

TABLE 28a: NC VALUES

Size	CFM	Discharge NC				Radiated NC				CFM	Size
		MIN ΔPs	.5" ΔPs	1.5" ΔPs	3.0 ΔPs	MIN ΔPs	.5" ΔPs	1.5" ΔPs	3.0 ΔPs		
A6	200	<20	<20	<20	<20	<20	<20	<20	24	200	A6
	300	<20	<20	<20	24	<20	<20	<20	26	300	
	400	<20	<20	23	30	<20	<20	21	29	400	
	500	<20	20	26	32	<20	<20	27	31	500	
B7	300	<20	<20	<20	23	<20	<20	<20	25	300	B7
	400	<20	<20	<20	26	<20	<20	<20	27	400	
	500	<20	<20	21	30	<20	<20	22	29	500	
	700	<20	<20	25	33	<20	20	29	33	700	
B8	400	<20	<20	<20	<20	<20	<20	<20	26	400	B8
	600	<20	<20	<20	20	<20	<20	21	28	600	
	800	<20	<20	<20	25	<20	<20	26	32	800	
	1000	<20	20	24	30	<20	22	30	36	1000	
C8	400	<20	<20	<20	20	<20	<20	<20	26	400	C8
	600	<20	<20	23	26	<20	<20	21	28	600	
	800	<20	20	27	31	<20	<20	26	32	800	
	1000	<20	24	32	34	<20	22	30	36	1000	
C10	700	<20	<20	<20	24	<20	<20	20	29	700	C10
	900	<20	<20	23	27	<20	<20	22	30	900	
	1100	<20	20	26	31	<20	<20	25	34	1100	
	1300	<20	23	30	34	<20	21	28	38	1300	
D10	700	<20	<20	<20	24	<20	<20	20	29	700	D10
	900	<20	<20	23	27	<20	<20	22	30	900	
	1100	<20	<20	26	31	<20	<20	25	34	1100	
	1300	<20	23	30	34	<20	21	28	38	1300	
D12	1000	<20	<20	<20	23	<20	<20	23	28	1000	D12
	1500	<20	<20	23	27	<20	21	28	33	1500	
	2000	<20	23	27	33	20	27	32	38	2000	
	2400	<20	26	31	39	24	30	36	43	2400	
E12	1000	<20	<20	<20	23	<20	<20	23	28	1000	E12
	1500	<20	<20	23	27	<20	21	28	33	1500	
	2000	<20	21	27	33	20	27	32	38	2000	
	2400	<20	26	31	39	24	30	36	43	2400	
E14	1500	<20	<20	21	27	<20	<20	30	33	1500	E14
	2000	<20	<20	25	30	<20	24	31	38	2000	
	2500	<20	20	29	34	22	29	35	43	2500	
	3000	<20	23	31	38	27	33	39	48	3000	
F14	1500	<20	<20	21	27	<20	<20	30	33	1500	F14
	2000	<20	<20	25	30	<20	24	31	38	2000	
	2500	<20	20	29	34	22	29	35	43	2500	
	3000	<20	23	31	38	27	33	39	48	3000	
F16	2500	<20	<20	25	31	<20	23	32	38	2500	F16
	3000	<20	<20	27	33	21	28	34	42	3000	
	3500	<20	21	30	37	25	31	37	45	3500	
	4000	<20	24	32	39	28	34	40	49	4000	

