OCT 1 5 1998

BULLETIN 401
September 1998

SOUND POWER LEVELS

TUBEAXIAL FANS
ADJUSTABLE PITCH AIRFOIL DESIGN

Aerovent certifes that the models ATA and ATABD shown herein are licensed to bear the AMCA Seal for Air and Sound. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

For Air Performance refer to Bulletin 400.

ATA and ATABD Sound Calculations

The sound power levels published in this have been determined by laboratory tests in accordance with AMCA Standard 300-96 and carry the AMCA Seal for models ATA and ATABD. The sound power levels shown are decibel (dB) levels referred to 10^{-12} watts. We have listed sound power levels for the eight octave bands with frequency range as shown below.

OCTAVE BAND	1	2	3	4	5	6	7	8
FREQUENCY CENTER	45 to 90	90 to 180	180 to 355	355 to 710	710 to 1400	1400 to 2800	2800 to 5600	5600 to 11200
CENTER FREQUENCY	63	125	250	500	1000	2000	4000	8000

Sound power levels (SPL) for the fans can be easily obtained using Aerovent Fan Selector® Program. The SPL can also be obtained using specific sound power level method described below:

Sound Power Level of a fan =
Specific Sound Power Level (L_{WK}) + Capacity Fraction (M)

Use of this method will be illustrated by the following example:

Calculate sound power levels for:

Size ..... 035A3 @ 17°
CFM 2034
SP ..... 1.06" w.g.
RPM 3500
TP 1.30

1. HOW TO DETERMINE L_{WK}

We have published values for L_{WK} at various speeds and operating points on pages 3 through 11 for the inlet of the fan.

The operating point is a ratio of design CFM to the wide open volume (WOV). The WOV equals CFM for a given RPM at zero static pressure. WOV can be calculated by multiplying fan RPM by the factors (Rf) shown in the table.

No. Blade	Angle (Deg.)	ATA Rf Values by Size									
		035	040	050	063	071	080	090	100	112	125
A3	7	0.553	0.806	1.929	3.858	5.522	8.220	11.673	16.064	22.504	31.385
	12	0.684	1.043	2.345	4.689	6.711	9.867	14.012	19.283	27.013	37.674
	17	0.830	1.253	2.741	5.481	7.844	11.707	16.624	22.878	32.049	44.698
	22	0.958	1.447	3.162	6.323	9.049	13.353	18.962	26.095	36.555	50.983
	27	1.101	1.620	3.553	7.105	10.169	14.962	21.246	29.240	40.960	57.126
	32	1.212	1.790	3.872	7.744	11.082	16.436	23.340	32.120	44.995	62.754
	37	1.312	1.914	4.135	8.269	11.835	17.523	24.883	34.244	47.971	66.904
A6	7	0.529	0.802	1.895	3.789	5.423	7.931	11.262	15.499	21.711	30.280
	12	0.714	1.055	2.359	4.717	6.751	10.068	14.297	19.675	27.562	38.440
	17	0.865	1.299	2.883	5.766	8.252	12.030	17.083	23.510	32.933	45.931
	22	1.020	1.551	3.419	6.837	9.785	14.160	20.108	27.672	38.764	54.064
	27	1.183	1.781	3.898	7.795	11.156	16.179	22.975	31.618	44.292	61.773
	32	1.329	1.999	4.384	8.767	12.547	18.172	25.805	35.513	49.748	69.382
	37	1.481	2.194	4.774	9.546	13.663	20.124	28.577	39.327	55.091	76.835

Size	ATABD Rf Values
040A327	1.546
050A327	3.439
063A327	6.877
071A327	9.842
080A327	14.586
090A327	20.713
100A327	28.505
112A327	39.931
125A327	55.690

Thus, WOV volume for 3500 RPM = 0.83 x 3500 = 2905 CFM.

Therefore, operating point falls at 90% WOV (2035 ÷ 2905 x 100%). Referring to the table on page 3 for Size 035A3, the *specific* sound power levels can be read as follows:

L_{WK} inlet = 60 55 52 51 49 47 45 41

2. HOW TO DETERMINE M

The value of M can be taken from the table on page 12 or M can be calculated using the formula:

$$M = 10 \log_{10} (CFM) + 20 \log_{10} (TP)$$

Thus, for 2034 CFM and 1.30 TP, M is 35.

3. COMBINING L_{WK} & M GIVES SOUND POWER LEVELS:

Octave Band	1	2	3	4	5	6	7	8
L_{WKi} =	60	55	52	51	49	47	45	41
M =	35	35	35	35	35	35	35	35
SPL at inlet =	95	90	87	86	84	82	80	76

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L_{WKi} Inlet Values

ATA 035A3 @ 7°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	64	58	59	61	61	59	56	50
3500	80	60	56	56	58	59	56	53	47
3500	70	60	58	58	58	59	55	51	45
3500	60	60	60	59	59	59	55	50	45
3500	50	60	60	59	59	59	55	50	44
1750	90	60	62	63	61	58	57	52	47
1750	80	58	59	61	58	55	53	49	44
1750	70	58	59	61	60	54	51	47	42
1750	60	58	59	61	61	53	50	47	42
1750	50	58	59	61	61	54	50	47	42

ATA 035A3 @ 12°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	64	56	56	56	58	56	53	47
3500	80	63	54	53	54	54	53	50	44
3500	70	63	55	53	54	54	52	49	44
3500	60	63	56	53	53	53	51	48	43
1750	90	58	59	61	57	55	54	49	44
1750	80	57	59	61	55	52	51	47	42
1750	70	57	58	60	55	52	50	46	41
1750	60	57	57	59	54	50	48	45	39

ATA 035A3 @ 17°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	59	55	54	54	54	53	49	44
3500	80	60	54	52	51	51	49	46	42
3500	70	60	55	52	51	49	47	45	41
3500	60	59	56	52	50	48	45	43	40
1750	90	53	55	57	54	51	50	47	42
1750	80	51	52	54	51	49	48	45	41
1750	70	51	52	54	50	47	46	44	40
1750	60	51	52	54	48	45	45	43	39

ATA 035A3 @ 22°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	55	54	53	52	50	47	44	40
3500	80	54	53	51	50	47	44	41	37
3500	70	54	53	51	49	46	43	40	37
3500	60	53	53	50	49	46	42	39	35
1750	90	52	54	57	50	47	46	43	39
1750	80	50	52	55	48	44	43	41	37
1750	70	50	52	54	47	43	42	40	36
1750	60	50	51	53	46	42	42	40	36

