

1100, 1190 SERIES

Diffuser | Perforated, Architectural, Curved Blade



DIFFUSERS | PERFORATED

PERFORMANCE DATA | 1100, 51100 (SUPPLY), NO DAMPER

12"x12" PANEL, 4-WAY																	
NECK SIZE	IP DATA					NC	METRIC DATA					OCTAVE BAND, dB					
	NECK VEL	AIR FLOW	Ps	Pt	4-WAY THROW		NECK VEL	AIR FLOW	Ps	Pt	4-WAY THROW						
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7
6" x 6"	300	75	0.028	0.034	1 - 3 - 5	21	1.52	35	7.0	8.4	0.4 - 0.8 - 1.6	33	32	35	27	16	11
	400	100	0.050	0.060	2 - 3 - 7	25	2.03	47	12.4	14.9	0.7 - 1.0 - 2.1	35	34	38	32	22	17
	500	125	0.078	0.094	3 - 4 - 8	28	2.54	59	19.4	23.3	0.9 - 1.3 - 2.4	37	36	40	35	27	21
	600	150	0.112	0.135	3 - 5 - 9	31	3.05	71	27.9	33.5	1.0 - 1.6 - 2.6	39	37	42	38	30	25
	700	175	0.153	0.183	4 - 6 - 9	34	3.56	83	38.0	45.6	1.2 - 1.8 - 2.8	40	38	43	41	34	28
	800	200	0.200	0.239	5 - 7 - 10	36	4.06	94	49.7	59.6	1.4 - 2.1 - 3.0	41	39	44	43	36	31
	900	225	0.253	0.303	5 - 8 - 11	37	4.57	106	62.9	75.4	1.6 - 2.3 - 3.2	42	40	45	45	39	33
	1000	250	0.312	0.374	6 - 8 - 11	39	5.08	118	77.6	93.1	1.7 - 2.4 - 3.4	43	41	46	47	41	35
	1100	275	0.377	0.453	6 - 8 - 12	41	5.59	130	93.9	112.7	1.9 - 2.5 - 3.6	44	42	47	49	43	37

12"x12" PANEL, 1 - 3-WAY											
NECK SIZE	IP DATA					METRIC DATA					
	NECK VEL	AIR FLOW	1-WAY THROW	2-WAY THROW	3-WAY THROW	NECK VEL	AIR FLOW	1-WAY THROW	2-WAY THROW	3-WAY THROW	
	FPM	CFM	ft	ft	ft	m/s	L/s	m	m	m	
6" x 6"	300	75	3 - 5 - 10	3 - 4 - 8	1 - 3 - 7	1.52	35	1.0 - 1.5 - 2.9	0.8 - 1.3 - 2.6	0.4 - 1.0 - 2.0	
	400	100	4 - 6 - 13	4 - 6 - 11	2 - 4 - 9	2.03	47	1.3 - 1.9 - 3.9	1.1 - 1.7 - 3.4	0.8 - 1.3 - 2.7	
	500	125	5 - 8 - 16	5 - 7 - 14	4 - 6 - 11	2.54	59	1.6 - 2.4 - 4.9	1.4 - 2.1 - 4.3	1.1 - 1.7 - 3.3	
	600	150	6 - 10 - 19	6 - 8 - 16	4 - 7 - 12	3.05	71	1.9 - 2.9 - 5.8	1.7 - 2.6 - 5.0	1.3 - 2.0 - 3.7	
	700	175	7 - 11 - 21	7 - 10 - 18	5 - 8 - 13	3.56	83	2.3 - 3.4 - 6.3	2.0 - 3.0 - 5.4	1.6 - 2.3 - 4.0	
	800	200	9 - 13 - 22	7 - 11 - 19	6 - 9 - 14	4.06	94	2.6 - 3.9 - 6.7	2.3 - 3.4 - 5.8	1.8 - 2.7 - 4.3	
	900	225	10 - 14 - 23	8 - 13 - 20	7 - 10 - 15	4.57	106	2.9 - 4.4 - 7.1	2.6 - 3.8 - 6.1	2.0 - 3.0 - 4.5	
	1000	250	11 - 16 - 25	9 - 14 - 21	7 - 11 - 16	5.08	118	3.2 - 4.9 - 7.5	2.8 - 4.3 - 6.5	2.2 - 3.3 - 4.8	
	1100	275	12 - 18 - 26	10 - 15 - 22	8 - 12 - 16	5.59	130	3.6 - 5.4 - 7.8	3.1 - 4.7 - 6.8	2.5 - 3.5 - 5.0	

12"x24" PANEL, 4-WAY																	
NECK SIZE	IP DATA					NC	METRIC DATA					OCTAVE BAND, dB					
	NECK VEL	AIR FLOW	Ps	Pt	4-WAY THROW		NECK VEL	AIR FLOW	Ps	Pt	4-WAY THROW						
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7
6" x 6"	300	75	0.028	0.034	1 - 3 - 5	21	1.52	35	7.0	8.4	0.4 - 0.8 - 1.6	33	32	35	27	16	11
	400	100	0.050	0.060	2 - 3 - 7	25	2.03	47	12.4	14.9	0.7 - 1.0 - 2.1	35	34	38	32	22	17
	500	125	0.078	0.094	3 - 4 - 8	28	2.54	59	19.4	23.3	0.9 - 1.3 - 2.4	37	36	40	35	27	21
	600	150	0.112	0.135	3 - 5 - 9	31	3.05	71	27.9	33.5	1.0 - 1.6 - 2.6	39	37	42	38	30	25
	700	175	0.153	0.183	4 - 6 - 9	34	3.56	83	38.0	45.6	1.2 - 1.8 - 2.8	40	38	43	41	34	28
	800	200	0.200	0.239	5 - 7 - 10	36	4.06	94	49.7	59.6	1.4 - 2.1 - 3.0	41	39	44	43	36	31
	900	225	0.253	0.303	5 - 8 - 11	37	4.57	106	62.9	75.4	1.6 - 2.3 - 3.2	42	40	45	45	39	33
	1000	250	0.312	0.374	6 - 8 - 11	39	5.08	118	77.6	93.1	1.7 - 2.4 - 3.4	43	41	46	47	41	35
	1100	275	0.377	0.453	6 - 8 - 12	41	5.59	130	93.9	112.7	1.9 - 2.5 - 3.6	44	42	47	49	43	37

