

Performance Data



700 DVD Series Round Collar

		300			400			500			600			700			800			900			1000			1100		
FPM		300			400			500			600			700			800			900			1000			1100		
VP		0.006			0.01			0.016			0.022			0.031			0.04			0.05			0.062			0.075		
6x6-6 .175ft/sq	CFM	55			70			90			105			125			140			160			175			195		
	SP	0.01			0.01			0.01			0.02			0.025			0.03			0.04			0.06			0.08		
	TP	0.016			0.02			0.026			0.042			0.056			0.07			0.09			0.122			0.155		
	NC	-			-			-			15			20			25			28			30			32		
	1w throw	6	7	15	7	9	18	7	13	22	9	15	24	11	17	26	13	20	28	15	20	29	17	22	31	18	24	35
	2w throw	4	6	12	6	7	15	6	10	18	7	12	19	9	13	21	10	16	22	12	16	24	13	18	25	15	19	28
	3w throw	4	5	10	5	6	12	5	8	14	6	10	16	7	11	17	8	13	18	10	13	19	11	14	20	12	16	23
	4w throw	3	4	7	4	5	9	4	6	11	5	7	12	6	8	13	6	10	14	7	10	15	8	11	16	9	12	17
8x8-8 .30ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	85			110			150			165			195			225			250			280			330		
	SP	0.01			0.01			0.02			0.02			0.03			0.04			0.05			0.07			0.09		
	TP	0.016			0.02			0.036			0.042			0.061			0.08			0.1			0.132			0.165		
	NC	-			-			15			15			20			30			32			34			35		
	1w throw	6	8	16	8	10	20	8	14	24	10	16	26	12	18	28	14	22	30	16	22	32	18	24	34	20	26	38
	2w throw	5	6	13	6	8	16	6	11	19	8	13	21	10	14	22	11	18	24	13	18	26	14	19	27	16	21	30
	3w throw	4	5	10	5	7	13	5	9	16	7	10	17	8	12	18	9	14	20	10	14	21	12	16	22	13	17	25
4w throw	3	4	8	4	5	10	4	7	12	5	8	13	6	9	14	7	11	15	8	11	16	9	12	17	10	13	19	
10x10-10 .485ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	145			195			245			290			340			390			435			485			535		
	SP	0.01			0.01			0.02			0.025			0.035			0.045			0.06			0.08			0.1		
	TP	0.016			0.02			0.036			0.047			0.066			0.085			0.11			0.142			0.175		
	NC	-			-			15			15			21			30			33			36			38		
	1w throw	8	12	25	11	16	29	13	21	33	16	25	36	19	27	39	22	30	42	24	31	44	26	33	47	29	36	52
	2w throw	6	10	20	9	13	23	10	17	26	13	20	29	15	22	31	18	24	34	19	25	35	21	26	38	23	29	42
	3w throw	5	8	16	7	10	19	8	14	21	10	16	23	12	18	25	14	20	27	16	20	29	17	21	31	19	23	34
4w throw	4	6	13	6	8	15	7	11	17	8	13	18	10	14	20	11	15	21	12	16	22	13	17	24	15	18	26	
12x12-12 .65ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	195			260			325			390			455			520			585			650			715		
	SP	0.01			0.01			0.02			0.03			0.04			0.05			0.07			0.09			0.11		
	TP	0.016			0.02			0.036			0.052			0.071			0.09			0.12			0.152			0.185		
	NC	-			-			15			16			22			30			34			38			41		
	1w throw	10	16	34	14	22	38	18	28	42	22	34	46	26	36	50	30	38	54	32	40	56	34	42	60	38	46	66
	2w throw	8	13	27	11	18	30	14	22	34	18	27	37	21	29	40	24	30	43	26	32	45	27	34	48	30	37	53
	3w throw	7	10	22	9	14	25	12	18	27	14	22	30	17	23	33	20	25	35	21	26	36	22	27	39	25	30	43
4w throw	5	8	17	7	11	19	9	14	21	11	17	23	13	18	25	15	19	27	16	20	28	17	21	30	19	23	33	

