



# SEIHO - PKP - ALUMINUM SPOT DIFFUSER PERFORMANCE DATA



SpotDiffuser Performance Data (Metric)

Model: PK/PK-E

SIZE	Approx. Nozzle Velocity Terminal Velocity, Vt	2.53				5.06				7.59				10.12				12.65				15.18				17.71				20.24								
		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					
3	Nozzle Area 0.011 sq.m	CMH	8.5				17				26				34				43				60				68				77							
		PA	0.3				0.8				2.3				4.8				7.9				19.1				20.8				27.9							
		NC	-				-				-				<20				<20				21				23				25							
		Throw (m)	2.1	1.5	0.6	-	3.7	2.1	0.9	-	5.4	2.7	1.8	0.6	7.5	3.6	2.1	0.9	9.3	4.5	2.4	1.2	15.0	7.5	3.6	1.8	16.5	8.1	3.9	2.1	18.0	9.0	4.5	2.4				
4	Nozzle Area 0.0019 sq.m	CMH	17				34				51				68				85				102				119				136							
		PA	0.3				1.3				3.6				6.4				9.9				14.2				20.3				26.7							
		NC	-				-				<20				<20				21				24				28				32							
		Throw (m)	2.7	1.8	0.9	-	5.4	3.0	1.5	-	8.1	4.2	2.1	0.9	10.8	5.4	2.7	1.5	13.2	6.9	3.6	1.8	15.9	8.4	4.2	2.1	19.5	9.6	4.8	2.4	22.5	11.1	5.4	2.7				
5	Nozzle Area 0.0034 sq.m	CMH	34				68				102				136				153				187				221				255							
		PA	0.5				1.8				4.6				7.9				10.2				17.3				23.6				33.0							
		NC	-				-				<20				<20				22				27				32				35							
		Throw (m)	4.5	3.0	1.5	-	9	4.5	2.4	0.6	12.6	6.3	2.7	1.8	16.5	8.7	4.5	2.4	18.6	10.5	5.1	2.7	24.0	12.0	5.7	3.0	29.4	13.5	8.7	3.6	31.5	15.6	8.1	4.2				
6	Nozzle Area 0.0044 sq.m	CMH	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	11.1	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	CMH	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	CMH	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				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	CMH	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				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	CMH	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				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	CMH	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	CMH	493				986				1482				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	CMH	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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