ATA 035A3 @ 27°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	54	46	48	45	43	40	37	31
3500	80	54	46	45	43	42	38	34	29
3500	70	54	46	45	43	42	38	34	29
3500	60	53	46	45	42	42	38	34	30
1750	90	50	52	54	48	44	42	39	34
1750	80	47	49	51	46	42	40	38	33
1750	70	47	49	51	46	42	40	38	33
1750	60	47	49	50	46	42	40	37	33

ATA 035A3 @ 32°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	47	51	51	51	48	45	41	36
3500	80	47	50	50	49	47	44	40	35
3500	70	47	50	50	49	47	44	40	35
3500	60	46	50	50	50	47	44	40	36
1750	90	50	52	55	49	45	43	40	35
1750	80	49	50	53	47	44	42	40	35
1750	70	48	50	52	47	44	42	40	35
1750	60	47	49	52	46	43	42	40	35

ATA 035A3 @ 37°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	54	51	51	50	48	46	41	36
3500	80	54	50	49	50	47	45	40	36
3500	70	54	49	49	50	47	45	40	36
3500	60	53	49	49	50	47	44	40	36
1750	90	46	47	49	44	41	39	36	31
1750	80	45	46	48	43	40	38	36	31
1750	70	45	46	47	43	40	38	36	31
1750	60	44	45	46	42	39	38	36	32

The calculated sound power levels from these ratings are in decibels, referenced to 10^{-12} watts. Calculated per AMCA Standard 301. Values shown are for inlet L_{WKi} specific sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

L_{WKi} Inlet Values

ATA 035A6 @ 7°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	56	56	60	65	67	62	60	56
3500	80	53	53	57	62	64	59	56	52
3500	70	52	54	60	61	61	56	53	50
3500	60	51	54	62	60	58	54	51	47
3500	50	51	54	63	60	58	53	50	47
1750	90	52	61	64	64	61	57	52	45
1750	80	49	57	61	61	58	53	48	41
1750	70	50	61	60	58	55	51	45	39
1750	60	50	63	60	56	53	49	44	37
1750	50	50	64	60	55	52	48	43	37

ATA 035A6 @ 12°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	42	49	56	57	57	55	52	46
3500	80	41	48	55	56	56	53	50	44
3500	70	41	47	53	54	54	51	47	42
3500	60	41	47	53	54	54	51	47	42
1750	90	49	60	58	56	54	52	47	41
1750	80	47	58	57	54	53	50	46	40
1750	70	45	55	54	53	51	48	44	38
1750	60	45	55	54	53	51	48	44	38

ATA 035A6 @ 17°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	53	53	56	55	55	53	49	44
3500	80	51	51	53	53	53	50	47	42
3500	70	50	50	52	51	50	48	44	40
3500	60	50	50	52	51	50	48	44	40
1750	90	50	58	56	53	52	50	46	40
1750	80	48	56	54	51	50	47	43	38
1750	70	46	52	55	51	48	45	41	36
1750	60	46	52	55	51	48	45	41	36

ATA 035A6 @ 22°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	36	46	54	52	51	48	45	41
3500	80	36	45	52	50	48	46	43	39
3500	70	39	46	50	47	45	43	40	36
3500	60	39	46	50	47	45	43	40	36
1750	90	46	58	55	50	48	46	42	37
1750	80	46	57	53	48	46	44	41	36
1750	70	44	54	50	45	42	41	38	34
1750	60	44	54	50	45	42	41	38	34

ATA 035A6 @ 27°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	37	46	52	50	47	44	41	36
3500	80	37	45	51	49	46	43	40	35
3500	70	37	44	51	48	46	43	39	35
3500	60	37	44	50	48	46	42	39	34
1750	90	44	58	54	48	46	44	40	35
1750	80	43	55	52	45	43	41	38	33
1750	70	41	53	50	44	41	39	36	31
1750	60	41	53	50	44	41	39	36	31

ATA 035A6 @ 32°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	37	46	52	50	47	44	41	36
3500	80	37	45	51	49	46	43	40	35
3500	70	37	44	51	48	46	43	39	35
3500	60	37	44	50	48	46	42	39	34
1750	90	42	57	53	47	45	43	39	34
1750	80	41	55	52	46	44	41	38	33
1750	70	41	52	50	46	43	41	38	33
1750	60	41	51	49	45	43	41	38	33

ATA 035A6 @ 37°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3500	90	35	45	53	50	47	43	39	34
3500	80	36	44	52	49	46	42	38	33
3500	70	38	46	50	47	45	42	38	33
3500	60	40	48	48	46	45	43	37	33
1750	90	40	56	53	47	44	41	37	32
1750	80	40	55	52	46	43	40	36	31
1750	70	40	52	50	46	42	39	36	32
1750	60	39	49	48	46	42	39	36	32

The calculated sound power levels from these ratings are in decibels, referenced to 10^{-12} watts. Calculated per AMCA Standard 301. Values shown are for inlet L_{WKi} specific sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

L_{WKi} Inlet Values

ATA 040A3 @ 7°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	50	54	60	64	65	60	55	49
3500	80	44	52	58	62	63	58	52	45
3500	70	42	52	57	61	63	57	51	44
3500	60	40	52	57	61	62	56	50	43
3500	50	41	53	57	61	62	56	50	43
1750	90	58	61	65	66	59	57	54	47
1750	80	56	58	63	64	57	54	51	44
1750	70	55	58	62	63	56	53	50	43
1750	60	55	58	61	62	55	52	49	42
1750	50	55	58	61	62	55	52	49	43
1160	90	60	63	67	63	58	57	52	44
1160	80	57	61	65	60	56	54	50	41
1160	70	56	60	63	59	54	53	49	40
1160	60	56	60	62	58	54	53	48	39
1160	50	56	61	62	58	54	53	48	39

ATA 040A3 @ 12°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	51	53	57	60	58	54	49	43
3500	80	48	49	54	56	54	50	46	40
3500	70	48	49	53	55	53	49	45	40
3500	60	47	51	54	55	53	49	44	39
1750	90	55	58	61	62	54	52	49	43
1750	80	52	54	57	57	51	49	47	41
1750	70	52	54	56	56	50	49	46	40
1750	60	52	54	56	56	50	48	45	40
1160	90	56	60	63	58	54	53	48	40
1160	80	53	56	57	54	50	50	46	38
1160	70	53	56	57	53	50	50	45	37
1160	60	52	56	57	53	49	49	45	37

