

# Performance Data



## Linear-SS 1/2" Supply Diffuser Series

Width	Eff. Area (ft <sup>2</sup> )	Velocity Duct Pt.	300			400			500			600			700			800			900			1000		
			0.006			0.010			0.015			0.021			0.029			0.038			0.048			0.065		
1 1/2"	0.053	CFM/ft	16			21			27			32			37			42			48			53		
		NC	<20			<20			<20			20			25			25-30			30-35			35		
		Throw	3	3.5	4	4.5	5	5.5	5	5.5	6	6	7	8	7	8	9	8	9.5	11	8.5	10	12.5	9.5	12	14.5
2"	0.095	CFM/ft	29			38			48			57			67			76			86			95		
		NC	<20			<20			<20			20			25			25-30			30-35			35		
		Throw	4	4.5	5	5.5	6	6.5	7	8	9	8	9.5	11	10	11.5	13	10.5	12.5	14.5	12	15	18	13	17	20
2 1/2"	0.116	CFM/ft	35			46			58			70			81			93			104			116		
		NC	<20			<20			<20			20			25			25-30			30-35			35		
		Throw	5	5.5	6	6.5	7	7.5	8	9	10	8.5	10	11.5	10.5	12.5	14.5	11.5	13.5	16	13	17	20	14	18	22
3"	0.158	CFM/ft	48			63			79			95			111			126			142			158		
		NC	<20			<20			<20			20			25			25-30			30-35			35		
		Throw	5.5	6	6.5	7	8	9	9.5	10.5	11.5	10.5	12.5	14.5	13	15	17	14	17	19	16	20	23	17	22	26
3 1/2"	0.185	CFM/ft	55			74			92			110			142			147			166			184		
		NC	<20			<20			20			20			25			30			35			40		
		Throw	6.5	7	7.5	8	9	10	10.5	11.5	12.5	11.5	13.5	16	14	17	19	15	18	21	17	21	25	18	23	27
4"	0.221	CFM/ft	66			88			111			133			155			177			199			221		
		NC	<20			<20			20			25			25			30			35			40		
		Throw	7	7.5	8.5	9.5	10.5	11.5	11.5	12.5	14	13	16	18	15	18	21	18	21	24	17	22	26	19	24	29
5"	0.289	CFM/ft	87			116			145			173			202			231			260			289		
		NC	<20			<20			20			25			30			30-35			35-40			40		
		Throw	8	9	10	10.5	11.5	12.5	13.5	15	17	14	17	19	17	20	22	19	23	26	20	26	31	23	29	34
6"	0.352	CFM/ft	106			141			176			211			246			282			317			352		
		NC	<20			<20			20			25			25-30			30			35-40			40		
		Throw	8.5	9.5	10.5	11.5	12.5	14	14	15.5	17	17	20	22	18	21	24	19	23	26	20	26	31	23	29	34
8"	0.483	CFM/ft	145			193			242			290			338			386			435			483		
		NC	<20			<20			20			25			30			30-35			35-40			40		
		Throw	10.5	11.5	12.5	13.5	15	17	15	17	18	18	21	24	22	26	29	24	29	33	26	33	40	30	38	45
10"	0.609	CFM/ft	183			244			305			365			426			487			548			609		
		NC	<20			20			25			25-30			30-35			30-35			40			45		
		Throw	11.5	12.5	14	15	17	18	19	21	23	20	24	28	24	29	33	28	33	38	30	38	45	32	41	49
12"	0.746	CFM/ft	224			298			373			448			522			597			671			746		
		NC	<20			20			25			30			35			35-40			40			45		
		Throw	13.5	15	17	16	18	20	22	24	26	24	29	33	27	32	36	31	36	41	31	39	47	37	47	56
14"	0.888	CFM/ft	266			355			444			533			622			710			799			888		
		NC	<20			20			25			30			35-40			40			45			45		
		Throw	16	18	20	20	23	25	24	27	30	26	30	35	29	35	40	32	38	43	36	45	54	42	53	63

### Performance Notes:

1 Performance data calculated with blades set at 0°

2 Throw values are measured in feet for terminal velocities of 100/75/50 FPM

3 Throw data is based on supply air and room air both at isothermal conditions

4 Effective areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air