

PERFORMANCE DATA:

Model UNI2-SQ • 24 x 24 (600 x 600) Face Size • Square Pattern

Nominal Neck Size	Neck Velocity, FPM	600	700	800	900	1000	1100	1200	1300	1400	1500
	Velocity Pressure	.020	.030	.040	.050	.060	.080	.090	.110	.120	.140
6" Dia.	Total Pressure	.03	.04	.05	.06	.07	.09	.10	.12	.14	.16
	Airflow, CFM	118	137	157	177	196	216	236	255	275	295
	Throw	1-3-5	2-3-6	2-4-7	3-4-9	3-4-9	3-5-10	4-5-11	4-6-11	4-6-11	4-7-12
	Noise Criteria	—	—	—	—	—	—	—	16	18	20
Nominal Neck Size	Neck Velocity, FPM	500	600	700	800	900	1000	1100	1200	1300	1400
	Velocity Pressure	.020	.020	.030	.040	.050	.060	.080	.090	.110	.120
8" Dia.	Total Pressure	.04	.06	.08	.11	.14	.17	.21	.25	.29	.34
	Airflow, CFM	175	209	244	279	314	349	384	419	454	489
	Throw	2-4-7	3-4-9	3-5-10	4-6-12	4-6-12	5-7-13	5-8-13	6-9-14	6-9-15	7-10-15
	Noise Criteria	—	—	—	—	19	22	25	28	30	33
Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	900	1000	1100	1200
	Velocity Pressure	.010	.010	.020	.020	.030	.040	.050	.060	.080	.090
10" Dia.	Total Pressure	.03	.05	.08	.11	.15	.19	.24	.30	.36	.43
	Airflow, CFM	164	218	273	327	382	436	491	545	600	654
	Throw	2-3-6	3-4-8	3-5-10	4-6-12	5-7-13	5-8-14	6-9-15	7-10-16	8-11-17	8-12-18
	Noise Criteria	—	—	—	17	22	26	30	33	36	39
Nominal Neck Size	Neck Velocity, FPM	300	370	440	510	580	650	720	790	860	930
	Velocity Pressure	.010	.010	.010	.020	.020	.030	.030	.040	.050	.050
12" Dia.	Total Pressure	.04	.06	.09	.12	.15	.19	.24	.29	.34	.40
	Airflow, CFM	236	291	346	401	456	511	565	620	675	730
	Throw	3-4-8	3-5-10	4-6-12	5-7-14	5-8-15	6-9-16	6-10-16	7-11-17	8-12-18	8-13-19
	Noise Criteria	—	—	17	21	25	29	32	35	38	40
Nominal Neck Size	Neck Velocity, FPM	300	350	400	450	500	550	600	650	700	750
	Velocity Pressure	.010	.010	.010	.010	.020	.020	.020	.030	.030	.040
14" Dia.	Total Pressure	.06	.08	.10	.13	.16	.19	.23	.27	.31	.36
	Airflow, CFM	321	374	428	481	535	588	641	695	748	802
	Throw	3-5-10	4-6-12	4-7-13	5-8-15	6-8-16	6-9-17	7-10-17	7-11-18	8-12-19	8-13-20
	Noise Criteria	—	17	21	25	28	31	34	37	39	41

Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.

2. Throw is diagonal, from the corner. Centerline throw is 25% shorter.

3. Noise Criteria (NC) values are based upon 10dB room absorption, re 10⁻¹² watts. Dash (—) in space indicates an Noise Criteria of less than 15.

4. All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 - 2023.

PERFORMANCE DATA:

Model UNI2-SQP • 24 x 24 (600 x 600) Face Size • Square Pattern • Perimeter Application

Nominal Neck Size	Neck Velocity, FPM	600	700	800	900	1000	1100	1200	1300	1400	1500
	Velocity Pressure	.020	.030	.040	.050	.060	.080	.090	.110	.120	.140
6" Dia.	Total Pressure	.02	.03	.04	.05	.07	.08	.10	.11	.13	.14
	Airflow, CFM	118	137	157	177	196	216	236	255	275	295
	Noise Criteria	—	17	20	24	26	29	32	34	36	38
Nominal Neck Size	Neck Velocity, FPM	400	475	550	625	700	775	850	925	1000	1075
	Velocity Pressure	.010	.010	.020	.020	.030	.040	.050	.050	.060	.070
8" Dia.	Total Pressure	.01	.01	.02	.02	.03	.04	.05	.05	.06	.07
	Airflow, CFM	140	166	192	218	244	271	297	323	349	375
	Noise Criteria	—	18	22	26	29	32	35	37	39	41
Nominal Neck Size	Neck Velocity, FPM	300	350	400	450	500	550	600	650	700	750
	Velocity Pressure	.010	.010	.010	.010	.020	.020	.020	.030	.030	.040
10" Dia.	Total Pressure	.07	.10	.13	.17	.21	.25	.30	.35	.41	.47
	Airflow, CFM	164	191	218	245	273	300	327	355	382	409
	Noise Criteria	15	19	23	27	29	32	35	37	39	41
Nominal Neck Size	Neck Velocity, FPM	200	240	280	320	360	400	440	480	520	560
	Velocity Pressure	.000	.000	.000	.010	.010	.010	.010	.010	.020	.020
12" Dia.	Total Pressure	.05	.08	.11	.14	.18	.22	.26	.31	.37	.43
	Airflow, CFM	157	188	220	251	283	314	346	377	408	440
	Noise Criteria	—	17	21	25	28	31	34	36	39	41
Nominal Neck Size	Neck Velocity, FPM	200	225	250	275	300	325	350	375	400	425
	Velocity Pressure	.000	.000	.000	.000	.010	.010	.010	.010	.010	.010
14" Dia.	Total Pressure	.08	.10	.12	.15	.18	.21	.24	.28	.32	.36
	Airflow, CFM	214	241	267	294	321	347	374	401	428	454
	Noise Criteria	19	22	25	27	30	32	34	36	38	40

Throw Performance:

Throw Direction	Airflow, CFM	120	155	190	225	260	295	330	365	400	435
	Room	1-2-5	2-3-6	3-4-8	3-5-9	4-5-10	4-6-10	5-7-11	5-8-11	6-8-12	6-9-12
	Room Corner	2-4-9	3-6-11	4-8-12	6-9-13	7-10-14	8-10-15	9-11-15	9-11-16	10-12-17	10-13-18
	Side	1-3-6	2-4-8	3-5-10	4-6-12	5-7-13	5-8-13	6-9-14	7-10-15	7-11-16	8-11-16
	Window Corner	1-3-7	2-4-10	3-6-12	4-7-14	5-8-16	6-9-18	7-10-20	8-11-22	8-12-23	9-13-24
	Window	2-5-9	4-6-10	5-8-11	6-8-12	7-9-13	8-9-13	8-10-14	9-11-15	9-11-16	9-11-16

Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Throw is shown separately and is independent of neck size.
3. The UNI2-SQP has 8 velocity isovels. Three towards the curtain wall and three towards the room (straight and diagonal) and two sideways.

4. Noise Criteria (NC) values are based upon 10dB room absorption, re 10⁻¹² watts. Dash (—) in space indicates an Noise Criteria of less than 15.

5. All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 - 2023.