ATA 040A3 @ 17°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	46	51	56	58	56	50	46	40
3500	80	45	49	53	55	52	47	42	37
3500	70	45	49	52	54	51	46	42	37
3500	60	45	50	53	54	51	46	41	37
1750	90	53	56	60	60	51	49	46	40
1750	80	52	54	56	56	48	46	44	38
1750	70	52	53	55	55	47	46	44	38
1750	60	51	52	54	54	47	46	43	38
1160	90	54	58	62	56	51	50	45	37
1160	80	53	55	58	52	48	48	43	36
1160	70	53	54	57	52	48	48	43	35
1160	60	51	53	56	51	47	47	43	35

ATA 040A3 @ 22°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	43	50	55	58	55	49	44	39
3500	80	42	48	52	55	52	46	42	37
3500	70	43	48	52	55	52	46	41	37
3500	60	44	49	52	54	50	45	41	36
1750	90	53	55	59	60	50	48	45	39
1750	80	50	52	56	56	47	46	43	38
1750	70	50	52	55	56	47	45	43	37
1750	60	51	52	55	56	46	45	43	37
1160	90	53	57	61	55	49	48	44	36
1160	80	50	54	58	52	47	47	43	34
1160	70	50	54	57	52	47	47	42	34
1160	60	52	53	58	52	46	46	42	34

ATA 040A3 @ 27°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	41	49	54	56	54	48	42	37
3500	80	41	48	53	55	52	46	41	36
3500	70	42	48	52	54	52	45	40	36
3500	60	46	48	51	53	50	44	40	36
1750	90	52	54	59	60	49	46	43	37
1750	80	50	52	57	57	47	44	42	36
1750	70	50	52	56	57	46	44	42	36
1750	60	50	51	54	55	45	44	42	36
1160	90	53	57	62	55	48	47	41	34
1160	80	50	54	59	53	46	45	41	33
1160	70	50	54	58	52	46	45	40	33
1160	60	51	53	56	51	45	45	41	33

ATA 040A3 @ 32°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	41	48	54	56	54	48	43	38
3500	80	41	48	53	55	53	47	42	37
3500	70	42	48	52	55	52	46	42	37
3500	60	45	47	51	55	52	46	41	37
1750	90	51	54	59	60	49	46	43	37
1750	80	50	53	58	59	47	45	42	37
1750	70	50	52	57	58	47	45	42	37
1750	60	48	50	55	56	46	44	42	37
1160	90	52	57	62	55	48	47	42	34
1160	80	51	56	62	54	47	46	41	34
1160	70	51	54	60	53	46	46	41	34
1160	60	49	52	57	51	45	46	41	34

ATA 040A3 @ 37°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	40	48	54	57	54	48	44	40
3500	80	41	48	53	56	54	47	44	40
3500	70	42	47	53	56	53	47	43	40
3500	60	44	47	52	55	53	47	43	40
1750	90	50	53	59	60	49	47	44	38
1750	80	50	52	59	60	48	46	44	38
1750	70	49	52	58	60	47	46	44	38
1750	60	49	51	57	59	47	46	44	38
1160	90	51	57	63	55	48	47	42	35
1160	80	51	56	63	55	47	47	42	35
1160	70	50	55	62	54	47	47	42	35
1160	60	49	54	61	53	47	47	42	35

The calculated sound power levels from these ratings are in decibels, referenced to 10^{-12} watts. Calculated per AMCA Standard 301. Values shown are for inlet L_{WKi} specific sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

L_{WKi} Inlet Values

ATA 040A6 @ 7°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	59	55	60	65	67	61	56	49
3500	80	54	51	57	62	63	58	52	45
3500	70	52	51	58	60	61	55	50	42
3500	60	51	51	60	60	59	54	48	41
3500	50	51	51	60	60	58	54	48	41
1750	90	58	61	67	70	60	58	54	47
1750	80	55	58	64	66	57	55	51	44
1750	70	56	59	62	63	55	53	49	42
1750	60	57	60	61	61	53	51	48	41
1750	50	57	60	61	61	53	51	48	41
1160	90	57	62	66	61	56	55	49	39
1160	80	57	62	66	61	56	55	49	39
1160	70	58	62	64	59	54	54	48	38
1160	60	59	62	62	57	53	53	47	37
1160	50	59	62	62	57	52	53	47	37

ATA 040A6 @ 12°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	52	55	58	61	61	55	51	44
3500	80	51	52	55	58	59	53	48	42
3500	70	52	51	53	57	58	52	47	40
3500	60	52	50	52	56	58	52	46	39
1750	90	56	58	64	67	55	53	49	42
1750	80	53	55	61	64	53	51	47	40
1750	70	52	54	60	62	52	49	46	39
1750	60	51	53	59	61	51	49	46	39
1160	90	56	61	69	61	54	53	48	38
1160	80	54	59	65	59	52	51	46	36
1160	70	52	58	63	57	51	50	45	35
1160	60	52	58	63	56	50	50	45	34

ATA 040A6 @ 17°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	49	55	58	59	57	52	47	41
3500	80	49	53	56	57	55	50	45	39
3500	70	48	51	54	55	53	48	43	37
3500	60	48	51	54	55	53	48	43	37
1750	90	57	58	63	66	52	50	46	40
1750	80	54	56	61	64	50	48	45	39
1750	70	52	54	59	62	48	46	44	37
1750	60	52	54	59	62	48	46	44	37
1160	90	57	59	69	60	51	50	45	36
1160	80	55	58	67	58	49	49	44	35
1160	70	53	56	64	56	48	47	43	34
1160	60	53	56	64	56	48	47	43	34

ATA 040A6 @ 22°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	45	53	56	57	55	50	44	39
3500	80	45	52	55	55	53	48	43	37
3500	70	45	51	54	53	52	46	41	36
3500	60	45	51	54	53	52	46	41	36
1750	90	55	56	62	65	50	47	44	38
1750	80	55	55	60	62	48	46	43	37
1750	70	55	55	56	52	46	44	42	35
1750	60	55	55	56	52	46	44	42	35
1160	90	56	57	68	58	49	48	43	34
1160	80	56	56	65	56	47	47	42	33
1160	70	56	56	54	48	45	45	40	30
1160	60	56	56	54	48	45	45	40	30