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14x14-14 .96ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	290			385			480			576			670			770			865			960			1055		
	SP	0.01			0.02			0.03			0.04			0.055			0.07			0.085			0.1			0.125		
	TP	0.016			0.03			0.046			0.062			0.086			0.11			0.135			0.162			0.2		
	NC	-			15			17			20			25			31			35			39			42		
	1w throw	12	18	35	16	24	40	20	30	45	24	36	49	28	38	53	32	40	57	34	42	59	36	45	63	40	49	71
	2w throw	10	14	28	13	19	32	16	24	36	19	29	39	22	30	42	26	32	46	27	34	47	29	36	50	32	39	57
	3w throw	8	12	23	10	16	26	13	20	29	16	23	32	18	25	34	21	26	37	22	27	38	23	29	41	26	32	46
4w throw	6	9	18	8	12	20	10	15	23	12	18	25	14	19	27	16	20	29	17	21	30	18	23	32	20	25	36	
16x16-16 1.17ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	350			470			585			705			820			935			1055			1170			1290		
	SP	0.02			0.03			0.04			0.05			0.07			0.08			0.095			0.11			0.14		
	TP	0.026			0.04			0.056			0.072			0.101			0.12			0.145			0.172			0.215		
	NC	15			15			20			23			28			34			37			40			44		
	1w throw	14	20	36	18	26	42	22	32	48	26	38	52	30	40	56	34	42	60	36	44	62	38	48	66	42	52	76
	2w throw	11	16	29	14	21	34	18	26	38	21	30	42	24	32	45	27	34	48	29	35	50	30	38	53	34	42	61
	3w throw	9	13	23	12	17	27	14	21	31	17	25	34	20	26	36	22	27	39	23	29	40	25	31	43	27	34	49
4w throw	7	10	18	9	13	21	11	16	24	13	19	26	15	20	28	17	21	30	18	22	31	19	24	33	21	26	38	
18x18-18 1.58ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	475			630			790			950			1105			1265			1420			1580			1740		
	SP	0.02			0.03			0.05			0.06			0.08			0.09			0.11			0.13			0.16		
	TP	0.03			0.04			0.06			0.08			0.11			0.13			0.16			0.19			0.24		
	NC	15			18			23			26			30			37			40			43			48		
	1w throw	15	22	40	20	29	46	24	35	53	29	42	57	33	44	62	37	46	66	40	48	68	42	53	73	46	57	84
	2w throw	12	18	32	16	23	37	19	28	42	23	33	46	26	35	49	30	37	53	32	39	55	33	42	58	37	46	67
	3w throw	10	14	26	13	19	30	16	23	34	19	27	37	21	29	40	24	30	43	26	31	44	27	34	47	30	37	54
4w throw	8	11	20	10	14	23	12	18	26	14	21	29	17	22	31	19	23	33	20	24	34	21	26	36	23	29	42	

Performance Notes

- 1) Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- 2) Throw data is based on supply air and room air both at isothermal conditions
- 3) Effective core areas listed in the chart are defined as the measurement of space between the blades actually being utilized by the air
- 4) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006