12"x24" PANEL, 1 - 3-WAY											
NECK SIZE	IP DATA					METRIC DATA					
	NECK VEL	AIR FLOW	1-WAY THROW	2-WAY THROW	3-WAY THROW	NECK VEL	AIR FLOW	1-WAY THROW	2-WAY THROW	3-WAY THROW	
	FPM	CFM	ft	ft	ft	m/s	L/s	m	m	m	
6" x 6"	300	75	3 - 5 - 10	3 - 4 - 8	1 - 3 - 7	1.52	35	1.0 - 1.5 - 2.9	0.8 - 1.3 - 2.6	0.4 - 1.0 - 2.0	
	400	100	4 - 6 - 13	4 - 6 - 11	2 - 4 - 9	2.03	47	1.3 - 1.9 - 3.9	1.1 - 1.7 - 3.4	0.8 - 1.3 - 2.7	
	500	125	5 - 8 - 16	5 - 7 - 14	4 - 6 - 11	2.54	59	1.6 - 2.4 - 4.9	1.4 - 2.1 - 4.3	1.1 - 1.7 - 3.3	
	600	150	6 - 10 - 19	6 - 8 - 16	4 - 7 - 12	3.05	71	1.9 - 2.9 - 5.8	1.7 - 2.6 - 5.0	1.3 - 2.0 - 3.7	
	700	175	7 - 11 - 21	7 - 10 - 18	5 - 8 - 13	3.56	83	2.3 - 3.4 - 6.3	2.0 - 3.0 - 5.4	1.6 - 2.3 - 4.0	
	800	200	9 - 13 - 22	7 - 11 - 19	6 - 9 - 14	4.06	94	2.6 - 3.9 - 6.7	2.3 - 3.4 - 5.8	1.8 - 2.7 - 4.3	
	900	225	10 - 14 - 23	8 - 13 - 20	7 - 10 - 15	4.57	106	2.9 - 4.4 - 7.1	2.6 - 3.8 - 6.1	2.0 - 3.0 - 4.5	
	1000	250	11 - 16 - 25	9 - 14 - 21	7 - 11 - 16	5.08	118	3.2 - 4.9 - 7.5	2.8 - 4.3 - 6.5	2.2 - 3.3 - 4.8	
	1100	275	12 - 18 - 26	10 - 15 - 22	8 - 12 - 16	5.59	130	3.6 - 5.4 - 7.8	3.1 - 4.7 - 6.8	2.5 - 3.5 - 5.0	

NOTE: See page C1-112 for notes.

PERFORMANCE DATA | 1100, 51100 (SUPPLY), 24"x24" PANEL, 4-WAY, NO DAMPER

NECK SIZE	IP DATA					NC	METRIC DATA					OCTAVE BAND, dB					
	NECK VEL	AIR FLOW	Ps	Pt	4-WAY THROW		NECK VEL	AIR FLOW	Ps	Pt	4-WAY THROW	2	3	4	5	6	7
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m						
6" x 6"	300	75	0.028	0.034	1-3-5	21	1.52	35	7.0	8.4	0.4-0.8-1.6	33	32	35	27	16	11
	400	100	0.050	0.060	2-3-7	25	2.03	47	12.4	14.9	0.7-1.0-2.1	35	34	38	32	22	17
	500	125	0.078	0.094	3-4-8	28	2.54	59	19.4	23.3	0.9-1.3-2.4	37	36	40	35	27	21
	600	150	0.112	0.135	3-5-9	31	3.05	71	27.9	33.5	1.0-1.6-2.6	39	37	42	38	30	25
	700	175	0.153	0.183	4-6-9	34	3.56	83	38.0	45.6	1.2-1.8-2.8	40	38	43	41	34	28
	800	200	0.200	0.239	5-7-10	36	4.06	94	49.7	59.6	1.4-2.1-3.0	41	39	44	43	36	31
	900	225	0.253	0.303	5-8-11	37	4.57	106	62.9	75.4	1.6-2.3-3.2	42	40	45	45	39	33
	1000	250	0.312	0.374	6-8-11	39	5.08	118	77.6	93.1	1.7-2.4-3.4	43	41	46	47	41	35
8" x 8"	1100	275	0.377	0.453	6-8-12	41	5.59	130	93.9	112.7	1.9-2.5-3.6	44	42	47	49	43	37
	200	89	0.012	0.015	1-2-5	16	1.02	42	3.1	3.7	0.2-0.5-1.4	30	30	33	21	-	-
	300	133	0.028	0.034	2-3-7	22	1.52	63	7.0	8.4	0.5-1.0-2.1	34	33	36	28	18	13
	400	178	0.050	0.060	3-5-9	26	2.03	84	12.4	14.9	0.9-1.4-2.8	36	35	39	33	24	19
	500	222	0.078	0.094	4-6-11	30	2.54	105	19.4	23.3	1.1-1.7-3.2	38	37	41	36	28	23
	600	267	0.112	0.135	5-7-12	33	3.05	126	27.9	33.5	1.4-2.1-3.5	39	39	43	40	32	27
	700	311	0.153	0.183	5-8-12	35	3.56	147	38.0	45.6	1.6-2.4-3.8	41	40	44	42	35	30
	800	356	0.200	0.239	6-9-13	37	4.06	168	49.7	59.6	1.8-2.8-4.1	42	41	45	44	38	33
10" x 10"	900	400	0.253	0.303	7-10-14	39	4.57	189	62.9	75.4	2.1-3.0-4.3	43	42	47	46	40	35
	1000	444	0.312	0.374	8-11-15	41	5.08	210	77.6	93.1	2.3-3.2-4.5	44	42	48	48	43	37
