

# 1444 Modular Core

Neck Size	6 x 6	8 x 8	10 x 10	12 x 12	14x14	16x16	18x18	20x20		
No. of Blades per Module	6 x 6	8 x 8	10 x 10	12 x 12	14x14	16x16	18x18	20x20		
Effective Area (Ak) in Sq. Ft.	.100	.178	.278	.400	.544	.711	.900	1.111	Jet Velocity	Neck Velocity
CFM	75	133	208	300	408	533	675	833	750	300
4-way throw in feet	8	10	13	15	18	21	23	26		
Noise Criteria	<20	<20	<20	<20	<20	<20	<20	<20		
Static Press inches wc	.005	.008	.010	.014	.018	.023	.029	.035		
CFM	100	178	278	400	544	711	900	1111	1000	400
4-way throw in feet	9	12	15	18	21	24	27	30		
Noise Criteria	<20	<20	<20	<20	<20	20	<25	<25		
Static Press inches wc	.009	.013	.019	.025	.033	.042	.052	.063		
CFM	125	222	347	500	681	889	1125	1389	1250	500
4-way throw in feet	10	13	17	20	23	27	30	33		
Noise Criteria	<20	<20	<20	20	<25	<30	<30	30		
Static Press inches wc	.014	.020	.029	.039	.051	.065	.081	.098		
CFM	150	267	417	600	817	1067	1350	1667	1500	600
4-way throw in feet	11	15	18	22	25	29	33	36		
Noise Criteria	<20	<20	<25	25	<30	<35	<35	35		
Static Press inches wc	.021	.031	.043	.057	.075	.095	.117	.143		
CFM	175	311	486	700	953	1244	1575	1944	1750	700
4-way throw in feet	12	16	20	24	28	31	35	39		
Noise Criteria	<20	<25	<30	<30	<35	35	<40	<40		
Static Press inches wc	.028	.040	.057	.077	.101	.128	.159	.193		
CFM	200	356	556	800	1089	1422	1800	2222	2000	800
4-way throw in feet	13	17	21	25	29	34	38	42		
Noise Criteria	<20	25	<30	<35	<40	<40	<45	<45		
Static Press inches wc	.037	.053	.075	.101	.132	.167	.208	.253		

Throw is at 50 fpm terminal velocity  
 NC is based on 10dB room attenuation (10<sup>-12</sup> watts)

CFM  
3-way throw in feet  
Noise Criteria  
Static Press inches wc

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## MCD Modular Ceiling Diffuser - Aluminum (Page 36, 37)

Module Size		8 x 8	10 x 10	12 x 12	14x14	16x16	18x18	20x20	Jet Velocity	Neck Velocity
<b>Effective Area (Ak) in Sq. Ft.</b>		<b>.178</b>	<b>.278</b>	<b>.400</b>	<b>.544</b>	<b>.711</b>	<b>.900</b>	<b>1.111</b>		
CFM	75	133	208	300	408	533	675	833	750	300
3-way throw in feet										
Noise Criteria	<20	<20	<20	<20	<20	<20	<20	<20		
Static Press inches wc	.005	.008	.010	.014	.018	.023	.029	.035		
CFM	100	178	278	400	544	711	900	1111	1000	400
3-way throw in feet										
Noise Criteria	<20	<20	<20	<20	<20	20	<25	<25		
Static Press inches wc	.009	.013	.019	.025	.033	.042	.052	.063		
CFM	125	222	347	500	681	889	1125	1389	1250	500
3-way throw in feet										
Noise Criteria	<20	<20	<20	20	<25	<30	<30	30		
Static Press inches wc	.014	.020	.029	.039	.051	.065	.081	.098		
CFM	150	267	417	600	817	1067	1350	1667	1500	600
3-way throw in feet										
Noise Criteria	<20	<20	<25	25	<30	<35	<35	35		
Static Press inches wc	.021	.031	.043	.057	.075	.095	.117	.143		
CFM	175	311	486	700	953	1244	1575	1944	1750	700
3-way throw in feet										
Noise Criteria	<20	<25	<30	<30	<35	35	<40	<40		
Static Press inches wc	.028	.040	.057	.077	.101	.128	.159	.193		
CFM	200	356	556	800	1089	1422	1800	2222	2000	800
3-way throw in feet										
Noise Criteria	<20	25	<30	<35	<40	<40	<45	<45		
Static Press inches wc	.037	.053	.075	.101	.132	.167	.208	.253		

Throw is at 50 fpm terminal velocity  
 NC is based on 10dB room attenuation ( $10^{-12}$  watts)

Face Velocity	
Pressure Loss	
<b>6 x 6</b>	CFM 3-way throw in feet
<u>Ak</u> <b>.100</b>	Noise Criteria Static Press inches wc
<b>8 x 8</b>	CFM 3-way throw in feet
<u>Ak</u> <b>.178</b>	Noise Criteria Static Press inches wc
<b>10 x 10</b>	CFM 3-way throw in feet
<u>Ak</u> <b>.278</b>	Noise Criteria Static Press inches wc
<b>12 x 12</b>	CFM 3-way throw in feet
<u>Ak</u> <b>.400</b>	Noise Criteria Static Press inches wc
<b>14 x 14</b>	CFM 3-way throw in feet
<u>Ak</u> <b>.544</b>	Noise Criteria Static Press inches wc
<b>16 x 16</b>	CFM 3-way throw in feet
<u>Ak</u> <b>.711</b>	Noise Criteria Static Press inches wc
<b>18 x 18</b>	CFM 3-way throw in feet
<u>Ak</u> <b>.900</b>	Noise Criteria Static Press inches wc
<b>20 x 20</b>	CFM 3-way throw in feet
<u>Ak</u> <b>1.111</b>	Noise Criteria Static Press inches wc

Throw is at 50 fpm terminal velocity

NC is based on 10dB room attenuation ( $10^{-12}$  watts)