

Eggcrate Face Return 85 Series



Performance Data - Imperial Units

Core Area Sq. ft	Nominal Size	Core Velocity Velocity Pressure Negative s.p.	NC20							30		
			100 0.001 0.010	200 0.002 0.034	300 0.006 0.068	400 0.010 0.112	500 0.016 0.166	600 0.022 0.228	700 0.031 0.298			
0.15	7x4	cfm	15	30	45	60	75	90	105			
	6x5	NC	—	—	—	15	21	26	30			
0.18	8x4	6x6	cfm	18	36	54	72	90	108	126		
	7x5		NC	—	—	—	16	22	27	31		
0.22	10x4	7x6	cfm	22	44	66	88	110	132	154		
	8x5		NC	—	—	—	16	22	27	32		
0.26	12x4	8x6	cfm	26	52	78	104	130	156	182		
	10x5		NC	—	—	—	17	23	28	32		
0.3	14x4		cfm	30	60	90	120	150	180	210		
			NC	—	—	—	18	24	28	33		
0.34	16x4	10x6	cfm	34	68	102	136	170	204	238		
	12x5		NC	—	—	—	18	24	29	33		
0.39	18x4	12x6	cfm	39	78	117	156	195	234	273		
	14x5	8x8	NC	—	—	—	18	24	29	34		
0.46	20x4	14x6	cfm	46	92	138	184	230	276	322		
	16x5	10x8	NC	—	—	—	19	25	30	34		
0.52	24x4	16x6	cfm	52	104	156	208	260	312	364		
	18x5		NC	—	—	—	19	26	30	35		
0.6	28x4	18x6	10x10	cfm	60	120	180	240	300	360	420	
	20x5	12x8		NC	—	—	—	20	26	31	35	
0.69	30x4	20x6	12x10	cfm	69	138	207	276	345	414	483	
	24x5	14x8		NC	—	—	—	20	27	31	36	
0.81	36x4	22x6	14x10	cfm	81	162	243	324	405	486	567	
	28x5	16x8		NC	—	—	—	21	27	32	36	
0.9	40x4	26x6	16x10	cfm	90	180	270	360	450	540	630	
	30x5	18x8	12x12	NC	—	—	—	21	27	32	37	
1.07	48x4	30x6	14x12	cfm	107	214	321	428	535	642	749	
	36x5	18x10		NC	—	—	—	22	28	33	37	
1.18	34x6	20x10	14x14	cfm	118	236	354	472	590	708	826	
	24x8	16x12		NC	—	—	—	22	28	33	38	
1.34	60x4	36x6	18x12	cfm	134	268	402	536	670	804	938	
	48x5	22x10	16x14	NC	—	—	—	15	23	29	34	
1.6	72x4	24x10	18x14	cfm	160	320	480	640	800	960	1120	
	30x8	22x12	16x16	NC	—	—	—	16	23	30	34	
1.8	60x5	36x8	24x12	18x16	cfm	180	360	540	720	900	1080	1260
	48x6	30x10	20x14		NC	—	—	—	16	24	30	35
2.08	72x5	40x8	30x12	20x16	cfm	208	416	624	832	1040	1248	1456
	60x6	36x10	24x14	18x18	NC	—	—	—	17	24	30	35
2.45	72x6	32x12	24x16		cfm	245	490	735	980	1225	1470	1715
	48x8	26x14	20x18		NC	—	—	—	17	25	31	36
2.78	36x12	26x16	22x20		cfm	278	556	834	1112	1390	1668	1946
	30x14	24x18			NC	—	—	—	18	25	32	36
3.11	60x8	40x12	30x16	22x22	cfm	311	622	933	1244	1555	1866	2177
	48x10	36x14	26x18		NC	—	—	—	18	26	32	37
3.61	72x8	48x12	30x18		cfm	361	722	1083	1444	1805	2166	2527
	60x10	36x16	24x24		NC	—	—	—	19	26	32	37
4.29	48x14	32x20			cfm	429	858	1287	1716	2145	2574	3003
	36x18	28x24			NC	—	—	—	19	27	33	38
4.65	72x10	36x20			cfm	465	930	1395	1860	2325	2790	3255
	48x16	30x24			NC	—	—	—	20	27	33	38
5.58	72x12	48x18			cfm	558	1116	1674	2232	2790	3348	3906
	60x14	36x24			NC	—	—	—	20	28	34	39
6.25	72x14	48x20			cfm	625	1250	1875	2500	3125	3750	4375
	60x16	30x30			NC	—	—	—	21	28	34	39

Performance Notes

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. NC values are based on room absorption of 10 dB re 10⁻¹² Watts and one grille.
5. Blanks (—) indicate an NC level below 15.

