

## 9/16" SQUARE HOLES on 11/16" CENTERS

AREA FACTOR Ak			.15			.25			.40			.60			.80			1.00		
TYPICAL SIZES			10x4	6x6		10x6	12x5		12x8	16x6		16x8	12x12		30x6	14x12		28x8	18x12	
SPREAD ANGLE			0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
50 CFM	THROW	MIN.	5	4	3															
	FEET	MAX.	8	6	4															
	STATIC PRESSURE			-	-	-														
75 CFM	THROW	MIN.	8	5	4	6	4	3												
	FEET	MAX.	12	8	6	9	7	5												
	STATIC PRESSURE			-	.01	.02	-	-	-											
100 CFM	THROW	MIN.	10	7	6	8	6	4												
	FEET	MAX.	16	11	8	12	9	7												
	STATIC PRESSURE			.01	.02	.03	-	-	.01											
150 CFM	THROW	MIN.	15	11	8	12	8	6	9	7	5									
	FEET	MAX.	24	17	13	18	13	10	15	10	8									
	STATIC PRESSURE			.03	.05	.08	.01	.02	.03	-	-	.01								
200 CFM	THROW	MIN.	20	15	11	16	11	8	12	9	7	10	7	5						
	FEET	MAX.	32	23	17	25	18	13	19	14	10	16	11	9						
	STATIC PRESSURE			.05	.09	.13	.02	.03	.05	-	.01	.02	-	-	-					
250 CFM	THROW	MIN.	25	18	14	20	14	11	16	11	8	13	9	7	11	8	6			
	FEET	MAX.	39	28	21	31	22	17	24	17	13	20	14	11	17	13	9			
	STATIC PRESSURE			.06	.13	.20	.03	.05	.08	.01	.02	.03	-	-	.01	-	-	-		
300 CFM	THROW	MIN.				24	17	13	19	13	10	15	11	8	13	9	7	12	8	6
	FEET	MAX.				37	26	20	29	21	16	24	17	13	21	15	11	18	13	10
	STATIC PRESSURE						.04	.07	.10	.02	.03	.04	-	.01	.02	-	-	.01	-	-
350 CFM	THROW	MIN.				27	20	13	22	16	12	18	13	10	15	11	8	14	10	7
	FEET	MAX.				43	31	23	34	24	18	28	20	15	24	17	13	22	15	12
	STATIC PRESSURE						.05	.10	.14	.02	.04	.06	.01	.02	.03	-	.01	.02	-	-
400 CFM	THROW	MIN.							25	18	13	20	15	11	18	13	9	16	11	8
	FEET	MAX.							39	28	21	32	23	17	27	20	15	25	18	13
	STATIC PRESSURE								.03	.05	.08	.01	.02	.04	-	.01	.02	-	-	.01
450 CFM	THROW	MIN.							28	20	15	23	16	12	20	14	11	18	13	10
	FEET	MAX.							44	31	24	36	26	19	31	22	17	28	20	15
	STATIC PRESSURE								.03	.06	.09	.02	.03	.04	-	.02	.03	-	.01	.02
500 CFM	THROW	MIN.							31	22	17	25	18	14	22	16	12	20	14	11
	FEET	MAX.							48	35	26	40	29	21	34	25	18	31	22	17
	STATIC PRESSURE								.04	.08	.11	.02	.04	.05	.01	.02	.03	-	.01	.02
600 CFM	THROW	MIN.							37	27	20	30	22	16	26	19	14	24	17	13
	FEET	MAX.							58	42	31	48	34	26	41	30	22	37	26	20
	STATIC PRESSURE								.06	.11	.16	.03	.05	.08	.02	.03	.04	.01	.02	.03
700 CFM	THROW	MIN.										36	26	19	31	22	17	27	20	15
	FEET	MAX.										55	40	30	48	34	26	43	31	23
	STATIC PRESSURE											.04	.07	.10	.02	.04	.06	.02	.03	.04
800 CFM	THROW	MIN.										41	29	22	35	25	19	31	23	17
	FEET	MAX.										63	45	34	55	39	30	49	35	26
	STATIC PRESSURE											.05	.09	.13	.03	.05	.08	.02	.03	.05
900 CFM	THROW	MIN.										46	33	25	39	28	21	35	25	19
	FEET	MAX.										72	51	39	62	44	33	55	40	30
	STATIC PRESSURE											.06	.11	.16	.03	.06	.10	.02	.04	.06
1000 CFM	THROW	MIN.													44	32	24	39	28	21
	FEET	MAX.													68	49	37	61	44	33
	STATIC PRESSURE														.04	.08	.11	.03	.05	.08
1200 CFM	THROW	MIN.													53	38	28	47	34	25
	FEET	MAX.													82	59	44	74	53	40
	STATIC PRESSURE														.06	.11	.16	.04	.07	.10
1400 CFM	THROW	MIN.																55	40	30
	FEET	MAX.																86	62	46
	STATIC PRESSURE																	.05	.10	.14

NC	below 20	
NC	20 to 30	
NC	30 to 40	
NC	above 40	

### Test Standard

- ANSI / ASHRAE standard 70

### Sound Levels

- NC is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10<sup>-12</sup> watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands

### Throw

- Distance in feet, at which the air has reduced to a terminal velocity, VT, of 125, 80 FPM, (min-max) respectively (isothermal)
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.

### Pressure

- P<sub>s</sub> represents Static Pressure, inches of water
- AK: Area factor with VK measured using Alnor velometer

Minimum Security

E

**IMPORTANT** It is the specifier's responsibility to properly configure the HVAC system to meet the appropriate level of comfort, safety, security and detention