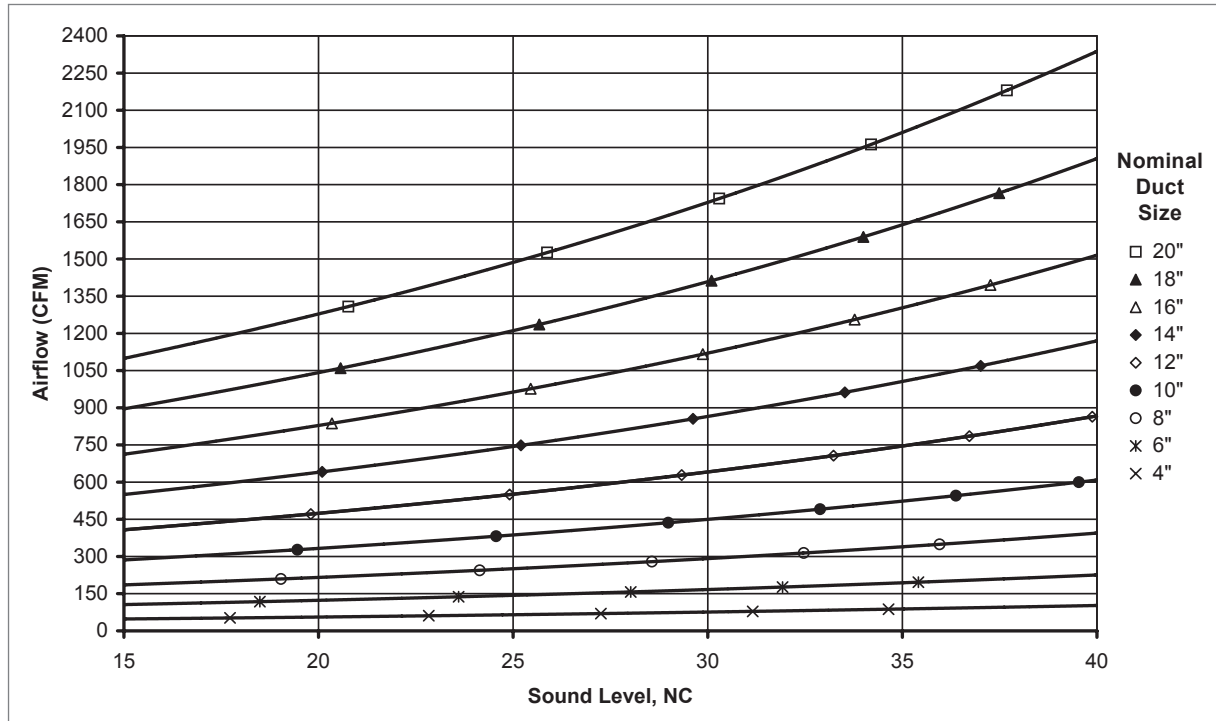


RPN Series Reference Chart

AIRFLOW VS. NC: RPN, RPNRD, RPNRR, RPN2P, RPN4P, RPNLP



RPN Series Performance Data

IP/METRIC DATA: RPN, RPNRD, RPNRR, RPN2P, RPN4P, RPNLP

Nominal Size	Nozzle Size	IP Data					NC	Metric Data					Octave Band, dB						
		Neck Vel*	Air Flow	Ps	Pt	Projection		Neck Vel	Air Flow	Ps	Pt	Projection							
		FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7	
4"	2"	300	26	0.06	0.06	5 - 8 - 11	-	1.5	12	14	16	1.6 - 2.3 - 3.3	15	15	13	-	-	-	
		400	35	0.10	0.11	6 - 9 - 12	-	2.0	16	26	28	1.9 - 2.7 - 3.8	22	21	21	13	12	14	
		500	44	0.16	0.18	7 - 10 - 14	12	2.5	21	40	44	2.1 - 3.0 - 4.2	28	26	28	21	18	19	
		600	52	0.23	0.25	8 - 11 - 15	18	3.0	25	58	63	2.3 - 3.3 - 4.6	32	30	33	28	23	23	
		700	61	0.32	0.35	8 - 12 - 16	23	3.6	29	79	86	2.5 - 3.5 - 5.0	36	34	38	33	27	26	
		800	70	0.41	0.45	9 - 12 - 18	27	4.1	33	103	113	2.7 - 3.8 - 5.3	39	37	42	38	30	28	
		900	78	0.52	0.57	9 - 13 - 19	31	4.6	37	130	143	2.8 - 4.0 - 5.7	42	39	45	42	34	31	
		1000	87	0.64	0.71	10 - 14 - 20	35	5.1	41	160	176	3.0 - 4.2 - 6.0	44	42	48	46	36	33	
6"	3"	1200	105	0.93	1.02	11 - 15 - 21	41	6.1	49	231	253	3.3 - 4.6 - 6.5	48	45	54	53	41	37	
		300	59	0.06	0.06	7 - 11 - 16	-	1.5	28	14	16	2.0 - 3.5 - 4.9	20	19	14	-	-	-	
		400	79	0.10	0.11	9 - 13 - 19	-	2.0	37	25	28	2.7 - 4.0 - 5.6	27	26	22	13	13	14	