ATA 040A6 @ 27°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	44	51	55	57	55	48	43	36
3500	80	43	50	54	55	53	47	41	35
3500	70	44	50	53	53	51	45	40	34
3500	60	44	50	53	53	51	45	40	34
1750	90	53	54	61	64	49	46	42	35
1750	80	52	53	60	63	47	45	41	35
1750	70	52	53	58	61	45	43	41	34
1750	60	52	53	58	61	45	43	41	34
1160	90	54	56	67	57	48	46	41	32
1160	80	53	55	66	56	46	45	40	31
1160	70	53	54	64	54	45	44	40	31
1160	60	53	54	64	54	45	44	40	31

ATA 040A6 @ 32°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	44	50	57	56	54	48	43	37
3500	80	43	50	55	55	53	46	41	36
3500	70	44	50	54	53	52	45	40	35
3500	60	44	50	54	53	52	45	40	35
1750	90	54	56	61	64	49	46	42	35
1750	80	52	53	60	63	47	45	41	35
1750	70	51	52	59	62	46	44	41	34
1750	60	51	52	59	62	46	44	41	34
1160	90	55	57	67	57	47	46	40	32
1160	80	52	55	67	56	46	45	40	31
1160	70	52	54	66	56	46	44	39	31
1160	60	52	54	66	56	46	44	39	31

ATA 040A6 @ 37°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
3500	90	40	48	57	56	55	47	42	37
3500	80	39	47	54	54	54	46	41	36
3500	70	41	49	52	54	52	45	41	36
3500	60	41	49	52	54	52	45	41	36
1750	90	54	56	61	64	48	45	42	36
1750	80	51	53	59	63	47	44	41	35
1750	70	50	51	58	61	46	44	41	35
1750	60	50	51	58	61	46	44	41	35
1160	90	56	57	67	57	47	45	40	32
1160	80	52	54	66	56	46	45	40	32
1160	70	50	52	64	54	45	44	40	32
1160	60	50	52	64	54	45	44	40	32

The calculated sound power levels from these ratings are in decibels, referenced to 10^{-12} watts. Calculated per AMCA Standard 301. Values shown are for inlet L_{WKi} specific sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

L_{WKi} Inlet Values

ATA 050-071 A3 @ 7°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
1750	90	54	60	63	60	57	53	48	41
1750	80	51	57	60	57	55	50	45	39
1750	70	51	55	58	57	54	49	44	38
1750	60	51	54	57	56	53	48	43	37
1750	50	52	55	57	56	53	48	43	37
1160	90	57	61	66	61	56	53	47	39
1160	80	54	58	62	58	53	50	45	36
1160	70	53	58	61	56	51	49	44	35
1160	60	52	61	61	56	50	48	42	34
1160	50	53	61	60	56	50	48	43	34
870	90	59	64	66	56	55	51	44	35
870	80	56	60	62	54	52	48	41	33
870	70	55	60	61	52	50	47	40	32
870	60	56	61	61	52	49	46	39	30
870	50	56	61	60	52	49	46	39	30

ATA 050-071 A3 @ 12°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
1750	90	53	57	61	57	55	51	46	40
1750	80	50	54	56	53	52	48	44	38
1750	70	49	53	55	53	51	48	43	37
1750	60	50	53	56	53	51	47	42	36
1160	90	55	59	65	59	53	51	45	37
1160	80	52	55	60	55	50	48	43	35
1160	70	51	55	59	54	50	48	43	35
1160	60	51	55	59	54	49	47	42	34
870	90	57	62	65	54	52	49	42	34
870	80	53	58	60	51	50	46	40	32
870	70	52	57	59	50	49	46	40	32
870	60	52	57	59	49	48	45	39	31

ATA 050-071 A3 @ 17°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
1750	90	52	56	59	55	52	49	44	38
1750	80	50	54	57	53	49	46	42	36
1750	70	49	53	56	52	49	46	42	36
1750	60	48	51	54	50	47	45	41	36
1160	90	53	57	62	57	51	49	44	37
1160	80	51	55	61	54	48	47	42	33
1160	70	50	54	60	54	48	46	41	33
1160	60	50	54	58	52	47	46	41	33
870	90	55	60	62	52	51	47	41	33
870	80	52	58	61	49	48	45	38	28
870	70	52	58	60	48	47	44	38	28
870	60	51	56	58	47	47	44	37	29

ATA 050-071 A3 @ 22°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
1750	90	51	54	57	53	49	46	41	36
1750	80	49	53	55	52	47	44	39	34
1750	70	49	53	55	51	46	43	39	34
1750	60	47	51	53	49	45	43	39	34
1160	90	52	57	62	55	48	46	41	33
1160	80	50	55	60	53	46	45	40	32
1160	70	50	54	60	52	46	44	39	32
1160	60	49	53	57	51	45	44	39	32
870	90	54	60	62	49	48	44	38	30
870	80	52	58	60	46	46	43	36	29
870	70	52	58	60	46	45	43	36	28
870	60	50	55	57	45	45	43	36	29

ATA 050-071 A3 @ 27°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
1750	90	50	53	56	52	47	43	39	33
1750	80	49	52	54	50	45	42	38	32
1750	70	49	51	54	50	45	42	37	32
1750	60	47	52	55	50	45	41	37	33
1160	90	52	56	61	53	46	44	39	31
1160	80	50	54	59	52	45	43	38	30
1160	70	49	54	59	51	44	43	38	30
1160	60	49	53	58	51	44	42	38	30
870	90	54	59	61	47	45	42	36	28
870	80	51	57	59	45	44	41	35	27
870	70	51	57	59	45	44	41	35	27
870	60	50	56	58	45	43	41	35	27

ATA 050-071 A3@ 32°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
1750	90	49	51	52	52	47	43	38	33
1750	80	49	47	45	49	45	42	37	32
1750	70	48	47	45	49	45	42	37	33
1750	60	47	50	53	49	44	41	37	33
1160	90	51	55	60	53	45	43	38	30
1160	80	49	53	59	52	44	42	37	30
1160	70	49	53	59	51	44	42	37	30
1160	60	48	52	58	50	43	42	37	30
870	90	53	58	60	46	44	41	35	27
870	80	51	57	59	45	43	40	34	27
870	70	50	56	59	45	43	40	34	27
870	60	50	55	58	44	43	40	34	27