Performance Data



700DVD Series Square Collar

	FPM	300			400			500			600			700			800			900			1000			1100		
	VP	0.006			0.01			0.016			0.022			0.031			0.04			0.05			0.062			0.075		
6x6 .212ft/sq	CFM	64			85			106			127			148			170			191			212			233		
	SP	0.011			0.011			0.011			0.022			0.027			0.032			0.043			0.065			0.086		
	TP	0.017			0.021			0.027			0.044			0.058			0.072			0.093			0.127			0.161		
	NC	-			-			-			16			22			27			30			32			35		
	1w throw	6	8	16	8	10	20	8	14	23	10	16	25	12	18	27	14	21	29	16	21	31	18	23	33	20	25	37
	2w throw	5	6	12	6	8	16	6	11	19	8	12	20	9	14	22	11	17	23	12	17	25	14	19	27	16	20	30
	3w throw	4	5	10	5	6	13	5	9	15	6	10	16	8	11	18	9	14	19	10	14	20	11	15	22	13	16	24
	4w throw	3	4	8	4	5	10	4	7	12	5	8	13	6	9	14	7	11	15	8	11	16	9	12	17	10	13	19
8x8 .363ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	109			145			182			218			254			290			327			363			399		
	SP	0.011			0.011			0.022			0.022			0.032			0.043			0.054			0.076			0.097		
	TP	0.017			0.021			0.038			0.044			0.063			0.083			0.104			0.138			0.172		
	NC	-			-			16			16			22			32			35			37			38		
	1w throw	6	8	17	8	11	21	8	15	25	11	17	28	13	19	30	15	23	32	17	23	34	19	25	36	21	28	40
	2w throw	5	7	14	7	8	17	7	12	20	8	14	22	10	15	24	12	19	25	14	19	27	15	20	29	17	22	32
	3w throw	4	6	11	6	7	14	6	10	17	7	11	18	8	12	19	10	15	21	11	15	22	12	17	23	14	18	26
4w throw	3	4	8	4	5	11	4	7	13	5	8	14	6	10	15	7	12	16	8	12	17	10	13	18	11	14	20	
10x10 .59ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	177			236			295			354			413			472			531			590			649		
	SP	0.011			0.011			0.022			0.027			0.038			0.049			0.065			0.086			0.108		
	TP	0.017			0.021			0.038			0.049			0.069			0.089			0.115			0.148			0.183		
	NC	-			-			16			16			23			32			36			39			41		
	1w throw	8	13	27	12	17	31	14	22	35	17	27	38	20	29	41	23	32	45	25	33	47	28	35	50	31	38	55
	2w throw	7	10	21	9	14	25	11	18	28	14	21	31	16	23	33	19	25	36	20	26	37	22	28	40	25	31	44
	3w throw	6	8	17	8	11	20	9	14	23	11	17	25	13	19	27	15	21	29	17	21	30	18	23	32	20	25	36
4w throw	4	6	13	6	8	15	7	11	17	8	13	19	10	14	21	12	16	22	13	16	23	14	17	25	15	19	28	
12x12 .79ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	237			316			395			474			553			632			711			790			869		
	SP	0.011			0.011			0.022			0.032			0.043			0.054			0.076			0.097			0.119		
	TP	0.017			0.021			0.038			0.054			0.074			0.094			0.126			0.159			0.194		
	NC	-			-			16			17			24			32			37			41			44		
	1w throw	11	17	36	15	23	40	19	30	45	23	36	49	28	38	53	32	40	57	34	42	59	36	45	64	40	49	70
	2w throw	8	14	29	12	19	32	15	24	36	19	29	39	22	31	42	25	32	46	27	34	47	29	36	51	32	39	56
	3w throw	7	11	23	10	15	26	12	19	29	15	23	32	18	25	34	21	26	37	22	28	39	23	29	41	26	32	45
4w throw	5	8	18	7	12	20	10	15	22	12	18	24	14	19	27	16	20	29	17	21	30	18	22	32	20	24	35	