		500	98	0.16	0.17	10 - 15 - 21	12	2.5	46	39	43	3.2 - 4.5 - 6.3	32	31	29	21	19	19	
		600	118	0.23	0.25	11 - 16 - 23	18	3.0	56	57	62	3.5 - 4.9 - 6.9	37	35	34	28	24	23	
		700	137	0.31	0.34	12 - 17 - 25	24	3.6	65	77	85	3.7 - 5.3 - 7.5	40	38	39	33	28	26	
		800	157	0.41	0.44	13 - 19 - 26	28	4.1	74	101	111	4.0 - 5.6 - 8.0	44	41	43	38	32	28	
		900	177	0.51	0.56	14 - 20 - 28	32	4.6	83	128	140	4.2 - 6.0 - 8.5	46	43	46	42	35	31	
8"	4 3/8"	1000	196	0.63	0.70	15 - 21 - 29	35	5.1	93	158	173	4.5 - 6.3 - 8.9	49	46	49	46	38	33	
		1200	236	0.91	1.00	16 - 23 - 32	41	6.1	111	227	249	4.9 - 6.9 - 9.8	53	50	55	53	42	37	
		300	105	0.06	0.06	8 - 15 - 21	-	1.5	49	14	15	2.5 - 4.6 - 6.5	24	22	15	-	-	-	
		400	140	0.10	0.11	11 - 18 - 25	-	2.0	66	25	27	3.4 - 5.3 - 7.5	31	29	23	13	14	14	
		500	175	0.15	0.17	14 - 20 - 28	13	2.5	82	38	42	4.2 - 6.0 - 8.4	36	34	30	21	20	19	
		600	209	0.22	0.24	15 - 21 - 30	19	3.0	99	55	61	4.6 - 6.5 - 9.2	40	38	35	27	25	23	
		700	244	0.30	0.33	16 - 23 - 33	24	3.6	115	75	83	5.0 - 7.0 - 10.0	44	41	40	33	29	26	
		800	279	0.39	0.43	18 - 25 - 35	29	4.1	132	98	108	5.3 - 7.5 - 10.7	47	44	44	38	32	29	
		900	314	0.50	0.55	19 - 26 - 37	32	4.6	148	124	137	5.6 - 8.0 - 11.3	50	46	47	42	36	31	
		1000	349	0.62	0.68	20 - 28 - 39	36	5.1	165	154	169	6.0 - 8.4 - 11.9	52	49	50	46	38	33	
		1200	419	0.89	0.98	21 - 30 - 43	42	6.1	198	221	243	6.5 - 9.2 - 13.0	57	53	56	53	43	37	

NOTE: See next page for notes.

