

Table 28b: NC Values

Inlet Size	Airflow (CFM)	Radiated Noise Criteria (NC)				Discharge Noise Criteria (NC)			
		ΔPs (in w.g.)				ΔPs (in w.g.)			
		0.5	1.0	2.0	3.0	0.5	1.0	2.0	3.0
A5	125	---	---	---	---	---	---	---	---
	175	---	---	21	23	---	---	---	---
	250	---	---	25	27	---	---	21	24
	300	---	21	26	30	---	---	24	26
	350	---	24	29	33	---	20	25	27
A6	200	---	---	20	22	---	---	---	---
	250	---	---	22	25	---	---	22	22
	300	---	---	24	27	---	20	26	27
	350	---	---	25	30	---	21	27	31
	400	---	---	26	31	---	23	29	34
	500	---	22	27	32	---	25	32	36
B7	250	---	---	22	23	---	---	---	---
	300	---	24	24	26	---	---	21	21
	400	---	25	32	31	---	20	26	27
	500	---	26	36	37	---	21	29	31
	600	20	27	37	40	---	22	30	34
	675	21	29	38	41	---	24	31	35
B8	350	---	---	24	24	---	---	24	24
	475	---	---	30	30	---	---	26	30
	600	---	20	31	35	---	20	30	35
	700	---	21	32	36	---	22	31	36
	800	---	22	34	37	---	22	32	37
	900	21	24	35	38	---	24	34	38
C9	450	---	20	27	34	---	---	22	24
	525	---	21	29	37	---	---	25	26
	600	---	22	30	38	---	---	26	27
	700	---	24	31	39	---	---	27	31
	900	22	25	32	40	---	20	29	32
	1100	24	26	34	41	---	21	30	35
C10	550	---	---	26	31	---	---	26	31
	675	---	20	27	32	---	---	27	32
	800	---	21	29	34	---	20	29	34
	1000	---	22	30	35	---	21	30	35
	1200	20	24	31	36	20	24	31	36
	1400	23	26	32	37	21	25	32	37
D12	800	---	---	29	32	---	---	26	31
	1000	---	---	30	33	---	---	27	32
	1200	---	20	31	34	---	---	29	34
	1400	---	21	32	35	---	20	30	35
	1700	---	24	34	36	---	21	31	36
	2000	23	26	35	37	---	24	32	37
E14	1050	---	20	30	32	---	---	26	31
	1400	---	21	31	35	---	---	27	32
	1800	---	22	32	36	---	20	29	34
	2200	---	24	34	37	---	21	30	35
	2600	22	26	35	38	---	24	31	36
	3000	25	29	35	39	21	26	32	37
F16	1400	---	21	31	35	---	---	26	31
	1900	---	22	32	35	---	---	27	32
	2400	---	24	34	36	---	20	29	34
	2900	20	26	35	38	---	22	30	35
	3500	24	29	36	39	20	25	31	36
	4100	27	31	37	40	24	28	34	38

Table 2: ARI Attenuation Table

	Octave Band							
	2	3	4	5	6	7		
Radiated	2	1	0	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
	Octave Band							
	2	3	4	5	6	7		
Discharge	2	1	0	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
	Octave Band							
	2	3	4	5	6	7		
Discharge	2	1	0	0	0	0	0	Environmental Effect
Sizes 5-7	2	3	9	18	17	12		5 ft., Duct Lining (15x15)
8-24x16	9	5	2	0	0	0		End Reflection
(>700 cfm)	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 as shown in table 2
 2. Where no NC value is shown (---), NC values are less than 20

Table 29b: Discharge Sound Power Data (dB)