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14x14 1.16ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	348			464			580			696			812			928			1044			1160			1276		
	SP	0.011			0.022			0.032			0.043			0.059			0.076			0.092			0.108			0.135		
	TP	0.017			0.032			0.048			0.065			0.090			0.116			0.142			0.170			0.210		
	NC	-			16			18			21			26			33			37			41			44		
	1w throw	13	19	37	17	25	42	21	32	48	25	38	52	30	40	56	34	42	60	36	45	63	38	48	67	42	52	75
	2w throw	10	15	30	14	20	34	17	25	38	20	31	42	24	32	45	27	34	48	29	36	50	31	38	53	34	42	60
	3w throw	8	12	24	11	17	28	14	21	31	17	25	34	19	26	37	22	28	39	23	29	41	25	31	43	28	34	49
4w throw	6	10	19	8	13	21	11	16	24	13	19	26	15	20	28	17	21	30	18	22	31	19	24	33	21	26	38	
16x16 1.42ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	426			568			710			852			994			1136			1278			1420			1562		
	SP	0.022			0.032			0.043			0.054			0.076			0.086			0.103			0.119			0.151		
	TP	0.028			0.042			0.059			0.076			0.107			0.126			0.153			0.181			0.226		
	NC	15			15			21			24			29			36			39			42			46		
	1w throw	15	21	38	19	28	45	23	34	51	28	40	55	32	42	59	36	45	64	38	47	66	40	51	70	45	55	81
	2w throw	12	17	31	15	22	36	19	27	41	22	32	44	25	34	47	29	36	51	31	37	53	32	41	56	36	44	64
	3w throw	10	14	25	12	18	29	15	22	33	18	26	36	21	28	39	23	29	41	25	30	43	26	33	45	29	36	52
4w throw	7	11	19	10	14	22	12	17	25	14	20	28	16	21	30	18	22	32	19	23	33	20	25	35	22	28	40	
18x18 1.91ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	573			764			955			1146			1337			1528			1719			1910			2101		
	SP	0.025			0.037			0.050			0.062			0.087			0.099			0.118			0.137			0.174		
	TP	0.031			0.047			0.066			0.084			0.118			0.139			0.168			0.199			0.249		
	NC	15			19			24			27			32			39			42			45			50		
	1w throw	16	23	42	21	30	49	26	37	56	30	44	61	35	47	65	40	49	70	42	51	72	44	56	77	49	61	89
	2w throw	13	19	34	17	24	39	21	30	45	24	35	49	28	37	52	32	39	56	34	41	58	35	45	62	39	49	71
	3w throw	11	15	27	14	20	32	17	24	36	20	29	39	23	30	42	26	32	45	27	33	47	29	36	50	32	39	58
4w throw	8	12	21	10	15	24	13	19	28	15	22	30	17	23	33	20	24	35	21	26	36	22	28	38	24	30	44	
20x20 2.3ft/sq	FPM	300			400			500			600			700			800			900			1000			1100		
	CFM	690			920			1150			1380			1610			1840			2070			2300			2530		
	SP	0.027			0.040			0.054			0.067			0.094			0.107			0.127			0.148			0.188		
	TP	0.033			0.050			0.070			0.089			0.125			0.147			0.177			0.210			0.263		
	NC	16			20			26			29			33			41			45			48			50		
	1w throw	17	25	44	22	32	52	27	40	59	32	47	64	37	49	69	42	52	74	44	54	77	47	59	82	52	64	94
	2w throw	14	20	36	18	26	42	22	32	47	26	38	51	30	40	55	34	42	59	36	44	61	38	47	65	42	51	75
	3w throw	11	16	29	14	21	34	18	26	39	21	31	42	24	32	45	27	34	48	29	35	50	31	39	53	34	42	61
4w throw	9	12	22	11	16	26	14	20	30	16	23	32	19	25	35	21	26	37	22	27	38	23	30	41	26	32	47	

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24x24 3.30ft/sq	FPM	300					400					500					600					700					800					900					1000					1100				
	CFM	990					1320					1650					1980					2310					2640					2970					3300					3630				
	SP	0.029					0.043					0.058					0.072					0.101					0.116					0.138					0.159					0.203				
	TP	0.035					0.053					0.074					0.094					0.132					0.156					0.188					0.221					0.278				
	NC	17					21					27					31					35					44					47					50					50+				
1w throw	18	26	47	24	34	55	29	42	63	34	50	68	39	52	73	45	55	79	47	58	81	50	63	86	55	68	100																			
2w throw	15	21	38	19	27	44	23	34	50	27	40	55	31	42	59	36	44	63	38	46	65	40	50	69	44	55	80																			
3w throw	12	17	31	15	22	36	19	27	41	22	32	44	26	34	48	29	36	51	31	37	53	32	41	56	36	44	65																			
4w throw	9	13	24	12	17	28	14	21	31	17	25	34	20	26	37	22	28	39	24	29	41	25	31	43	28	34	50																			

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- 4) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006