

ENGINEERING DATA

BPS

0.5" Inlet Static Pressure

Inlet Size	Max CFM	Min. Op. Pressure (in. wc)	DISCHARGE							RADIATED						
			Octave Bands						NC Levels	Octave Bands						NC Levels
			2	3	4	5	6	7		2	3	4	5	6	7	
6	200	0.004	34	31	29	23	18	-	-	48	41	37	37	30	20	-
	300	0.009	46	42	39	35	30	23	-	59	52	49	49	43	34	23
	400	0.016	54	51	47	43	39	33	-	67	60	57	57	52	44	32
	500	0.025	61	57	53	49	45	41	-	73	67	63	64	59	51	39
8	300	0.003	31	28	25	20	16	-	-	44	36	32	30	24	14	-
	500	0.008	46	42	38	35	31	26	-	58	50	47	45	40	31	21
	700	0.016	55	51	47	44	41	37	-	67	60	56	55	50	42	31
	900	0.026	63	58	54	52	48	45	-	74	67	64	62	58	51	40
10	500	0.003	34	31	27	24	20	13	-	46	37	34	31	25	16	-
	700	0.006	44	40	36	34	30	25	-	55	47	43	41	36	27	-
	1000	0.013	54	50	46	44	41	37	-	65	57	54	51	47	39	28
	1300	0.021	62	57	53	51	48	46	-	72	64	61	59	55	48	38
12	800	0.004	38	34	30	29	25	19	-	43	34	30	27	21	11	-
	1200	0.009	50	45	41	40	37	34	-	57	49	45	42	38	29	-
	1600	0.016	58	53	49	48	46	44	-	68	60	56	53	50	41	32
	2000	0.025	65	59	55	54	52	52	21	76	68	65	61	59	51	42
14	1000	0.003	36	32	28	27	24	19	-	47	37	34	30	25	16	-
	1500	0.008	48	43	39	39	36	33	-	58	49	46	41	38	29	-
	2000	0.013	57	52	47	47	45	43	-	66	57	54	50	47	39	30
	2500	0.021	63	58	53	53	51	51	-	72	63	61	56	54	46	38
16	1200	0.003	35	31	26	26	23	18	-	45	35	32	26	22	12	-
	1800	0.006	47	42	37	37	35	32	-	56	46	43	38	34	26	-
	2700	0.014	58	53	48	49	47	46	-	67	58	55	50	47	40	31
	3600	0.025	67	61	56	57	56	56	24	75	66	63	58	56	49	41
18	1600	0.003	37	33	28	28	26	21	-	38	36	33	27	23	14	-
	2400	0.007	49	44	39	40	38	35	-	53	48	45	39	36	28	-
	3200	0.013	57	52	47	48	46	46	-	64	56	53	47	45	37	27
	4400	0.024	66	60	55	57	56	57	23	76	65	62	57	55	48	43

Notes:

1. A hyphen (-) indicates the NC is lower than 20.
2. Noise Criteria (NC) were found using ARI Standard 885-98 Appendix E (2002 Addendum):
 - a. Radiated NC were found using the type 3 ceiling (gypsum board) condition.
 - b. Discharge NC were found using the large terminal condition due to the multitude of possible discharge duct sizes.
3. ARI Standard 885-98 Appendix E, Table E1. Typical Sound Attenuation Values, dB.
4. Test were conducted in accordance with ARI Standard 880-98.



DISCHARGE							RADIATED								
OCTAVE BAND CENTER FREQUENCY (Hz)							OCTAVE BAND CENTER FREQUENCY (Hz)								
Discharge	125	250	600	1000	2000	4000	RADIATED			125	250	500	1000	2000	4000
Small Terminal	22	24	36	54	60	37	Type 1 - Glass Fiber	19	19	21	25	29	35		
Medium Terminal	25	26	37	53	56	38	Type 2 - Mineral Fiber	18	19	20	26	31	36		
Large Terminal	27	28	38	52	54	39	Type 3 - Gypsum Board	23	26	25	27	27	28		