	200	139	0.012	0.015	1-2-6	17	1.02	66	3.1	3.7	0.3-0.7-1.7	31	31	33	22	11	-
	300	208	0.028	0.034	2-4-9	23	1.52	98	7.0	8.4	0.7-1.3-2.6	34	34	37	29	19	14
	400	278	0.050	0.060	4-6-11	28	2.03	131	12.4	14.9	1.1-1.7-3.4	37	36	40	33	25	20
	500	347	0.078	0.094	5-7-13	31	2.54	164	19.4	23.3	1.4-2.2-4.0	39	38	42	37	30	25
	600	417	0.112	0.135	6-9-14	34	3.05	197	27.9	33.5	1.7-2.6-4.4	40	40	44	40	34	28
	700	486	0.153	0.183	7-10-16	36	3.56	229	38.0	45.6	2.0-3.0-4.7	42	41	45	43	37	31
12" x 12"	800	556	0.200	0.239	8-11-17	38	4.06	262	49.7	59.6	2.3-3.4-5.1	43	42	46	45	39	34
	900	625	0.253	0.303	9-13-18	40	4.57	295	62.9	75.4	2.6-3.8-5.4	44	43	47	47	42	37
	1000	694	0.312	0.374	9-13-19	42	5.08	328	77.6	93.1	2.9-4.0-5.7	45	44	48	49	44	39
	100	100	0.003	0.004	0-1-3	-	0.51	47	0.8	0.9	0.1-0.2-0.8	26	27	28	11	-	-
	200	200	0.012	0.015	1-3-7	18	1.02	94	3.1	3.7	0.4-0.8-2.1	31	32	34	22	12	-
	300	300	0.028	0.034	3-5-10	24	1.52	142	7.0	8.4	0.8-1.6-3.1	35	35	38	29	20	16
	400	400	0.050	0.060	5-7-14	29	2.03	189	12.4	14.9	1.4-2.1-4.1	37	37	41	34	26	21
	500	500	0.078	0.094	6-9-16	32	2.54	236	19.4	23.3	1.7-2.6-4.8	39	39	43	38	31	26
15" x 15"	600	600	0.112	0.135	7-10-17	35	3.05	283	27.9	33.5	2.1-3.1-5.3	41	40	44	41	35	30
	700	700	0.153	0.183	8-12-19	37	3.56	330	38.0	45.6	2.4-3.6-5.7	42	42	46	44	38	33
	800	800	0.200	0.239	9-14-20	39	4.06	378	49.7	59.6	2.8-4.1-6.1	43	43	47	46	40	35
	900	900	0.253	0.303	10-15-21	41	4.57	425	62.9	75.4	3.1-4.6-6.4	44	44	48	48	43	38
	100	156	0.003	0.004	0-1-3	-	0.51	74	0.8	0.9	0.1-0.2-1.0	26	28	29	11	-	-
	200	313	0.012	0.015	1-3-9	19	1.02	147	3.1	3.7	0.4-1.0-2.6	32	33	35	23	14	-
	300	469	0.028	0.034	3-6-13	25	1.52	221	7.0	8.4	1.0-1.9-3.9	36	36	39	30	22	17
	400	625	0.050	0.060	6-9-17	30	2.03	295	12.4	14.9	1.7-2.6-5.2	38	38	41	35	28	23
18" x 18"	500	781	0.078	0.094	7-11-20	33	2.54	369	19.4	23.3	2.2-3.2-6.0	40	40	44	39	32	28
	600	938	0.112	0.135	9-13-22	36	3.05	442	27.9	33.5	2.6-3.9-6.6	42	41	45	42	36	31
	700	1094	0.153	0.183	10-15-23	38	3.56	516	38.0	45.6	3.0-4.5-7.1	43	43	47	44	39	34
	750	1172	0.175	0.210	11-16-24	39	3.81	553	43.7	52.4	3.2-4.8-7.4	43	43	47	46	41	36
	800	1250	0.200	0.239	11-17-25	40	4.06	590	49.7	59.6	3.4-5.2-7.6	44	44	48	47	42	37
	100	225	0.003	0.004	0-1-4	-	0.51	106	0.8	0.9	0.1-0.3-1.2	27	28	29	12	-	-
	200	450	0.012	0.015	2-4-10	20	1.02	212	3.1	3.7	0.5-1.2-3.1	33	34	36	24	15	-
	300	675	0.028	0.034	4-8-15	26	1.52	319	7.0	8.4	1.2-2.3-4.7	36	37	39	31	23	18
18" x 18"	400	900	0.050	0.060	7-10-20	31	2.03	425	12.4	14.9	2.1-3.1-6.2	39	39	42	36	29	24
	500	1125	0.078	0.094	9-13-24	34	2.54	531	19.4	23.3	2.6-3.9-7.2	41	41	44	39	33	29
	600	1350	0.112	0.135	10-15-26	37	3.05	637	27.9	33.5	3.1-4.7-7.9	42	42	46	42	37	33
	700	1575	0.153	0.183	12-18-28	39	3.56	743	38.0	45.6	3.6-5.4-8.5	43	44	47	45	40	36
	750	1688	0.175	0.210	13-19-29	40	3.81	796	43.7	52.4	3.9-5.8-8.8	44	44	48	46	42	37
800	1800	0.200	0.239	14-20-30	41	4.06	850	49.7	59.6	4.1-6.2-9.1	45	45	49	47	43	38	

