



USAIRE

Performance Data

MODEL 1510D

Model 1510D

Steel Stamped Face Floor Register

CFM	Outlet Size	2x10	2x12	2x14	4x8	4x10	4x12	4x14	6x10	6x12	6x14
25	Face Velocity	160									
	Ps	.007									
	Spread / Throw	3 2									
50	Face Velocity	320	267	229	225	180	150				
	Ps	.029	.020	.015	.015	.009	.006				
	Spread / Throw	6 4	5 4	5 4	5 4	4 3	4 3				
75	Face Velocity	480	400	343	338	270	225	193	180	150	
	Ps	.066	.046	.034	.034	.021	.014	.011	.009	.006	
	Spread / Throw	7 6	7 5	7 5	7 5	6 5	6 4	5 4	5 4	5 4	
100	Face Velocity	640	533	457	450	360	300	257	240	200	171
	Ps	.117	.081	.060	.060	.037	.026	.019	.011	.011	.008
	Spread / Throw	9 7	8 6	8 6	8 6	7 6	7 5	7 5	6 5	6 5	6 4
125	Face Velocity	800	667	571	563	450	375	321	300	250	214
	Ps	.183	.127	.093	.093	.058	.040	.030	.026	.018	.013
	Spread / Throw	11 6	10 7	9 7	9 7	9 6	8 6	8 6	8 6	7 5	7 5
150	Face Velocity		800	686	625	540	450	386	360	300	257
	Ps		.183	.135	.135	.083	.058	.043	.037	.026	.019
	Spread / Throw		11 6	11 6	11 8	10 7	9 7	9 7	9 6	8 6	8 6
175	Face Velocity			800	788	630	525	450	420	350	300
	Ps			.183	.183	.114	.079	.058	.050	.035	.026
	Spread / Throw			12 9	12 9	11 8	10 8	10 7	9 7	9 7	8 6
200	Face Velocity				900	720	600	614	480	400	343
	Ps				.239	.188	.130	.096	.083	.058	.043
	Spread / Throw				14 11	13 10	12 9	11 7	11 8	11 8	10 6
225	Face Velocity					810	675	579	540	450	396
	Ps					.232	.161	.118	.103	.072	.053
	Spread / Throw					14 10	13 10	12 9	12 9	11 8	11 8
250	Face Velocity					900	750	643	600	500	429
	Ps					.272	.195	.143	.125	.067	.064
	Spread / Throw					16 12	14 10	13 10	13 10	13 9	11 9
275	Face Velocity						825	707	660	550	471
	Ps						.232	.170	.148	.103	.076
	Spread / Throw						15 11	14 10	14 10	13 10	12 9
300	Face Velocity						900	771	720	600	514
	Ps						.272	.200	.174	.121	.089
	Spread / Throw						16 12	15 11	14 11	13 11	13 10
325	Face Velocity							836	780	650	557
	Ps							.232	.202	.140	.103
	Spread / Throw							15 12	15 11	14 11	13 10
350	Face Velocity							900	840	700	600
	Ps							.267	.232	.161	.118
	Spread / Throw							16 13	16 12	15 12	14 10

Notes:

Neck Velocity - The neck velocity is in feet per minute

Face Velocity - The discharge velocity is in feet per minute

Ps - Static pressure readings are in inches water gauge.

Throw - Throw indicated are based on total number of feet of projected air when a terminal velocity of 50 feet per minute is reached. Values reflect side louver throw and center louver throw respectively. Throw should extend at least 75% of the distance from the face of the grille to the wall opposite the outlet. Throws are based on a 9 foot ceiling height.

Spread - Horizontal spread is measured in feet per minute

For sizes not shown, refer to online tools **GRD Selection Program** performance calculator on Home Page