

## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293	
			CFM NC	— —	A	B	A	B	A	B	A	B	A	B	A	B
9 x 6  .375 SQ. FT.	RETURN FACTORS —SP=1.2 TP NC + 0	CFM NC	110 —	—	150 14	—	185 20	—	225 25	—	260 29	—	300 33	—	335 37	—
	4B	CFM/SIDE THROW, FT.	37 18 7-11-13 5-6-10	50 25 10-12-16 6-7-11	62 31 11-13-18 7-10-12	75 37 12-14-19 7-10-13	87 44 12-16-20 10-11-14	100 50 13-17-22 10-12-15	112 56 14-18-23 11-12-16							
	3A1	CFM/SIDE THROW, FT.	47 18 10-11-14 5-6-10	62 25 11-12-17 6-7-11	78 31 12-13-19 7-10-12	94 37 13-14-20 7-10-13	109 44 14-16-22 10-11-14	125 50 14-17-23 10-12-15	140 56 16-18-26 11-12-16							
	3A2	CFM/SIDE THROW, FT.	42 35 8-12-14 6-8-13	55 47 10-13-17 8-10-14	70 58 12-14-19 10-12-16	84 70 13-16-21 10-13-17	98 82 13-17-22 12-13-18	112 94 14-18-23 12-14-19	126 105 16-19-25 13-16-21							
	2A 2B	CFM/SIDE THROW, FT.	56 11-12-16	75 12-14-19	93 13-16-22	112 14-18-23	131 16-19-24	150 17-20-26	168 18-22-29							
	2C 2E	CFM/SIDE THROW, FT.	75 37 12-14-19 8-12-14	100 50 13-16-22 10-13-17	125 62 14-18-25 12-14-19	150 75 16-19-29 13-16-21	175 87 17-21-29 13-17-25	200 100 18-22-31 14-18-23	225 112 20-23-33 16-20-25							
1A 1B	CFM/SIDE THROW, FT.	112 14-17-23	150 17-19-29	187 19-22-31	225 21-23-34	262 22-25-36	300 23-29-39	337 25-29-42								
12 x 6  .50 SQ. FT.	RETURN FACTORS —SP=1.6 TP NC + 1	CFM NC	150 —	—	200 14	—	250 20	—	300 26	—	350 31	—	400 35	—	450 39	—
	4B	CFM/SIDE THROW, FT.	56 18 11-13-17 5-6-10	75 25 12-14-19 6-7-11	94 31 13-17-22 7-10-12	113 37 14-18-23 7-10-13	131 44 16-19-26 10-11-14	150 50 17-20-26 10-11-14	169 56 18-22-29 11-12-16							
	3A1	CFM/SIDE THROW, FT.	66 18 11-13-18 5-6-10	87 25 12-14-20 6-7-11	109 31 13-17-23 7-10-12	131 37 14-18-26 7-10-13	153 44 16-19-26 10-11-14	175 50 17-20-29 10-11-14	197 56 18-22-30 11-12-16							
	3B	CFM/SIDE THROW, FT.	75 37 11-16-20 8-12-14	100 50 14-18-23 10-13-17	126 62 16-20-27 12-14-19	150 75 18-22-29 13-16-21	176 87 18-23-31 13-17-25	200 100 20-25-32 14-18-23	226 112 22-27-34 16-20-25							
	2A 2B	CFM/SIDE THROW, FT.	75 11-13-18	100 12-14-20	125 13-17-23	150 14-18-26	175 16-19-26	200 17-20-29	225 18-22-30							
	2C 2E	CFM/SIDE THROW, FT.	112 37 14-17-23 8-12-14	150 50 17-19-29 10-13-17	188 62 19-22-31 12-14-19	225 75 21-23-34 13-16-21	263 87 22-25-36 13-17-25	300 100 23-29-39 14-18-23	338 112 25-29-42 16-20-25							
1A 1B	CFM/SIDE THROW, FT.	150 14-17-23	200 17-19-29	250 19-22-31	300 21-23-34	350 22-25-36	400 23-29-39	450 25-29-42								
15 x 6  .625 SQ. FT.	RETURN FACTORS —SP=1.9 TP NC + 1	CFM NC	190 —	—	250 15	—	310 21	—	375 27	—	440 32	—	500 36	—	565 40	—
	4B	CFM/SIDE THROW, FT.	75 18 11-13-18 5-6-10	100 25 12-14-20 6-7-11	125 31 13-17-23 7-10-12	150 37 14-18-26 7-10-13	175 44 16-19-26 10-11-14	200 50 17-20-29 10-11-14	225 56 18-22-30 11-12-16							
	4E	CFM/SIDE THROW, FT.	56 37 11-12-16 10-11-14	75 50 12-14-19 11-12-17	94 62 12-17-22 12-13-19	113 75 14-18-23 13-14-20	131 87 16-19-26 14-16-22	150 100 16-20-26 14-17-23	169 112 18-22-29 16-18-26							
	3A1	CFM/SIDE THROW, FT.	84 18 12-13-19 5-6-10	112 25 13-16-22 6-7-11	140 31 14-18-24 7-10-12	169 37 16-19-26 7-10-13	197 44 17-20-28 10-11-14	225 50 18-22-30 10-11-14	253 56 19-23-34 11-12-16							
	2A 2B	CFM/SIDE THROW, FT.	94 12-14-20	125 13-16-23	156 14-19-26	187 16-20-28	219 17-22-30	250 18-23-31	281 19-26-35							
	2C 2E	CFM/SIDE THROW, FT.	150 37 14-17-23 8-12-14	200 50 17-19-29 10-13-17	250 62 19-22-31 12-14-19	300 75 21-23-34 13-16-21	350 87 22-25-36 13-17-22	400 100 23-29-39 14-18-23	450 112 25-29-42 16-20-25							
1A 1B	CFM/SIDE THROW, FT.	188 16-19-26	250 18-22-30	312 21-25-34	375 22-29-38	438 23-29-40	500 25-31-43	563 29-32-45								

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D37.

D  
CEILING DIFFUSERS

## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293	
			CFM NC	—	A	B	A	B	A	B	A	B	A	B	A	B
18 x 6  .75 SQ. FT.	RETURN FACTORS —SP=2.6 TP NC + 2	CFM NC	225 —		300 16		375 22		450 28		525 33		600 37		675 41	
	4B  4C	CFM/SIDE THROW, FT.	94 18	125 25	156 31	188 37	218 44	250 50	281 56							
	4E	CFM/SIDE THROW, FT.	56 56	75 75	94 94	113 113	131 131	150 150	169 169							
	3A1	CFM/SIDE THROW, FT.	103 18	137 25	172 31	206 37	240 44	275 50	309 56							
	2A  2B	CFM/SIDE THROW, FT.	112	150	187	225	262	300	337							
	2C  2E  2D  2F	CFM/SIDE THROW, FT.	187 37	250 50	313 62	375 75	438 87	500 100	563 112							
	1A  1B	CFM/SIDE THROW, FT.	225	300	375	450	525	600	675							
21 x 6  .875 SQ. FT.	RETURN FACTORS —SP=3.2 TP NC + 3	CFM NC	260 —		350 16		435 22		525 29		610 33		700 38		785 41	
	4B  4C	CFM/SIDE THROW, FT.	112 18	150 25	187 31	225 37	262 44	300 50	337 56							
	4E	CFM/SIDE THROW, FT.	75 56	100 75	125 94	150 113	175 131	200 150	225 169							
	3A1	CFM/SIDE THROW, FT.	122 18	162 25	203 31	244 37	284 44	325 50	365 56							
	2A  2B	CFM/SIDE THROW, FT.	131	175	218	262	306	350	393							
	2C  2E  2D  2F	CFM/SIDE THROW, FT.	225 37	300 50	375 62	450 75	525 87	600 100	675 112							
	1A  1B	CFM/SIDE THROW, FT.	262	350	437	525	612	700	787							
24 x 6  1.0 SQ. FT.	RETURN FACTORS —SP=3.9 TP NC + 4	CFM NC	300 —		400 16		500 23		600 30		700 34		800 39		900 42	
	4B  4C	CFM/SIDE THROW, FT.	131 18	175 25	219 31	263 37	306 44	350 50	394 56							
	4E	CFM/SIDE THROW, FT.	75 75	100 100	125 125	150 150	175 175	200 200	225 225							
	3A1	CFM/SIDE THROW, FT.	141 18	187 25	234 31	281 37	328 44	375 50	422 56							
	2A  2B	CFM/SIDE THROW, FT.	150	200	250	300	350	400	450							
	2C  2E  2D  2F	CFM/SIDE THROW, FT.	260 37	350 50	438 62	525 75	613 87	700 100	788 112							
	1A  1B	CFM/SIDE THROW, FT.	300	400	500	600	700	800	900							

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D37.

## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293	
			CFM NC	A	B	A	B	A	B	A	B	A	B	A	B	A
30 x 6 1.25 SQ. FT.	RETURN FACTORS —SP=3.2 TP NC + 3	CFM NC	375 —		500 17		625 24		750 30		875 35		1000 40		1125 43	
	4B  4C	CFM/SIDE THROW, FT.	169	18	225	25	281	31	338	37	393	44	450	50	506	56
	4E	CFM/SIDE THROW, FT.	94	94	125	125	156	156	188	188	219	219	250	250	282	282
	3A1	CFM/SIDE THROW, FT.	178	18	237	25	297	31	356	37	415	44	475	50	534	56
	2A 2B	CFM/SIDE THROW, FT.	187		250		312		375		437		500		562	
	2C 2E  2D 2F	CFM/SIDE THROW, FT.	337	37	450	50	563	62	675	75	788	87	900	100	1013	112
1A 1B	CFM/SIDE THROW, FT.	375		500		625		750		875		1000		1125		
12 x 9 .75 SQ. FT.	RETURN FACTORS —SP=3.9 TP NC + 4	CFM NC	225 —		300 17		375 23		450 28		525 33		600 36		675 40	
	4B  4C	CFM/SIDE THROW, FT.	70	42	94	56	117	70	141	84	164	98	188	112	211	126
	3A1	CFM/SIDE THROW, FT.	91	42	121	56	152	70	183	84	213	98	244	112	274	126
	3A2	CFM/SIDE THROW, FT.	75	75	100	100	125	125	150	150	175	175	200	200	225	225
	2A 2B	CFM/SIDE THROW, FT.	112		150		187		225		262		300		337	
	2C 2E  2D 2F	CFM/SIDE THROW, FT.	141	84	188	112	234	141	281	169	328	197	375	225	422	253
1A 1B	CFM/SIDE THROW, FT.	225		300		375		450		525		600		675		
15 x 9 .93 SQ. FT.	RETURN FACTORS —SP=1.7 TP NC + 3	CFM NC	280 —		375 18		470 24		565 29		655 34		750 37		845 41	
	4B  4C	CFM/SIDE THROW, FT.	98	42	131	56	165	70	198	84	230	98	263	112	296	126
	4E	CFM/SIDE THROW, FT.	70	70	94	94	117	117	141	141	164	164	188	188	211	211
	3A1	CFM/SIDE THROW, FT.	120	42	159	56	200	70	240	84	279	98	319	112	359	126
	3A2	CFM/SIDE THROW, FT.	117	82	155	110	196	137	233	165	272	192	312	219	351	247
	2A 2B	CFM/SIDE THROW, FT.	140		187		235		281		328		375		422	
2C 2E  2D 2F	CFM/SIDE THROW, FT.	197	84	263	112	329	141	394	169	459	197	525	225	592	253	
1A 1B	CFM/SIDE THROW, FT.	281		375		470		563		656		750		845		

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is:  $A \times .82 = B$ .

For performance notes, see page D37.

**D**  
**CEILING DIFFUSERS**

## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293	
			CFM NC	A	B	A	B	A	B	A	B	A	B	A	B	A
18 x 9  1.125 SQ. FT.	RETURN FACTORS —SP=2.1 TP NC + 3	CFM NC	335 —		450 19		560 25		675 30		790 35		900 38		1010 42	
	4B  4C	CFM/SIDE THROW, FT.	126 42	169 56	211 70	254 84	296 98	338 112	380 126	14-17-23 6-8-13	17-19-29 8-10-14	19-22-31 10-12-16	21-23-34 10-13-17	22-25-36 12-13-18	23-27-39 12-14-19	25-29-42 13-16-21
	4E	CFM/SIDE THROW, FT.	99 70	132 94	164 117	197 141	230 164	263 188	296 211	13-16-22 12-14-19	14-18-25 13-16-22	16-21-29 14-18-25	17-22-30 16-19-29	18-23-32 17-21-29	19-25-34 18-22-31	21-29-38 19-23-32
	3A1	CFM/SIDE THROW, FT.	147 42	197 56	246 70	295 84	345 98	394 112	443 126	14-17-23 6-8-13	17-19-29 8-10-14	19-22-31 10-12-16	21-23-34 10-13-17	22-25-36 12-13-18	23-27-39 12-14-19	25-29-42 13-16-21
	3B	CFM/SIDE THROW, FT.	168 84	225 112	281 141	337 169	394 197	450 225	506 253	17-21-28 13-15-20	19-23-32 14-17-22	21-27-36 15-20-25	23-28-40 17-21-27	25-30-42 18-22-31	27-32-46 20-24-31	28-34-47 21-25-34
	2A  2B	CFM/SIDE THROW, FT.	163	225	281	337	394	450	506	16-19-26	18-22-30	21-25-34	22-29-38	23-29-40	25-31-43	29-32-45
	2C  2E  2D  2F	CFM/SIDE THROW, FT.	253 84	338 112	421 141	506 169	591 197	675 225	759 253	18-22-31 13-15-20	21-25-35 14-17-22	24-28-41 15-20-25	25-31-45 17-21-27	27-32-48 18-22-31	29-35-50 20-24-31	31-39-53 21-25-34
1A  1B	CFM/SIDE THROW, FT.	337	450	562	675	788	900	1012	20-24-34	22-27-39	25-31-45	27-32-48	29-35-50	31-36-55	34-41-57	
21 x 9  1.125 SQ. FT.	RETURN FACTORS —SP=2.5 TP NC + 4	CFM NC	395 —		525 19		655 25		785 31		915 36		1050 38		1180 42	
	4B  4C	CFM/SIDE THROW, FT.	154 42	206 56	258 70	309 84	360 98	413 112	464 126	16-19-26 6-8-13	18-22-30 8-10-14	21-25-34 10-12-16	22-29-38 10-13-17	23-29-40 12-13-18	25-31-43 12-14-19	29-32-45 13-16-21
	4E	CFM/SIDE THROW, FT.	98 98	131 131	163 163	196 196	229 229	261 261	294 294	13-16-22 13-16-22	14-18-25 14-18-25	16-21-29 16-21-29	17-22-30 17-22-30	18-23-32 18-23-32	19-25-34 19-25-34	21-29-38 21-29-38
	3A1	CFM/SIDE THROW, FT.	175 42	234 56	292 70	351 84	410 98	468 112	527 126	16-19-26 6-8-13	18-22-30 8-10-14	21-25-34 10-12-16	22-29-38 10-13-17	23-29-40 12-13-18	25-31-43 12-14-19	29-32-45 13-16-21
	2A  2B	CFM/SIDE THROW, FT.	196	262	327	393	458	525	590	16-19-26	18-22-30	21-25-34	22-27-38	23-29-40	25-31-43	29-32-45
	2C  2E  2D  2F	CFM/SIDE THROW, FT.	308 84	412 112	514 141	617 169	720 197	825 225	927 253	20-24-34 13-15-20	22-27-39 14-17-22	25-31-45 15-20-25	27-32-48 17-21-27	31-35-50 18-22-29	31-36-55 20-24-31	34-41-57 21-25-34
	1A  1B	CFM/SIDE THROW, FT.	393	524	655	786	917	1050	1180	21-25-35	24-31-42	27-34-48	29-36-50	31-39-55	34-42-59	35-45-62
24 x 9  1.5 SQ. FT.	RETURN FACTORS —SP=2.9 TP NC + 4	CFM NC	450 —		600 19		750 25		900 31		1050 36		1200 38		1350 43	
	4B  4C	CFM/SIDE THROW, FT.	183 42	244 56	305 70	366 84	427 98	488 112	549 126	17-21-28 7-8-14	20-24-32 8-11-15	22-27-36 11-13-17	24-29-41 11-14-18	25-31-43 13-14-20	27-34-46 13-15-21	31-35-49 14-17-22
	4E	CFM/SIDE THROW, FT.	126 99	169 132	211 164	253 197	295 230	337 263	379 296	15-18-25 14-17-24	18-21-31 15-20-27	21-24-34 17-22-31	22-25-36 18-24-32	24-27-39 20-25-35	25-31-42 21-27-36	27-31-45 22-31-41
	3A1	CFM/SIDE THROW, FT.	204 42	272 56	340 70	408 84	476 98	544 112	612 126	17-21-28 7-8-14	20-24-32 8-11-15	22-27-36 11-13-17	24-29-41 11-14-18	25-31-43 13-14-20	27-34-46 13-15-21	31-35-49 14-17-22
	2A  2B	CFM/SIDE THROW, FT.	225	300	375	450	525	600	675	18-22-31	21-25-35	24-28-41	25-31-45	27-32-48	29-35-50	31-39-53
	2C  2E  2D  2F	CFM/SIDE THROW, FT.	365 84	488 112	609 141	731 169	853 197	975 225	1097 253	21-25-35 13-15-20	24-31-42 14-17-22	27-34-48 15-20-25	29-36-50 17-21-27	31-39-55 18-22-29	34-42-59 20-24-31	35-45-62 21-25-34
	1A  1B	CFM/SIDE THROW, FT.	450	600	750	900	1050	1200	1350	21-25-35	24-31-42	27-34-48	29-36-50	31-39-55	34-42-59	35-45-62

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is:  $A \times .82 = B$ .