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 29a: DISCHARGE SOUND POWER LEVELS WITH INTEGRAL ATTENUATOR

Size	Air Flow Characteristics			MIN ΔPs							.5" ΔPs							1.5" ΔPs							3.0 ΔPs							CFM	Size
	CFM	Minimum Operating		Sound Power Levels, dB							Sound Power Levels, dB							Sound Power Levels, dB							Sound Power Levels, dB								
				Octave Band							Octave Band							Octave Band							Octave Band								
		ΔPs	ΔPt	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7						
A6	200	0.05	0.11	54	<20	<20	<20	<20	<20	54	47	42	35	<20	<20	57	57	50	42	30	<20	58	60	59	49	36	37	200	A6				
	300	0.11	0.24	55	48	40	36	30	<20	56	53	45	40	30	<20	62	61	55	46	35	32	63	65	62	51	39	39	300					
	400	0.2	0.43	56	54	48	42	35	30	58	58	48	45	37	30	66	64	59	50	40	37	67	70	64	54	42	42	400					
	500	0.32	0.66	60	60	54	48	41	35	61	62	56	49	42	35	68	67	63	54	45	41	70	72	66	57	47	45	500					
B7	300	0.05	0.12	51	<20	38	32	<20	<20	52	47	43	36	<20	<20	60	59	55	44	30	27	60	64	61	50	33	36	300	B7				
	400	0.08	0.21	52	45	41	35	<20	<20	54	51	48	40	30	<20	62	61	57	47	33	30	64	67	63	53	37	38	400					
	500	0.13	0.33	53	49	45	39	32	27	56	55	52	44	34	29	64	63	59	49	36	31	67	70	65	55	40	39	500					
	700	0.25	0.64	57	58	54	48	41	34	59	60	59	50	42	37	66	66	63	54	44	39	72	73	68	58	46	42	700					
B8	400	0.06	0.13	51	<20	36	32	<20	<20	53	48	43	35	30	<20	56	54	51	42	32	28	57	58	56	48	36	39	400	B8				
	600	0.13	0.28	53	49	45	41	35	29	55	54	50	44	36	29	61	59	56	47	37	33	63	64	60	51	41	41	600					
	800	0.23	0.5	57	56	53	49	42	36	58	59	57	50	42	36	64	63	60	52	43	39	68	68	64	55	45	44	800					
	1000	0.36	0.79	61	61	60	55	48	42	63	64	62	55	48	43	67	67	65	57	50	44	72	72	68	60	50	47	1000					
C8	400	0.03	0.11	52	44	36	<20	<20	<20	54	56	51	40	32	<20	56	62	57	47	39	37	58	64	61	51	44	44	400	C8				
	600	0.06	0.24	53	51	46	36	29	<20	55	60	57	47	40	34	61	66	63	53	45	42	62	69	65	57	50	47	600					
	800	0.11	0.42	55	57	53	43	38	32	59	64	61	52	46	40	65	70	67	58	51	46	67	73	68	61	55	50	800					
	1000	0.17	0.66	56	63	60	51	46	40	62	67	64	51	51	46	69	74	70	62	56	51	72	76	71	65	59	54	1000					
C10	700	0.06	0.15	50	49	44	34	<20	<20	52	57	56	47	39	33	59	63	61	52	47	45	64	67	65	57	51	51	700	C10				
	900	0.1	0.25	52	54	50	41	36	29	57	61	59	52	44	38	63	66	64	56	51	47	68	70	67	60	54	53	900					
	1100	0.14	0.37	54	58	55	47	41	35	60	64	62	56	49	43	67	69	67	60	55	50	70	73	70	63	57	55	1100					
	1300	0.2	0.51	55	62	59	52	47	42	62	66	64	58	52	47	68	72	69	63	57	53	73	76	72	66	60	57	1300					
D10	700	0.04	0.13	50	49	44	34	<20	<20	52	57	56	47	39	33	59	63	61	52	47	45	64	67	65	57	51	51	700	D10				
	900	0.06	0.22	52	52	47	38	31	27	56	60	57	49	42	36	62	66	64	56	51	48	67	70	68	60	54	53	900					
	1100	0.09	0.33	53	54	50	41	35	30	59	63	58	51	45	39	65	69	67	60	54	51	70	73	70	63	57	55	1100					
	1300	0.13	0.46	54	56	53	44	38	32	62	66	59	52	47	42	68	72	69	63	57	53	73	76	72	66	60	57	1300					
D12	1000	0.06	0.15	52	51	46	36	31	27	57	55	52	46	41	36	63	61	58	51	46	46	67	66	63	56	51	49	1000	D12				
	1500	0.15	0.34	55	56	51	42	36	31	62	61	58	52	47	43	68	66	63	57	52	50	73	70	68	60	56	54	1500					
	2000	0.26	0.61	56	58	55	47	41	35	67	66	64	59	53	50	72	70	68	61	56	55	77	75	72	64	60	58	2000					
	2400	0.37	0.88	58	61	59	52	46	39	70	69	67	60	56	53	75	73	71	64	59	58	80	80	74	68	62	60	2400					
E12	1000	0.06	0.15	52	51	46	36	31	27	57	55	52	46	41	36	63	61	58	51	46	46	67	66	63	56	51	49	1000	E12				
	1500	0.14	0.35	55	56	51	42	36	31	62	61	58	52	47	44	68	66	63	57	52	50	73	70	68	60	56	54	1500					
	2000	0.24	0.62	56	58	55	47	41	35	66	65	63	57	52	49	72	70	67	61	56	54	77	74	72	65	60	58	2000					
	2400	0.35	0.89	58	61	59	52	46	39	70	69	67	60	56	53	75	73	71	64	59	58	80	80	74	68	62	60	2400					
E14	1500	0.1	0.21	54	53	48	39	33	29	59	58	55	50	46	41	65	65	62	56	52	49	71	70	68	61	56	53	1500	E14				
	2000	0.18	0.37	56	56	52	43	37	32	62	61	56	53	49	45	69	68	66	60	56	53	75	72	70	63	58	57	2000					
	2500	0.28	0.58	57	59	56	47	41	35	66	64	63	57	52	48	72	71	69	63	59	56	78	76	73	67	62	60	2500					
	3000	0.4	0.83	59	62	60	53	47	40	68	66	67	60	56	52	75	73	72	66	61	59	81	79	76	70	65	63	3000					
F14	1500	0.07	0.18	54	53	48	39	33	29	59	58	55	50	46	41	65	65	62	56	52	49	71	70	68	61	56	53	1500	F14				
	2000	0.12	0.32	56	56	52	43	37	32	62	61	59	53	49	45	69	68	66	60	56	53	75	72	70	63	58	57	2000					
	2500	0.19	0.5	57	59	56	47	41	35	66	64	63	57	52	48	72	71	69	63	59	56	78	76	73	67	62	60	2500					
	3000	0.27	0.72	59	62	60	53	47	40	68	66	67	60	56	52	75	73	72	66	61	59	81	79	76	70	65	63	3000					
F16	2500	0.14	0.31	56	57	52	43	36	32	62	61	59	59	49	45	69	68	66	60	56	53	75	73	71	65	60	57	2500	F16				
	3000	0.2	0.45	57	58	55	47	40	34	65	63	62	56	51	48	72	70	69	63	59	56	78	75	73	67	62	60	3000					
	3500	0.27	0.61	58	60	57	49	43	37	67	65	65	59	54	51	74	72	71	65	61	58	80	78	75	69	64	62	3500					
	4000	0.35	0.8	60	63	61	54	48	41	69	67	68	61	57	53	76	74	73	67	62	60	82	80	77	71	66	64	4000					

