

JFA / SUPPLY

Core Area, sq. ft.	Nominal Duct Size, inches	Core Vel. Vel. Press.	NC 20						NC 30		NC 40
			300	400	500	600	700	800	1000	1200	1400
			0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122
0.15	7 X 4 6 X 5	0°	0.010	0.017	0.028	0.038	0.052	0.069	0.107	0.156	0.211
		22 1/2°	0.011	0.019	0.031	0.043	0.058	0.078	0.120	0.175	0.237
		45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356
		Total Pres.									
0.18	8 X 4 7 X 5 6 X 6	cfm	45	60	75	90	105	120	150	180	210
		NC	—	—	—	—	13	17	23	29	34
		0°	4-6-12	5-8-14	7-10-16	8-12-17	9-13-19	11-14-20	13-16-22	14-17-24	15-19-26
		Throw, ft. 22 1/2°	3-5-10	4-6-11	6-8-13	6-10-14	7-10-15	9-11-16	10-13-18	11-14-19	12-15-21
0.22	10 X 4 8 X 5 7 X 6	45°	2-3-6	3-4-7	3-5-8	4-6-9	5-7-9	5-7-10	6-8-11	7-9-12	8-9-13
		cfm	55	70	90	110	125	145	180	215	250
		NC	—	—	—	10	15	19	25	31	36
		0°	4-7-13	6-8-15	7-11-17	9-13-19	10-15-20	11-16-22	14-17-24	15-19-26	17-21-29
0.26	12 X 4 10 X 5 8 X 6	Throw, ft. 22 1/2°	3-6-10	5-6-12	6-9-14	7-10-15	8-12-16	9-13-18	11-14-19	12-15-21	14-17-23
		45°	2-3-7	3-4-8	4-5-9	4-7-10	5-7-10	6-8-11	7-9-12	8-10-13	8-10-14
		cfm	65	90	110	130	155	175	220	265	310
		NC	—	—	—	10	15	19	25	31	36
0.34	16 X 4 12 X 5 10 X 6	0°	4-7-14	7-10-17	8-12-19	9-15-21	11-16-23	13-17-24	16-19-27	17-21-29	19-23-32
		Throw, ft. 22 1/2°	3-6-11	6-8-14	6-10-15	7-12-17	9-13-18	10-14-19	13-15-22	14-17-23	15-18-26
		45°	2-4-7	3-5-9	4-6-10	5-7-10	6-8-11	6-9-12	8-10-13	9-11-15	9-12-16
		cfm	80	105	130	155	180	210	260	310	365
0.39	18 X 4 14 X 5 12 X 6 8 X 8	NC	—	—	—	11	16	20	26	32	37
		0°	5-8-16	7-11-19	9-13-21	10-16-23	12-17-24	14-19-26	17-21-29	19-23-32	20-25-35
		Throw, ft. 22 1/2°	4-6-13	6-9-15	7-10-17	8-13-18	10-14-19	11-15-21	14-17-23	15-18-26	16-20-28
		45°	3-4-8	4-5-9	4-7-10	5-8-11	6-9-12	7-9-13	8-11-15	9-12-16	10-13-17
0.46	20 X 4 16 X 5 14 X 6 10 X 8	cfm	100	135	170	205	240	270	340	410	475
		NC	—	—	—	12	17	21	27	33	38
		0°	5-9-18	8-12-21	10-15-24	12-19-26	14-20-28	16-22-30	20-24-33	22-26-37	23-28-40
		Throw, ft. 22 1/2°	4-7-14	6-10-17	8-12-19	10-15-21	11-16-22	13-18-24	16-19-26	18-21-30	18-21-30
0.60	28 x 4 20 x 5 18 x 6 12 x 8 10 x 10	45°	3-4-9	4-6-11	5-8-12	6-9-13	7-10-14	8-11-15	10-12-17	11-13-18	12-14-20
		cfm	115	155	195	235	275	310	390	470	545
		NC	—	—	—	13	18	22	28	34	39
		0°	6-9-19	9-13-23	11-16-25	13-19-28	15-22-30	17-23-32	21-26-36	23-27-40	25-30-42
0.69	30 x 4 24 x 5 20 x 6 14 x 8 12 x 10	Throw, ft. 22 1/2°	5-7-15	7-10-18	9-13-20	10-15-22	12-18-24	14-18-26	17-21-29	18-22-32	20-24-34
		45°	3-5-10	4-6-11	5-8-13	7-10-14	8-11-15	9-12-16	11-13-18	12-14-20	12-15-21
		cfm	140	185	230	275	320	370	460	550	645
		NC	—	—	—	13	18	22	28	34	39
0.69	30 x 4 24 x 5 20 x 6 14 x 8 12 x 10	0°	7-10-22	9-14-25	12-17-27	14-22-30	16-23-32	19-25-35	23-27-39	25-31-43	27-33-46
		Throw, ft. 22 1/2°	6-8-18	7-11-20	10-14-22	11-18-24	13-18-26	15-20-28	18-22-31	20-25-34	22-26-37
		45°	3-5-11	5-7-12	6-9-14	7-11-15	8-11-16	10-13-17	11-14-20	12-15-21	14-17-23
		cfm	180	240	300	360	420	480	600	720	840
0.69	30 x 4 24 x 5 20 x 6 14 x 8 12 x 10	NC	—	—	10	15	20	24	30	36	41
		0°	7-12-24	11-16-28	14-20-31	16-24-34	19-27-37	22-29-40	26-32-45	29-35-48	31-38-52
		Throw, ft. 22 1/2°	6-10-19	9-13-22	11-16-25	13-19-27	15-22-30	18-23-32	21-26-36	23-28-38	25-30-42
		45°	4-6-12	5-8-14	7-10-16	8-12-17	10-13-19	11-14-20	13-16-22	14-17-24	15-19-26

