

### VELOCITOR™ Air Velocity Meter



AM50



#### RANGE/ACCURACY OF WIND VELOCITY

UNITS	RANGE	ACCURACY
Ft/Min	0-8800	±3% or 0.1
M/S	0-45	±3% or 0.1
km/Hr	0-140	±3% or 0.1
knots	0-88	±3% or 0.1

Precision vane type anemometer provides fast, accurate air velocity measurements for use in balancing HVAC systems or determining CFM calculations. A convenient TYPE K thermocouple is built-in to the remote vane providing quick measurement of grille/duct outflow temperatures from 32 to 122 F / 0 to 50 C. Included, is an easy-to-read laminated conversion chart that allows the user to quickly convert air velocity measurements into CFM calculations at a glance. Shipped with a rugged carrying case and is CE approved.

CFM CHART (Grill Size)																																T8-3020A											
Grill Size	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	850	875	900	925	950	975	1000						
100x100	250	312	375	437	500	562	625	687	750	812	875	937	1000	1062	1125	1187	1250	1312	1375	1437	1500	1562	1625	1687	1750	1812	1875	1937	2000	2062	2125	2187	2250	2312	2375	2437	2500						
125x125	312	390	468	546	625	703	781	859	937	1015	1093	1171	1250	1328	1406	1484	1562	1640	1718	1796	1875	1953	2031	2109	2187	2265	2343	2421	2500	2578	2656	2734	2812	2890	2968	3046							
150x150	375	468	562	656	750	843	937	1031	1125	1218	1312	1406	1500	1593	1687	1781	1875	1968	2062	2156	2250	2343	2437	2531	2625	2718	2812	2906	2999	3093	3187	3281	3375	3468	3562	3656							
175x175	437	546	656	765	875	984	1093	1201	1312	1421	1531	1640	1750	1859	1968	2078	2187	2296	2406	2515	2625	2734	2843	2953	3062	3171	3281	3390	3500	3609	3718	3828	3937	4046	4156	4265							
200x200	500	625	750	875	1000	1125	1250	1375	1500	1625	1750	1875	2000	2125	2250	2375	2500	2625	2750	2875	3000	3125	3250	3375	3500	3625	3750	3875	4000	4125	4250	4375	4500	4625	4750	4875							
225x225	562	703	843	984	1125	1265	1406	1546	1687	1828	1968	2109	2250	2390	2531	2671	2812	2953	3093	3234	3375	3515	3656	3796	3937	4078	4218	4359	4500	4640	4781	4921	5062	5203	5343	5484							
250x250	625	781	937	1093	1250	1406	1562	1718	1875	2031	2187	2343	2500	2656	2812	2968	3125	3281	3437	3593	3750	3906	4062	4218	4375	4531	4687	4843	5000	5156	5312	5468	5625	5781	5937	6093							
275x275	687	859	1031	1201	1375	1546	1718	1890	2062	2234	2406	2578	2750	2921	3093	3265	3437	3609	3781	3953	4125	4296	4468	4640	4812	4984	5156	5328	5500	5671	5843	6015	6187	6359	6531	6703							
300x300	750	937	1125	1312	1500	1687	1875	2062	2250	2437	2625	2812	3000	3187	3375	3562	3750	3937	4125	4312	4500	4687	4875	5062	5250	5437	5625	5812	6000	6187	6375	6562	6750	6937	7125	7312							
325x325	812	1015	1218	1421	1625	1828	2031	2234	2437	2640	2843	3046	3250	3453	3656	3859	4062	4265	4468	4671	4875	5078	5281	5484	5687	5890	6093	6296	6499	6703	6906	7109	7312	7515	7718	7921							
350x350	875	1093	1312	1531	1750	1968	2187	2406	2625	2843	3062	3281	3500	3718	3937	4156	4375	4593	4812	5031	5250	5468	5687	5906	6125	6343	6562	6781	6999	7218	7437	7656	7875	8093	8312	8531							
375x375	937	1171	1406	1640	1875	2109	2343	2578	2812	3046	3281	3515	3750	3984	4218	4453	4687	4921	5156	5390	5625	5859	6093	6328	6562	6796	7031	7265	7500	7734	7968	8203	8437	8671	8906	9140							
400x400	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	8750	9000	9250	9500	9750							
425x425	1062	1328	1593	1859	2125	2390	2656	2921	3187	3453	3718	3984	4250	4515	4781	5046	5312	5578	5843	6109	6375	6640	6906	7171	7437	7703	7968	8234	8500	8765	9031	9296	9562	9827	10093	10358							
450x450	1125	1406	1687	1968	2250	2531	2812	3093	3375	3656	3937	4218	4500	4781	5062	5343	5625	5906	6187	6468	6750	7031	7312	7593	7875	8156	8437	8718	8999	9280	9561	9842	10123	10403	10684	10964							
475x475	1187	1484	1781	2078	2375	2671	2968	3265	3562	3859	4156	4453	4750	5046	5343	5640	5937	6234	6531	6828	7125	7421	7718	8015	8312	8609	8906	9203	9500	9796	10093	10390	10687	10984	11281	11578							
500x500	1250	1562	1875	2187	2500	2812	3125	3437	3750	4062	4375	4687	5000	5312	5625	5937	6250	6562	6875	7187	7500	7812	8125	8437	8750	9062	9375	9687	10000	10312	10625	10937	11250	11562	11875	12187							
525x525	1312	1640	1968	2296	2625	2953	3281	3609	3937	4265	4593	4921	5250	5578	5906	6234	6562	6890	7218	7546	7875	8203	8531	8859	9187	9515	9843	10171	10500	10828	11156	11484	11812	12140	12468	12796							
550x550	1375	1718	2062	2406	2750	3093	3437	3781	4125	4468	4812	5156	5500	5843	6187	6531	6875	7218	7562	7906	8250	8593	8937	9281	9625	9968	10312	10656	11000	11343	11687	12031	12375	12718	13062	13406							
575x575	1437	1796	2156	2515	2875	3234	3593	3953	4312	4671	5031	5390	5750	6109	6468	6828	7187	7546	7906	8265	8625	8984	9343	9703	10062	10421	10781	11140	11500	11859	12218	12578	12937	13296	13656	14015							
600x600	1500	1875	2250	2625	3000	3375	3750	4125	4500	4875	5250	5625	6000	6375	6750	7125	7500	7875	8250	8625	9000	9375	9750	10125	10500	10875	11250	11625	12000	12375	12750	13125	13500	13875	14250	14625	15000						
625x625	1562	1953	2343	2734	3125	3515	3906	4296	4687	5078	5468	5859	6250	6640	7031	7421	7812	8203	8593	8984	9375	9765	10156	10546	10937	11328	11718	12109	12500	12890	13281	13671	14062	14453	14843	15234							
650x650	1625	2031	2437	2843	3250	3656	4062	4468	4875	5281	5687	6093	6499	6906	7312	7718	8125	8531	8937	9343	9750	10156	10562	10968	11375	11781	12187	12593	13000	13406	13812	14218	14625	15031	15437	15843							
675x675	1687	2109	2531	2953	3375	3796	4218	4640	5062	5484	5906	6328	6750	7171	7593	8015	8437	8859	9281	9703	10125	10546	10968	11389	11812	12234	12656	13078	13500	13921	14343	14765	15187	15609	16031	16453							
700x700	1750	2187	2625	3062	3500	3937	4375	4812	5250	5687	6125	6562	7000	7437	7875	8312	8750	9187	9625	10062	10500	10937	11375	11812	12250	12687	13125	13562	14000	14437	14875	15312	15750	16187	16625	17062							
725x725	1812	2265	2718	3171	3625	4078	4531	4984	5437	5890	6343	6796	7250	7703	8156	8609	9062	9515	9968	10421	10875	11328	11781	12234	12687	13140	13593	14046	14500	14953	15406	15859	16312	16765	17218	17671							
750x750	1875	2343	2812	3281	3750	4218	4687	5156	5625	6093	6562	7031	7500	7968	8437	8906	9375	9843	10312	10781	11250	11718	12187	12656	13125	13593	14062	14531	15000	15468	15937	16406	16875	17343	17812	18281							
775x775	1937	2421	2906	3390	3875	4359	4843	5328	5812	6296	6781	7265	7750	8234	8718	9203	9687	10171	10656	11140	11625	12109	12593	13078	13562	14046	14531	15015	15500	15984	16468	16953	17437	17921	18406	18890							
800x800	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	10500	11000	11500	12000	12500	13000	13500	14000	14500	15000	15500	16000	16500	17000	17500	18000	18500	19000	19500	20000						