NOTE: See page C1-112 for notes.

1100, 1190 SERIES



Diffuser | Perforated, Architectural, Curved Blade

PERFORMANCE DATA | 1100, 51100 (SUPPLY), 24"x24" PANEL, 1 - 3-WAY, NO DAMPER

DIFFUSERS | PERFORATED

NECK SIZE	IP DATA					METRIC DATA				
	NECK VEL	AIR FLOW	1-WAY THROW	2-WAY THROW	3-WAY THROW	NECK VEL	AIR FLOW	1-WAY THROW	2-WAY THROW	3-WAY THROW
	FPM	CFM	ft	ft	ft	m/s	L/s	m	m	m
6" x 6"	300	75	3-5-10	3-4-8	1-3-7	1.52	35	1.0-1.5-2.9	0.8-1.3-2.6	0.4-1.0-2.0
	400	100	4-6-13	4-6-11	2-4-9	2.03	47	1.3-1.9-3.9	1.1-1.7-3.4	0.8-1.3-2.7
	500	125	5-8-16	5-7-14	4-6-11	2.54	59	1.6-2.4-4.9	1.4-2.1-4.3	1.1-1.7-3.3
	600	150	6-10-19	6-8-16	4-7-12	3.05	71	1.9-2.9-5.8	1.7-2.6-5.0	1.3-2.0-3.7
	700	175	7-11-21	7-10-18	5-8-13	3.56	83	2.3-3.4-6.3	2.0-3.0-5.4	1.6-2.3-4.0
	800	200	9-13-22	7-11-19	6-9-14	4.06	94	2.6-3.9-6.7	2.3-3.4-5.8	1.8-2.7-4.3
	900	225	10-14-23	8-13-20	7-10-15	4.57	106	2.9-4.4-7.1	2.6-3.8-6.1	2.0-3.0-4.5
	1000	250	11-16-25	9-14-21	7-11-16	5.08	118	3.2-4.9-7.5	2.8-4.3-6.5	2.2-3.3-4.8
8" x 8"	1100	275	12-18-26	10-15-22	8-12-16	5.59	130	3.6-5.4-7.8	3.1-4.7-6.8	2.5-3.5-5.0
	200	89	2-4-9	2-3-7	1-2-6	1.02	42	0.6-1.3-2.6	0.5-1.1-2.3	0.3-0.6-1.8
	300	133	4-6-13	3-6-11	2-4-9	1.52	63	1.3-1.9-3.9	1.1-1.7-3.4	0.6-1.3-2.7
	400	178	6-9-17	5-7-15	3-6-12	2.03	84	1.7-2.6-5.2	1.5-2.3-4.5	1.0-1.8-3.6
	500	222	7-11-21	6-9-19	5-7-15	2.54	105	2.2-3.2-6.5	1.9-2.8-5.7	1.5-2.2-4.5
	600	267	9-13-25	7-11-22	6-9-16	3.05	126	2.6-3.9-7.7	2.3-3.4-6.7	1.8-2.7-4.9
	700	311	10-15-27	9-13-24	7-10-17	3.56	147	3.0-4.5-8.3	2.6-4.0-7.2	2.1-3.1-5.3
	800	356	11-17-29	10-15-25	8-12-19	4.06	168	3.5-5.2-8.9	3.0-4.5-7.7	2.4-3.6-5.7
	900	400	13-19-31	11-17-27	9-13-20	4.57	189	3.9-5.8-9.5	3.4-5.1-8.2	2.7-4.0-6.0
	1000	444	14-21-33	12-19-28	10-15-21	5.08	210	4.3-6.5-10.0	3.8-5.7-8.6	3.0-4.5-6.3
10" x 10"	200	139	2-5-11	2-4-9	1-2-7	1.02	66	0.7-1.6-3.2	0.6-1.3-2.8	0.3-0.7-2.2
	300	208	5-8-16	4-7-14	2-5-11	1.52	98	1.6-2.4-4.9	1.3-2.1-4.3	0.7-1.6-3.3
	400	278	7-11-21	6-9-19	4-7-15	2.03	131	2.2-3.2-6.5	1.9-2.8-5.7	1.3-2.2-4.5
	500	347	9-13-27	8-12-23	6-9-18	2.54	164	2.7-4.1-8.1	2.4-3.5-7.1	1.9-2.8-5.6
	600	417	11-16-32	9-14-27	7-11-20	3.05	197	3.2-4.9-9.7	2.8-4.3-8.3	2.2-3.3-6.1
	700	486	12-19-34	11-16-30	9-13-22	3.56	229	3.8-5.7-10.4	3.3-5.0-9.0	2.6-3.9-6.6
	800	556	14-21-37	12-19-32	10-15-23	4.06	262	4.3-6.5-11.1	3.8-5.7-9.6	3.0-4.5-7.1
	900	625	16-24-39	14-21-34	11-17-25	4.57	295	4.9-7.3-11.8	4.3-6.4-10.2	3.3-5.0-7.5
12" x 12"	1000	694	18-27-41	16-23-35	12-18-26	5.08	328	5.4-8.1-12.5	4.7-7.1-10.8	3.7-5.6-7.9
	100	100	1-2-6	1-1-5	0-1-3	0.51	47	0.2-0.5-1.9	0.2-0.4-1.6	0.1-0.2-0.9
	200	200	3-6-13	2-5-11	1-3-9	1.02	94	0.9-1.9-3.9	0.7-1.6-3.4	0.4-0.9-2.7
	300	300	6-10-19	5-8-17	3-6-13	1.52	142	1.9-2.9-5.8	1.6-2.6-5.1	0.9-1.9-4.0
	400	400	9-13-26	7-11-22	5-9-18	2.03	189	2.6-3.9-7.8	2.3-3.4-6.8	1.5-2.7-5.4
	500	500	11-16-32	9-14-28	7-11-22	2.54	236	3.2-4.9-9.7	2.8-4.3-8.5	2.2-3.3-6.7
	600	600	13-19-38	11-17-33	9-13-24	3.05	283	3.9-5.8-11.6	3.4-5.1-10.0	2.7-4.0-7.4
	700	700	15-22-41	13-20-36	10-15-26	3.56	330	4.5-6.8-12.5	4.0-6.0-10.8	3.1-4.7-8.0
	800	800	17-26-44	15-22-38	12-18-28	4.06	378	5.2-7.8-13.4	4.5-6.8-11.6	3.6-5.4-8.5
15" x 15"	900	900	19-29-47	17-25-40	13-20-30	4.57	425	5.8-8.8-14.2	5.1-7.7-12.3	4.0-6.0-9.0
	100	156	1-2-8	1-2-7	0-1-4	0.51	74	0.3-0.6-2.4	0.2-0.5-2.0	0.1-0.3-1.1
	200	313	4-8-16	3-7-14	2-4-11	1.02	147	1.1-2.4-4.9	0.9-2.0-4.3	0.5-1.1-3.3
	300	469	8-12-24	7-11-21	4-8-17	1.52	221	2.4-3.6-7.3	2.0-3.2-6.4	1.1-2.4-5.0
	400	625	11-16-32	9-14-28	6-11-22	2.03	295	3.2-4.9-9.7	2.8-4.3-8.5	1.9-3.3-6.7
	500	781	13-20-40	12-18-35	9-14-28	2.54	369	4.1-6.1-12.2	3.5-5.3-10.6	2.8-4.2-8.4
	600	938	16-24-48	14-21-41	11-17-30	3.05	442	4.9-7.3-14.5	4.3-6.4-12.5	3.3-5.0-9.2
	700	1094	19-28-51	16-25-44	13-19-33	3.56	516	5.7-8.5-15.6	5.0-7.4-13.5	3.9-5.9-10.0
18" x 18"	750	1172	20-30-53	18-26-46	14-21-34	3.81	553	6.1-9.1-16.2	5.3-8.0-14.0	4.2-6.3-10.3
	800	1250	21-32-55	19-28-48	15-22-35	4.06	590	6.5-9.7-16.7	5.7-8.5-14.4	4.5-6.7-10.6
	100	225	1-2-10	1-2-8	0-1-4	0.51	106	0.3-0.7-2.9	0.3-0.6-2.4	0.1-0.3-1.3
	200	450	4-10-19	3-8-17	2-4-13	1.02	212	1.3-2.9-5.8	1.1-2.4-5.1	0.6-1.3-4.0
	300	675	10-14-29	8-13-25	4-9-20	1.52	319	2.9-4.4-8.8	2.4-3.8-7.7	1.3-2.9-6.0
	400	900	13-19-38	11-17-34	7-13-26	2.03	425	3.9-5.8-11.7	3.4-5.1-10.2	2.3-4.0-8.0
	500	1125	16-24-48	14-21-42	11-17-33	2.54	531	4.9-7.3-14.6	4.3-6.4-12.8	3.3-5.0-10.0
	600	1350	19-29-57	17-25-49	13-20-36	3.05	637	5.8-8.8-17.4	5.1-7.7-15.0	4.0-6.0-11.1
18" x 18"	700	1575	22-34-62	20-29-53	15-23-39	3.56	743	6.8-10.2-18.8	6.0-8.9-16.2	4.7-7.0-11.9
	750	1688	24-36-64	21-32-55	17-25-41	3.81	796	7.3-10.9-19.4	6.4-9.6-16.8	5.0-7.5-12.4
	800	1800	26-38-66	22-34-57	18-26-42	4.06	850	7.8-11.7-20.1	6.8-10.2-17.3	5.4-8.0-12.8

NOTE: See page C1-112 for notes.