Inlet Size	Airflow (CFM)	0.5" ΔPs						1.0" ΔPs						2.0" ΔPs						3.0" ΔPs					
		Sound Power Levels, dB						Sound Power Levels, dB						Sound Power Levels, dB						Sound Power Levels, dB					
		Octave Band						Octave Band						Octave Band						Octave Band					
		2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
A5	125	49	48	43	41	37	33	51	52	49	46	44	42	51	53	53	51	52	50	51	54	55	53	55	55
	175	51	52	46	43	39	35	54	56	51	49	46	43	56	60	57	54	53	51	56	60	59	57	56	56
	250	54	55	50	47	42	38	57	59	54	51	48	45	61	63	60	57	54	52	61	65	63	61	58	57
	300	55	56	52	49	45	41	58	61	57	53	49	46	63	65	62	59	55	53	64	67	65	62	59	58
	350	56	57	54	53	49	45	61	62	59	55	51	48	64	66	64	60	56	55	66	68	67	63	60	59
A6	200	51	52	46	46	42	36	55	58	53	51	48	44	56	59	59	56	54	52	56	60	60	59	57	56
	250	52	54	48	47	43	39	57	61	54	53	50	46	60	64	62	59	56	53	60	64	63	62	59	57
	300	53	56	50	49	44	40	58	62	55	54	51	47	61	67	63	60	58	54	62	68	66	64	61	58
	350	55	58	52	51	45	41	59	63	56	55	52	48	63	68	64	62	59	55	64	71	68	66	63	59
	400	57	60	55	53	46	43	60	64	58	57	53	49	64	69	65	63	60	56	65	73	70	67	64	60
	500	60	62	58	58	48	46	63	66	62	60	54	51	67	72	67	65	61	57	68	75	71	68	66	61
B7	250	51	52	46	45	41	38	54	57	53	50	48	46	56	60	60	56	54	53	57	60	61	60	58	57
	300	52	53	47	46	42	39	56	59	54	51	49	47	59	63	61	58	55	54	59	63	63	61	59	58
	400	53	56	49	49	43	41	57	62	55	54	50	49	61	67	63	60	57	56	62	68	66	64	61	60
	500	54	58	52	52	45	43	58	63	56	55	51	50	62	69	64	62	58	57	64	71	68	66	62	61
	600	56	59	55	55	47	45	59	64	59	58	52	51	64	70	65	63	59	58	66	73	69	67	63	61
	675	59	61	58	58	48	46	61	65	62	60	54	52	65	71	66	64	60	58	67	74	70	68	64	63
B8	350	53	53	47	47	45	40	58	61	55	54	51	47	59	66	62	61	58	55	60	66	66	65	62	58
	475	54	55	49	49	46	41	59	62	56	55	53	48	63	68	63	62	59	56	64	71	68	67	63	59
	600	55	57	51	52	48	43	60	63	57	57	54	49	64	71	64	63	60	57	65	75	70	68	65	60
	700	56	59	53	54	49	44	61	64	58	58	55	50	65	72	65	64	61	58	66	76	71	69	66	61
	800	58	61	56	57	50	46	62	65	60	60	56	51	66	73	66	65	62	58	68	77	72	70	67	62
	900	60	62	59	59	52	48	63	66	61	61	57	52	67	74	67	66	63	59	69	78	73	71	68	63
C9	450	52	50	46	46	44	40	58	59	52	51	50	48	62	65	60	58	56	55	63	66	65	63	60	59
	525	53	51	47	47	45	41	59	60	53	52	51	49	63	67	61	59	57	56	65	68	66	64	61	60
	600	54	53	48	48	47	42	60	61	54	53	52	50	65	68	62	60	58	57	66	69	67	65	62	61
	700	55	55	49	49	48	43	61	62	55	54	53	51	66	69	63	61	59	58	67	72	68	66	63	62
	900	56	57	51	51	49	44	62	63	56	56	54	52	67	70	64	62	60	59	69	73	69	67	64	63
	1100	60	60	57	57	50	47	63	64	59	59	55	53	68	71	65	64	62	60	71	75	70	68	66	65
C10	550	51	53	48	48	46	41	56	61	55	54	53	50	61	68	64	62	60	57	62	72	68	66	64	61
	675	52	54	49	49	47	42	57	62	56	55	54	51	63	69	65	63	61	58	64	73	69	67	65	62
	800	54	56	51	50	48	43	58	63	57	57	55	52	64	70	66	64	62	59	65	74	70	68	66	63
	1000	55	60	53	53	50	46	59	64	58	58	56	53	65	71	67	65	63	60	67	75	71	69	67	64
	1200	57	63	56	56	52	49	60	66	60	60	57	54	66	72	68	66	64	61	68	76	72	70	68	65
	1400	59	64	59	59	53	51	62	67	62	62	59	55	67	73	69	67	65	62	69	77	72	71	69	66
D12	800	54	53	49	48	47	41	60	59	56	55	53	50	67	68	67	62	61	57	68	72	69	67	65	62
	1000	55	54	51	49	48	43	61	60	57	56	54	51	68	69	68	63	62	58	70	73	70	68	66	63
	1200	56	56	53	51	49	44	62	62	58	57	55	52	69	70	69	64	63	59	71	74	71	69	67	64
	1400	57	58	55	53	50	46	63	63	59	58	56	53	70	71	70	65	64	60	72	75	72	70	68	64
	1700	59	60	58	56	52	48	64	64	61	60	58	54	71	72	71	66	65	61	73	76	73	71	69	65
	2000	62	62	61	58	54	51	66	66	64	62	59	56	72	73	72	67	66	62	74	77	74	72	70	66
E14	1050	54	52	50	50	49	46	62	61	57	56	55	54	67	68	65	63	61	59	68	72	69	67	66	63
	1400	56	54	52	51	50	47	63	62	58	57	56	55	68	69	66	64	62	60	72	73	70	68	67	64
	1800	59	56	55	54	51	48	64	63	60	58	57	56	69	70	67	65	63	61	72	74	71	69	68	65
	2200	61	59	57	55	52	49	65	64	61	60	58	57	70	71	68	66	64	62	73	75	72	70	69	66
	2600	63	61	61	57	55	51	67	66	63	61	59	57	72	72	69	67	66	64	74	76	73	71	70	67
	3000	65	64	64	60	57	54	69	68	66	62	61	58	73	73	70	68	67	65	76	77	74	72	71	68
F16	1400	56	52	51	51	49	45	62	60	57	55	56	54	69	68	65	62	61	60	70	72	70	66	65	64
	1900	58	54	53	53	50	46	64	61	58	57	57	55	70	69	66	63	62	61	72	73	71	67	66	65
	2400	61	57	55	54	52	48	65	63	60	59	58	56	71	70	67	64	63	62	74	74	72	68	67	66
	2900	64	60	58	56	53	50	68	65	62	60	59	57	73	71	68	66	65	63	76	75	73	69	68	67
	3500	68	63	62	59	56	53	71	67	65	62	61	58	75	72	70	67	66	64	78	76	74	70	70	68
	4100	70	66	67	61	58	55	73	69	68	64	62	59	77	74	72	68	68	65	79	78	75	72	71	69