For performance notes, see page D37.

## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293	
			CFM NC	—	A	B	A	B	A	B	A	B	A	B	A	B
30 x 9  1.875 SQ. FT.	RETURN FACTORS —SP=3.9 TP NC + 5	CFM NC	560 —		750 20		935 26		1125 32		1310 37		1500 39		1685 44	
	4B  4C	CFM/SIDE THROW, FT.	238	42	319	56	398	70	478	84	557	98	638	112	716	126
	4E	CFM/SIDE THROW, FT.	155	126	206	169	258	211	310	253	361	295	413	337	465	379
	3A1	CFM/SIDE THROW, FT.	259	42	347	56	433	70	520	84	606	98	694	112	779	126
	2A 2B	CFM/SIDE THROW, FT.	281		375		468		562		655		750		842	
	2C 2E  2D 2F	CFM/SIDE THROW, FT.	476	84	638	112	796	141	956	169	1113	197	1275	225	1432	253
	1A 1B	CFM/SIDE THROW, FT.	562		750		937		1125		1310		1500		1685	
36 x 9  2.25 SQ. FT.	RETURN FACTORS —SP=5.0 TP NC + 6	CFM NC	675 —		900 21		1125 27		1350 33		1575 38		1800 40		2025 44	
	4B  4C	CFM/SIDE THROW, FT.	295	42	394	56	492	70	591	84	689	98	788	112	886	126
	4E	CFM/SIDE THROW, FT.	183	155	244	206	305	258	366	310	427	361	488	413	549	465
	3A1	CFM/SIDE THROW, FT.	316	42	422	56	527	70	633	84	738	98	844	112	949	126
	2A 2B	CFM/SIDE THROW, FT.	337		450		562		675		787		900		1012	
	2C 2E  2D 2F	CFM/SIDE THROW, FT.	590	84	788	112	984	141	1181	169	1378	197	1575	225	1772	253
	1A 1B	CFM/SIDE THROW, FT.	675		900		1125		1350		1575		1800		2025	
15 x 12  1.25 SQ. FT.	RETURN FACTORS —SP=1.6 TP NC + 2	CFM NC	375 —		500 19		625 25		750 30		875 34		1000 38		1125 41	
	4B  4C	CFM/SIDE THROW, FT.	112	75	150	100	187	125	225	150	262	175	300	200	337	225
	3A1	CFM/SIDE THROW, FT.	150	75	200	100	250	125	300	150	350	175	400	200	450	225
	3A2	CFM/SIDE THROW, FT.	117	129	156	172	195	215	234	258	273	301	312	344	351	387
	2A 2B	CFM/SIDE THROW, FT.	187		250		312		375		437		500		567	
	2C 2E  2D 2F	CFM/SIDE THROW, FT.	225	150	300	200	375	250	450	300	525	350	600	400	675	450
	1A 1B	CFM/SIDE THROW, FT.	375		500		625		750		875		1000		1125	

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is:  $A \times .82 = B$ .

For performance notes, see page D37.

## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293	
18 x 12  1.5 SQ. FT.	RETURN FACTORS —SP=1.9 TP NC + 3	CFM NC	450 —	600 20	750 26	900 31	1050 35	1200 39	1350 42	
			A B	A B	A B	A B	A B	A B	A B	
			CFM/SIDE THROW, FT.	150 75 15-18-25 8-13-15	200 100 18-21-31 11-14-18	250 125 21-24-34 13-15-21	300 150 22-25-36 14-17-22	350 175 24-27-39 14-18-24	400 200 25-31-42 15-20-25	450 225 27-31-45 17-21-27
		CFM/SIDE THROW, FT.	187 75 17-21-28 8-13-15	250 100 20-24-32 11-14-18	312 125 22-27-36 13-15-21	375 150 24-31-41 14-17-22	437 175 25-31-43 14-18-24	500 200 27-34-46 15-20-25	562 225 31-35-49 17-21-27	
		CFM/SIDE THROW, FT.	168 141 14-17-24 13-15-21	225 187 15-20-27 14-17-24	281 234 17-22-31 15-20-27	337 281 18-24-32 17-21-31	394 328 20-25-35 18-22-31	450 375 21-27-36 20-24-34	506 422 22-31-41 21-25-35	
		CFM/SIDE THROW, FT.	225 18-22-31	300 21-25-35	375 24-28-41	450 25-31-45	525 27-32-48	600 29-35-50	675 31-39-53	
			CFM/SIDE THROW, FT.	300 150 20-24-34 14-17-24	400 200 22-27-39 15-20-27	500 250 25-31-45 17-22-31	600 300 27-32-48 18-24-32	700 350 29-35-50 20-25-35	800 400 31-36-55 21-27-36	900 450 34-41-57 22-31-41
	CFM/SIDE THROW, FT.	450 21-25-35	600 24-31-42	750 27-34-48	900 29-36-50	1050 31-39-55	1200 34-42-59	1350 35-45-62		
21 x 12  1.75 SQ. FT.	RETURN FACTORS —SP=2.2 TP NC + 5	CFM NC	525 —	700 20	875 26	1050 31	1225 35	1400 39	1575 42	
			A B	A B	A B	A B	A B	A B	A B	
			CFM/SIDE THROW, FT.	187 75 17-21-28 8-13-15	250 100 20-24-32 11-14-18	312 125 22-27-36 13-15-21	375 150 24-31-41 14-17-22	437 175 25-32-43 14-18-24	500 200 27-34-46 15-20-25	562 225 31-35-49 17-21-27
		CFM/SIDE THROW, FT.	150 112 15-18-25	200 150 18-21-31 15-18-25	250 187 21-24-34	300 225 22-25-36	350 262 24-27-39	400 300 25-31-42 22-25-36	450 337 27-31-45	
		CFM/SIDE THROW, FT.	225 75 18-22-31 8-13-15	300 100 21-25-35 11-14-18	375 125 24-28-41 13-15-21	450 150 25-31-45 14-17-22	525 175 27-32-48 14-18-24	600 200 29-35-50 15-20-25	675 225 31-39-53 17-21-27	
		CFM/SIDE THROW, FT.	230 148 14-17-24 13-15-21	306 197 15-20-27 14-17-24	382 246 17-22-31 15-20-27	460 295 18-24-32 17-21-31	535 345 20-25-35 18-22-31	612 394 21-27-36 20-24-34	688 443 22-31-41 21-25-35	
		CFM/SIDE THROW, FT.	262 18-22-31	350 21-25-35	437 24-28-41	525 25-31-45	612 27-32-48	700 29-35-50	787 31-39-53	
		CFM/SIDE THROW, FT.	375 150 21-25-35 14-17-24	500 200 24-31-42 15-20-27	625 250 27-34-48 17-22-31	750 300 29-36-50 18-24-32	875 350 31-39-55 20-25-35	1000 400 34-42-59 21-27-36	1125 450 35-45-62 22-31-41	
	CFM/SIDE THROW, FT.	525 22-27-39	700 25-31-45	875 28-35-50	1050 31-39-55	1225 32-42-59	1400 35-45-62	1575 39-48-66		
24 x 12  2.0 SQ. FT.	RETURN FACTORS —SP=2.6 TP NC + 5	CFM NC	600 12	800 21	1000 27	1200 32	1400 36	1600 40	1800 43	
			A B	A B	A B	A B	A B	A B	A B	
			CFM/SIDE THROW, FT.	225 75 18-22-31 8-13-15	300 100 21-25-35 11-14-18	375 125 24-28-41 13-15-21	450 150 25-31-45 14-17-22	525 175 27-32-48 14-18-24	600 200 31-35-50 15-20-25	675 225 31-39-53 17-21-27
		CFM/SIDE THROW, FT.	150 150 15-18-25 15-18-25	200 200 18-21-31 18-21-31	250 250 21-24-34 21-24-34	300 300 22-25-36 22-25-36	350 350 24-27-39 24-27-39	400 400 25-31-42 25-31-42	450 450 27-31-45 27-31-45	
		CFM/SIDE THROW, FT.	262 75 18-22-31 8-13-15	350 100 21-25-35 11-14-18	437 175 24-28-41 13-15-21	525 150 25-31-45 14-17-22	612 175 27-32-48 14-18-24	700 200 29-35-50 15-20-25	787 225 31-39-53 17-21-27	
		CFM/SIDE THROW, FT.	300 150 15-18-25 14-17-24	400 200 18-21-31 15-20-27	500 250 21-24-34 17-22-31	600 300 22-25-36 18-24-32	700 350 24-27-39 20-25-35	800 400 25-31-42 21-27-36	900 450 27-31-45 22-31-41	
		CFM/SIDE THROW, FT.	300 20-24-34	400 22-27-39	500 25-31-45	600 27-32-48	700 29-35-50	800 31-36-55	900 34-41-57	
		CFM/SIDE THROW, FT.	450 150 21-25-35 14-17-24	600 200 24-31-42 15-20-27	750 250 27-34-48 17-22-31	900 300 29-36-50 18-24-32	1050 350 31-39-55 20-25-35	1200 400 34-42-59 21-27-36	1350 450 35-45-62 22-31-41	
	CFM/SIDE THROW, FT.	600 24-31-42	800 28-34-48	1000 32-39-55	1200 34-42-57	1400 36-45-62	1600 41-49-66	1800 43-52-70		