PERFORMANCE DATA | 1100, 51100 (SUPPLY), 24"x48" PANEL, 4-WAY, NO DAMPER

NECK SIZE	IP DATA					NC	METRIC DATA					OCTAVE BAND, dB					
	NECK VEL	AIR FLOW	Ps	Pt	4-WAY THROW		NECK VEL	AIR FLOW	Ps	Pt	4-WAY THROW	2	3	4	5	6	7
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m						
6" x 6"	300	75	0.028	0.034	1-3-5	21	1.52	35	7.0	8.4	0.4-0.8-1.6	33	32	35	27	16	11
	400	100	0.050	0.060	2-3-7	25	2.03	47	12.4	14.9	0.7-1.0-2.1	35	34	38	32	22	17
	500	125	0.078	0.094	3-4-8	28	2.54	59	19.4	23.3	0.9-1.3-2.4	37	36	40	35	27	21
	600	150	0.112	0.135	3-5-9	31	3.05	71	27.9	33.5	1.0-1.6-2.6	39	37	42	38	30	25
	700	175	0.153	0.183	4-6-9	34	3.56	83	38.0	45.6	1.2-1.8-2.8	40	38	43	41	34	28
	800	200	0.200	0.239	5-7-10	36	4.06	94	49.7	59.6	1.4-2.1-3.0	41	39	44	43	36	31
	900	225	0.253	0.303	5-8-11	37	4.57	106	62.9	75.4	1.6-2.3-3.2	42	40	45	45	39	33
	1000	250	0.312	0.374	6-8-11	39	5.08	118	77.6	93.1	1.7-2.4-3.4	43	41	46	47	41	35
8" x 8"	1100	275	0.377	0.453	6-8-12	41	5.59	130	93.9	112.7	1.9-2.5-3.6	44	42	47	49	43	37
	200	89	0.012	0.015	1-2-5	16	1.02	42	3.1	3.7	0.2-0.5-1.4	30	30	33	21	-	-
	300	133	0.028	0.034	2-3-7	22	1.52	63	7.0	8.4	0.5-1.0-2.1	34	33	36	28	18	13
	400	178	0.050	0.060	3-5-9	26	2.03	84	12.4	14.9	0.9-1.4-2.8	36	35	39	33	24	19
	500	222	0.078	0.094	4-6-11	30	2.54	105	19.4	23.3	1.1-1.7-3.2	38	37	41	36	28	23
	600	267	0.112	0.135	5-7-12	33	3.05	126	27.9	33.5	1.4-2.1-3.5	39	39	43	40	32	27
	700	311	0.153	0.183	5-8-12	35	3.56	147	38.0	45.6	1.6-2.4-3.8	41	40	44	42	35	30
	800	356	0.200	0.239	6-9-13	37	4.06	168	49.7	59.6	1.8-2.8-4.1	42	41	45	44	38	33
10" x 10"	900	400	0.253	0.303	7-10-14	39	4.57	189	62.9	75.4	2.1-3.0-4.3	43	42	47	46	40	35
	1000	444	0.312	0.374	8-11-15	41	5.08	210	77.6	93.1	2.3-3.2-4.5	44	42	48	48	43	37
	200	139	0.012	0.015	1-2-6	17	1.02	66	3.1	3.7	0.3-0.7-1.7	31	31	33	22	11	-
	300	208	0.028	0.034	2-4-9	23	1.52	98	7.0	8.4	0.7-1.3-2.6	34	34	37	29	19	14
	400	278	0.050	0.060	4-6-11	28	2.03	131	12.4	14.9	1.1-1.7-3.4	37	36	40	33	25	20
	500	347	0.078	0.094	5-7-13	31	2.54	164	19.4	23.3	1.4-2.2-4.0	39	38	42	37	30	25
	600	417	0.112	0.135	6-9-14	34	3.05	197	27.9	33.5	1.7-2.6-4.4	40	40	44	40	34	28
	700	486	0.153	0.183	7-10-16	36	3.56	229	38.0	45.6	2.0-3.0-4.7	42	41	45	43	37	31
12" x 12"	800	556	0.200	0.239	8-11-17	38	4.06	262	49.7	59.6	2.3-3.4-5.1	43	42	46	45	39	34
	900	625	0.253	0.303	9-13-18	40	4.57	295	62.9	75.4	2.6-3.8-5.4	44	43	47	47	42	37
	1000	694	0.312	0.374	9-13-19	42	5.08	328	77.6	93.1	2.9-4.0-5.7	45	44	48	49	44	39
	100	100	0.003	0.004	0-1-3	-	0.51	47	0.8	0.9	0.1-0.2-0.8	26	27	28	11	-	-
	200	200	0.012	0.015	1-3-7	18	1.02	94	3.1	3.7	0.4-0.8-2.1	31	32	34	22	12	-
	300	300	0.028	0.034	3-5-10	24	1.52	142	7.0	8.4	0.8-1.6-3.1	35	35	38	29	20	16
	400	400	0.050	0.060	5-7-14	29	2.03	189	12.4	14.9	1.4-2.1-4.1	37	37	41	34	26	21
	500	500	0.078	0.094	6-9-16	32	2.54	236	19.4	23.3	1.7-2.6-4.8	39	39	43	38	31	26
15" x 15"	600	600	0.112	0.135	7-10-17	35	3.05	283	27.9	33.5	2.1-3.1-5.3	41	40	44	41	35	30
	700	700	0.153	0.183	8-12-19	37	3.56	330	38.0	45.6	2.4-3.6-5.7	42	42	46	44	38	33
	800	800	0.200	0.239	9-14-20	39	4.06	378	49.7	59.6	2.8-4.1-6.1	43	43	47	46	40	35
	900	900	0.253	0.303	10-15-21	41	4.57	425	62.9	75.4	3.1-4.6-6.4	44	44	48	48	43	38
	100	156	0.003	0.004	0-1-3	-	0.51	74	0.8	0.9	0.1-0.2-1.0	26	28	29	11	-	-
	200	313	0.012	0.015	1-3-9	19	1.02	147	3.1	3.7	0.4-1.0-2.6	32	33	35	23	14	-
	300	469	0.028	0.034	3-6-13	25	1.52	221	7.0	8.4	1.0-1.9-3.9	36	36	39	30	22	17
	400	625	0.050	0.060	6-9-17	30	2.03	295	12.4	14.9	1.7-2.6-5.2	38	38	41	35	28	23
18" x 18"	500	781	0.078	0.094	7-11-20	33	2.54	369	19.4	23.3	2.2-3.2-6.0	40	40	44	39	32	28
	600	938	0.112	0.135	9-13-22	36	3.05	442	27.9	33.5	2.6-3.9-6.6	42	41	45	42	36	31
	700	1094	0.153	0.183	10-15-23	38	3.56	516	38.0	45.6	3.0-4.5-7.1	43	43	47	44	39	34
	750	1172	0.175	0.210	11-16-24	39	3.81	553	43.7	52.4	3.2-4.8-7.4	43	43	47	46	41	36
	800	1250	0.200	0.239	11-17-25	40	4.06	590	49.7	59.6	3.4-5.2-7.6	44	44	48	47	42	37
	100	225	0.003	0.004	0-1-4	-	0.51	106	0.8	0.9	0.1-0.3-1.2	27	28	29	12	-	-
	200	450	0.012	0.015	2-4-10	20	1.02	212	3.1	3.7	0.5-1.2-3.1	33	34	36	24	15	-
	300	675	0.028	0.034	4-8-15	26	1.52	319	7.0	8.4	1.2-2.3-4.7	36	37	39	31	23	18
18" x 18"	400	900	0.050	0.060	7-10-20	31	2.03	425	12.4	14.9	2.1-3.1-6.2	39	39	42	36	29	24
	500	1125	0.078	0.094	9-13-24	34	2.54	531	19.4	23.3	2.6-3.9-7.2	41	41	44	39	33	29
	600	1350	0.112	0.135	10-15-26	37	3.05	637	27.9	33.5	3.1-4.7-7.9	42	42	46	42	37	33
	700	1575	0.153	0.183	12-18-28	39	3.56	743	38.0	45.6	3.6-5.4-8.5	43	44	47	45	40	36
	750	1688	0.175	0.210	13-19-29	40	3.81	796	43.7	52.4	3.9-5.8-8.8	44	44	48	46	42	37
800	1800	0.200	0.239	14-20-30	41	4.06	850	49.7	59.6	4.1-6.2-9.1	45	45	49	47	43	38	

NOTE: See page C1-112 for notes.