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 30b: Radiated Sound Power Data (dB)

Inlet Size	Airflow (CFM)	0.5" ΔPs						1.0" ΔPs						2.0" ΔPs						3.0" ΔPs					
		Sound Power Levels, dB						Sound Power Levels, dB						Sound Power Levels, dB						Sound Power Levels, dB					
		Octave Band						Octave Band						Octave Band						Octave Band					
		2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
A5	125	46	41	33	30	27	24	51	43	39	34	33	27	50	46	43	39	38	33	50	47	44	42	42	37
	175	49	44	35	31	28	25	52	48	41	37	35	28	54	51	47	42	40	34	54	52	49	45	44	38
	250	52	47	39	33	30	26	55	51	44	38	36	29	58	56	50	45	43	35	58	58	53	48	46	39
	300	53	49	41	35	32	27	56	53	46	40	37	30	60	57	52	46	44	36	60	60	55	50	48	40
	350	54	50	44	37	34	32	58	55	48	41	39	34	62	58	54	47	45	38	62	61	58	51	49	41
A6	200	49	42	35	29	28	27	52	47	40	34	34	31	52	49	46	39	40	37	53	50	48	42	43	40
	250	50	43	36	30	30	28	53	48	41	35	35	32	55	53	48	41	41	38	55	53	51	44	44	41
	300	51	44	37	31	31	29	54	49	42	36	36	33	57	55	49	42	42	39	57	56	53	46	45	42
	350	52	45	39	32	32	30	55	50	43	37	37	34	58	56	50	43	43	40	59	59	55	48	46	43
	400	53	46	41	34	33	31	56	51	44	38	38	35	60	57	51	44	44	41	60	61	56	49	47	44
	500	56	50	45	38	37	35	58	53	48	40	40	38	62	58	53	46	45	42	63	62	57	50	49	45
B7	250	50	46	38	33	30	26	52	51	44	39	36	31	52	52	48	43	41	36	52	53	49	46	44	41
	300	51	47	39	35	31	27	53	55	46	40	37	32	53	55	50	45	43	38	54	56	52	48	45	42
	400	52	48	40	36	33	28	56	56	48	42	39	33	56	62	54	49	45	40	57	61	56	51	48	43
	500	55	49	42	38	34	30	57	57	49	43	40	34	59	65	58	52	47	41	59	66	60	55	50	45
	600	58	50	45	40	36	31	60	58	50	44	41	35	61	66	59	53	48	42	61	69	63	58	52	46
	675	59	51	47	42	38	32	61	59	51	45	42	36	64	67	60	54	49	43	63	70	65	60	53	47
B8	350	49	44	36	31	29	29	53	50	43	38	36	34	54	55	50	45	43	40	55	55	52	48	47	44
	475	50	45	37	33	32	30	54	51	44	39	37	35	56	60	51	46	44	41	57	60	56	51	48	44
	600	51	46	39	35	33	31	55	52	45	40	38	36	58	61	52	47	45	41	59	64	58	52	49	45
	700	53	47	41	37	36	32	56	53	46	41	39	37	60	62	53	48	45	42	60	65	59	53	50	46
	800	54	49	44	40	38	33	57	54	47	43	41	38	61	63	54	49	46	43	62	66	60	54	50	47
	900	56	50	47	43	40	35	59	55	49	45	43	39	63	64	55	50	47	44	63	67	61	55	51	47
C9	450	47	44	37	33	31	26	51	52	43	38	36	31	55	58	51	45	43	38	57	63	55	49	47	42
