

METALAIRE™

SERIES 4004P PERFORMANCE DATA

MODELS 4004P, 4004SP

Size			Nk Vel	200	300	400	500	600	700	800	900
	Pt			.007	.015	.027	.042	.061	.083	.108	.137
10x03	Ac ft ²	CFM		29	43	58	72	87	101	116	130
	0.15	NC		-	-	-	-	14	19	23	26
	Throw			2-4-9	4-6-12	6-9-14	7-11-16	9-12-17	10-13-18	11-14-20	12-15-21
12x03	Ac ft ²	CFM		35	53	70	88	105	123	141	158
	0.18	NC		-	-	-	-	15	20	24	27
	Throw			2-4-10	4-7-13	6-10-15	8-12-17	10-13-19	11-14-20	13-15-22	13-16-23
10x04 14x03	Ac ft ²	CFM		42	63	84	104	125	146	167	188
	0.21	NC		-	-	-	-	16	20	24	28
	Throw			2-5-10	5-8-15	7-10-17	9-13-19	10-15-21	12-16-22	14-17-24	15-18-25
12x04 16x03	Ac ft ²	CFM		51	76	102	127	152	178	203	229
	0.26	NC		-	-	-	11	17	21	25	29
	Throw			2-5-11	5-9-16	8-11-19	10-14-21	11-16-23	13-17-25	15-19-26	16-20-28
18x03 14x04	Ac ft ²	CFM		54	81	108	135	162	189	216	243
	0.27	NC		-	-	-	11	17	22	26	29
	Throw			2-6-12	6-9-17	8-12-19	10-15-21	12-17-23	14-18-25	16-19-27	17-20-29
10x06 16x04 20x03	Ac ft ²	CFM		68	101	135	169	202	236	270	304
	0.34	NC		-	-	-	12	18	22	26	30
	Throw			3-6-13	6-10-18	9-13-21	11-17-24	13-18-26	15-20-28	17-21-30	18-23-32
12x06 18x04 24x03	Ac ft ²	CFM		82	123	164	205	246	287	328	369
	0.41	NC		-	-	-	13	19	23	27	31
	Throw			3-7-15	7-11-20	10-15-24	12-18-26	15-20-29	17-22-31	19-24-33	20-25-35
30x03	Ac ft ²	CFM		92	137	183	229	274	320	366	411
	0.46	NC		-	-	-	14	19	24	28	31
	Throw			3-7-15	7-12-22	10-15-25	13-19-28	15-22-30	18-23-33	20-25-35	22-26-37
14x06 20x04	Ac ft ²	CFM		97	145	193	241	290	338	386	435
	0.49	NC		-	-	-	14	19	24	28	31
	Throw			3-7-16	7-12-22	11-16-26	13-20-29	16-22-31	18-24-34	21-26-36	22-27-38
16x06 24x04	Ac ft ²	CFM		111	167	222	278	334	389	445	500
	0.56	NC		-	-	-	15	20	25	39	32
	Throw			4-8-17	8-13-24	11-17-27	14-21-31	17-24-34	20-26-36	22-27-39	24-29-41
18x06 36x03	Ac ft ²	CFM		126	188	251	314	377	440	503	566
	0.63	NC		-	-	-	15	20	25	29	31
	Throw			4-8-18	8-14-25	12-18-29	15-23-33	18-25-36	21-27-39	24-29-41	25-31-44
14x08	Ac ft ²	CFM		134	200	267	334	400	467	534	600
	0.67	NC		-	-	-	15	21	25	29	31
	Throw			4-9-19	9-14-26	12-19-30	16-23-34	19-26-37	22-28-40	25-30-42	26-32-45

CONTINUED

SERIES 4000P PERFORMANCE DATA

MODELS 4004P, 4004SP

Size	Nk Vel		200	300	400	500	600	700	800	900
	Pt		.007	.015	.027	.042	.061	.083	.108	.137
16x08	Ac ft ² 0.77	CFM	154	230	307	384	461	538	614	691
20x06		NC	-	-	-	16	21	26	30	33
30x04	Throw		4-9-20	9-15-28	13-20-32	17-25-36	20-28-39	23-30-43	26-32-46	28-34-48
18x08	Ac ft ² 0.87	CFM	174	261	348	434	521	608	695	782
24x06		NC	-	-	-	16	22	26	30	34
36x04	Throw		4-10-21	10-16-30	14-21-34	18-27-38	21-30-42	25-32-45	28-34-48	30-36-51
20x08 42x04	Ac ft ² 0.97	CFM	194	291	388	485	582	678	775	872
		NC	-	-	11	17	21	27	31	34
	Throw		5-11-22	10-17-31	15-22-36	19-28-40	22-31-44	26-34-48	30-36-51	31-38-54
18x10 30x06	Ac ft ² 1.11	CFM	222	333	444	554	665	776	887	997
		NC	-	-	12	17	23	27	31	35
	Throw		5-11-24	11-18-34	16-24-39	20-30-43	24-34-47	28-36-51	32-39-55	34-41-58
20x10	Ac ft ² 1.24	CFM	247	371	494	618	742	865	989	1112
24x08		NC	-	-	12	18	23	28	32	35
48x04	Throw		5-12-25	12-19-35	17-25-41	21-32-46	25-35-50	30-38-54	33-41-58	35-43-61

