

AFR Performance Data

IP DATA: AFR SERIES

DISPLACEMENT VENTILATION

Unit Size	IP Data						NC
	Neck Vel	Air Flow	Pt	Ps	Near T ₅₀ @ 4 ft	T ₅₀ @ Floor	
	FPM	CFM	"WG	"WG	ft	ft	
18" x 4"	20	10	0.00	0.00	2	5	-
	30	15	0.00	0.00	4	5	-
	40	20	0.00	0.00	9	12	-
	50	25	0.00	0.00	11	14	-
24" x 4"	20	13	0.00	0.00	2	4	-
	30	20	0.00	0.00	3	4	-
	40	27	0.00	0.00	7	9	-
	50	33	0.00	0.00	11	13	-
30" x 4"	20	17	0.00	0.00	3	5	-
	30	25	0.00	0.00	4	5	-
	40	33	0.00	0.00	9	12	-
	50	42	0.00	0.00	12	14	-
36" x 4"	20	20	0.00	0.00	3	5	-
	30	30	0.00	0.00	4	6	-
	40	40	0.00	0.00	9	12	-
	50	50	0.01	0.00	12	14	-
40" x 4"	20	22	0.00	0.00	3	5	-
	30	33	0.00	0.00	4	6	-
	40	44	0.00	0.00	9	12	-
	50	56	0.01	0.01	12	14	10
48" x 4"	20	27	0.00	0.00	3	5	-
	30	40	0.00	0.00	5	6	-
	40	53	0.00	0.00	9	12	-
	50	67	0.01	0.01	12	14	10
18" x 6"	20	15	0.00	0.00	3	5	-
	30	23	0.00	0.00	4	5	-
	40	30	0.00	0.00	9	12	-
	50	38	0.00	0.00	12	14	-
24" x 6"	20	20	0.00	0.00	3	5	-
	30	30	0.00	0.00	4	6	-
	40	40	0.00	0.00	9	12	-
	50	50	0.01	0.00	12	14	-
30" x 6"	20	25	0.00	0.00	3	5	-
	30	38	0.00	0.00	5	6	-
	40	50	0.00	0.00	9	12	-
	50	63	0.01	0.01	12	14	10
36" x 6"	20	30	0.00	0.00	3	5	-
	30	45	0.00	0.00	5	6	-
	40	60	0.01	0.00	9	12	-
	50	75	0.01	0.01	12	14	11
40" x 6"	20	33	0.00	0.00	3	5	-
	30	50	0.01	0.01	5	6	-
	40	67	0.01	0.01	9	12	11
	50	83	0.02	0.01	12	14	12
48" x 6"	20	40	0.01	0.00	3	6	-
	30	60	0.01	0.01	5	7	10
	40	80	0.01	0.01	9	12	12
	50	100	0.02	0.02	12	15	13
18" x 8"	20	20	0.00	0.00	3	5	-
	30	30	0.00	0.00	4	6	-
	40	40	0.00	0.00	9	12	-
	50	50	0.01	0.00	12	14	-

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	FPM	CFM	"WG	"WG	ft	ft	
24" x 8"	20	27	0.00	0.00	3	6	-
	30	40	0.00	0.00	5	6	-
	40	53	0.00	0.00	9	12	-
	50	67	0.01	0.01	11	13	11
	50	67	0.01	0.01	11	13	11
30" x 8"	20	33	0.00	0.00	3	6	-
	30	50	0.00	0.00	6	8	-
	40	67	0.00	0.00	12	16	11
	50	83	0.02	0.01	14	17	12
36" x 8"	20	40	0.01	0.00	3	6	-
	30	60	0.01	0.01	5	7	10
	40	80	0.01	0.01	9	12	12
	50	100	0.02	0.02	12	15	13
40" x 8"	20	44	0.01	0.00	3	6	-
	30	67	0.01	0.01	6	7	10
	40	89	0.02	0.01	9	12	12
	50	111	0.03	0.02	12	15	13
48" x 8"	20	53	0.01	0.00	3	6	-
	30	80	0.02	0.01	6	8	-
	40	107	0.02	0.02	9	13	11
	50	133	0.04	0.02	13	15	13
12" x 12"	20	20	0.00	0.00	3	5	-
	30	30	0.00	0.00	4	6	-
	40	40	0.00	0.00	9	12	-
	50	50	0.01	0.00	12	14	-
18" x 12"	20	30	0.00	0.00	3	5	-
	30	45	0.00	0.00	5	6	-
	40	60	0.01	0.00	9	12	-
	50	75	0.01	0.01	12	14	11
24" x 12"	20	40	0.01	0.00	3	6	-
	30	60	0.01	0.01	5	7	11
	40	80	0.01	0.01	9	12	12
	50	100	0.02	0.02	12	15	13
48" x 12"	20	80	0.02	0.01	3	6	-
	30	120	0.04	0.03	7	9	12
	40	160	0.05	0.04	9	12	13
	50	200	0.06	0.04	13	15	16
24" x 24"	20	80	0.02	0.01	3	6	-
	30	120	0.04	0.03	7	9	12
	40	160	0.05	0.04	10	13	13
	50	200	0.06	0.04	13	16	16
30" x 24"	20	100	0.03	0.01	3	7	-
	30	150	0.05	0.04	8	11	-
	40	200	0.06	0.05	10	14	-
	50	250	0.08	0.05	14	16	12
36" x 24"	20	120	0.03	0.02	4	7	-
	30	180	0.06	0.05	9	12	-
	40	240	0.08	0.06	10	14	11
	50	300	0.10	0.06	14	17	14
48" x 24"	20	160	0.05	0.02	4	8	-
	30	240	0.09	0.07	11	15	-
	40	320	0.11	0.09	11	15	11
	50	400	0.13	0.09	16	18	12

NOTES: Throw values are given for terminal velocities of 50 fpm (0.25 m/s). Throw values are given for -6°F (-3°C) ΔT conditions. N.C. values are based on Octave Band 2 - 7 sound power levels minus a room absorption of 4dB. Dash in space denotes a NC value of less than 10. Data was obtained from tests conducted in accordance with ANSI / ASHRAE Standard 70-1991.

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