	525	48	45	38	34	32	27	52	53	44	39	37	32	57	59	52	46	44	39	58	66	57	50	48	43
	600	49	46	39	35	33	28	53	54	45	40	38	33	58	60	53	47	45	40	59	67	58	51	49	44
	700	53	49	41	36	34	29	54	55	46	41	39	34	59	61	54	48	46	41	60	68	59	52	50	45
	900	55	54	45	39	36	31	55	56	48	43	40	35	60	62	55	49	47	42	61	69	60	53	51	46
	1100	56	55	48	42	38	33	56	57	50	44	41	36	61	63	56	50	48	44	63	70	61	54	52	47
C10	550	49	43	38	34	33	28	52	51	43	40	39	35	54	57	50	46	45	40	55	61	53	51	48	43
	675	50	44	40	36	34	29	53	52	44	41	40	36	56	58	51	47	46	41	56	62	54	51	49	44
	800	51	46	41	37	35	30	54	53	45	42	41	37	57	59	52	48	47	42	58	63	55	52	50	45
	1000	52	48	44	39	37	31	55	54	47	43	42	38	59	60	53	49	48	43	60	64	56	53	51	46
	1200	55	51	46	41	39	34	57	55	49	45	43	39	61	61	54	50	49	44	62	65	57	53	52	47
	1400	57	53	49	44	41	36	59	56	52	48	46	40	63	62	55	51	50	45	64	66	58	54	53	48
D12	800	51	44	37	34	33	27	56	50	43	39	39	33	60	59	51	46	44	39	60	60	57	50	48	43
	1000	52	45	38	35	34	29	57	51	44	40	40	34	62	60	52	47	45	40	62	62	58	51	49	44
	1200	53	47	40	37	35	30	58	52	45	41	41	35	63	61	53	48	46	41	64	63	59	52	50	45
	1400	54	48	42	39	36	31	59	53	46	43	42	36	64	62	54	49	47	42	66	64	59	53	51	46
	1700	56	51	45	42	39	32	60	55	48	45	43	37	65	63	55	50	48	43	68	65	60	54	52	47
	2000	58	53	49	45	42	35	62	57	51	47	45	38	67	64	56	51	49	44	69	66	60	55	53	48
E14	1050	51	44	36	35	34	30	57	52	42	39	39	36	61	60	51	47	45	42	61	63	55	50	49	45
	1400	52	45	39	36	36	31	58	53	43	40	40	37	63	61	52	48	46	43	64	64	56	51	50	46
	1800	54	48	41	38	37	32	59	54	45	43	42	38	64	62	53	49	47	44	66	65	57	52	51	47
	2200	56	51	45	41	39	35	60	55	47	44	44	39	65	63	54	50	49	45	67	66	58	53	52	48
	2600	59	54	48	44	42	37	62	57	50	46	45	41	66	64	55	51	50	46	69	67	59	54	53	49
	3000	61	56	51	47	45	40	64	59	53	49	47	43	68	64	56	52	52	47	70	68	60	55	54	50
F16	1400	50	45	38	36	37	32	57	53	44	41	40	37	61	61	51	48	46	42	63	64	55	51	50	46
	1900	52	47	40	38	38	33	58	54	45	42	41	38	64	62	52	49	47	43	65	64	56	52	51	47
	2400	55	50	43	41	40	36	60	55	46	45	44	39	65	63	53	50	48	44	67	65	57	53	52	48
	2900	58	52	45	43	41	38	62	57	48	46	46	41	67	64	54	51	50	46	69	67	58	54	53	49
	3500	61	55	48	45	43	40	64	59	51	48	47	42	68	65	55	52	51	47	70	68	59	55	54	50
	4100	64	58	52	48	45	42	66	61	54	50	49	44	69	66	56	53	52	48	71	69	60	56	55	51

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