Eggcrate Face Return 85 Series



Performance Data - Metric Units

Core Area Sq. M.	Nominal Size (mm)		Core Velocity (m/s) Velocity Pressure (Pa) Negative SP (Pa)	NC20									
				0.5	1.0	1.5	2.0	2.5	3.0	3.5			
				0	1	1	2	4	6	8			
			2	8	17	28	41	57	74				
0.014	178 x 102		L/s	7	14	21	28	35	42	50			
	152 x 127		NC	-	-	-	15	21	26	30			
0.017	203 x 102	152 x 152	L/s	8	17	25	34	42	51	59			
	178 x 102		NC	-	-	-	16	22	27	31			
0.02	254 x 102	178 x 152	L/s	10	21	31	42	52	62	73			
	203 x 127		NC	-	-	-	16	22	27	32			
0.024	305 x 102	203 x 152	L/s	12	25	37	49	61	74	86			
	254 x 127		NC	-	-	-	17	23	28	32			
0.028	356 x 102		L/s	14	28	42	57	71	85	99			
			NC	-	-	-	18	24	28	33			
0.032	406 x 102	254 x 152	L/s	16	32	48	64	80	96	112			
	305 x 127		NC	-	-	-	18	24	29	33			
0.036	457 x 102	305 x 152	L/s	18	37	55	74	92	110	129			
	356 x 127	203 x 203	NC	-	-	-	18	24	29	34			
0.043	508 x 102	356 x 152	L/s	22	43	65	87	109	130	152			
	406 x 127	254 x 203	NC	-	-	-	19	25	30	34			
0.048	610 x 102	406 x 152	L/s	25	49	74	98	123	147	172			
	457 x 127		NC	-	-	-	19	26	30	35			
0.056	711 x 102	457 x 152	254 x 254	L/s	28	57	85	113	142	170	198		
	508 x 127	305 x 203		NC	-	-	-	20	26	31	35		
0.064	762 x 102	508 x 152	305 x 254	L/s	33	65	98	130	163	195	228		
	610 x 127	356 x 203		NC	-	-	-	20	27	31	36		
0.075	914 x 102	559 x 152	356 x 254	L/s	38	76	115	153	191	229	268		
	711 x 127	406 x 203		NC	-	-	-	21	27	32	36		
0.084	1016 x 102	660 x 152	406 x 254	L/s	42	85	127	170	212	255	297		
	762 x 127	457 x 203	305 x 305	NC	-	-	-	21	27	32	37		
0.099	1219 x 102	762 x 152	356 x 305	L/s	51	101	152	202	253	303	354		
	914 x 127	457 x 254		NC	-	-	-	22	28	33	37		
0.11	864 x 152	508 x 254	356 x 356	L/s	56	111	167	223	278	334	390		
	610 x 203	406 x 305		NC	-	-	-	22	28	33	38		
0.124	1524 x 102	914 x 152	457 x 305	L/s	63	126	190	253	316	379	443		
	1219 x 127	559 x 254	406 x 356	NC	-	-	15	23	29	34	38		
0.149	1829 x 102	610 x 254	457 x 356	L/s	76	151	227	302	378	453	529		
	762 x 203	559 x 305	406 x 406	NC	-	-	16	23	30	34	39		
0.167	1524 x 127	914 x 203	610 x 305	457 x 406	L/s	85	170	255	340	425	510	595	
	1219 x 152	762 x 254	508 x 356		NC	-	-	16	24	30	35	39	
0.193	1829 x 127	1016 x 203	762 x 305	508 x 406	L/s	98	196	295	393	491	589	687	
	1524 x 152	914 x 254	610 x 356	457 x 457	NC	-	-	17	24	30	35	40	
0.228	1829 x 152	813 x 305	610 x 406		L/s	116	231	347	463	578	694	809	
	1219 x 203	660 x 356	508 x 457		NC	-	-	17	25	31	36	40	
0.258	914 x 305	660 x 406	559 x 508		L/s	131	262	394	525	656	787	919	
	762 x 356	610 x 457			NC	-	-	18	25	32	36	41	
0.289	1524 x 203	1016 x 305	762 x 406	559 x 559	L/s	147	294	440	587	734	881	1,028	
	1219 x 254	914 x 356	660 x 457		NC	-	-	18	26	32	37	41	
0.335	1829 x 203	1219 x 305	762 x 457		L/s	170	341	511	682	852	1,022	1,193	
	1524 x 254	914 x 406	610 x 610		NC	-	-	19	26	32	37	42	
0.399	1219 x 356	813 x 508			L/s	202	405	607	810	1,012	1,215	1,417	
	914 x 457	711 x 610			NC	-	-	19	27	33	38	42	
0.432	1829 x 254	914 x 508			L/s	219	439	658	878	1,097	1,317	1,536	
	1219 x 406	762 x 610			NC	-	-	20	27	33	38	42	
0.518	1829 x 305	1219 x 457			L/s	263	527	790	1,054	1,317	1,580	1,844	
	1524 x 356	914 x 610			NC	-	-	20	28	34	39	43	
0.581	1829 x 356	1219 x 508			L/s	295	590	885	1,180	1,475	1,770	2,065	
	1524 x 406	762 x 762			NC	-	-	21	28	34	39	44	

Performance Notes

- Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets".
- All pressures are in Pascals (Pa).
- NC values are based on a room absorption of 10 dB re 10⁻¹² watts.
- Blanks (-) indicate an NC level below 15.
- Grille tested without damper. Corrections for grille with damper:
Add 6 dB to the listed NC.
Multiply listed Negative Static Pressure by 1.3.
- The performance tables are based on grilles with F border. For ED border the following correction factors must be applied due to the reduced core area of this border:
- Does not include pressure drop through filter on FF, FH models.