PERFORMANCE DATA:

MODEL 6600 • SQUARE NECK

Neck Size	Face Opening	Neck Velocity, FPM Velocity Pressure Airflow, CFM	160 .002 40	240 .004 60	320 .006 80	400 .010 100	600 .023 150	800 .040 200	1000 .063 250	1200 .090 300	1400 .122 350
		Total Pressure				.03	.06	.10	.16	.23	.31
	1 1/4"	Throw				1	3	5	6	7	9
		Noise Criteria				13	18	21	25	30	36
	1"	Total Pressure			.02	.03	.07	.11	.17	.26	.34
		Throw			2	2	4	6	7	8	10
6		Noise Criteria			_	13	18	21	25	31	37
X		Total Pressure	.01	.01	.02	.03	.08	.13	.21	.30	.41
6	3/4"	Throw	2	2	3	3	5	7	8	9	10
		Noise Criteris	_	_	_	14	19	22	26	32	38
		Total Pressure	.01	.02	.03	.05	.10	.18	.28	.41	.56
	1/2"	Throw	3	3	4	4	6	8	9	10	11
		Noise Criteria	_	_	_	15	20	23	26	35	40

Neck Size	Face Opening	Neck Velocity, FPM Velocity Pressure Airflow, CFM	89 .001 50	133 .001 75	178 .002 100	267 .004 150	356 .008 200	444 .012 250	533 .018 300	711 .031 400	800 .040 450
		Total Pressure				.01	.02	.04	.06	.10	.12
	1 1/4"	Throw				2	3	5	6	8	9
		Noise Criteria				12	17	20	23	32	37
	1"	Total Pressure			.01	.02	.03	.05	.07	.12	.15
_		Throw			2	4	5	6	7	10	11
9		Noise Criteria			_	13	18	21	24	33	39
X		Total Pressure		.01	.01	.03	.04	.07	.10	.17	.21
9	3/4"	Throw		2	3	5	6	7	9	11	13
		Noise Criteria		_	_	14	19	22	25	35	40
		Total Pressure	.01	.01	.02	.04	.07	.12	.17	.29	.37
	1/2"	Throw	2	3	4	6	7	9	10	13	14
		Noise Criteria	—	_	_	15	20	23	26	37	42

Neck Size	Face Opening	Neck Velocity, FPM Velocity Pressure Airflow, CFM	50 .001 50	100 .001 100	150 .002 150	200 .003 200	250 .004 250	300 .006 300	400 .010 400	500 .016 500	600 .023 550
		Total Pressure			.01	.01	.02	.03	.04	.07	.09
	1 1/4"	Throw			3	4	6	7	9	12	13
		Noise Criteria			—	13	17	21	26	33	38
12		Total Pressure		.01	.01	.02	.03	.04	.06	.09	.12
	1"	Throw		2	4	5	7	8	10	13	14
		Noise Criteria		—	—	13	17	21	26	34	38
X		Total Pressure		.01	.01	.03	.04	.06	.09	.15	.18
12	3/4"	Throw		3	5	6	7	9	11	14	15
		Noise Criteria		_	_	14	18	22	27	35	40
		Total Pressure	.01	.01	.03	.05	.07	.10	.18	.28	.34
	1/2"	Throw	2	4	6	7	8	10	12	15	17
		Noise Criteria	_	_	_	15	20	23	30	39	45

For performance notes, see D137.

PERFORMANCE DATA:

MODEL 6600 • SQUARE NECK

Neck Size	Face Opening	Neck Velocity, FPM Velocity Pressure Airflow, CFM	32 .001 50	64 .001 100	96 .001 150	128 .001 200	192 .002 300	256 .004 400	320 .006 500	384 .009 600	448 .013 700
		Total Pressure				.01	.01	.03	.05	.06	.09
	1 1/4"	Throw				3	5	6	9	10	12
		Noise Criteria				_	18	22	27	33	39
	1"	Total Pressure			.01	.01	.02	.04	.06	.09	.12
46		Throw			2	4	6	8	11	13	14
15		Noise Criteria			_	13	19	23	28	35	42
X	3/4"	Total Pressure		.01	.01	.02	.03	.07	.10	.14	.19
15		Throw		2	4	5	8	10	13	15	17
		Noise Criteria		_	_	_	15	21	26	32	40
	1/2"	Total Pressure	.01	.01	.02	.03	.07	.13	.20	.28	.38
		Throw	2	3	5	6	9	12	15	18	21
		Noise Criteria	_	_	_	15	21	26	32	40	49

Neck Size	Face Opening	Neck Velocity, FPM Velocity Pressure Airflow, CFM	22 .001 50	44 .001 100	89 .001 200	133 .001 300	178 .002 400	222 .003 500	267 .005 600	311 .006 700	356 .008 800
		Total Pressure			.01	.01	.02	.03	.05	.07	.08
	1 1/4"	Throw			2	4	6	6	9	11	13
		Noise Criteria			_	14	20	23	28	33	40
	1"	Total Pressure			.01	.02	.03	.05	.07	.10	.13
40		Throw			3	5	8	8	10	14	15
18		Noise Criteria			_	14	20	24	29	35	43
X	3/4"	Total Pressure	.01	.01	.01	.03	.05	.07	.12	.15	.20
18		Throw	2	3	5	7	9	10	14	16	18
		Noise Criteria	_	_	_	15	21	25	31	37	46
	1/2"	Total Pressure	.01	.01	.02	.05	.10	.14	.22	.29	.38
		Throw	2	4	6	9	12	14	17	19	21
		Noise Criteria	-	_	10	16	22	27	33	40	50

Performance Notes:

- 1. All pressures are in inches w.g..
- 2. Throw values are given for a terminal velocity of 50 fpm under isothermal conditions.
- 3. The addition of direction blow blank-offs reduces the effective area and for a given air volume, increases the discharge velocity with a resultant increase in throw, pressure drop and sound level. To determine throw, select the diffuser as if it were supplying a larger volume of air. The table shows the percentage increase required to determine diffuser airflow selection to determine throw.

Corrections to pressure drop and Noise Criteria level may be approximated by using correction factors as shown and applying them to the 4-way blow value listed in the performance tables.

- 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 10.
- 5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 2006.

Blow Pattern	% Increase in Air Volume for Throw Determination	TP Increase Correction Factor	NC Sound Level Add		
3-way	35	x 1.5	+ 10		
2-way	100	x 4.0	+ 15		
1-way	400	x 8.0	+30		