



**AIR ZONE INDUSTRIES, INC.**

Series: **RFR**  
Discharge Sound Power Data

**PERFORMANCE DATA**

Air Flow Characteristics			$\Delta P_s = \text{MIN}$						$\Delta P_s = \text{Min.} + 0.50''$						$\Delta P_s = \text{Min.} + 1.50''$						$\Delta P_s = \text{Min.} + 3.00''$									
S I Z E	C F M	M I N $\Delta P_s$	Sound Power Level (db)						N C	Sound Power Level (db)						N C	Sound Power Level (db)						N C							
			Octave Band (Hz)							Octave Band (Hz)							Octave Band (Hz)													
			125	250	500	1000	2000	4000	125	250	500	1000	2000	4000	125	250	500	1000	2000	4000	125	250	500	1000	2000	4000				
5"	75	.01	34	-	-	-	-	<20	54	43	39	38	33	31	<20	55	53	50	47	45	45	<20	59	56	53	50	51	49	<20	
	150	.03	37	26	22	21	-	<20	59	46	41	39	34	32	<20	64	64	57	51	46	46	<20	64	67	65	57	54	53	<20	
	300	.09	54	45	40	41	32	28	<20	81	53	52	49	41	37	<20	73	68	62	57	50	50	<20	75	75	70	64	57	56	<20
	400	.19	63	52	47	46	38	33	<20	86	58	56	53	44	40	<20	75	70	64	60	53	51	<20	78	76	71	66	59	57	<20
6"	100	.01	36	-	-	-	-	<20	57	50	42	39	37	37	<20	64	62	57	52	50	50	<20	66	67	63	58	56	56	<20	
	200	.03	39	27	24	23	-	<20	59	50	46	43	39	39	<20	75	69	61	53	50	51	<20	77	76	74	63	59	58	22	
	400	.09	55	46	41	42	32	29	<20	84	57	54	51	44	42	<20	79	70	62	57	53	54	<20	84	80	73	63	59	59	25
	500	.20	64	53	48	47	38	34	<20	87	60	56	53	45	43	<20	78	69	62	59	53	54	<20	86	80	72	65	60	60	26
7"	150	.01	37	25	24	-	-	<20	56	46	41	38	36	36	<20	64	61	56	50	49	49	<20	65	65	62	58	57	54	<20	
	300	.03	43	36	32	30	22	-	<20	58	49	46	42	38	38	<20	74	68	60	52	50	50	<20	76	71	72	61	58	57	<20
	600	.08	56	48	46	43	36	31	<20	83	57	53	50	44	41	<20	77	69	61	55	52	53	<20	82	75	73	62	59	58	21
	800	.14	64	55	53	50	44	39	<20	85	59	55	53	45	42	<20	78	69	62	58	53	53	<20	85	78	72	64	60	59	25
8"	200	.01	36	28	25	-	-	<20	57	50	42	39	37	37	<20	64	62	57	52	50	50	<20	66	67	63	58	56	56	<20	
	500	.03	44	37	34	31	23	-	<20	59	50	46	43	39	39	<20	75	69	61	53	50	51	<20	77	76	74	63	59	58	22
	800	.09	56	50	47	45	37	32	<20	84	57	54	51	44	42	<20	79	70	62	57	53	54	<20	84	80	73	63	59	59	25
	1000	.13	65	57	54	51	45	40	<20	87	60	56	53	45	43	<20	78	69	62	59	53	54	<20	86	80	72	65	60	60	26
10"	400	.01	40	31	27	-	-	<20	56	49	45	40	37	38	<20	69	71	63	55	51	52	<20	70	76	74	66	60	59	20	
	800	.01	54	48	46	39	35	27	<20	62	56	51	46	41	41	<20	73	69	62	57	53	54	<20	76	80	76	67	61	60	25
	1000	.02	60	54	52	45	40	36	<20	84	58	53	46	42	42	<20	75	69	63	58	54	54	<20	78	79	73	66	61	61	24
	1200	.06	65	58	56	50	45	42	<20	87	62	56	51	45	44	<20	77	70	64	60	55	55	<20	80	78	73	67	62	61	23
12"	800	.01	43	38	37	27	23	-	<20	58	52	49	42	38	39	<20	69	66	64	57	52	54	<20	73	75	73	66	60	59	<20
	1200	.01	52	48	47	38	35	30	<20	63	57	53	47	43	42	<20	71	67	65	58	53	55	<20	76	75	73	68	62	61	<20
	1600	.02	57	53	55	45	42	41	<20	85	60	55	49	44	43	<20	74	69	66	59	54	56	<20	79	76	74	69	64	62	20
	2000	.04	63	57	55	50	47	45	<20	89	64	61	54	49	48	<20	76	71	68	61	55	57	<20	81	77	74	68	63	62	21
14"	1200	.01	46	41	40	30	26	-	<20	60	54	51	44	40	41	<20	69	66	64	57	52	54	<20	75	77	75	68	62	61	21
	1600	.01	52	48	48	38	35	32	<20	63	57	55	47	43	44	<20	71	67	65	58	53	55	<20	77	76	74	69	63	62	20
	2000	.02	57	53	55	45	42	41	<20	67	61	58	51	46	46	<20	74	69	66	59	51	56	<20	79	76	74	69	64	62	20
	2400	.03	62	57	61	50	48	48	<20	70	65	62	55	50	50	<20	76	71	68	61	55	57	<20	81	77	74	68	63	62	21
16"	1500	.01	45	40	39	29	25	-	<20	61	55	52	45	41	42	<20	70	67	65	58	53	55	<20	76	76	76	70	63	60	23
	2000	.01	52	48	48	38	35	32	<20	63	57	55	47	43	44	<20	71	67	65	58	53	55	<20	77	76	74	69	63	62	20
	2500	.02	58	54	53	46	43	42	<20	68	62	57	52	47	45	<20	75	70	65	60	55	54	<20	79	76	73	70	64	61	20
3000	.03	62	57	61	50	48	48	<20	70	65	62	55	50	50	<20	76	71	68	61	55	57	<20	81	77	74	68	63	62	21	

$\Delta P_s$  = Static Pressure

- = Background or <20

TABLE A - 5' Lined Discharge & 6' Flex Duct Absorption (db)

Band (Hz)	125	250	500	1000	2000	4000
Attenuation	9	17	36	46	43	27

TABLE C - Flow Division Absorption (db)

Unit Size (in)	5 & 6	7 & 8	10	12	14	16
Division (%)	50	40	30	20	15	10
Attenuation	3	4	5	7	8	10

TABLE B - End Reflection & Elbow-TEE Absorption (db)

Band (Hz)	125	250	500	1000	2000	4000
Attenuation	12	9	9	9	6	6

- NOTES: 1. Tested and certified in accordance with ADC/ARI standard 860.  
 2. All NC sound data is based upon 10 db room absorption plus applicable data in Table A.  
 3. The lowest CFM flows shown above only imply a range; all terminals are capable of shut-off. The minimum pressure independent control flow is dependent on the controller specified; below that minimum the airflow is pressure dependent to shut-off.