ATA 050-071 A3 @ 37°

RPM	% WOV	OCTAVE BAND 1	2	3	4	5	6	7	8
1750	90	48	52	56	53	47	44	39	34
1750	80	49	51	54	51	46	43	39	34
1750	70	49	51	53	50	46	43	39	35
1750	60	48	50	52	49	46	43	39	35
1160	90	52	54	61	54	46	44	38	31
1160	80	50	53	60	52	45	43	38	31
1160	70	49	52	59	52	45	43	38	31
1160	60	48	52	57	51	45	43	38	32
870	90	52	58	61	47	45	42	36	28
870	80	51	57	60	46	45	41	35	28
870	70	50	56	59	46	44	41	35	29
870	60	49	55	57	45	44	41	36	29

The calculated sound power levels from these ratings are in decibels, referenced to 10^{-12} watts. Calculated per AMCA Standard 301. Values shown are for inlet L_{WKi} specific sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

L_{WKi} Inlet Values

ATA 050-071 A6 @ 7°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	54	61	65	63	58	53	47	40
1750	80	51	58	59	58	55	50	44	36
1750	70	50	57	57	57	53	48	42	35
1750	60	51	61	57	55	52	47	41	34
1750	50	51	62	57	55	52	47	41	34
1160	90	58	62	73	66	57	52	47	38
1160	80	56	59	70	62	53	49	44	35
1160	70	55	58	69	61	52	48	42	34
1160	60	57	60	68	61	51	47	42	33
1160	50	58	61	68	60	51	47	42	33
870	90	59	68	73	59	55	50	43	35
870	80	57	65	70	56	52	47	40	32
870	70	56	64	69	55	50	46	39	30
870	60	58	65	68	54	49	45	38	30
870	50	59	65	68	54	49	45	38	29

ATA 050-071 A6 @ 12°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	55	59	62	59	55	50	45	38
1750	80	50	55	59	56	52	48	42	36
1750	70	49	55	58	56	52	47	42	36
1750	60	48	54	58	55	51	46	40	33
1160	90	58	60	64	59	53	50	44	36
1160	80	54	56	62	57	50	47	42	34
1160	70	54	56	62	56	50	47	41	33
1160	60	53	56	61	55	49	45	40	31
870	90	58	62	64	54	52	47	41	32
870	80	55	60	62	52	49	45	39	30
870	70	54	59	62	52	49	45	38	30
870	60	54	59	61	51	47	43	36	28

ATA 050-071 A6 @ 17°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	54	56	57	57	52	48	43	36
1750	80	52	55	59	56	51	46	41	35
1750	70	50	55	58	55	49	45	40	34
1750	60	49	54	58	54	49	45	40	34
1160	90	55	58	69	61	51	48	42	34
1160	80	54	56	67	59	50	46	41	33
1160	70	53	56	66	58	49	45	40	32
1160	60	52	55	65	57	48	44	39	31
870	90	56	64	69	53	50	46	39	31
870	80	54	63	67	52	48	44	38	30
870	70	53	61	66	51	47	43	37	28
870	60	53	61	65	50	46	42	36	28

ATA 050-071 A6 @ 22°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	52	55	59	56	50	45	40	34
1750	80	50	53	57	54	48	44	39	33
1750	70	48	52	57	53	46	42	38	32
1750	60	47	52	56	53	46	42	37	32
1160	90	54	56	62	55	48	45	39	32
1160	80	51	54	60	53	46	43	38	31
1160	70	51	52	58	51	44	42	37	30
1160	60	51	52	57	51	44	42	37	30
870	90	55	60	62	49	47	43	36	29
870	80	52	58	60	47	45	41	35	28
870	70	51	55	58	45	44	40	34	27
870	60	51	55	57	45	43	40	34	27

ATA 050-071 A6 @ 27°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	50	55	59	55	48	43	38	32
1750	80	49	53	57	53	46	41	36	31
1750	70	48	52	57	52	45	41	36	30
1750	60	48	52	56	51	44	40	35	30
1160	90	54	55	62	54	45	42	37	29
1160	80	52	53	60	52	43	41	36	28
1160	70	50	52	59	51	43	40	36	28
1160	60	49	52	58	50	42	40	35	28
870	90	54	59	62	47	44	40	34	26
870	80	52	57	60	45	42	39	33	25
870	70	51	56	59	44	42	38	33	25
870	60	50	55	58	44	41	38	32	25

ATA 050-071 A6 @ 32°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	48	54	57	55	47	42	36	30
1750	80	48	53	57	54	46	41	35	30
1750	70	47	51	54	52	45	40	35	29
1750	60	47	50	53	50	43	39	35	29
1160	90	55	56	62	54	45	41	36	28
1160	80	53	54	60	52	43	40	35	27
1160	70	51	53	59	51	42	39	35	27
1160	60	49	51	57	49	42	39	34	27
870	90	55	59	62	47	43	39	33	25
870	80	53	58	60	45	42	38	32	24
870	70	51	56	59	44	41	38	32	24
870	60	49	55	57	43	41	37	32	24

ATA 050-071 A6 @ 37°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	46	54	59	55	47	42	37	31
1750	80	47	54	59	55	47	42	37	31
1750	70	47	52	57	54	45	41	36	31
1750	60	48	52	57	54	45	41	36	31
1160	90	54	55	62	54	45	41	36	28
1160	80	54	55	61	53	44	41	36	28
1160	70	52	54	61	52	44	41	35	28
1160	60	52	53	61	52	43	41	35	28
870	90	54	59	62	47	43	39	33	25
870	80	54	59	61	46	43	39	33	25
870	70	52	58	61	45	42	39	32	25
870	60	52	57	61	45	42	39	32	25

The calculated sound power levels from these ratings are in decibels, referenced to 10^{-12} watts. Calculated per AMCA Standard 301. Values shown are for inlet L_{WKi} specific sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

L_{WKi} Inlet Values

ATA 080-125 A3 @ 7°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	53	56	59	60	58	54	48	42
1750	80	50	52	56	57	56	52	46	40
1750	70	50	51	55	57	54	50	44	38
1750	60	50	50	55	57	54	49	44	38
1750	50	51	51	55	57	54	49	44	38
1160	90	57	60	61	58	56	52	46	39
1160	80	54	56	58	56	54	50	44	37
1160	70	52	56	57	54	52	48	42	35
1160	60	52	56	57	54	51	47	42	35
1160	50	53	56	57	54	51	48	42	35
870	90	59	62	60	57	56	50	43	36
870	80	55	58	57	54	53	48	41	34
870	70	55	57	56	52	51	47	40	32
870	60	55	57	55	52	50	46	40	32
870	50	55	58	55	52	50	46	40	32