RPN Series Performance Data

IP/METRIC DATA: RPN, RPNRD, RPNRR, RPN2P, RPN4P, RPNLP

		IP Data							Metric Data											
Nominal Size	Nozzle Size	Neck Vel*	Air Flow	Ps	Pt	Projection	NC	Neck Vel	Air Flow	Ps	Pt	Projection	Octave Band, dB							
		FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7		
10"	5 3/4"	300	164	0.05	0.06	10 - 19 - 27	-	1.5	77	13	15	3.1 - 5.8 - 8.2	26	25	15	-	-	-		
		400	218	0.10	0.11	13 - 22 - 31	-	2.0	103	24	26	4.1 - 6.7 - 9.4	33	31	24	13	14	14		
		500	273	0.15	0.16	17 - 24 - 35	13	2.5	129	37	41	5.1 - 7.4 - 10.5	39	36	30	21	20	19		
		600	327	0.21	0.24	19 - 27 - 38	19	3.0	154	53	59	5.8 - 8.2 - 11.5	43	40	36	27	25	23		
		700	382	0.29	0.32	20 - 29 - 41	25	3.6	180	73	80	6.2 - 8.8 - 12.5	47	43	40	33	29	26		
		800	436	0.38	0.42	22 - 31 - 44	29	4.1	206	95	105	6.7 - 9.4 - 13.3	50	46	44	38	33	29		
		900	491	0.48	0.53	23 - 33 - 46	33	4.6	232	120	133	7.1 - 10.0 - 14.1	52	49	48	42	36	31		
		1000	545	0.60	0.66	24 - 35 - 49	36	5.1	257	148	164	7.4 - 10.5 - 14.9	55	51	51	46	39	33		
		1100	600	0.72	0.80	26 - 36 - 51	40	5.6	283	180	198	7.8 - 11.0 - 15.6	57	53	54	49	42	35		
12"	7 3/8"	300	236	0.05	0.06	12 - 23 - 32	-	1.5	111	13	14	3.6 - 6.9 - 9.8	29	27	16	-	-	-		
		400	314	0.09	0.10	16 - 26 - 37	-	2.0	148	23	25	4.8 - 8.0 - 11.3	35	33	24	13	15	14		
		500	393	0.14	0.16	20 - 29 - 42	14	2.5	185	36	39	6.0 - 8.9 - 12.6	41	38	31	21	21	19		
		600	471	0.21	0.23	23 - 32 - 46	20	3.0	222	51	57	6.9 - 9.8 - 13.8	45	42	36	27	26	23		
		700	550	0.28	0.31	25 - 35 - 49	25	3.6	259	70	77	7.5 - 10.6 - 14.9	49	45	41	33	30	26		
		800	628	0.37	0.41	26 - 37 - 53	29	4.1	297	91	101	8.0 - 11.3 - 16.0	52	48	45	38	34	29		
		900	707	0.46	0.51	28 - 39 - 56	33	4.6	334	115	128	8.5 - 12.0 - 16.9	55	51	48	42	37	31		
		1000	785	0.57	0.63	29 - 42 - 59	37	5.1	371	142	158	8.9 - 12.6 - 17.9	57	53	51	46	40	33		
		1100	864	0.69	0.77	31 - 44 - 62	40	5.6	408	172	191	9.4 - 13.2 - 18.7	59	55	54	49	42	35		
14"	8 5/8"	300	321	0.05	0.05	14 - 27 - 38	-	1.5	151	12	14	4.2 - 8.1 - 11.4	30	28	16	-	-	-		
		400	428	0.09	0.10	18 - 31 - 43	-	2.0	202	22	24	5.6 - 9.3 - 13.2	37	34	25	13	15	14		
		500	535	0.14	0.15	23 - 34 - 48	14	2.5	252	34	38	7.0 - 10.4 - 14.7	43	39	31	21	21	19		
		600	641	0.19	0.22	27 - 38 - 53	20	3.0	303	48	54	8.1 - 11.4 - 16.1	47	43	37	27	26	23		
		700	748	0.27	0.30	29 - 41 - 57	25	3.6	353	66	74	8.7 - 12.3 - 17.4	51	47	41	33	30	26		
		800	855	0.35	0.39	31 - 43 - 61	30	4.1	404	86	96	9.3 - 13.2 - 18.6	54	50	45	38	34	29		
		900	962	0.44	0.49	33 - 46 - 65	34	4.6	454	109	122	9.9 - 14.0 - 19.8	57	52	48	42	37	31		
		1000	1069	0.54	0.60	34 - 48 - 69	37	5.1	505	135	150	10.4 - 14.7 - 20.8	59	54	52	46	40	33		
		1100	1176	0.65	0.73	36 - 51 - 72	40	5.6	555	163	182	10.9 - 15.5 - 21.9	61	57	54	49	43	35		
16"	9 3/4"	300	419	0.05	0.05	16 - 30 - 43	-	1.5	198	11	13	4.8 - 9.2 - 13.0	32	30	16	-	-	-		
		400	558	0.08	0.09	21 - 35 - 50	-	2.0	263	20	23	6.4 - 10.6 - 15.1	39	36	25	13	16	14		