Air Velocity

(feet per minute)

CFM equation:

sq. ft. of Grill Size X Maximum Air Velocity(feet per minute) X 2.5 = CFM

### Sound Level Meter



SM150



Professional grade sound level indicator designed to measure noise levels from 35 to 130dB. The unit incorporates a large LCD, maximum hold function, Over and Under range indicator, peak and average response settings and A-C weighing for checking compliance with standard safety regulations. Applications include the monitoring of HVAC/R compressors, blowers, health and safety requirements, environmental quality issues, offices, factory machinery, airports, auditoriums and studio acoustics. Unit is CE approved and includes carrying case.

#### Chart of sound levels L and corresponding sound pressure and sound intensity

EXAMPLES	SOUND PRESSURE LEVEL dB SPL	SOUND PRESSURE N/m <sup>2</sup> = Pa	SOUND INTENSITY / watts/m <sup>2</sup>
Jet aircraft, 50 m away	140	200	100
Threshold of pain	130	63.2	10
Threshold of discomfort	120	20	1
Chainsaw, 1m distance	110	6.3	0.1
Disco, 1 m from speaker	100	2	0.01
Diesel truck, 10m away	90	0.63	0.001
Curbside of busy road, 5m	80	0.2	0.0001
Vacuum cleaner, distance 1m	70	0.063	0.00001
Conversational speech, 1m	60	0.02	0.000001
Average home	50	0.0063	0.0000001
Quiet library	40	0.002	0.00000001
Quiet bedroom at night	30	0.00063	0.000000001
Background in TV studio	20	0.0002	0.0000000001
Rustling leaf	10	0.000063	0.00000000001
Threshold of hearing	0	0.00002	0.000000000001