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D37.

## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293	
			CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC
30 x 12  2.5 SQ. FT.	RETURN FACTORS —SP=3.3 TP NC + 6	CFM NC	750 15	1000 23	1250 29	1500 33	1750 37	2000 41	2250 43							
	4B  4C	CFM/SIDE THROW, FT.	300 75 20-24-34 8-13-15	400 100 22-27-39 11-14-18	500 125 25-31-45 13-15-21	600 150 27-32-48 14-17-22	700 175 29-35-50 14-18-24	800 200 31-36-55 15-20-25	900 225 34-41-57 17-21-27							
	4E	CFM/SIDE THROW, FT.	183 183 17-21-28 17-21-28	250 250 20-24-32 20-24-32	313 313 22-27-36 22-27-36	375 375 24-31-41 24-31-41	437 437 25-31-43 25-31-43	500 500 27-34-46 27-34-46	562 562 31-35-49 31-35-49							
	3A1	CFM/SIDE THROW, FT.	337 75 20-24-34 8-13-15	450 100 22-27-39 11-14-18	562 125 25-31-45 13-15-21	675 150 27-32-48 14-17-22	787 175 29-35-50 14-18-24	900 200 31-36-55 15-20-25	1012 225 34-41-57 17-21-27							
	2A  2B	CFM/SIDE THROW, FT.	375 21-25-35	500 24-31-42	625 27-34-48	750 29-36-50	875 31-39-55	1000 34-42-59	1125 35-45-62							
	2C  2D  2E  2F	CFM/SIDE THROW, FT.	600 150 24-31-41 14-17-24	800 200 28-34-48 15-20-27	1000 250 32-39-55 17-22-31	1200 300 34-42-57 18-24-32	1400 350 36-45-62 20-25-35	1600 400 41-49-66 21-27-36	1800 450 43-52-70 22-31-41							
1A  1B	CFM/SIDE THROW, FT.	750 25-31-45	1000 31-35-50	1250 34-41-57	1500 36-45-62	1750 39-48-66	2000 42-50-70	2250 45-53-74								
36 x 12  3.0 SQ. FT.	RETURN FACTORS —SP=4.0 TP NC + 7	CFM NC	900 16	1200 25	1500 30	1800 34	2100 38	2400 42	2700 44							
	4B  4C	CFM/SIDE THROW, FT.	375 75 21-25-35 8-13-15	500 100 24-31-42 11-14-18	625 125 27-34-48 13-15-21	750 150 29-36-50 14-17-22	875 175 31-39-55 14-18-24	1000 200 34-42-59 15-20-25	1125 225 35-45-62 17-21-27							
	4E	CFM/SIDE THROW, FT.	225 225 18-22-31 18-22-31	300 300 21-25-35 21-25-35	375 375 24-28-41 24-28-41	450 450 25-31-45 25-31-45	525 525 27-32-48 27-32-48	600 600 29-35-50 29-35-50	675 675 31-39-53 31-39-53							
	3A1	CFM/SIDE THROW, FT.	412 75 21-25-35 8-13-15	550 100 24-31-42 11-14-18	687 125 27-34-48 13-15-21	825 150 29-36-50 14-17-22	962 175 31-39-55 14-18-24	1100 200 34-42-59 15-20-25	1237 225 35-45-62 17-21-27							
	2A  2B	CFM/SIDE THROW, FT.	450 21-25-35	600 24-31-42	750 27-34-48	900 29-36-50	1050 31-39-55	1200 34-42-59	1350 35-45-62							
	2C  2D  2E  2F	CFM/SIDE THROW, FT.	750 150 25-31-45 14-17-24	1000 200 31-35-50 15-20-27	1250 250 34-41-57 17-22-31	1500 300 36-45-62 18-24-32	1750 350 39-48-66 20-25-35	2000 400 42-50-70 21-27-36	2250 450 45-53-74 22-31-41							
1A  1B	CFM/SIDE THROW, FT.	900 27-34-46	1200 31-39-53	1500 35-45-60	1800 39-48-64	2100 42-50-70	2400 45-55-74	2700 48-57-80								
18 x 15  1.875 SQ. FT.	RETURN FACTORS —SP=2.0 TP NC + 4	CFM NC	560 14	750 21	935 28	1125 32	1310 36	1500 39	1685 43							
	4B  4C	CFM/SIDE THROW, FT.	164 117 14-17-24 11-14-18	219 156 15-20-27 13-15-21	273 195 17-22-31 14-17-24	328 234 18-24-32 15-18-25	383 273 20-25-35 17-20-27	438 312 21-27-36 17-21-31	492 351 22-31-41 18-22-31							
	3A1	CFM/SIDE THROW, FT.	222 117 18-22-31 11-14-18	297 156 21-25-35 13-15-21	371 195 24-28-41 14-17-24	445 234 25-31-45 15-18-25	519 273 31-39-55 17-20-27	594 312 31-35-50 17-21-31	668 351 31-39-53 18-22-31							
	3A2	CFM/SIDE THROW, FT.	168 197 13-16-22 18-22-30	225 262 15-18-25 21-25-34	281 328 16-21-28 24-28-39	337 394 18-22-33 25-33-43	394 459 19-24-33 27-33-46	450 525 21-25-36 28-36-49	506 590 22-27-37 33-37-52							
	2A  2B	CFM/SIDE THROW, FT.	281 20-24-34	375 22-27-39	468 25-31-45	562 27-32-48	656 29-35-50	750 31-36-55	843 34-41-57							
	2C  2D  2E  2F	CFM/SIDE THROW, FT.	329 234 25-33-45 18-22-30	438 312 30-36-51 21-25-34	547 390 34-42-58 24-28-39	657 468 36-45-61 25-31-43	766 546 39-48-66 27-33-46	876 624 43-52-70 28-36-49	985 702 46-55-75 33-37-52							
1A  1B	CFM/SIDE THROW, FT.	562 24-28-42	750 27-33-48	937 30-37-54	1125 33-42-58	1312 34-45-63	1500 37-48-66	1687 42-51-70								

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D37.

## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293	
			CFM NC	A	B	A	B	A	B	A	B	A	B	A	B	A
21 x 15  2.185 SQ. FT.	RETURN FACTORS —SP=2.1 TP NC + 5	CFM NC	655 14		875 21		1090 28		1310 33		1530 36		1750 39		1970 43	
	4B  4C	CFM/SIDE THROW, FT.	210	117	281	156	361	195	422	234	493	273	563	312	634	351
	4E	CFM/SIDE THROW, FT.	164	164	218	218	273	273	327	327	382	382	437	437	491	491
	3A1	CFM/SIDE THROW, FT.	269	117	359	156	448	195	539	234	629	273	719	312	809	351
	3A2	CFM/SIDE THROW, FT.	230	213	306	284	382	355	460	426	535	498	612	569	688	641
	2A 2B	CFM/SIDE THROW, FT.	327		437		596		656		766		875		985	
	2C  2D 2E  2F	CFM/SIDE THROW, FT.	422	234	563	312	702	390	844	468	966	546	1126	624	1268	702
	1A 1B	CFM/SIDE THROW, FT.	655		875		1092		1312		1532		1750		1970	
24 x 15  2.5 SQ. FT.	RETURN FACTORS —SP=2.6 TP NC + 6	CFM NC	750 14		1000 22		1250 29		1500 34		1750 37		2000 39		2250 44	
	4B  4C	CFM/SIDE THROW, FT.	258	117	344	156	430	195	516	234	602	273	688	312	774	351
	4E	CFM/SIDE THROW, FT.	164	211	218	281	273	352	327	422	382	492	437	563	491	633
	3A1	CFM/SIDE THROW, FT.	316	117	422	156	527	195	633	234	738	273	844	312	949	351
	3A2	CFM/SIDE THROW, FT.	300	225	400	300	500	375	600	450	700	525	800	600	900	675
	2A 2B	CFM/SIDE THROW, FT.	375		500		625		750		875		1000		1125	
	2C  2D 2E  2F	CFM/SIDE THROW, FT.	516	234	688	312	860	390	1032	468	1204	546	1376	624	1548	702
	1A 1B	CFM/SIDE THROW, FT.	750		1000		1250		1500		1750		2000		2250	
30 x 15  3.125 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 7	CFM NC	935 14		1250 23		1565 30		1875 36		2190 39		2500 40		2810 45	
	4B  4C	CFM/SIDE THROW, FT.	351	117	469	156	587	195	703	234	822	273	938	312	1054	351
	4E	CFM/SIDE THROW, FT.	258	211	344	281	430	352	516	422	602	492	688	583	775	633
	3A1	CFM/SIDE THROW, FT.	410	117	547	156	685	195	820	234	958	273	1094	312	1224	351
	3B	CFM/SIDE THROW, FT.	468	234	625	312	782	391	937	469	1095	547	1250	625	1406	702
	2A 2B	CFM/SIDE THROW, FT.	468		625		782		937		1095		1250		1405	
	2C  2D 2E  2F	CFM/SIDE THROW, FT.	702	234	938	312	1175	390	1407	468	1644	546	1876	624	2108	702
	1A 1B	CFM/SIDE THROW, FT.	937		1250		1565		1875		2190		2500		2810	

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is:  $A \times .82 = B$ .

For performance notes, see page D37.



## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293		
			CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC	CFM NC
36 x 15 3.75 SQ. FT.	RETURN FACTORS —SP=3.8 TP NC + 7	CFM NC	1125 13	1500 23	1875 31	2250 37	2625 40	3000 41	3375 46								
	4B  4C	CFM/SIDE THROW, FT.	446 117 22-27-37 12-15-19	594 156 25-33-45 13-16-22	742 195 28-36-51 15-18-25	891 234 33-39-54 16-19-27	1039 273 33-45-58 18-21-28	1188 312 36-45-63 18-22-30	1336 351 37-48-66 19-24-33								
	4E	CFM/SIDE THROW, FT.	306 258 21-25-36 19-24-33	408 344 24-28-42 22-27-37	510 430 27-33-48 25-30-43	612 516 28-34-51 27-33-48	714 602 33-37-54 28-34-51	816 688 33-39-58 33-37-54	918 775 36-43-61 33-42-57								
	3A1	CFM/SIDE THROW, FT.	504 117 24-28-42 12-15-19	672 156 27-33-48 13-16-22	840 195 30-37-54 15-18-25	1008 234 33-45-58 16-19-27	1176 273 34-45-63 18-21-28	1344 312 37-48-66 18-22-30	1512 351 42-51-70 19-24-33								
	2A  2B	CFM/SIDE THROW, FT.	562 24-28-42	750 27-33-48	937 30-37-54	1125 33-42-58	1312 34-45-63	1500 37-48-66	1682 42-51-70								
	2C  2D  2E  2F	CFM/SIDE THROW, FT.	890 234 28-36-49 18-22-30	1188 312 33-42-49 21-25-34	1485 390 37-48-64 24-28-39	1782 468 42-51-69 25-33-43	2079 546 45-54-75 27-33-46	2376 624 48-58-79 28-36-49	2873 702 51-61-85 33-37-52								
	1A  1B	CFM/SIDE THROW, FT.	1125 30-37-52	1500 34-43-60	1875 39-48-67	2250 42-52-73	2625 46-57-78	3000 49-60-85	3375 52-64-90								
21 x 18 2.625 SQ. FT.	RETURN FACTORS —SP=2.2 TP NC + 5	CFM NC	785 14	1050 21	1310 27	1575 32	1840 36	2100 40	2360 43								
	4B  4C	CFM/SIDE THROW, FT.	225 169 16-19-27 13-16-22	300 225 19-22-33 15-18-25	375 280 22-25-36 16-21-28	450 337 24-27-40 18-22-30	526 394 25-28-42 19-24-33	600 450 27-33-45 21-25-36	674 506 28-33-48 22-27-37								
	3A1	CFM/SIDE THROW, FT.	309 169 21-25-36 13-16-22	412 225 24-28-42 15-18-25	514 281 27-33-48 16-21-28	619 337 28-34-51 18-22-30	723 394 33-37-54 19-24-33	825 450 33-39-58 21-25-36	927 506 36-43-61 22-27-37								
	3A2	CFM/SIDE THROW, FT.	279 230 21-25-36 15-18-25	372 306 24-28-42 16-21-28	464 382 27-33-48 18-24-33	557 460 28-34-51 19-25-34	652 535 33-37-54 21-27-37	744 612 33-39-58 22-28-39	836 688 36-43-61 24-33-43								
	2A  2B	CFM/SIDE THROW, FT.	393 22-27-37	525 25-33-42	655 28-36-46	787 30-39-54	920 33-42-58	1050 36-45-63	1180 37-48-66								
	2C  2D  2E  2F	CFM/SIDE THROW, FT.	450 338 22-27-37 19-24-33	600 450 25-33-42 22-27-37	750 560 28-36-46 25-30-43	900 675 30-39-54 27-33-48	1060 790 33-42-58 28-34-51	1200 900 36-45-63 33-37-54	1350 1010 37-48-66 33-42-57								
	1A  1B	CFM/SIDE THROW, FT.	787 29-35-51	1050 35-40-58	1310 38-46-66	1575 42-51-70	1840 45-54-75	2100 48-58-80	2360 51-61-85								
24 x 18 3.0 SQ. FT.	RETURN FACTORS —SP=2.5 TP NC + 6	CFM NC	900 15	1200 22	1500 28	1800 33	2100 37	2400 40	2700 43								
	4B  4C	CFM/SIDE THROW, FT.	281 169 22-27-38 14-18-24	375 225 26-30-45 16-19-27	469 281 29-35-51 18-22-30	563 337 30-37-54 19-24-33	656 394 33-40-58 21-26-35	750 450 35-42-62 22-27-38	844 506 38-46-66 24-29-40								
	4E	CFM/SIDE THROW, FT.	225 225 21-26-35 21-26-35	300 300 24-29-40 24-29-40	375 375 27-32-46 27-32-46	450 450 29-35-51 29-35-51	525 525 30-37-54 30-37-54	600 600 33-40-58 33-40-58	675 675 35-45-61 35-45-61								
	3A1	CFM/SIDE THROW, FT.	366 169 24-29-40 14-18-24	487 225 27-35-48 16-19-27	609 281 30-38-54 18-22-30	731 337 35-42-58 19-24-33	853 394 35-45-62 21-26-35	975 450 38-48-67 22-27-38	1098 506 40-51-70 24-29-40								
	3A2	CFM/SIDE THROW, FT.	300 300 25-31-43 20-23-32	400 400 29-34-50 23-27-40	500 500 32-40-58 27-31-43	600 600 34-41-61 29-32-47	700 700 40-45-65 31-34-50	800 800 40-47-70 32-40-54	900 900 43-52-74 34-40-58								
	2A  2B	CFM/SIDE THROW, FT.	450 24-29-40	600 27-35-48	750 30-38-54	900 35-42-58	1050 35-45-62	1200 38-48-67	1350 40-51-70								
	2C  2D  2E  2F	CFM/SIDE THROW, FT.	562 338 26-30-45 21-26-35	750 450 29-35-51 24-29-40	938 562 32-40-58 27-32-46	1125 675 35-45-62 29-35-51	1313 787 37-48-67 30-37-54	1500 900 40-51-70 33-40-58	1688 1012 45-54-75 35-45-61								
1A  1B	CFM/SIDE THROW, FT.	900 30-38-53	1200 35-45-61	1500 40-51-69	1800 45-54-74	2100 48-58-80	2400 51-62-85	2700 54-66-91									

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is:  $A \times .82 = B$ .

