Performance Data

SHOEMAKER MANUFACTURING

HVD Series

		FPM	300			400			500			600			700			800			1000			1200		
		VP	0.006			0.01			0.016			0.022			0.031			0.04			0.062			0.075		
6"	.195ft/sq	CFM	60			80			100			115			135			155			195			235		
		SP	0.008			0.016			0.024			0.032			0.049			0.057			0.089			0.130		
		TP	0.014			0.026			0.040			0.054			0.080			0.097			0.151			0.205		
		NC	-			-			-			-			20			23			29			32		
		Throw	1	2	5	2	2	6	2	3	8	2	4	10	3	6	11	4	6	13	5	9	15	6	11	17
7"	.265ft/sq	FPM	300			400			500			600			700			800			1000			1200		
		CFM	80			105			135			160			185			210			265			320		
		SP	0.01			0.02			0.03			0.04			0.05			0.06			0.10			0.14		
		TP	0.02			0.03			0.04			0.06			0.09			0.10			0.16			0.22		
		NC	-			-			-			18			23			28			35			37		
		Throw	1	2	5	2	3	7	2	4	9	3	5	11	4	6	13	5	7	14	5	10	16	6	13	19
8"	.35ft/sq	FPM	300			400			500			600			700			800			1000			1200		
		CFM	105			135			170			205			240			275			345			420		
		SP	0.01			0.02			0.03			0.04			0.06			0.07			0.11			0.16		
		TP	0.016			0.03			0.046			0.062			0.091			0.11			0.172			0.235		
		NC	-			-			-			20			26			31			39			42		
		Throw	1	2	6	2	3	8	2	4	10	3	5	12	4	7	14	5	8	16	6	11	18	7	14	21
9"	.439ft/sq	FPM	300			400			500			600			700			800			1000			1200		
		CFM	130			175			220			265			305			350			440			525		
		SP	0.015			0.0275			0.04			0.055			0.0775			0.095			0.135			0.1875		
		TP	0.021			0.0375			0.056			0.077			0.1085			0.135			0.197			0.2625		
		NC	-			-			18			22			28			32			39			42		
		Throw	2	3	8	3	5	11	4	6	13	5	7	15	6	9	17	7	11	19	8	14	21	10	17	24
10"	.542ft/sq	FPM	300			400			500			600			700			800			1000			1200		
		CFM	155			210			260			310			365			415			520			625		
		SP	0.02			0.035			0.05			0.07			0.095			0.12			0.16			0.215		
		TP	0.026			0.045			0.066			0.092			0.126			0.16			0.222			0.29		
		NC	-			-			20			25			30			34			40			43		
		Throw	3	5	10	4	6	13	5	8	16	6	10	18	8	12	19	9	13	21	11	16	24	13	20	27

Performance Data

HVD Series

12"	.77ft/sq	FPM	300			400			500			600			700			800			1000			1200		
		CFM	230			310			385			465			540			620			775			925		
		SP	0.03			0.05			0.07			0.1			0.13			0.17			0.21			0.27		
		TP	0.036			0.06			0.086			0.122			0.161			0.21			0.272			0.345		
		NC	-			-			25			31			35			38			42			45		
		Throw	4	7	14	6	9	18	8	11	21	9	14	23	11	16	24	12	18	26	15	21	29	18	25	33
14"	1.06ft/sq	FPM	300			400			500			600			700			800			1000			1200		
		CFM	320			425			530			635			740			850			1060			1270		
		SP	0.035			0.060			0.085			0.120			0.155			0.200			0.240			0.305		
		TP	0.041			0.07			0.10			0.14			0.19			0.24			0.30			0.38		
		NC	-			-			25			31			35			38			42			46		
		Throw	5	9	17	8	11	20	10	14	23	11	17	25	13	18	26	15	20	28	18	23	31	21	27	36
16"	1.38ft/sq	FPM	300			400			500			600			700			800			1000			1200		
		CFM	415			550			690			830			965			1105			1380			1655		
		SP	0.04			0.07			0.10			0.14			0.18			0.23			0.27			0.34		
		TP	0.05			0.08			0.12			0.16			0.21			0.27			0.33			0.42		
		NC	-			21			26			31			35			38			43			46		
		Throw	6	10	19	9	13	21	11	16	24	13	19	26	15	20	28	17	21	30	20	24	33	23	29	38

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