44	39	64	61	56	47	44	40	69	65	58	49	45	43	71	68	59	50	46	45	1400					
	1600	65	62	59	49	48	42	66	63	59	50	48	43	70	67	60	52	49	46	72	70	61	53	50	47	1600					
10	800	55	50	43	34	30	29	57	52	44	35	30	30	63	58	49	39	33	36	65	60	51	41	34	38	800	10				
	1000	57	54	47	38	35	32	59	55	48	39	35	33	65	61	52	42	37	38	67	63	54	44	38	40	1000					
	1200	59	57	50	42	39	35	61	58	51	43	39	36	67	63	54	45	41	40	69	66	56	47	42	42	1200					
	1400	63	60	55	46	44	39	64	61	56	47	44	40	69	65	58	49	45	43	71	68	59	50	46	45	1400					
	1600	65	62	59	49	48	42	66	63	59	50	48	43	70	67	60	52	49	46	72	70	61	53	50	47	1600					
12	1200	55	52	45	33	30	32	57	53	46	34	31	34	63	59	50	38	36	41	66	62	53	41	39	44	1200	12				
	1500	58	55	48	36	33	35	60	56	49	37	34	36	65	62	53	41	38	42	67	64	55	43	41	45	1500					
	1800	61	57	50	39	36	37	62	58	51	40	37	38	67	64	55	43	40	43	69	66	57	45	42	45	1800					
	2100	62	59	53	43	39	38	63	60	54	43	40	39	68	65	57	46	42	44	70	67	59	48	44	46	2100					
	2400	63	60	56	46	42	39	64	62	56	46	42	40	69	66	58	49	43	45	71	68	60	51	46	47	2400					
14	1600	55	51	44	35	34	37	57	52	45	36	35	36	63	57	50	40	39	42	65	60	52	42	41	45	1600	14				
	2000	59	54	48	40	37	38	60	55	49	36	35	38	65	60	53	43	41	43	68	62	55	45	43	45	2000					
	2400	62	57	52	44	41	39	63	58	53	45	42	40	67	62	55	47	44	44	70	64	57	48	45	46	2400					
	2800	64	59	56	49	46	42	65	60	56	49	46	43	69	64	58	51	48	46	71	66	60	52	49	48	2800					
	3200	66	62	59	53	51	45	67	63	59	53	51	46	70	66	61	54	52	48	72	67	62	55	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 80: RADIATED SOUND POWER LEVELS

SIZE	CFM	1.25" 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	39	37	34	27	21	49	40	38	35	28	22	51	44	43	38	33	28	53	46	45	40	35	31	100	5
	200	51	42	39	36	29	25	51	43	40	37	30	26	53	47	45	40	35	30	55	49	47	42	37	33	200	
	300	53	44	41	37	32	27	53	45	42	38	33	28	55	49	46	42	37	32	57	51	48	44	39	35	300	
	400	55	47	43	39	34	29	56	48	44	40	35	30	58	52	48	44	39	34	59	53	50	46	41	37	400	
6	300	53	44	41	37	32	27	53	45	42	38	33	28	55	49	46	42	37	32	57	51	48	44	39	35	300	6
	400	55	47	43	39	34	29	56	48	44	40	35	30	58	52	48	44	39	34	59	53	50	46	41	37	400	
	500	57	50	45	41	37	32	58	51	46	42	38	33	60	55	50	46	41	37	61	56	52	48	43	39	500	
	600	59	53	47	43	39	34	60	54	48	44	40	35	62	57	51	47	43	38	63	58	53	49	45	40	600	
7	500	51	42	40	35	30	26	51	43	41	36	31	27	55	49	44	40	35	33	57	51	47	41	37	36	500	7
	600	52	44	41	36	31	28	53	45	42	37	32	29	56	51	46	41	37	34	59	54	49	43	39	37	600	
	800	54	48	44	38	33	30	55	50	45	39	34	33	59	56	49	44	40	39	61	58	51	45	42	41	800	
	1000	57	50	47	40	34	31	58	52	48	41	35	34	61	58	52	46	41	41	63	61	54	48	44	44	1000	
8	500	51	42	40	35	30	26	51	43	41	36	31	27	55	49	44	40	35	33	57	51	47	41	37	36	500	8
	600	52	44	41	36	31	28	53	45	42	37	32	29	56	51	46	41	37	34	59	54	49	43	39	37	600	
	800	54	48	44	38	33	30	55	50	45	39	34	33	59	56	49	44	40	39	61	58	51	45	42	41	800	
	1000	57	50	47	40	34	31	58	52	48	41	35	34	61	58	52	46	41	41	63	61	54	48	44	44	1000	
9	800	54	46	46	39	37	34	55	47	47	40	38	35	60	53	52	45	43	41	62	56	53	47	45	43	800	9
	1000	55	48	48	40	39	36	56	49	49	41	40	37	61	54	53	46	45	43	64	56	55	48	47	45	1000	
	1200	56	50	50	41	40	37	57	51	51	42	41	38	62	55	55	47	47	44	65	57	56	49	49	47	1200	
	1400	59	52	53	43	42	39	60	53	54	44	43	40	64	56	57	49	48	45	66	58	58	51	50	48	1400	
	1600	61	54	55	45	43	40	62	54	56	46	44	41	65	57	58	50	49	46	67	59	59	52	51	49	1600	
10	800	54	46	46	39	37	34	55	47	47	40	38	35	60	53	52	45	43	41	62	56	53	47	45	43	800	10
	1000	55	48	48	40	39	36	56	49	49	41	40	37	61	54	53	46	45	43	64	56	55	48	47	45	1000	
	1200	56	50	50	41	40	37	57	51	51	42	41	38	62	55	55	47	47	44	65	57	56	49	49	47	1200	
	1400	59	52	53	43	42	39	60	53	54	44	43	40	64	56	57	49	48	45	66	58	58	51	50	48	1400	
	1600	61	54	55	45	43	40	62	54	56	46	44	41	65	57	58	50	49	46	67	59	59	52	51	49	1600	
12	1200	51	44	43	38	36	31	52	45	44	39	37	32	58	50	47	43	40	39	61	53	49	46	42	42	1200	12
	1500	53	47	45	40	37	33	54	48	46	41	38	35	59	52	49	46	43	42	62	55	51	48	45	45	1500	
	1800	55	49	47	43	39	34	56	50	48	44	39	37	61	54	51	48	46	45	63	57	52	50	48	48	1800	
	2100	58	52	50	46	42	41	59	53	51	47	43	42	62	55	52	50	48	47	64	57	54	51	50	50	2100	
	2400	61	54	53	49	46	47	61	55	53	50	47	47	63	56	53	51	49	49	65	58	55	52	52	52	2400	
14	1600	55	45	43	37	32	30	56	47	44	39	35	32	60	52	49	45	42	40	62	54	51	47	45	43	1600	14
	2000	57	48	46	41	36	34	58	49	47	42	39	36	62	54	51	47	44	43	64	56	53	49	47	46	2000	
	2400	58	50	48	44	40	38	59	51	49	45	43	40	64	55	53	48	47	47	66	58	54	50	49	49	2400	
	2800	60	53	52	46	44	43	61	54	53	47	46	44	65	57	55	50	49	49	67	59	56	52	51	51	2800	
	3200	61	55	56	48	47	46	62	56	56	49	48	47	66	58	57	51	51	50	68	60	58	53	53	52	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