		500	698	0.13	0.14	26 - 39 - 55	14	2.5	329	32	35	7.9 - 11.9 - 16.8	44	41	31	21	22	19		
		600	837	0.18	0.20	30 - 43 - 61	20	3.0	395	45	51	9.2 - 13.0 - 18.4	48	45	37	27	27	23		
		700	977	0.25	0.28	33 - 46 - 66	25	3.6	461	62	69	10.0 - 14.1 - 19.9	52	48	41	33	31	26		
		800	1116	0.32	0.36	35 - 50 - 70	30	4.1	527	81	91	10.6 - 15.1 - 21.3	55	51	45	38	34	29		
		900	1256	0.41	0.46	37 - 53 - 74	34	4.6	593	102	115	11.3 - 16.0 - 22.6	58	54	49	42	38	31		
		1000	1395	0.51	0.57	39 - 55 - 78	37	5.1	658	126	142	11.9 - 16.8 - 23.8	61	56	52	46	40	33		
		1100	1535	0.61	0.69	41 - 58 - 82	40	5.6	724	153	171	12.5 - 17.7 - 25.0	63	58	55	49	43	35		
18"	10 1/2"	300	530	0.04	0.05	18 - 34 - 48	-	1.5	250	10	12	5.3 - 10.4 - 14.7	33	31	17	-	-	-		
		400	706	0.07	0.08	23 - 39 - 56	-	2.0	333	19	21	7.1 - 12.0 - 16.9	40	37	25	13	16	14		
		500	883	0.12	0.13	29 - 44 - 62	15	2.5	417	29	33	8.9 - 13.4 - 18.9	46	42	32	21	22	19		
		600	1059	0.17	0.19	34 - 48 - 68	21	3.0	500	42	47	10.4 - 14.7 - 20.7	50	46	37	27	27	23		
		700	1236	0.23	0.26	37 - 52 - 74	26	3.6	583	57	65	11.2 - 15.8 - 22.4	54	49	42	33	31	26		
		800	1413	0.30	0.34	39 - 56 - 79	30	4.1	667	74	84	12.0 - 16.9 - 24.0	57	52	46	38	35	29		
		900	1589	0.38	0.43	42 - 59 - 84	34	4.6	750	94	107	12.7 - 18.0 - 25.4	60	55	49	42	38	31		
		1000	1766	0.47	0.53	44 - 62 - 88	37	5.1	833	116	132	13.4 - 18.9 - 26.8	62	57	52	46	41	33		
		1100	1942	0.57	0.64	46 - 65 - 92	41	5.6	917	141	159	14.0 - 19.9 - 28.1	64	59	55	49	43	35		
20"	12 3/8"	300	654	0.04	0.04	19 - 38 - 54	-	1.5	309	9	11	5.9 - 11.5 - 16.3	35	32	17	-	-	-		
		400	872	0.07	0.08	26 - 44 - 62	-	2.0	412	17	19	7.9 - 13.3 - 18.8	42	38	25	13	17	14		
		500	1090	0.11	0.12	32 - 49 - 69	15	2.5	514	26	30	9.9 - 14.9 - 21.0	47	43	32	21	23	19		
		600	1308	0.15	0.17	38 - 54 - 76	21	3.0	617	38	44	11.5 - 16.3 - 23.1	51	47	37	27	27	23		
		700	1526	0.21	0.24	41 - 58 - 82	26	3.6	720	52	59	12.4 - 17.6 - 24.9	55	50	42	33	32	26		
		800	1744	0.27	0.31	44 - 62 - 88	30	4.1	823	67	77	13.3 - 18.8 - 26.6	58	53	46	38	35	29		
		900	1962	0.34	0.39	46 - 66 - 93	34	4.6	926	85	98	14.1 - 20.0 - 28.2	61	56	49	42	38	31		
		1000	2180	0.42	0.49	49 - 69 - 98	38	5.1	1029	105	121	14.9 - 21.0 - 29.8	63	58	53	46	41	33		
		1100	2398	0.51	0.59	51 - 73 - 103	41	5.6	1132	128	146	15.6 - 22.1 - 31.2	66	60	55	49	44	35		

NOTES: Throw Projection values are given for terminal velocities of 200, 100, and 50 fpm. (1.0, 0.5 and 0.25 m/s). Projection values are given for isothermal conditions, free jet. Nominal duct size varies for a given aperture, as a function of model type. Data is based on Krueger model RPN. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB. Dash in space denotes an NC value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70. Asterisk (*) indicates neck velocity is based on a supply duct diameter equal to the stated nominal size (in inches).