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 30a: RADIATED SOUND POWER LEVELS WITH INTEGRAL ATTENUATOR

Size	Air Flow Characteristics			MIN ΔPs							.5" ΔPs							1.5" ΔPs							3.0 ΔPs							CFM	Size
	CFM	Minimum Operating		Sound Power Levels, dB							Sound Power Levels, dB							Sound Power Levels, dB							Sound Power Levels, dB								
				Octave Band							Octave Band							Octave Band							Octave Band								
		ΔPs	ΔPt	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7						
A6	200	0.05	0.11	<20	<20	<20	<20	<20	<20	50	<20	36	<20	<20	<20	51	45	41	34	<20	<20	53	50	49	40	34	31	200	A6				
	300	0.11	0.24	<20	<20	<20	<20	<20	<20	51	43	39	33	<20	<20	53	48	44	37	30	<20	60	53	51	42	36	33	300					
	400	0.2	0.43	<20	<20	36	<20	<20	<20	52	46	42	36	30	<20	56	51	47	39	33	33	61	56	54	46	39	35	400					
	500	0.32	0.66	<20	43	38	<20	<20	<20	52	48	44	38	32	<20	62	56	52	45	37	34	65	60	56	47	41	37	500					
B7	300	0.05	0.12	<20	<20	<20	<20	<20	<20	51	42	37	31	<20	<20	52	46	42	35	<20	<20	54	51	50	41	35	33	300	B7				
	400	0.08	0.21	<20	<20	<20	<20	<20	<20	52	44	40	34	<20	<20	55	49	45	38	31	<20	58	54	52	43	37	34	400					
	500	0.13	0.33	<20	<20	36	<20	<20	<20	52	46	42	36	30	<20	57	52	48	40	34	<20	61	56	54	45	39	35	500					
	700	0.25	0.64	<20	44	40	33	<20	<20	53	49	46	40	33	<20	64	58	54	47	39	34	67	62	58	49	42	38	700					
B8	400	0.06	0.13	<20	<20	<20	<20	<20	<20	52	43	38	32	<20	<20	53	47	43	36	30	<20	55	52	51	42	36	35	400	B8				
	600	0.13	0.28	<20	<20	<20	<20	<20	<20	52	45	41	35	<20	<20	56	51	47	39	33	<20	60	57	53	45	39	36	600					
	800	0.23	0.5	<20	43	39	32	<20	<20	54	48	45	39	32	<20	61	55	51	44	37	32	64	61	57	48	41	38	800					
	1000	0.36	0.79	50	46	42	35	<20	<20	55	51	48	42	35	<20	65	59	55	48	40	35	68	64	60	50	43	39	1000					
C8	400	0.03	0.11	<20	<20	<20	<20	<20	<20	52	43	38	32	<20	<20	53	47	43	36	30	<20	55	52	51	42	36	35	400	C8				
	600	0.06	0.24	<20	<20	<20	<20	<20	<20	53	45	41	35	<20	<20	56	51	47	39	33	<20	60	57	53	45	39	36	600					
	800	0.11	0.42	<20	43	39	32	<20	<20	54	48	45	39	32	<20	61	55	51	44	37	32	64	61	57	48	41	38	800					
	1000	0.17	0.66	50	46	42	35	<20	<20	55	51	48	42	35	<20	65	59	55	48	40	35	68	64	60	50	43	39	1000					
C10	700	0.06	0.15	<20	<20	<20	<20	<20	<20	51	43	40	33	<20	<20	56	50	46	40	35	32	62	58	54	46	39	35	700	C10				
	900	0.1	0.25	<20	<20	36	<20	<20	<20	52	45	42	35	<20	<20	58	52	48	42	37	33	66	60	55	48	41	37	900					
	1100	0.14	0.37	<20	<20	39	<20	<20	<20	53	47	45	38	32	<20	60	54	50	44	39	35	69	62	57	50	43	40	1100					
	1300	0.2	0.51	<20	44	41	34	<20	<20	54	49	47	41	35	<20	63	57	53	47	41	36	72	63	58	51	45	42	1300					