ATA 080-125 A3 @ 12°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	52	54	56	56	54	50	45	39
1750	80	50	51	53	54	51	47	42	37
1750	70	51	50	52	53	50	46	42	37
1750	60	53	50	50	51	48	45	41	36
1160	90	55	58	57	54	52	48	43	36
1160	80	52	55	55	51	49	46	41	34
1160	70	52	54	54	50	48	45	40	34
1160	60	51	53	53	49	47	44	40	33
870	90	57	59	56	53	51	47	40	33
870	80	54	56	53	50	49	45	39	31
870	70	54	56	52	49	48	44	38	31
870	60	53	55	51	47	47	43	38	30

ATA 080-125 A3 @ 17°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	52	53	55	53	48	45	41	36
1750	80	50	51	52	50	45	42	38	34
1750	70	51	50	52	49	44	41	38	34
1750	60	60	52	52	50	44	41	38	34
1160	90	54	57	55	50	47	44	39	33
1160	80	51	54	52	47	44	41	37	31
1160	70	51	53	52	46	43	41	37	31
1160	60	52	53	52	46	43	41	37	31
870	90	56	58	53	48	47	43	37	30
870	80	53	55	50	45	44	41	35	27
870	70	53	54	50	44	43	40	35	27
870	60	53	54	49	43	43	40	35	27

ATA 080-125 A3 @ 22°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	51	52	54	53	47	43	39	35
1750	80	50	51	52	50	44	41	38	34
1750	70	50	50	52	50	43	41	38	34
1750	60	52	49	49	47	42	40	38	34
1160	90	53	58	56	50	46	43	38	32
1160	80	52	56	54	47	43	40	36	30
1160	70	52	55	53	46	43	40	36	30
1160	60	51	52	50	45	42	40	36	30
870	90	57	59	54	47	45	41	36	28
870	80	55	57	52	43	43	39	34	26
870	70	54	56	51	43	42	39	34	26
870	60	53	53	49	43	42	39	34	26

ATA 080-125 A3 @ 27°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	49	51	54	54	47	42	38	33
1750	80	48	49	52	52	44	40	37	32
1750	70	48	49	51	51	44	40	37	33
1750	60	49	48	50	50	43	40	37	34
1160	90	51	57	57	50	45	41	36	30
1160	80	50	55	54	48	43	40	35	29
1160	70	50	55	54	47	42	39	35	29
1160	60	50	52	51	45	42	39	36	31
870	90	55	59	55	47	44	40	34	26
870	80	54	57	53	44	42	38	33	25
870	70	53	57	52	43	42	38	33	25
870	60	52	53	49	42	42	38	34	27

ATA 080-125 A3 @ 32°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	48	48	53	55	47	41	37	33
1750	80	47	47	52	54	46	40	36	33
1750	70	47	47	51	53	45	40	37	33
1750	60	46	46	50	52	44	40	37	35
1160	90	50	56	57	51	44	40	35	29
1160	80	48	55	56	49	43	39	35	29
1160	70	48	55	55	49	43	39	35	30
1160	60	48	53	53	47	42	39	36	32
870	90	55	59	55	47	43	39	33	26
870	80	53	58	54	46	42	38	33	26
870	70	53	58	53	45	42	38	33	26
870	60	52	56	51	42	41	38	34	28

ATA 080-125 A3 @ 37°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	46	47	53	56	49	42	38	34
1750	80	45	46	52	54	47	41	38	34
1750	70	45	46	52	54	46	41	38	35
1750	60	45	46	51	54	45	41	38	36
1160	90	48	57	57	51	45	40	36	31
1160	80	47	56	56	50	44	40	36	31
1160	70	47	55	56	49	44	40	36	32
1160	60	47	55	55	48	43	40	37	33
870	90	54	60	55	47	43	39	34	27
870	80	53	59	54	47	43	39	34	28
870	70	53	58	54	46	42	39	35	29
870	60	52	58	53	44	42	39	35	30

The calculated sound power levels from these ratings are in decibels, referenced to 10^{-12} watts. Calculated per AMCA Standard 301. Values shown are for inlet L_{WKi} specific sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

L_{WKi} Inlet Values

ATA 080-125 A6 @ 7°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	56	60	64	65	61	56	49	43
1750	80	53	57	61	61	58	52	45	38
1750	70	52	56	59	59	56	50	43	36
1750	60	54	60	59	57	55	49	42	34
1750	50	54	60	58	57	54	48	41	33
1160	90	62	66	66	62	58	53	46	39
1160	80	59	63	62	58	54	49	41	34
1160	70	57	61	60	56	53	47	40	32
1160	60	56	61	58	55	51	45	38	30
1160	50	56	61	57	54	51	45	37	29
870	90	66	68	64	60	56	50	43	36
870	80	62	64	60	56	52	46	38	31
870	70	60	62	58	54	51	44	37	29
870	60	57	60	56	53	49	43	35	27
870	50	57	59	55	52	49	42	34	26

ATA 080-125 A6 @ 12°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	50	55	58	59	56	51	45	38
1750	80	48	52	56	57	53	48	43	36
1750	70	49	53	56	57	53	48	42	35
1750	60	53	56	58	56	52	47	40	32
1160	90	58	62	61	57	53	48	42	35
1160	80	55	59	59	54	51	46	40	33
1160	70	56	59	58	54	50	46	39	32
1160	60	58	59	57	53	50	44	36	28
870	90	62	64	60	55	52	46	39	32
870	80	59	61	57	52	50	44	37	30
870	70	59	61	57	52	49	44	36	29
870	60	60	60	55	51	48	41	33	25

ATA 080-125 A6 @ 17°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	46	52	56	55	52	47	42	36
1750	80	45	51	54	52	50	45	40	34
1750	70	45	51	52	51	48	44	39	34
1750	60	45	51	52	51	48	44	39	34
1160	90	54	60	58	53	50	46	39	32
1160	80	53	58	56	51	48	44	38	31
1160	70	53	56	54	49	46	43	37	30
1160	60	53	56	54	49	46	43	37	30
870	90	59	62	57	51	49	44	37	29
870	80	57	60	55	49	47	42	35	28
870	70	56	58	52	47	46	41	35	27
870	60	56	58	52	47	46	41	35	27