1100, 1190 SERIES



Diffuser | Perforated, Architectural, Curved Blade

PERFORMANCE DATA | 1100, 51100 (SUPPLY), 24"x24" PANEL, 1 - 3-WAY, NO DAMPER

DIFFUSERS | PERFORATED

NECK SIZE	IP DATA					METRIC DATA				
	NECK VEL	AIR FLOW	1-WAY THROW	2-WAY THROW	3-WAY THROW	NECK VEL	AIR FLOW	1-WAY THROW	2-WAY THROW	3-WAY THROW
	FPM	CFM	ft	ft	ft	m/s	L/s	m	m	m
6" x 6"	300	75	3-5-10	3-4-8	1-3-7	1.52	35	1.0-1.5-2.9	0.8-1.3-2.6	0.4-1.0-2.0
	400	100	4-6-13	4-6-11	2-4-9	2.03	47	1.3-1.9-3.9	1.1-1.7-3.4	0.8-1.3-2.7
	500	125	5-8-16	5-7-14	4-6-11	2.54	59	1.6-2.4-4.9	1.4-2.1-4.3	1.1-1.7-3.3
	600	150	6-10-19	6-8-16	4-7-12	3.05	71	1.9-2.9-5.8	1.7-2.6-5.0	1.3-2.0-3.7
	700	175	7-11-21	7-10-18	5-8-13	3.56	83	2.3-3.4-6.3	2.0-3.0-5.4	1.6-2.3-4.0
	800	200	9-13-22	7-11-19	6-9-14	4.06	94	2.6-3.9-6.7	2.3-3.4-5.8	1.8-2.7-4.3
	900	225	10-14-23	8-13-20	7-10-15	4.57	106	2.9-4.4-7.1	2.6-3.8-6.1	2.0-3.0-4.5
	1000	250	11-16-25	9-14-21	7-11-16	5.08	118	3.2-4.9-7.5	2.8-4.3-6.5	2.2-3.3-4.8
	1100	275	12-18-26	10-15-22	8-12-16	5.59	130	3.6-5.4-7.8	3.1-4.7-6.8	2.5-3.5-5.0
8" x 8"	200	89	2-4-9	2-3-7	1-2-6	1.02	42	0.6-1.3-2.6	0.5-1.1-2.3	0.3-0.6-1.8
	300	133	4-6-13	3-6-11	2-4-9	1.52	63	1.3-1.9-3.9	1.1-1.7-3.4	0.6-1.3-2.7
	400	178	6-9-17	5-7-15	3-6-12	2.03	84	1.7-2.6-5.2	1.5-2.3-4.5	1.0-1.8-3.6
	500	222	7-11-21	6-9-19	5-7-15	2.54	105	2.2-3.2-6.5	1.9-2.8-5.7	1.5-2.2-4.5
	600	267	9-13-25	7-11-22	6-9-16	3.05	126	2.6-3.9-7.7	2.3-3.4-6.7	1.8-2.7-4.9
	700	311	10-15-27	9-13-24	7-10-17	3.56	147	3.0-4.5-8.3	2.6-4.0-7.2	2.1-3.1-5.3
	800	356	11-17-29	10-15-25	8-12-19	4.06	168	3.5-5.2-8.9	3.0-4.5-7.7	2.4-3.6-5.7
	900	400	13-19-31	11-17-27	9-13-20	4.57	189	3.9-5.8-9.5	3.4-5.1-8.2	2.7-4.0-6.0
	1000	444	14-21-33	12-19-28	10-15-21	5.08	210	4.3-6.5-10.0	3.8-5.7-8.6	3.0-4.5-6.3
10" x 10"	200	139	2-5-11	2-4-9	1-2-7	1.02	66	0.7-1.6-3.2	0.6-1.3-2.8	0.3-0.7-2.2
	300	208	5-8-16	4-7-14	2-5-11	1.52	98	1.6-2.4-4.9	1.3-2.1-4.3	0.7-1.6-3.3
	400	278	7-11-21	6-9-19	4-7-15	2.03	131	2.2-3.2-6.5	1.9-2.8-5.7	1.3-2.2-4.5
	500	347	9-13-27	8-12-23	6-9-18	2.54	164	2.7-4.1-8.1	2.4-3.5-7.1	1.9-2.8-5.6
	600	417	11-16-32	9-14-27	7-11-20	3.05	197	3.2-4.9-9.7	2.8-4.3-8.3	2.2-3.3-6.1
	700	486	12-19-34	11-16-30	9-13-22	3.56	229	3.8-5.7-10.4	3.3-5.0-9.0	2.6-3.9-6.6
	800	556	14-21-37	12-19-32	10-15-23	4.06	262	4.3-6.5-11.1	3.8-5.7-9.6	3.0-4.5-7.1
	900	625	16-24-39	14-21-34	11-17-25	4.57	295	4.9-7.3-11.8	4.3-6.4-10.2	3.3-5.0-7.5
	1000	694	18-27-41	16-23-35	12-18-26	5.08	328	5.4-8.1-12.5	4.7-7.1-10.8	3.7-5.6-7.9
12" x 12"	100	100	1-2-6	1-1-5	0-1-3	0.51	47	0.2-0.5-1.9	0.2-0.4-1.6	0.1-0.2-0.9
	200	200	3-6-13	2-5-11	1-3-9	1.02	94	0.9-1.9-3.9	0.7-1.6-3.4	0.4-0.9-2.7
	300	300	6-10-19	5-8-17	3-6-13	1.52	142	1.9-2.9-5.8	1.6-2.6-5.1	0.9-1.9-4.0
	400	400	9-13-26	7-11-22	5-9-18	2.03	189	2.6-3.9-7.8	2.3-3.4-6.8	1.5-2.7-5.4
	500	500	11-16-32	9-14-28	7-11-22	2.54	236	3.2-4.9-9.7	2.8-4.3-8.5	2.2-3.3-6.7
	600	600	13-19-38	11-17-33	9-13-24	3.05	283	3.9-5.8-11.6	3.4-5.1-10.0	2.7-4.0-7.4
	700	700	15-22-41	13-20-36	10-15-26	3.56	330	4.5-6.8-12.5	4.0-6.0-10.8	3.1-4.7-8.0
	800	800	17-26-44	15-22-38	12-18-28	4.06	378	5.2-7.8-13.4	4.5-6.8-11.6	3.6-5.4-8.5
	900	900	19-29-47	17-25-40	13-20-30	4.57	425	5.8-8.8-14.2	5.1-7.7-12.3	4.0-6.0-9.0
15" x 15"	100	156	1-2-8	1-2-7	0-1-4	0.51	74	0.3-0.6-2.4	0.2-0.5-2.0	0.1-0.3-1.1
	200	313	4-8-16	3-7-14	2-4-11	1.02	147	1.1-2.4-4.9	0.9-2.0-4.3	0.5-1.1-3.3
	300	469	8-12-24	7-11-21	4-8-17	1.52	221	2.4-3.6-7.3	2.0-3.2-6.4	1.1-2.4-5.0
	400	625	11-16-32	9-14-28	6-11-22	2.03	295	3.2-4.9-9.7	2.8-4.3-8.5	1.9-3.3-6.7
	500	781	13-20-40	12-18-35	9-14-28	2.54	369	4.1-6.1-12.2	3.5-5.3-10.6	2.8-4.2-8.4
	600	938	16-24-48	14-21-41	11-17-30	3.05	442	4.9-7.3-14.5	4.3-6.4-12.5	3.3-5.0-9.2
	700	1094	19-28-51	16-25-44	13-19-33	3.56	516	5.7-8.5-15.6	5.0-7.4-13.5	3.9-5.9-10.0
	750	1172	20-30-53	18-26-46	14-21-34	3.81	553	6.1-9.1-16.2	5.3-8.0-14.0	4.2-6.3-10.3
	800	1250	21-32-55	19-28-48	15-22-35	4.06	590	6.5-9.7-16.7	5.7-8.5-14.4	4.5-6.7-10.6
18" x 18"	100	225	1-2-10	1-2-8	0-1-4	0.51	106	0.3-0.7-2.9	0.3-0.6-2.4	0.1-0.3-1.3
	200	450	4-10-19	3-8-17	2-4-13	1.02	212	1.3-2.9-5.8	1.1-2.4-5.1	0.6-1.3-4.0
	300	675	10-14-29	8-13-25	4-9-20	1.52	319	2.9-4.4-8.8	2.4-3.8-7.7	1.3-2.9-6.0
	400	900	13-19-38	11-17-34	7-13-26	2.03	425	3.9-5.8-11.7	3.4-5.1-10.2	2.3-4.0-8.0
	500	1125	16-24-48	14-21-42	11-17-33	2.54	531	4.9-7.3-14.6	4.3-6.4-12.8	3.3-5.0-10.0
	600	1350	19-29-57	17-25-49	13-20-36	3.05	637	5.8-8.8-17.4	5.1-7.7-15.0	4.0-6.0-11.1
	700	1575	22-34-62	20-29-53	15-23-39	3.56	743	6.8-10.2-18.8	6.0-8.9-16.2	4.7-7.0-11.9
	750	1688	24-36-64	21-32-55	17-25-41	3.81	796	7.3-10.9-19.4	6.4-9.6-16.8	5.0-7.5-12.4
	800	1800	26-38-66	22-34-57	18-26-42	4.06	850	7.8-11.7-20.1	6.8-10.2-17.3	5.4-8.0-12.8