PERFORMANCE NOTES FOR SERIES 4000P

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Velocity Velocity of air stream in Feet per Minute

Ps Static pressure = $P_t - P_v$ (inches of water column)

Throw Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands

Ac Actual Core Free Area in square feet

METALAIRE™

SERIES 4000P PERFORMANCE DATA

MODELS 4004P, 4004SP

Size	Nk Vel		200	300	400	500	600	700	800	900
	Pt		.007	.015	.027	.042	.061	.083	.108	.137
18x12 36x06	Ac ft ²	CFM	270	405	539	674	809	943	1078	1212
	1.35	NC	-	-	12	18	24	28	32	36
	Throw		6-12-27	12-20-37	18-26-43	22-33-48	26-37-52	31-40-56	35-43-60	37-45-64
20x12 24x10 30x08	Ac ft ²	CFM	301	451	602	752	903	1053	1203	1354
	1.51	NC	-	-	12	19	24	29	33	36
	Throw		6-13-28	13-21-39	19-28-45	23-35-50	28-39-55	33-42-60	37-45-64	39-48-68
42x06	Ac ft ²	CFM	301	451	602	752	903	1053	1203	1354
	1.51	NC	-	-	12	19	24	29	33	36
	Throw		6-13-28	13-21-39	19-28-45	23-35-50	28-39-55	33-42-60	37-45-64	39-48-68
24x12 36x08 48x06	Ac ft ²	CFM	364	546	727	909	1090	1272	1453	1635
	1.82	NC	-	-	13	19	25	30	33	37
	Throw		6-14-31	14-23-43	20-31-50	26-38-55	31-43-61	36-46-66	40-50-70	43-53-74
30x10	Ac ft ²	CFM	376	564	752	939	1127	1315	1503	1680
	1.88	NC	-	-	13	20	25	30	34	37
	Throw		6-15-31	15-23-44	21-31-50	26-39-56	31-44-62	36-47-67	41-50-71	44-53-76
42x08	Ac ft ²	CFM	416	634	831	1039	1246	1454	1661	1869
	2.08	NC	-	-	13	20	25	30	34	38
	Throw		7-15-33	15-25-46	22-33-53	27-41-59	33-46-65	38-50-70	43-53-75	46-56-79
30x12 36x10	Ac ft ²	CFM	456	685	914	1142	1371	1600	1829	2057
	2.28	NC	-	-	14	20	26	30	34	38
	Throw		7-16-34	16-26-48	23-34-56	29-43-62	34-48-68	40-52-74	45-56-79	48-59-83
48x08	Ac ft ²	CFM	476	714	952	1190	1428	1666	1904	2142
	2.38	NC	-	-	14	21	26	31	35	38
	Throw		7-16-35	16-26-49	23-35-57	29-44-63	35-49-69	41-53-75	46-57-80	49-60-85
42x10	Ac ft ²	CFM	530	795	1060	1325	1590	1855	2120	2385
	2.65	NC	-	-	14	21	26	31	35	39
	Throw		8-17-37	17-28-52	25-37-60	31-46-67	37-52-73	43-56-79	49-60-85	52-63-90
36x12	Ac ft ²	CFM	550	826	1101	1377	1652	1928	2203	2479
	2.75	NC	-	-	15	21	27	31	35	39
	Throw		8-18-38	18-28-53	25-38-61	32-47-68	38-53-75	44-57-81	50-61-86	53-65-92

CONTINUED

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Size	Nk Vel		200	300	400	500	600	700	800	900
	Pt		.007	.015	.027	.042	.061	.083	.108	.137
48x10	Ac ft ² 3.03	CFM	606	910	1214	1517	1821	2125	2429	2732
		NC	-	-	15	22	27	32	36	39
	Throw		8-19-40	19-30-55	26-40-64	33-50-72	40-55-78	46-60-85	52-64-91	55-68-96
42x12	Ac ft ² 3.23	CFM	646	968	1291	1613	1935	2257	2580	2902
		NC	-	-	15	22	27	32	36	39
	Throw		9-19-41	19-31-57	27-41-66	34-51-74	41-57-81	48-62-87	54-66-93	57-70-99
48x12	Ac ft ² 1.22	CFM	738	1107	1476	1845	2214	2583	2952	3321
		NC	-	-	16	22	38	32	36	40
	Throw		9-20-44	20-33-61	29-44-71	36-55-79	44-61-87	51-66-93	58-71-100	61-75-106

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