



# SpotDiffuser Performance Data (Metric)

Model: **PK-R/PK-RA**

SIZE	Approx.Nozzle Velocity		2.53				5.06				7.59				10.12				12.65				15.18				17.71				20.24			
	Terminal Velocity, Vt		0.25	0.51	1.01	2.02	0.25	0.51	1.01	2.02	0.25	0.51	1.01	2.02	0.25	0.51	1.01	2.02	0.25	0.51	1.01	2.02	0.25	0.51	1.01	2.02	0.25	0.51	1.01	2.02	0.25	0.51	1.01	2.02
6	Nozzle Area 0.0044 sq.m	CFH	43				85				136				170				204				255				289				323			
		PA	0.5				1.8				4.6				7.4				11.2				20.8				23.6				30.5			
		NC	-				-				<20				20				21				27				30				33			
		Throw (m)	5.7	3.0	1.5	-	9.0	4.8	2.4	1.2	15.0	7.5	3.9	2.4	19.5	9.3	5.1	2.7	24.0	1.1	6.0	3.0	30.0	13.5	6.9	3.6	33.5	16.5	8.4	4.2	37.5	15.0	9.0	4.5
7	Nozzle Area 0.0063 sq.m	CFH	60				119				187				238				289				357				408				476			
		PA	0.4				1.5				4.6				7.1				10.4				16.5				22.9				31.8			
		NC	-				-				<20				20				25				29				34				38			
		Throw (m)	6.6	3.3	1.8	0.6	10.8	5.7	2.7	1.2	18.0	8.7	4.5	2.4	24.0	10.8	5.7	3.0	27.0	13.5	6.9	3.6	31.5	18.0	8.1	4.2	37.5	19.5	9.6	4.8	45.0	21.6	11.1	5.7
8	Nozzle Area 0.0079 sq.m	CFH	77				153				221				289				374				442				510				578			
		PA	0.4				1.5				4.3				6.9				9.7				16.3				23.4				30.5			
		NC	-				<20				<20				22				27				33				35				39			
		Throw (m)	7.5	3.6	2.1	1.2	12.0	6.0	3.6	1.8	18.6	9.0	4.8	2.7	25.5	11.7	6.0	3.3	31.5	15.6	8.1	3.9	37.5	18.6	9.0	5.1	45.0	21.6	10.5	5.7	48.6	24.0	11.4	6.0
10	Nozzle Area 0.0153 sq.m	CFH	145				289				425				561				714				850				986				1122			
		PA	0.4				1.5				3.6				6.1				11.2				16.0				23.4				30.5			
		NC	-				<20				<20				20				26				30				34				38			
		Throw (m)	9.0	4.5	2.4	1.5	16.5	9.0	4.2	2.1	27.0	12.6	6.6	3.0	33.6	16.5	8.7	4.2	44.4	21.6	10.8	5.1	48.6	25.2	12.6	6.3	57.0	30.0	14.4	7.2	67.5	33.6	16.5	8.4
12	Nozzle Area 0.0214 sq.m	CFH	196				391				595				782				986				1173				1377				1564			
		PA	0.3				1.4				3.0				5.6				10.9				25.2				23.4				30.5			
		NC	-				<20				<20				23				28				32				36				40			
		Throw (m)	10.5	5.1	2.7	1.8	19.8	10.5	5.1	2.5	30.0	15.0	8.1	3.9	41.1	19.5	10.2	5.1	48.6	24.6	12.6	6.6	56.1	30.0	15.0	7.8	66.0	33.6	17.1	8.7	75.0	39.0	21.0	10.2
16	Nozzle Area 0.0417 sq.m	CFH	383				765				1156				1530				1904				2295				2669				3060			
		PA	0.3				1.5				3.0				5.3				10.4				15.7				22.9				29.2			
		NC	-				20				21				26				29				37				40				44			
		Throw (m)	14.1	7.5	3.6	2.1	27.0	14.1	7.2	3.6	41.4	19.8	10.8	5.4	52.5	28.5	14.1	6.9	37.5	33.6	16.5	8.4	75.0	41.1	19.5	10.5	82.5	48.0	24.0	12.6	105.0	52.5	28.5	14.1
18	Nozzle Area 0.0534 sq.m	CFH	493				986				1462				1955				2448				2924				3417				3910			
		PA	0.3				1.5				2.5				5.3				10.7				15.2				22.9				29.2			
		NC	-				<20				20				25				31				35				39				42			
		Throw (m)	16.5	8.1	3.9	2.1	33.6	16.5	8.1	3.9	45.6	29.4	12.0	6.0	60.0	33.0	15.6	7.8	75.0	37.5	20.1	9.9	90.0	46.5	23.4	12.0	105.0	52.5	27.0	14.1	120.0	60.0	33.0	14.4
20	Nozzle Area 0.0758 sq.m	CFH	697				1394				2091				2771				3468				4165				4845				5542			
		PA	0.3				1.5				3.0				4.3				10.4				15.5				22.9				30.5			
		NC	-				<20				20				27				32				38				42				45			
		Throw (m)	21.0	11.4	6.0	3.0	45.0	22.5	11.7	5.4	66.0	33.7	16.8	8.7	82.5	45.0	22.5	11.1	105.0	52.5	27.0	14.1	120.0	63.6	33.6	16.8	127.5	75.0	37.5	19.5	135.0	82.5	45.0	22.5

DASHED LINE IN SP BOX INDICATES STATIC PRESSURE IS LESS THAN 0.254mmAq.  
 DASHED LINE IN NC BOX INDICATES NOISE LEVEL IS LESS THAN 20.  
 NC LEVEL IS BASED ON 10dB ROOM ATTENUATION(PWL RE:10-12 WATTS) WITH ONE DIFFUSER OPERATING.

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