D10	700	0.04	0.13	<20	<20	<20	<20	<20	<20	51	43	40	33	<20	<20	56	50	46	40	35	32	62	58	54	46	39	35	700	D10				
	900	0.06	0.22	<20	<20	36	<20	<20	<20	52	45	42	35	<20	<20	58	52	48	42	37	33	66	60	55	48	41	37	900					
	1100	0.09	0.33	<20	<20	39	<20	<20	<20	53	47	45	38	32	<20	60	54	50	44	39	35	69	62	57	50	43	40	1100					
	1300	0.13	0.46	<20	44	41	34	<20	<20	54	49	47	41	35	<20	63	57	53	47	41	36	72	63	58	51	45	42	1300					
D12	1000	0.06	0.15	<20	<20	37	<20	<20	<20	52	46	43	38	<20	<20	57	54	48	42	36	<20	59	57	53	46	40	36	1000	D12				
	1500	0.15	0.34	50	46	41	35	<20	<20	55	51	47	42	35	27	63	58	53	46	42	34	66	63	57	49	44	39	1500					
	2000	0.26	0.61	54	50	46	38	35	<20	59	55	52	45	42	32	67	62	57	49	47	42	72	67	61	53	50	44	2000					
	2400	0.37	0.88	58	54	49	40	37	28	63	59	55	47	44	36	70	64	60	51	50	45	76	70	63	56	54	49	2400					
E12	1000	0.06	0.15	<20	<20	37	<20	<20	<20	52	46	43	38	<20	<20	57	54	48	42	36	<20	59	57	53	46	40	36	1000	E12				
	1500	0.14	0.35	50	46	41	35	<20	<20	55	51	47	42	35	27	63	58	53	46	42	34	66	63	57	49	44	39	1500					
	2000	0.24	0.62	54	50	46	38	35	<20	59	55	52	45	42	32	67	62	57	49	47	42	72	67	61	53	50	44	2000					
	2400	0.35	0.89	58	54	49	40	37	28	63	59	55	47	44	36	70	64	60	51	50	45	76	70	63	56	54	49	2400					
E14	1500	0.1	0.21	50	46	37	<20	<20	<20	55	51	43	38	<20	<20	62	60	53	43	38	29	68	63	58	49	42	39	1500	E14				
	2000	0.18	0.37	54	49	43	35	29	<20	59	55	49	42	36	28	66	61	56	47	44	35	72	66	60	52	48	43	2000					
	2500	0.28	0.58	56	52	48	38	32	<20	61	57	54	45	39	33	70	63	59	50	47	41	76	68	62	55	51	46	2500					
	3000	0.4	0.83	59	55	52	40	35	30	64	60	58	47	42	38	73	66	61	52	50	46	80	70	64	57	54	49	3000					
F14	1500	0.07	0.18	50	46	37	<20	<20	<20	55	51	43	38	<20	<20	62	60	53	43	38	29	68	63	58	49	42	39	1500	F14				
	2000	0.12	0.32	54	50	43	35	29	<20	59	55	49	42	36	28	66	61	56	47	44	35	72	66	60	52	48	43	2000					
	2500	0.19	0.5	56	52	48	38	32	<20	61	57	54	45	39	33	70	63	59	50	47	41	76	68	62	55	51	46	2500					
	3000	0.27	0.72	59	55	52	40	35	30	64	60	58	47	42	38	73	66	61	52	50	46	80	70	64	57	54	49	3000					
F16	2500	0.14	0.31	54	49	42	34	<20	<20	59	54	48	41	35	29	66	62	56	47	43	35	72	66	60	52	48	43	2500	F16				
	3000	0.2	0.45	57	52	47	37	33	<20	62	57	53	44	40	30	69	63	59	50	47	39	75	68	62	54	52	46	3000					
	3500	0.27	0.61	58	54	50	39	34	27	63	59	56	46	41	35	71	65	60	52	49	43	78	69	63	56	53	48	3500					
	4000	0.35	0.8	60	56	53	41	36	31	65	61	59	48	43	39	74	67	62	53	51	47	81	71	65	58	55	50	4000					

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