

## 3/16" DIAMETER HOLES ON 9/32" STAGGERED CENTERS

Neck Size		Nom Duct	Core Vel, fpm	250	300	350	400	450	500	550	600	650	700	
Nom W	Nom H	Area, ft <sup>2</sup>	Pt	0.03	0.04	0.06	0.08	0.10	0.12	0.14	0.17	0.20	0.23	
6	6	0.25	CFM	50	60	70	80	90	100	110	120	130	140	
			NC	<20	<20	<20	<20	<20	<20	<20	<20	22	25	27
			Throw	4   9   15	6   12   17	8   13   18	10   14   19	12   15   21	13   16   22	13   16   23	14   17   24	14   18   25	15   18   26	
8	8	0.44	CFM	90	110	130	150	170	190	210	230	250	260	
			NC	<20	<20	<20	<20	<20	<20	<20	22	25	27	30
			Throw	5   12   21	8   16   23	11   18   25	14   19   27	16   20   28	17   21   30	18   22   32	19   23   33	20   24   34	20   25   35	
10	8	0.56	CFM	120	140	170	190	220	240	260	290	310	340	
			NC	<20	<20	<20	<20	<20	20	23	26	28	31	
			Throw	6   14   24	9   18   26	13   20   28	16   21   30	19   23   32	19   24   34	20   25   35	21   26   37	22   27   38	23   28   40	
10	10	0.69	CFM	150	180	210	240	270	310	340	370	400	430	
			NC	<20	<20	<20	<20	<20	21	24	27	29	32	
			Throw	7   16   27	10   21   29	14   22   32	18   24   34	21   25   36	22   27   38	23   28   40	24   30   42	25   31   44	26   32   45	
12	12	1.00	CFM	220	270	310	360	400	450	490	540	580	630	
			NC	<20	<20	<20	<20	<20	23	26	29	31	33	
			Throw	8   19   32	13   25   36	17   27   38	22   29   41	25   31   44	27   33   46	28   34   48	29   36   51	30   37   52	32   39   55	
14	14	1.36	CFM	310	370	430	500	560	620	680	750	810	870	
			NC	<20	<20	<20	<20	21	24	27	30	32	35	
			Throw	10   23   38	15   30   42	20   32   45	27   34   49	30   36   52	31   38   54	33   40   57	34   42   60	36   44   62	37   45   64	
18	12	1.50	CFM	340	410	480	550	620	690	750	820	890	960	
			NC	<20	<20	<20	<20	21	25	28	30	33	35	
			Throw	11   24   40	15   31   44	21   34   48	28   36   51	31   38   54	33   40   57	34   42   60	36   44   62	38   46   65	39   48   67	
16	16	1.78	CFM	410	490	570	660	740	820	900	980	1070	1150	
			NC	<20	<20	<20	<20	22	25	28	31	34	36	
			Throw	12   26   44	17   34   48	23   37   52	30   40   56	34   42   59	36   44   62	38   46   65	39   48   68	41   50   71	43   52   74	
24	14	2.33	CFM	540	650	760	870	980	1090	1190	1300	1410	1520	
			NC	<20	<20	<20	20	23	27	30	32	35	37	
			Throw	13   30   51	19   39   56	27   42   60	35   45   64	39   48   68	42   51   72	43   53   75	45   56   79	47   58   82	49   60   85	
20	20	2.78	CFM	650	780	910	1040	1170	1300	1430	1560	1690	1820	
			NC	<20	<20	<20	20	24	27	30	33	36	38	
			Throw	15   33   56	21   43   61	29   46   66	38   50   70	43   53   74	45   56   79	48   58   82	50   61   86	52   63   90	54   66   93	
22	22	3.36	CFM	790	950	1110	1270	1430	1590	1750	1900	2060	2220	
			NC	<20	<20	<20	21	25	28	31	34	37	39	
			Throw	16   37   61	24   47   67	32   51   73	42   55   78	48   58   82	50   61   87	53   64   91	55   67   95	57   70   99	59   73   103	
24	24	4.00	CFM	950	1140	1330	1520	1710	1900	2090	2280	2470	2660	
			NC	<20	<20	<20	22	26	29	32	35	37	40	
			Throw	18   40   67	26   52   74	35   56   79	46   60   85	52   64   90	55   67   95	57   70   100	60   74   104	62   77   108	65   79   112	

### Test Standard

- ANSI / ASHRAE standard 70
- Isothermal conditions

### 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
- For Return use, Deduct 5 NC

### Throw

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150,100,& 50 fpm and include a surface effect.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.
- For a free jet (no surface effect), throws are 70% of the table values above.

### Pressure

- P<sub>t</sub> represents total pressure, inches of water, for supply.
- For return use, negative static pressure is equal to supply total pressure: -P<sub>s</sub> (return) = P<sub>t</sub> (supply)
- P<sub>s</sub> static pressure can be calculated by subtracting the Velocity pressure from the Total Pressure (P<sub>t</sub>), inches of water
- All pressures are stated and calculated in inches of water.

Conventional Risk Resistant

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