ATA 080-125 A6 @ 22°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	46	55	55	54	49	44	40	34
1750	80	45	53	54	52	47	43	38	33
1750	70	45	49	52	50	46	42	38	33
1750	60	45	49	52	50	46	42	38	33
1160	90	54	59	57	51	47	43	37	30
1160	80	52	57	56	50	45	41	36	29
1160	70	50	56	54	49	45	41	35	29
1160	60	50	56	54	49	45	41	35	29
870	90	57	61	56	49	46	42	35	27
870	80	55	59	54	47	44	40	33	26
870	70	54	58	52	48	43	39	33	25
870	60	54	58	52	48	43	39	33	25

ATA 080-125 A6 @ 27°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	43	52	54	52	48	42	38	32
1750	80	43	51	52	50	46	40	36	31
1750	70	43	49	52	51	45	40	36	31
1750	60	44	49	53	51	45	40	36	31
1160	90	52	59	57	51	45	41	35	29
1160	80	51	58	56	49	43	39	34	27
1160	70	50	57	55	48	43	39	33	27
1160	60	50	57	55	48	43	39	33	27
870	90	58	62	56	48	45	40	33	25
870	80	56	60	55	46	42	37	31	23
870	70	55	59	54	45	42	37	31	23
870	60	55	59	54	45	42	37	31	23

ATA 080-125 A6 @ 32°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	44	50	54	53	46	41	36	31
1750	80	44	50	54	53	45	40	35	30
1750	70	45	49	52	53	44	39	35	30
1750	60	45	49	52	53	44	39	35	30
1160	90	52	59	58	50	44	39	34	27
1160	80	51	59	57	49	43	38	33	26
1160	70	50	57	56	49	42	37	32	26
1160	60	50	57	56	49	42	37	32	26
870	90	58	62	56	47	43	38	31	23
870	80	57	62	56	46	41	37	30	22
870	70	55	60	54	45	40	36	29	22
870	60	55	60	54	45	40	36	29	22

ATA 080-125 A6 @ 37°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
1750	90	43	49	53	53	46	40	35	30
1750	80	43	48	52	53	45	39	35	30
1750	70	44	47	52	53	45	39	35	31
1750	60	44	47	52	54	45	39	35	31
1160	90	50	58	57	50	43	39	33	27
1160	80	49	58	57	49	43	38	33	27
1160	70	49	57	56	49	42	38	33	27
1160	60	48	56	56	49	42	38	33	28
870	90	56	62	56	47	42	37	31	23
870	80	55	61	55	46	41	37	31	23
870	70	54	60	54	46	41	36	31	24
870	60	54	59	53	45	41	36	31	24

The calculated sound power levels from these ratings are in decibels, referenced to 10^{-12} watts. Calculated per AMCA Standard 301. Values shown are for inlet L_{WKi} specific sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

L_{WKi} Inlet Values

ATABD 040A3 @ 27°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3750	90	44	51	58	58	55	49	43	38
3750	80	42	49	54	56	53	47	41	36
3750	70	42	49	54	55	53	47	41	36
3750	60	44	49	52	54	51	46	41	37
3500	90	44	52	58	58	55	49	43	37
3500	80	43	50	55	56	53	46	41	36
3500	70	43	50	54	55	52	46	41	36
3500	60	44	49	53	54	51	45	40	36
3250	90	46	53	58	58	54	48	43	37
3250	80	45	51	55	56	52	46	41	36
3250	70	45	50	54	55	52	46	41	36
3250	60	46	50	53	54	50	45	40	37
3000	90	48	54	58	58	53	48	43	38
3000	80	46	52	55	56	51	46	41	37
3000	70	46	51	55	56	51	45	41	37
3000	60	47	51	53	54	50	44	41	37
2750	90	50	55	59	58	53	47	43	38
2750	80	48	52	56	56	50	45	41	37
2750	70	48	52	55	56	50	45	41	37
2750	60	48	51	54	54	49	44	41	37
2500	90	51	56	59	58	52	47	43	38
2500	80	49	53	57	55	50	45	42	37
2500	70	49	53	56	55	49	45	41	37
2500	60	49	52	55	54	48	44	41	37
2250	90	53	56	59	57	51	47	43	38
2250	80	51	54	57	55	49	45	42	37
2250	70	50	53	56	54	48	44	42	37
2250	60	50	52	55	53	48	44	42	37
2000	90	54	57	60	56	50	47	43	37
2000	80	52	54	57	53	48	45	42	37
2000	70	51	54	56	53	48	44	42	37
2000	60	51	53	55	52	47	44	42	37

ATABD 050-71 A3 @ 27°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3000	90	50	51	55	56	52	47	43	38
3000	80	49	50	53	55	51	46	42	37
3000	70	48	49	53	54	50	45	41	37
3000	60	46	48	52	53	49	44	41	36
2750	90	50	51	55	56	52	47	42	37
2750	80	49	50	54	54	50	45	41	36
2750	70	48	50	54	54	50	45	41	36
2750	60	46	48	53	53	48	44	40	36
2500	90	50	52	56	55	51	46	42	36
2500	80	49	50	55	54	49	45	40	35
2500	70	48	50	54	53	49	44	40	35
2500	60	46	49	53	52	48	44	40	35
2250	90	50	52	56	55	50	46	41	35
2250	80	49	51	55	53	49	44	40	35
2250	70	48	50	54	53	48	44	39	34
2250	60	46	49	53	52	47	43	39	34
2000	90	50	53	56	54	49	45	40	34
2000	80	49	51	55	53	48	43	39	34
2000	70	48	51	54	52	47	43	39	34
2000	60	46	50	53	51	46	42	38	33
1750	90	51	54	56	53	48	44	39	33
1750	80	50	52	55	52	47	43	38	33
1750	70	49	52	54	51	46	42	38	33
1750	60	47	51	53	50	45	42	37	33
1500	90	52	55	57	55	47	44	39	33
1500	80	50	53	56	53	46	42	38	32
1500	70	50	53	55	53	45	42	38	32
1500	60	48	52	54	51	44	42	38	32
1250	90	52	56	58	54	46	44	39	32
1250	80	51	54	57	52	45	43	38	31
1250	70	50	54	56	52	45	42	38	31
1250	60	49	52	55	51	44	42	38	31
1000	90	53	57	59	50	46	43	37	29
1000	80	51	55	57	48	45	42	36	28
1000	70	51	55	57	48	44	42	36	28
1000	60	50	53	56	47	44	41	36	28
750	90	55	58	58	47	45	41	34	25
750	80	53	57	56	46	44	40	33	25
750	70	52	56	56	45	43	40	33	25
750	60	51	55	55	44	43	40	33	25