NOTE: See page C1-112 for notes.

PERFORMANCE DATA | 1190, 51190 (RETURN), NO DAMPER

NECK SIZE	IP DATA				NC	METRIC DATA				OCTAVE BAND, dB						
	NECK VEL	AIR FLOW	Pv	Ps		NECK VEL	AIR FLOW	Pv	Ps	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG		m/s	L/s	Pa	Pa							
10" x 10"	300	208	0.006	-0.010	-	1.52	98	1.4	-2.5	48	18	-	-	-	-	
	400	278	0.010	-0.018	-	2.03	131	2.5	-4.4	49	22	14	12	-	-	
	500	347	0.016	-0.028	11	2.54	164	3.9	-6.9	50	25	19	17	13	-	
	600	417	0.022	-0.040	16	3.05	197	5.6	-10.0	51	28	23	21	18	-	
	700	486	0.031	-0.055	20	3.56	229	7.6	-13.6	52	31	26	24	22	13	
	800	556	0.040	-0.071	24	4.06	262	9.9	-17.8	52	33	28	27	26	19	
	900	625	0.051	-0.090	27	4.57	295	12.6	-22.5	53	34	31	30	29	24	
	1000	694	0.062	-0.112	30	5.08	328	15.5	-27.8	53	36	33	32	32	28	
	1100	764	0.075	-0.135	32	5.59	361	18.8	-33.6	54	37	35	34	34	32	
12" x 12"	300	300	0.006	-0.012	-	1.52	142	1.4	-3.11	46	20	11	-	-	-	
	400	400	0.010	-0.022	-	2.03	189	2.5	-5.53	47	24	17	15	11	-	
	500	500	0.016	-0.035	14	2.54	236	3.9	-8.63	48	28	22	20	17	-	
	600	600	0.022	-0.050	18	3.05	283	5.6	-12.43	49	31	26	24	22	12	
	700	700	0.031	-0.068	22	3.56	330	7.6	-16.92	50	33	29	27	26	19	
	800	800	0.040	-0.089	26	4.06	378	9.9	-22.10	51	35	31	30	30	24	
	900	900	0.051	-0.112	29	4.57	425	12.6	-27.97	51	37	34	33	33	29	
	1000	1000	0.062	-0.139	32	5.08	472	15.5	-34.54	52	39	36	35	36	33	
	1100	1100	0.075	-0.168	34	5.59	519	18.8	-41.79	52	40	38	37	39	37	
14" x 14"	300	408	0.006	-0.015	-	1.52	193	1.4	-3.83	45	22	14	11	-	-	
	400	544	0.010	-0.027	-	2.03	257	2.5	-6.80	46	27	20	17	14	-	
	500	681	0.016	-0.043	15	2.54	321	3.9	-10.63	47	30	24	22	20	-	
	600	817	0.022	-0.061	20	3.05	385	5.6	-15.31	48	33	28	26	25	17	
	700	953	0.031	-0.084	24	3.56	450	7.6	-20.84	48	35	31	29	30	23	
	800	1089	0.040	-0.109	28	4.06	514	9.9	-27.22	49	37	34	32	33	28	
	900	1225	0.051	-0.138	31	4.57	578	12.6	-34.45	50	39	36	35	37	33	
	1000	1361	0.062	-0.171	34	5.08	642	15.5	-42.53	50	41	39	37	40	37	
	1100	1497	0.075	-0.207	36	5.59	707	18.8	-51.46	50	42	41	39	42	41	
10" x 22"	300	458	0.006	-0.017	-	1.52	216	1.4	-4.16	44	23	15	12	-	-	
	400	611	0.010	-0.030	-	2.03	288	2.5	-7.39	45	27	21	18	16	-	
	500	764	0.016	-0.046	16	2.54	361	3.9	-11.55	46	31	25	23	22	11	
	600	917	0.022	-0.067	21	3.05	433	5.6	-16.64	47	34	29	27	27	18	
	700	1069	0.031	-0.091	25	3.56	505	7.6	-22.65	48	36	32	30	31	24	
	800	1222	0.040	-0.119	29	4.06	577	9.9	-29.58	48	38	35	33	35	30	
	900	1375	0.051	-0.150	32	4.57	649	12.6	-37.43	49	40	37	36	38	35	
	1000	1528	0.062	-0.186	34	5.08	721	15.5	-46.22	49	41	40	38	41	39	
	1100	1681	0.075	-0.225	37	5.59	793	18.8	-55.92	50	43	42	40	43	43	
16" x 16"	300	533	0.006	-0.019	-	1.52	252	1.4	-4.66	43	24	16	13	-	-	
	400	711	0.010	-0.033	11	2.03	336	2.5	-8.28	45	28	22	19	17	-	
	500	889	0.016	-0.052	17	2.54	420	3.9	-12.94	46	32	27	24	24	13	
	600	1067	0.022	-0.075	22	3.05	503	5.6	-18.63	46	35	30	28	29	20	
	700	1244	0.031	-0.102	26	3.56	587	7.6	-25.36	47	37	34	31	33	27	
	800	1422	0.040	-0.133	30	4.06	671	9.9	-33.12	48	39	36	34	36	32	
	900	1600	0.051	-0.168	33	4.57	755	12.6	-41.92	48	41	39	37	40	37	
	1000	1778	0.062	-0.208	35	5.08	839	15.5	-51.75	49	42	41	39	43	41	
	1100	1956	0.075	-0.251	38	5.59	923	18.8	-62.61	49	44	43	41	45	45	
18" x 18"	300	675	0.006	-0.022	-	1.52	319	1.4	-5.60	42	26	18	15	12	-	
	400	900	0.010	-0.040	13	2.03	425	2.5	-9.95	43	30	24	21	20	-	
	500	1125	0.016	-0.062	19	2.54	531	3.9	-15.55	44	33	29	26	26	16	
	600	1350	0.022	-0.090	23	3.05	637	5.6	-22.39	45	36	32	30	31	24	
	700	1575	0.031	-0.122	27	3.56	743	7.6	-30.48	46	39	36	33	36	30	
	800	1800	0.040	-0.160	31	4.06	850	9.9	-39.81	47	41	38	36	39	35	
	900	2025	0.051	-0.202	34	4.57	956	12.6	-50.38	47	42	41	39	42	40	
	1000	2250	0.062	-0.250	37	5.08	1062	15.5	-62.20	48	44	43	41	45	44	
	1100	2475	0.075	-0.302	39	5.59	1168	18.8	-75.26	48	46	45	43	48	48	