For performance notes, see page D37.

D  
CEILING DIFFUSERS

## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293	
			CFM NC	A B	A B	A B	A B	A B	A B	A B	A B	A B				
30 x 18 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 7	CFM NC	1125 15		1500 23		1875 29		2250 34		2625 38		3000 42		3375 45	
	4B  4C	CFM/SIDE THROW, FT.	394 169	24-29-40 14-18-24	525 225	27-35-48 16-19-27	657 281	30-38-54 18-22-30	788 337	35-42-58 19-24-35	918 394	35-45-62 21-26-35	1050 450	38-48-67 22-27-38	1181 506	40-51-70 24-29-40
	4E	CFM/SIDE THROW, FT.	281 281	22-27-38 22-27-38	375 375	26-30-45 26-30-45	469 469	29-35-51 29-35-51	563 563	30-37-54 30-37-54	657 657	32-40-58 32-40-58	750 750	35-42-62 35-42-62	845 845	38-46-66 38-46-66
	3A1	CFM/SIDE THROW, FT.	478 169	26-30-45 14-18-24	637 225	29-35-51 16-19-27	797 281	32-40-58 18-22-30	956 337	35-45-62 19-24-35	1115 394	37-48-67 21-26-35	1275 450	40-51-70 22-27-38	1434 506	45-54-75 24-29-40
	3A2	CFM/SIDE THROW, FT.	469 327	22-27-38 19-24-32	625 437	26-30-45 22-27-37	782 546	29-35-51 26-30-42	937 656	30-37-54 27-35-46	1093 766	32-40-58 29-35-50	1250 875	35-42-62 30-38-53	1406 984	38-46-66 35-40-56
	2A 2B	CFM/SIDE THROW, FT.	562	26-30-45	750	29-35-51	937	32-40-58	1125	35-45-62	1312	37-48-67	1500	40-51-70	1687	45-54-75
	2C 2E  2D 2F	CFM/SIDE THROW, FT.	787 337	29-35-51 21-26-35	1050 450	35-40-58 24-29-40	1313 562	38-46-66 27-32-46	1575 675	42-51-70 29-35-51	1838 787	45-54-75 30-37-54	2100 900	48-58-80 33-40-58	2363 1012	51-61-85 35-45-61
1A 1B	CFM/SIDE THROW, FT.	1125	32-40-56	1500	37-46-62	1875	42-53-72	2250	46-56-78	2625	50-61-83	3000	53-64-91	3375	56-69-96	
36 x 18 SQ. FT.	RETURN FACTORS —SP=3.6 TP NC + 8	CFM NC	1350 16		1800 24		2250 30		2700 35		3150 39		3600 42		4050 45	
	4B  4C	CFM/SIDE THROW, FT.	506 169	26-30-45 14-18-24	675 225	29-35-51 16-19-27	844 281	33-40-58 18-22-30	1013 337	35-45-62 19-24-35	1181 394	37-48-67 21-26-35	1350 450	40-51-70 22-27-38	1519 506	45-54-75 24-29-40
	4E	CFM/SIDE THROW, FT.	339 339	22-27-38 22-27-38	452 452	26-30-45 26-30-45	565 565	29-35-51 29-35-51	678 678	30-37-54 30-37-54	791 791	33-40-58 33-40-58	904 904	35-42-62 35-42-62	1020 1020	38-46-66 38-46-66
	3A1	CFM/SIDE THROW, FT.	591 169	27-35-48 14-18-24	787 225	32-38-54 16-19-27	984 281	37-45-62 18-22-30	1181 337	38-48-66 19-24-35	1378 394	42-51-70 21-26-35	1575 450	46-56-75 22-27-38	1772 506	50-59-80 24-29-40
	3B	CFM/SIDE THROW, FT.	675 337	27-35-48 21-26-35	900 450	32-38-54 24-29-40	1125 562	37-45-62 27-32-46	1350 675	38-48-66 29-35-51	1575 787	42-51-70 30-37-54	1800 900	46-56-75 33-40-58	2025 1012	50-59-80 35-45-61
	2A 2B	CFM/SIDE THROW, FT.	675	27-35-48	900	32-38-54	1125	37-45-62	1350	38-48-66	1575	42-51-70	1800	46-56-75	2025	50-59-80
	2C 2E  2D 2F	CFM/SIDE THROW, FT.	1010 337	32-40-56 21-26-35	1350 450	37-46-64 24-29-40	1688 562	42-53-72 27-32-46	2025 675	46-56-78 29-35-51	2363 787	50-61-83 30-37-54	2700 900	53-64-91 33-40-58	3038 1012	56-69-96 35-45-61
1A 1B	CFM/SIDE THROW, FT.	1350	35-40-59	1800	38-48-67	2250	45-54-77	2700	48-58-82	3150	51-62-90	3600	54-67-93	4050	59-70-101	
24 x 21 SQ. FT.	RETURN FACTORS —SP=2.1 TP NC + 7	CFM NC	1050 15		1400 22		1750 28		2100 33		2450 37		2800 41		3150 44	
	4B  4C	CFM/SIDE THROW, FT.	295 230	20-25-34 17-20-29	394 306	24-29-39 19-24-32	493 382	27-32-44 20-27-37	590 460	29-37-49 22-29-39	690 535	31-37-53 24-31-42	788 612	32-41-56 25-32-44	887 688	37-42-59 27-37-49
	3A1	CFM/SIDE THROW, FT.	410 230	25-31-42 17-20-29	547 306	29-37-51 19-24-32	684 382	32-41-58 20-27-37	820 460	37-44-61 22-29-39	957 535	37-48-66 24-31-42	1094 612	41-51-71 25-32-44	1231 688	42-54-75 27-37-49
	3A2	CFM/SIDE THROW, FT.	375 300	25-31-42 19-22-31	500 400	29-37-51 22-25-37	625 500	32-41-58 25-29-41	750 600	37-44-61 27-31-44	875 700	37-48-66 29-32-48	1000 800	41-51-71 31-37-51	1125 900	42-54-75 32-37-54
	2A 2B	CFM/SIDE THROW, FT.	525	27-32-48	700	31-37-54	875	34-42-61	1050	37-48-66	1225	39-51-71	1400	42-54-75	1575	48-58-80
	2C 2E  2D 2F	CFM/SIDE THROW, FT.	591 459	29-37-51 24-29-41	788 612	34-41-58 27-32-48	986 764	39-48-66 31-37-54	1180 920	41-51-70 32-39-58	1380 1070	44-54-75 37-42-61	1576 1224	49-59-80 37-44-66	1774 1376	53-63-85 41-49-70
	1A 1B	CFM/SIDE THROW, FT.	1050	34-42-59	1400	39-49-68	1750	44-56-76	2100	49-59-83	2450	53-65-88	2800	56-68-87	3150	59-73-102

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is:  $A \times .82 = B$ .

For performance notes, see page D37.

## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293	
			CFM NC	1310 16	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B		
30 x 21 4.375 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 8	CFM NC	1310 16		1750 23		2185 29		2625 34		3060 38		3500 41		3935 44	
	4B  4C	CFM/SIDE THROW, FT.	425 230	25-31-42 17-20-29	569 306	24-37-51 19-24-32	710 382	32-41-58 20-27-37	852 460	37-44-61 22-29-39	995 535	37-48-66 24-31-42	1138 612	41-51-71 25-32-44	1279 688	42-54-75 27-37-49
	4E	CFM/SIDE THROW, FT.	360 295	24-29-41	480 394	27-32-48	600 492	31-37-54	720 591	32-39-58	840 690	37-42-61	960 788	37-44-66	1080 887	41-49-70
	3A1	CFM/SIDE THROW, FT.	540 230	27-32-48 17-20-29	722 306	31-37-54 19-24-32	901 382	34-42-61 20-27-37	1082 460	37-48-66 22-29-39	1262 535	39-51-71 24-31-42	1444 612	42-54-75 25-32-44	1623 688	48-58-80 27-37-49
	3A2	CFM/SIDE THROW, FT.	468 422	25-31-42 20-25-34	625 562	29-37-51 24-29-39	782 701	32-41-58 27-32-44	937 844	37-44-61 29-37-49	1093 983	37-48-66 31-37-53	1250 1125	41-51-71 32-41-56	1406 1264	42-54-75 37-42-61
	2A  2B	CFM/SIDE THROW, FT.	655	29-37-51	875	34-41-58	1092	39-48-66	1312	41-51-70	1530	44-54-75	1750	49-59-80	1968	53-63-85
	2C  2E  2D  2F	CFM/SIDE THROW, FT.	853 457	31-37-54 24-29-41	1138 612	37-42-61 27-32-48	1421 764	41-49-70 31-37-54	1705 920	44-54-75 32-39-58	1990 1070	48-58-80 37-42-61	2276 1224	51-61-85 37-44-66	2559 1376	54-65-90 41-49-70
1A  1B	CFM/SIDE THROW, FT.	1310	37-42-63	1750	41-51-71	2185	48-58-82	2625	51-61-87	3060	54-66-95	3500	58-71-99	3935	63-75-107	
36 x 21 5.25 SQ. FT.	RETURN FACTORS —SP=3.4 TP NC + 8	CFM NC	1575 16		2100 24		2625 30		3150 34		3675 38		4200 42		4725 45	
	4B  4C	CFM/SIDE THROW, FT.	558 230	27-32-48 17-20-29	744 306	31-37-54 19-24-32	930 382	34-42-61 20-27-37	1115 460	37-48-66 22-29-39	1306 535	39-51-71 24-31-42	1488 612	42-54-75 25-32-44	1674 688	48-58-80 27-37-49
	4E	CFM/SIDE THROW, FT.	427 360	25-31-42 25-31-42	568 480	29-37-61 29-37-51	710 600	32-41-58 32-41-58	852 720	37-44-61 37-44-61	945 840	37-48-66 37-48-66	1135 960	41-51-71 41-51-71	1280 1080	42-54-75 42-54-75
	3A1	CFM/SIDE THROW, FT.	672 230	29-37-51 17-20-29	897 306	34-41-58 19-24-32	1121 382	39-48-66 20-27-37	1345 460	41-51-70 22-29-39	1570 535	44-54-75 24-31-42	1794 612	49-59-80 25-32-44	2018 688	53-63-85 27-37-49
	3A2	CFM/SIDE THROW, FT.	675 450	25-31-42 22-27-37	900 600	29-37-51 25-31-42	1125 750	32-41-58 29-34-49	1350 900	37-44-61 31-37-54	1575 1050	37-48-66 32-39-58	1800 1200	41-51-71 34-42-61	2025 1350	42-54-75 37-48-65
	2A  2B	CFM/SIDE THROW, FT.	787	31-37-54	1050	37-42-61	1312	41-49-70	1575	44-54-75	1837	48-58-80	2100	51-61-85	2362	54-65-90
	2C  2E  2D  2F	CFM/SIDE THROW, FT.	1115 460	34-42-59 24-29-41	1488 612	39-49-68 27-32-48	1861 764	44-56-76 31-37-54	2230 920	49-59-83 32-39-58	2605 1070	53-65-88 37-42-61	2976 1224	56-68-97 37-44-66	3349 1376	59-73-102 41-49-70
1A  1B	CFM/SIDE THROW, FT.	1575	41-51-70	2100	39-58-80	2625	54-66-90	3150	58-70-99	3675	61-75-105	4200	66-80-114	4725	70-85-122	
30 x 24 5.0 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 8	CFM NC	1500 17		2000 25		2500 30		3000 35		3500 39		4000 43		4500 46	
	4B  4C	CFM/SIDE THROW, FT.	450 300	25-31-42 19-22-31	600 400	29-37-51 22-25-37	750 500	32-41-58 25-29-41	900 600	33-44-61 27-31-44	1050 700	37-48-66 29-32-48	1200 800	41-51-71 31-37-51	1350 900	42-54-75 32-37-54
	4E	CFM/SIDE THROW, FT.	375 375	25-31-42 25-31-42	500 500	29-37-51 29-37-51	625 625	32-41-58 32-41-58	750 750	33-44-61 37-44-61	875 875	37-48-66 37-48-66	1000 1000	41-51-71 41-51-71	1125 1125	42-54-75 42-54-75
	3A1	CFM/SIDE THROW, FT.	600 300	29-37-51 19-22-31	800 400	34-41-58 22-25-37	1000 500	39-48-66 25-29-41	1200 600	41-51-70 27-31-44	1400 700	44-54-75 29-32-48	1600 800	49-59-80 31-37-51	1800 900	53-63-85 32-37-54
	3A2	CFM/SIDE THROW, FT.	515 470	31-37-54 25-31-42	687 625	37-42-61 29-37-51	859 782	41-49-70 32-41-58	1031 937	44-54-75 33-44-61	1203 1093	48-58-80 37-48-66	1375 1250	51-61-85 41-51-71	1548 1406	54-65-90 42-54-75
	2A  2B	CFM/SIDE THROW, FT.	750	32-41-56	1000	37-48-65	1250	42-54-73	1500	48-58-78	1750	51-61-85	2000	54-66-90	2250	58-70-97
	2C  2E  2D  2F	CFM/SIDE THROW, FT.	900 600	37-42-63 29-37-51	1200 800	41-51-71 34-41-58	1500 1000	48-58-82 39-48-66	1800 1200	51-61-87 41-51-70	2100 1400	54-66-85 44-54-75	2400 1600	58-71-99 49-59-80	2700 1800	63-75-107 53-63-85
1A  1B	CFM/SIDE THROW, FT.	1500	38-47-67	2000	45-54-76	2500	48-61-85	3000	54-65-95	3500	58-72-99	4000	62-76-106	4500	66-79-113	

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is:  $A \times .82 = B$ .

For performance notes, see page D37.