ATABD 080-125 A3 @ 27°

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
2000	90	58	58	59	56	49	46	41	36
2000	80	56	56	58	55	47	44	40	34
2000	70	55	56	57	54	47	44	40	35
2000	60	53	53	54	51	45	43	40	35
1750	90	58	58	59	55	48	45	40	34
1750	80	56	57	58	53	46	43	39	33
1750	70	55	56	57	53	46	43	39	33
1750	60	53	53	54	50	44	43	39	34
1500	90	58	59	59	54	47	44	39	33
1500	80	56	57	58	52	45	42	38	32
1500	70	55	56	57	51	45	42	38	32
1500	60	53	53	54	49	44	42	38	33
1250	90	58	59	58	52	47	43	38	31
1250	80	56	58	57	50	45	41	36	30
1250	70	55	57	56	49	45	41	36	30
1250	60	53	54	53	47	44	41	37	31
1000	90	58	59	56	49	46	41	36	28
1000	80	56	58	55	47	44	40	34	28
1000	70	56	57	54	47	44	40	35	28
1000	60	53	54	51	45	43	40	35	29
750	90	59	59	54	47	44	39	33	25
750	80	57	58	52	45	42	38	32	24
750	70	56	57	51	45	42	38	32	25
750	60	53	54	49	44	42	38	33	26
500	90	59	56	49	46	41	36	28	20
500	80	58	55	47	44	40	34	28	20
500	70	57	54	47	44	40	35	28	20
500	60	54	51	45	43	40	35	29	22

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M Capacity Fraction

CFM	TOTAL PRESSURE AT DENSITY																		
	1/4	3/8	1/2	5/8	3/4	7/8	1	1¼	1½	2	2½	3	3½	4	4½	5	5½	6	6½
100	8	11	14	16	18	19	20	22	24	26	28	30	31	32	33	34	35	36	36
150	10	13	16	18	19	21	22	24	25	28	30	31	33	34	35	36	37	37	38
200	11	14	17	19	21	22	23	25	27	29	31	33	34	35	36	37	38	39	39
300	13	16	19	21	22	24	25	27	28	31	33	34	36	37	38	39	40	40	41
500	15	18	21	23	24	26	27	29	31	33	35	37	38	39	40	41	42	43	43
750	17	20	23	25	26	28	29	31	32	35	37	38	40	41	42	43	44	44	45
1000	18	21	24	26	28	29	30	32	34	36	38	40	41	42	43	44	45	48	46
1500	20	23	26	28	29	31	32	34	35	38	40	41	43	44	45	46	47	47	48
2000	21	24	27	29	31	32	33	35	37	39	41	43	44	45	46	47	48	49	49
3000	23	26	29	31	32	34	35	37	38	41	43	44	46	47	48	49	59	59	51
5000	25	28	31	33	34	36	37	39	41	43	45	47	48	49	50	51	52	53	53
7500	27	30	33	35	36	38	39	41	42	45	47	48	50	51	52	53	54	54	55
10000	28	31	34	36	38	39	40	42	44	46	48	50	51	52	53	54	55	56	56
15000	30	33	36	38	39	41	42	44	45	48	50	51	53	54	55	56	57	57	58
20000	31	34	37	39	41	42	43	45	47	49	51	53	54	55	56	57	58	59	59
30000	33	36	39	41	42	44	45	47	48	51	53	54	56	57	58	59	60	60	61
50000	35	38	41	43	44	46	47	49	51	53	55	57	58	59	60	61	62	63	63
75000	37	40	43	45	46	48	49	51	52	55	57	58	60	61	62	63	64	64	65
100000	38	41	44	46	48	49	50	52	54	56	58	60	61	62	63	64	65	66	66
150000	40	43	46	48	49	51	52	54	55	58	60	61	63	64	65	66	67	67	68
200000	41	44	47	49	51	52	53	55	57	59	61	63	64	65	66	67	68	69	69

CFM	TOTAL PRESSURE AT DENSITY																		
	7	8	9	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
100	37	38	39	40	42	43	44	45	46	47	48	48	49	50	50	51	51	52	52
150	39	40	41	42	43	45	46	47	48	49	49	50	51	51	52	52	53	53	54
200	40	41	42	43	45	46	47	48	49	50	51	51	52	53	53	54	54	55	55
300	42	43	44	45	46	48	49	50	51	52	52	53	54	54	55	55	56	56	57
500	44	45	46	47	49	59	51	52	53	54	55	55	56	57	57	58	58	59	59
750	46	47	48	49	50	52	53	54	55	56	56	57	58	58	59	59	60	60	61
1000	47	48	49	50	52	53	54	55	56	57	58	58	59	60	60	61	61	62	62
1500	49	50	51	52	53	55	56	57	58	59	59	60	61	61	62	62	63	63	64
2000	50	51	52	53	55	56	57	58	59	60	61	61	62	63	63	64	64	65	65
3000	52	53	54	55	56	58	59	60	61	62	62	63	64	64	65	65	66	66	67
5000	54	55	56	57	59	60	61	62	63	64	65	65	66	67	67	68	68	69	69
7500	56	57	58	59	60	62	63	64	65	66	66	67	68	68	69	69	70	70	71
10000	57	58	59	60	62	63	64	65	66	67	68	68	69	70	70	71	71	72	72
15000	59	60	61	62	63	65	66	67	68	69	69	70	71	71	72	72	73	73	74
20000	60	61	62	63	65	66	67	68	69	70	71	71	72	73	73	74	74	75	75
30000	62	63	64	65	66	68	69	70	71	72	72	73	74	74	75	75	76	76	77
50000	64	65	66	67	69	70	71	72	73	74	75	75	76	77	77	78	78	79	79
75000	66	67	68	69	70	72	73	74	75	76	76	77	78	78	79	79	80	80	81
100000	67	68	69	70	72	73	74	75	76	77	78	78	79	80	80	81	81	82	82
150000	69	70	71	72	73	75	76	77	78	79	79	80	81	81	82	82	83	83	84
200000	70	71	72	73	75	76	77	78	79	80	81	81	82	83	83	84	84	85	85

Aerovent

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