JFA / SUPPLY

Core Area, sq. ft.	Nominal Duct Size, inches	Core Vel. Vel. Press.	NC 20				NC 30		NC 40			
			300	400	500	600	700	800	1000	1200	1400	
			0	0.010	0.017	0.028	0.038	0.052	0.069	0.107	0.156	0.211
0.81	36x4 28x5 22x6 16x8 14x10	Core Vel.	300	400	500	600	700	800	1000	1200	1400	
		Vel. Press.	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	
		Total Pres.	22 1/2°	0.011	0.019	0.031	0.043	0.058	0.078	0.120	0.175	0.237
			45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356
0.90	40x4 30x5 26x6 18x8 16x10 12x12	Core Vel.	300	400	500	600	700	800	1000	1200	1400	
		Vel. Press.	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	
		Total Pres.	22 1/2°	0.011	0.019	0.031	0.043	0.058	0.078	0.120	0.175	0.237
			45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356
1.07	48x4 36x5 30x6 18x10 14x12	Core Vel.	300	400	500	600	700	800	1000	1200	1400	
		Vel. Press.	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	
		Total Pres.	22 1/2°	0.011	0.019	0.031	0.043	0.058	0.078	0.120	0.175	0.237
			45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356
1.18	34x6 24x8 20x10 16x12 14x14	Core Vel.	300	400	500	600	700	800	1000	1200	1400	
		Vel. Press.	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	
		Total Pres.	22 1/2°	0.011	0.019	0.031	0.043	0.058	0.078	0.120	0.175	0.237
			45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356
1.34	60x4 48x5 36x6 18x12 16x14	Core Vel.	300	400	500	600	700	800	1000	1200	1400	
		Vel. Press.	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	
		Total Pres.	22 1/2°	0.011	0.019	0.031	0.043	0.058	0.078	0.120	0.175	0.237
			45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356
1.60	72x4 30x8 24x10 22x12 18x14 16x16	Core Vel.	300	400	500	600	700	800	1000	1200	1400	
		Vel. Press.	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	
		Total Pres.	22 1/2°	0.011	0.019	0.031	0.043	0.058	0.078	0.120	0.175	0.237
			45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356
1.80	60x5 48x6 36x8 30x10 24x12 20x14 18x16	Core Vel.	300	400	500	600	700	800	1000	1200	1400	
		Vel. Press.	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	
		Total Pres.	22 1/2°	0.011	0.019	0.031	0.043	0.058	0.078	0.120	0.175	0.237
			45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356
2.08	60x6 40x8 36x10 30x12 24x14 20x16 18x18	Core Vel.	300	400	500	600	700	800	1000	1200	1400	
		Vel. Press.	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	
		Total Pres.	22 1/2°	0.011	0.019	0.031	0.043	0.058	0.078	0.120	0.175	0.237
			45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356
2.45	72x6 48x8 32x12 26x14 24x16 20x18 20x20	Core Vel.	300	400	500	600	700	800	1000	1200	1400	
		Vel. Press.	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122	
		Total Pres.	22 1/2°	0.011	0.019	0.031	0.043	0.058	0.078	0.120	0.175	0.237
			45°	0.016	0.029	0.047	0.064	0.088	0.117	0.181	0.263	0.356