D  
CEILING DIFFUSERS

## PERFORMANCE DATA:

### MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293	
			CFM NC	1800 18	2400 25	3000 31	3600 36	4200 40	4800 43	5400 46						
36 x 24 6.0 SQ. FT.	RETURN FACTORS —SP=3.3 TP NC + 8	CFM NC	1800 18	2400 25	3000 31	3600 36	4200 40	4800 43	5400 46							
	4B  4C	CFM/SIDE THROW, FT.	600 300 29-37-51 19-22-31	800 400 34-41-58 22-25-37	1000 500 39-48-66 25-29-41	1200 600 41-51-70 27-31-44	1400 700 44-54-75 29-32-48	1600 800 49-59-80 31-37-51	1800 900 53-63-85 32-37-54							
	4E	CFM/SIDE THROW, FT.	450 450 25-31-42 24-31-42	600 600 29-37-51 29-37-51	750 750 32-41-58 32-41-58	900 900 35-44-61 35-44-61	1050 1050 37-48-66 37-48-66	1200 1200 41-51-71 41-51-71	1350 1350 42-54-75 42-54-75							
	3A1	CFM/SIDE THROW, FT.	750 300 31-37-54 19-22-31	1000 400 37-42-61 22-25-37	1250 500 41-49-70 25-29-41	1500 600 44-54-75 27-31-44	1750 700 48-58-80 29-32-48	2000 800 51-61-85 31-37-51	2250 900 54-65-90 32-37-54							
	3A2	CFM/SIDE THROW, FT.	676 562 27-32-48 24-29-41	900 750 34-37-54 27-32-48	1125 937 34-42-61 31-37-54	1350 1125 37-48-66 32-39-58	1575 1312 39-51-71 35-42-61	1800 1500 42-54-75 37-44-66	2025 1687 48-58-80 41-49-70							
	2A	CFM/SIDE THROW, FT.	900 32-41-56	1200 37-48-65	1500 42-54-73	1800 48-58-78	2100 51-61-85	2400 54-66-90	2700 58-70-97							
	2B	CFM/SIDE THROW, FT.	900 32-41-56	1200 37-48-65	1500 42-54-73	1800 48-58-78	2100 51-61-85	2400 54-66-90	2700 58-70-97							
	2C  2D	CFM/SIDE THROW, FT.	1200 600 37-42-63 25-31-42	1600 800 41-51-71 29-37-51	2000 1000 48-58-82 32-41-58	2400 1200 51-61-87 35-44-61	2800 1400 54-66-95 37-48-66	3200 1600 58-71-99 41-51-71	3600 1800 63-75-107 42-54-75							
	2E	CFM/SIDE THROW, FT.	1200 600 37-42-63 25-31-42	1600 800 41-51-71 29-37-51	2000 1000 48-58-82 32-41-58	2400 1200 51-61-87 35-44-61	2800 1400 54-66-95 37-48-66	3200 1600 58-71-99 41-51-71	3600 1800 63-75-107 42-54-75							
	1A  1B	CFM/SIDE THROW, FT.	1800 41-51-70	2400 48-58-80	3000 54-66-90	3600 58-70-99	4200 61-75-105	4800 66-80-114	5400 70-85-122							
36 x 30 7.5 SQ. FT.	RETURN FACTORS —SP=3.4 TP NC + 8	CFM NC	2250 19	3000 26	3750 32	4500 37	5250 41	6000 44	6750 47							
	4B  4C	CFM/SIDE THROW, FT.	657 468 29-37-51 20-25-34	875 625 34-41-58 24-29-39	1093 782 39-48-66 27-32-44	1313 937 41-51-70 29-37-49	1532 1093 44-54-75 31-37-53	1750 1250 49-59-80 32-41-56	1969 1406 53-63-85 37-42-59							
	3A1	CFM/SIDE THROW, FT.	890 468 32-41-56 20-25-34	1187 625 37-48-65 24-29-39	1484 782 42-54-73 27-32-44	1781 937 48-58-78 29-37-49	2078 1093 51-61-85 31-37-53	2375 1250 54-66-90 32-41-56	2672 1406 58-70-97 37-42-59							
	3A2	CFM/SIDE THROW, FT.	787 675 31-37-54 22-27-37	1050 900 37-42-61 25-31-42	1312 1125 41-49-70 29-34-49	1575 1350 44-54-75 31-37-54	1837 1575 48-58-80 32-39-58	2100 1800 51-61-85 37-42-61	2362 2025 54-65-90 37-48-65							
	2A	CFM/SIDE THROW, FT.	1125 34-42-59	1500 39-49-68	1875 44-56-76	2250 49-59-83	2625 53-65-88	3000 56-68-97	3375 59-73-102							
	2B	CFM/SIDE THROW, FT.	1125 34-42-59	1500 39-49-68	1875 44-56-76	2250 49-59-83	2625 53-65-88	3000 56-68-97	3375 59-73-102							
	2C  2D	CFM/SIDE THROW, FT.	1312 938 37-42-63 29-37-51	1750 1250 41-51-71 34-41-58	2188 1562 48-58-82 39-48-66	2625 1875 51-61-87 41-51-70	3063 2187 54-66-95 44-54-75	3500 2500 58-71-99 49-59-80	3938 2812 63-75-107 53-63-85							
	2E	CFM/SIDE THROW, FT.	1312 938 37-42-63 29-37-51	1750 1250 41-51-71 34-41-58	2188 1562 48-58-82 39-48-66	2625 1875 51-61-87 41-51-70	3063 2187 54-66-95 44-54-75	3500 2500 58-71-99 49-59-80	3938 2812 63-75-107 53-63-85							
	1A  1B	CFM/SIDE THROW, FT.	2250 48-60-82	3000 56-68-94	3750 64-78-106	4500 68-82-116	5250 72-88-124	6000 78-94-134	6750 82-100-144							

#### Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is:  $A \times .82 = B$ .

- CFM** - cubic feet per minute  
**TP** - total pressure - inches w.g.  
**T** - throw in feet  
**NC** - Noise Criteria (values) based on 10 dB room absorption, re  $10^{-12}$  watts.  
**Neck Velocity** – feet per minute

#### Performance Notes:

1. Throw values are given for terminal velocities of 150, 100 and 50 fpm under isothermal conditions. Data applies to ceiling mounted units when the maximum coanda effect applies. When no ceiling is present (exposed duct), throws are reduced by approximately 25%.
2. Sound levels in performance tables are for steel construction – **Model 6500**. Apply the following corrections for aluminum construction – **Model 6200**.  
 TP = Listed value x 1.25.  
 NC = Listed value + 4.
3. Performance data as tabulated is for supply air conditions. Correction factors for return air application - see next page.
4. Correction factors for adjustable models - see next page.
5. Correction factors for round inlets - see next page.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

## PERFORMANCE DATA CORRECTIONS:

### MODELS 6500 AND 6200

#### CORRECTION FACTORS FOR RETURN INLET

If the unit is used as a return inlet, the performance data is obtained by applying the return corrections, as follows:

- Add the NC correction at the left side of the table to the NC value listed in the performance table.
- Multiply the listed SP factor at the left side of the table by the total pressure (TP) listed at the top of the table.

#### CORRECTION FACTORS FOR MODELS 6550 AND 6250 (ADJUSTABLE PATTERN CONTROLLERS) – TABLE 2

Refer to the performance data for the **Models 6500 and 6200**. Apply the corrections from Table 2 to the data for square, 4-way core styles, as follows:

- NC = listed + correction
- Total Pressure = listed x factor
- Horizontal Throw = listed
- Vertical Throw = listed x factor

Apply the throw factor to the 50 fpm terminal velocity throw only.

#### Example:

18" x 18", **Model 6500**, 1350 cfm, 20°F temperature difference heating, vertical projection, (Page D23).

- NC = 31 + 6 = 37
- TP = .13 x 2.1 = .273
- Throw = 36 x .9 = 32.4 feet @ 50 fpm terminal velocity.

#### CORRECTION FACTORS WITH SQUARE TO ROUND INLET ADAPTOR – TABLE 3

- Add the NC correction factor from Table 3 and the NC value listed in the performance tables.
- Multiply the correction factor from Table 3 by the listed total pressure in the performance tables.
- Multiply the correction factor from Table 3 by the listed throws in the performance tables.

#### Example:

12" x 12" unit with 10" round adaptor handling 500 cfm supply air. (Page D23).

- NC = 23 + 7 = 30
- Total Pressure = .09 x 1.65 = 0.149
- Throw = 21 x 1.15 = 24.15 feet @ 50 fpm terminal velocity.

#### Example:

12" x 12" unit handling 600 cfm of return air. (Page D23).

- Return NC = 28 + 4 = 32.
- Return negative SP = 1.3 x (-.13) = -.169.

**TABLE 2 Correction Factors 6550/6250 Adjustable**

NECK SIZE	NC (add)		TOTAL PRESSURE (multiply)		VERTICAL THROW (multiply)			
					COOLING, ΔT		HEATING, ΔT	
	H	V	H	V	20°F	0°F	20°F	40°F
6 x 6	2	6	1.2	1.5	1.3	1.1	0.8	0.6
9 x 9	2	6	1.4	2.1	1.5	1.2	0.9	0.6
12 x 12	2	6	1.4	2.1	1.6	1.3	1.0	0.6
15 x 15	2	6	1.4	2.1	1.7	1.3	1.0	0.6
18 x 18	2	6	1.4	2.1	1.7	1.3	0.9	0.6
21 x 21	2	6	1.4	2.1	1.7	1.3	0.8	0.5
24 x 24	2	6	1.6	2.2	1.5	1.1	0.7	0.3

**TABLE 3 Correction Factors for SR Adaptors**

SQUARE INLET	ROUND INLET	NC (add)	TP (multiply)	THROW (multiply)		
				150	100	50
6 x 6	5	7	1.65	1.10	1.10	1.15
9 x 9	6	17	3.50	1.15	1.15	1.20
9 x 9	8	4	1.40	1.10	1.10	1.10
12 x 12	8	17	3.50	1.15	1.15	1.20
12 x 12	10	7	1.65	1.10	1.10	1.15
15 x 15	10	17	3.50	1.15	1.15	1.20
15 x 15	12	9	1.90	1.10	1.10	1.15
15 x 15	14	3	1.25	1.05	1.05	1.10
18 x 18	12	17	3.50	1.15	1.15	1.20
18 x 18	14	10	2.00	1.10	1.10	1.15
18 x 18	16	5	1.45	1.10	1.10	1.10
21 x 21	14	17	3.70	1.15	1.15	1.20
21 x 21	16	11	2.25	1.10	1.10	1.15
21 x 21	18	6	1.60	1.10	1.10	1.10
21 x 21	20	3	1.20	1.05	1.05	1.10
24 x 24	16	17	3.50	1.15	1.15	1.20
24 x 24	18	12	2.35	1.10	1.10	1.15
24 x 24	20	7	1.65	1.10	1.10	1.15
24 x 24	22	4	1.33	1.05	1.05	1.10