NOTE: See page C1-112 for notes.

1100, 1190 SERIES

Diffuser | Perforated, Architectural, Curved Blade



PERFORMANCE DATA | 1190, 51190 (RETURN), NO DAMPER

DIFFUSERS | PERFORATED

NECK SIZE	IP DATA				NC	METRIC DATA				OCTAVE BAND, dB						
	NECK VEL	AIR FLOW	P _v	P _s		NECK VEL	AIR FLOW	P _v	P _s							
	FPM	CFM	"WG	"WG		m/s	L/s	Pa	Pa	2	3	4	5	6	7	
20" x 20"	300	833	0.006	-0.027	-	1.52	393	1.4	-6.65	41	27	20	16	15	-	
	400	1111	0.010	-0.047	14	2.03	524	2.5	-11.82	42	32	26	23	23	-	
	500	1389	0.016	-0.074	20	2.54	655	3.9	-18.47	43	35	31	28	29	19	
	600	1667	0.022	-0.107	25	3.05	787	5.6	-26.60	44	38	34	32	34	27	
	700	1944	0.031	-0.145	29	3.56	918	7.6	-36.20	45	40	37	35	38	33	
	800	2222	0.040	-0.190	32	4.06	1049	9.9	-47.28	45	42	40	38	42	38	
	900	2500	0.051	-0.240	35	4.57	1180	12.6	-59.84	46	44	42	41	45	43	
	1000	2778	0.062	-0.297	38	5.08	1311	15.5	-73.88	46	46	45	43	48	47	
	1100	3056	0.075	-0.359	41	5.59	1442	18.8	-89.39	47	47	47	45	50	51	
22" x 22"	300	1008	0.006	-0.031	-	1.52	476	1.4	-7.81	40	28	22	18	17	-	
	400	1344	0.010	-0.056	15	2.03	635	2.5	-13.89	41	33	28	24	25	13	
	500	1681	0.016	-0.087	21	2.54	793	3.9	-21.70	42	36	32	29	31	22	
	600	2017	0.022	-0.125	26	3.05	952	5.6	-31.24	43	39	36	33	36	29	
	700	2353	0.031	-0.171	30	3.56	1110	7.6	-42.52	44	41	39	36	40	35	
	800	2689	0.040	-0.223	33	4.06	1269	9.9	-55.54	45	43	42	39	44	41	
	900	3025	0.051	-0.282	37	4.57	1428	12.6	-70.30	45	45	44	42	47	46	
	1000	3361	0.062	-0.349	39	5.08	1586	15.5	-86.78	46	47	46	44	50	50	
	1100	3697	0.075	-0.422	42	5.59	1745	18.8	-105.01	46	48	48	46	53	54	
22" x 46"	100	703	0.001	-0.003	-	0.51	332	0.2	-0.87	32	17	-	-	-	-	
	200	1406	0.003	-0.014	-	1.02	663	0.6	-3.47	35	27	20	14	14	-	
	300	2108	0.006	-0.031	12	1.52	995	1.4	-7.81	37	34	28	23	25	12	
	400	2811	0.010	-0.056	20	2.03	1327	2.5	-13.89	38	38	34	30	33	23	
	500	3514	0.016	-0.087	26	2.54	1658	3.9	-21.70	39	41	38	35	39	32	
	600	4217	0.022	-0.125	30	3.05	1990	5.6	-31.24	40	44	42	39	44	40	
	700	4919	0.031	-0.171	35	3.56	2322	7.6	-42.52	40	46	45	42	49	46	
	800	5622	0.040	-0.223	38	4.06	2653	9.9	-55.54	41	49	48	45	52	51	
	900	6325	0.051	-0.282	41	4.57	2985	12.6	-70.30	41	50	50	48	56	56	

NOTES: SUPPLY

Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.5, and 0.25 m/s). Throw values are given for isothermal conditions. Dash in space denotes NC or dB value of less than 10. NC values are based on octave band, 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. The throw values given for 1-Way Throw is for [Total CFM] CFM per side (L/s). The throw values given for 2-Way Throw is for [Total CFM/2] CFM per side (L/s). The throw values given for 3-Way Throw is for [Total CFM/3] CFM per side (L/s). The throw values given for 4-Way Throw is for [Total CFM/4] CFM per side (L/s). See Krueger's selection software for performance data not shown, including octave band data.

NOTES: RETURN

NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection software for performance data not shown, including octave band data.