NC 50

JFA / SUPPLY

Core Area, sq. ft.	Nom. Duct Size, in.	Core Vel. Vel. Press.	NC 20			NC 30			NC 40	NC 50	
			300	400	500	600	700	800	1000	1200	1400
			0°	0.010	0.017	0.028	0.038	0.052	0.069	0.107	0.156
2.78	36x12	cfm	835	1110	1390	1670	1950	2220	2780	3340	3890
		NC	—	—	16	21	26	30	36	42	47
	Throw, ft.	0°	16-26-52	23-34-60	29-42-67	35-50-73	40-57-79	45-61-85	55-68-95	60-75-104	65-81-112
		22½°	13-21-42	18-27-48	23-34-54	28-40-58	32-46-63	36-49-68	44-54-76	48-60-83	52-65-90
		45°	8-13-26	12-17-30	14-21-33	17-25-37	20-28-40	23-30-42	28-34-47	30-37-52	33-40-56
3.61	72x8	cfm	1080	1440	1800	2170	2530	2890	3610	4330	5050
		NC	—	10	17	22	27	31	37	43	48
	Throw, ft.	0°	18-29-59	26-38-68	32-47-76	38-56-84	44-65-90	51-69-97	63-78-108	69-86-118	75-93-128
		22½°	14-23-47	21-30-54	26-38-61	30-45-67	35-52-72	41-55-78	50-62-86	55-69-94	60-74-102
		45°	9-14-29	13-19-34	16-23-38	19-28-42	22-32-45	25-35-48	31-39-54	35-43-59	38-46-64
4.29	48x14	cfm	1290	1720	2140	2570	3000	3430	4290	5150	6010
		NC	—	11	18	23	28	32	38	44	49
	Throw, ft.	0°	19-31-64	28-41-74	35-50-83	42-60-91	49-71-98	56-76-106	69-85-118	76-93-130	82-102-140
		22½°	15-25-51	22-33-59	28-40-66	34-48-73	39-57-78	45-61-85	55-68-94	61-74-104	66-82-112
		45°	10-15-32	14-20-37	17-25-42	21-30-46	24-35-49	28-38-53	34-43-59	38-47-65	41-51-70
4.65	48x16	cfm	1400	1860	2320	2790	3260	3720	4650	5580	6510
		NC	—	11	18	23	28	32	38	44	49
	Throw, ft.	0°	20-33-67	29-43-78	36-54-87	44-65-95	51-74-103	58-79-110	72-89-123	79-97-135	86-105-146
		22½°	16-26-54	23-34-62	29-43-70	32-52-76	41-59-82	49-63-88	58-71-98	63-78-108	69-84-117
		45°	10-16-33	15-22-39	18-27-43	22-32-48	25-37-52	29-40-55	36-44-61	39-49-67	43-52-73
5.58	36x24	cfm	1670	2230	2790	3350	3910	4460	5580	6700	7810
		NC	—	12	19	24	29	33	39	45	50
	Throw, ft.	0°	22-36-73	31-47-85	40-59-95	47-72-104	55-81-113	63-87-122	79-97-135	87-107-148	93-116-160
		22½°	18-29-58	25-38-68	32-47-76	38-58-83	44-65-90	50-70-98	63-78-108	70-86-118	74-93-130
		45°	11-18-37	16-23-43	20-30-48	23-36-52	28-41-57	31-44-61	39-49-67	43-53-74	47-53-80
6.25	30x30	cfm	1880	2500	3120	3750	4380	5000	6250	7500	8750
		NC	—	13	20	25	30	34	40	46	51
	Throw, ft.	0°	23-37-78	33-49-90	42-62-100	50-75-103	58-86-119	67-93-128	84-104-143	92-113-156	98-123-169
		22½°	18-30-62	26-39-72	34-50-80	40-60-82	46-69-95	54-74-102	67-83-114	74-90-125	78-98-135
		45°	12-19-39	17-25-45	21-31-50	25-37-51	29-43-60	34-46-64	42-52-72	46-57-78	49-61-85

PERFORMANCE NOTES

- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006
- All pressures are in inches of water
- Core velocities are in feet per minute
- Throw values are given for isothermal terminal velocities of 150, 100 and 50 fpm. See the section, Engineering Guidelines, in this catalog for throw information.
- Dividing lines denote ranges of NC values
- The stated deflection settings refer to the blade position. For a 20° upward deflection, use the throw rating for the 0° setting and the total pressure for the 22½° horizontal setting.

- Each NC value represents the noise criterion curve that will not be exceeded by the sound pressure in any of the octave bands, 2 through 7. Each NC value is based on a room absorption of 10 dB, re 10⁻¹² watts. Each NC value is further based on a single grille operating at a 0° deflection setting. For deflection settings of 22½° or 45°, increase the stated sound levels by 1 and 7 NC, respectively.
- Dash (—) in space indicates NC value less than 10

VARIABLE AIR VOLUME APPLICATIONS

- All Titus supply grilles can be applied to variable air volume systems with excellent results. For detailed selection methods, consult your Titus representative, or the Engineering Guidelines section of this catalog.