

PERFORMANCE DATA

150/250 LONG THROW

Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Area (ft ²)	NC 20			NC 30		NC 40		NC 50		
			Core Vel.	300	400	500	600	700	800	1000	1200	1400
			Vel. Press.	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
			0°	0.010	0.017	0.026	0.038	0.052	0.068	0.106	0.153	0.208
			Total 22.5°	0.011	0.019	0.030	0.043	0.058	0.076	0.118	0.171	0.232
			Press. 45°	0.016	0.029	0.045	0.065	0.089	0.116	0.181	0.260	0.354
42x38	11.08	10.67	CFM	3201	4268	5335	6402	7469	8536	10670	12804	14938
			NC	-	15	22	27	32	36	43	48	53
			0°	34-55-104	49-74-120	62-92-134	74-104-147	86-112-159	98-120-170	110-134-190	120-147-208	130-159-225
			Throw 22.5°	26-43-81	38-57-93	48-72-104	57-81-114	67-87-123	76-93-132	85-104-147	93-114-161	101-123-174
			45°	15-25-47	22-33-54	28-42-60	33-47-66	39-51-71	44-54-76	49-60-85	54-66-94	58-71-101
40x40	11.11	10.7	CFM	3210	4280	5350	6420	7490	8560	10700	12840	14980
			NC	-	15	22	27	32	36	43	48	53
			0°	34-56-104	49-74-120	62-93-134	74-104-147	86-113-159	98-120-170	110-134-190	120-147-208	130-159-225
			Throw 22.5°	26-43-81	38-57-93	48-72-104	57-81-114	67-87-123	76-93-132	85-104-147	93-114-161	101-123-174
			45°	15-25-47	22-33-54	28-42-61	33-47-66	39-51-72	44-54-77	49-61-86	54-66-94	58-72-101
48x36	12.00	11.57	CFM	3471	4628	5785	6942	8099	9256	11570	13884	16198
			NC	-	16	22	28	32	36	43	48	53
			0°	36-58-108	51-77-125	64-96-140	77-108-153	90-117-165	102-125-177	114-140-198	125-153-217	135-165-234
			Throw 22.5°	28-45-84	40-60-97	50-75-108	60-84-119	70-91-128	79-97-137	88-108-153	97-119-168	105-128-181
			45°	16-26-49	23-35-56	29-43-63	35-49-69	40-53-74	46-56-80	51-63-89	56-69-97	61-74-105
42x42	12.25	11.82	CFM	3546	4728	5910	7092	8274	9456	11820	14184	16548
			NC	-	16	22	28	32	36	43	48	53
			0°	36-58-109	52-78-126	65-97-141	78-109-155	91-118-167	103-126-179	115-141-200	126-155-219	137-167-236
			Throw 22.5°	28-45-85	40-60-98	50-75-110	60-85-120	70-92-130	80-98-139	89-110-155	98-120-170	106-130-183
			45°	16-26-49	23-35-57	29-44-64	35-49-70	41-53-75	46-57-80	52-64-90	57-70-99	61-75-106
44x44	13.44	12.99	CFM	3897	5196	6495	7794	9093	10392	12990	15588	18186
			NC	-	16	23	28	33	37	43	49	53
			0°	38-61-115	54-82-133	68-102-148	82-115-162	95-124-175	108-133-187	121-148-210	133-162-230	143-175-248
			Throw 22.5°	29-47-89	42-63-103	53-79-115	63-89-126	74-96-136	84-103-145	94-115-162	103-126-178	111-136-192
			45°	17-28-52	24-37-60	31-46-67	37-52-73	43-56-79	49-60-84	54-67-94	60-73-103	64-79-112
48x42	14.00	13.54	CFM	4062	5416	6770	8124	9478	10832	13540	16248	18956
			NC	-	16	23	28	33	37	44	49	54
			0°	38-62-117	56-83-135	69-104-151	83-117-166	97-127-179	110-135-191	124-151-214	135-166-234	146-179-253
			Throw 22.5°	30-48-91	43-65-105	54-81-117	65-91-128	75-98-139	86-105-148	96-117-166	105-128-182	113-139-196
			45°	17-28-53	25-37-61	31-47-68	37-53-75	44-57-81	50-61-86	56-68-96	61-75-105	66-81-114
46x46	14.69	14.22	CFM	4266	5688	7110	8532	9954	11376	14220	17064	19908
			NC	-	16	23	29	33	37	44	49	54
			0°	39-64-120	57-85-139	71-107-155	85-120-170	100-130-183	113-139-196	127-155-219	139-170-240	150-183-259
			Throw 22.5°	31-50-93	44-66-107	55-83-120	66-93-132	77-101-142	88-107-152	98-120-170	107-132-186	116-142-201
			45°	18-29-54	26-38-62	32-48-70	38-54-76	45-58-83	51-62-88	57-70-99	62-76-108	67-83-117
48x46	15.33	14.85	CFM	4455	5940	7425	8910	10395	11880	14850	17820	20790
			NC	-	17	23	29	33	37	44	49	54
			0°	40-65-123	58-87-142	73-109-158	87-123-174	102-133-187	116-142-200	129-158-224	142-174-245	153-187-265
			Throw 22.5°	31-51-95	45-68-110	56-85-123	68-95-134	79-103-145	90-110-155	100-123-174	110-134-190	119-145-205
			45°	18-29-55	26-39-64	33-49-71	39-55-78	46-60-84	52-64-90	58-71-101	64-78-110	69-84-119
48x48	16.00	15.50	CFM	4650	6200	7750	9300	10850	12400	15500	18600	21700
			NC	-	17	23	29	34	37	44	50	54
			0°	41-67-125	59-89-145	74-111-162	89-125-177	104-135-192	118-145-205	132-162-229	145-177-251	156-192-271
			Throw 22.5°	32-52-97	46-69-112	58-86-125	69-97-137	81-105-148	92-112-159	102-125-177	112-137-194	121-148-210
			45°	19-30-56	27-40-65	33-50-73	40-56-80	47-61-86	53-65-92	59-73-103	65-80-113	70-86-122

- 0°, 22.5°, and 45° represent blade deflection angles.
- Performance data is based on duct sizes in bold, the performance varies slightly for duct sizes not shown in bold.
- See the section, *Engineering Guidelines* for drop information, when selecting larger supply grilles for cooling purposes.
- See the "Performance Notes" portion in this section for notes and correction factors.
- See the section, *Engineering Guidelines* for catalog throw information.
- Each NC value represents the noise criteria curve that will not be exceeded by the sound pressure in any of the octave bands, 2 through 7, with a room absorption of 10 dB, re 10⁻¹² watts.