ATBM Series Box-type Fan

Professional HVAC Fan &Motors Manufacturer



Ningbo Longwell Electric Technology Co., Ltd
https://www.longwellfans.com Email:sales@zjlongwell.com

Type Code

ADHBM 8 - 8 - 001

- Series Number
- Width of Impeller
- Diameter of Impeller
- ATBM Series/ADHBM Series RDHBM Series

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The ATBM Series Box-type Fan

Aluminum Frame Structure

Channel steel base,not easy to be deformed.
Aluminum frame,easy to be installed,strong structure and low weight.
High quality painted steel plate and Cold Rolled Steel painted with static electronic process can prolong fan life.
Fine seam disposition.Low air leakage.
The box board is made of foaming technology and sound insulation cotton.

Scientific Cabinet Design

Save every possible space.
Confirm strict tolerance of the parts to meet the precision.
Save every possible space to broaden inlet size which introduces the air-stream smoothly.
Motor position and belt length have been arranged without any redundancy.
Access door and side board used as one can save the cabinet size.

High quality parts with high reliability

Heavy duly fan shaft has been turned and grounded and designed at the maximum speed 150%.
Casting iron pulley has long life.
Bearing life is L10: 100000 hours.
Wheel balance level G2.5.
The maximum pressure: 250Pa. no deformation and vibration during using.
Human—oriented design concept benefits the maintenance work.
Access door and side board used as one can save the cabinet size.
Access door designed in both sides and can be opened tool free.

Elegant Shape

Introduce the air-stream according to hydromechanics features to improve fan efficiency and low down noise.
Hyperbolic curve venturi inlet which meets the hydromechanics requirement can reduce airflow noise.
One time shaped inlet cone can avoid turbulence successfully.
Wheel inlet cone perfectly matches the fan inlet can avoid turbulence successfully.
Spoiler used near the outlet can reduce turbulence successfully.
The avoidance of resonance design can reduce the noise caused by it.

Precise Wheel Balancing

Each wheel must be statically and dynamically balanced to the level of G2.5.
Extend bearing life, decrease shaft vibration and fan noise.

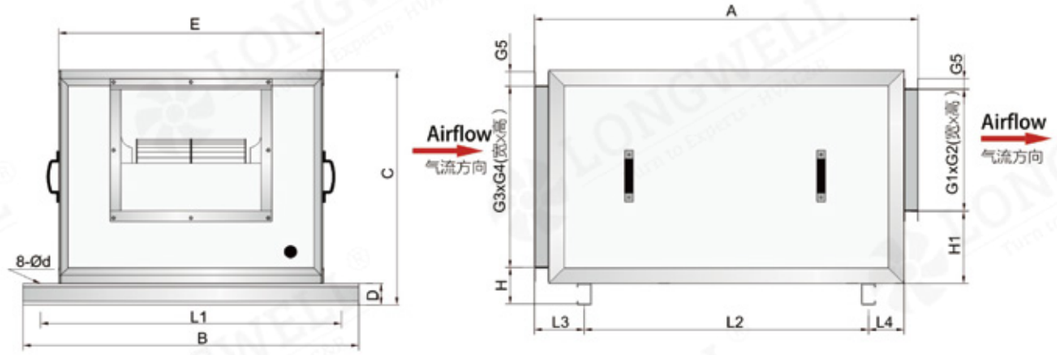
Dual-purpose fans are double inlet centrifugal cabinet fan, The wheel of ATBM is forward curved type.The structure of the fan is aluminum frame with insulated painted steep wail housing. You may find our fan not only light but also elegant with low noise. We took the consideration of saving every space so as to reduce fan weight without influence its function which is useful in transportation and installation. What's more, our dual-purpose fans have been designed with human-oriented concept which shows our human-oriented human-machine interface . lionking is devoted to providing our clients with safe, reliable, easily-operated, and elegant ventilation equipment, and also human-oriented ventilation concepts.

All kinds of general ventilation, filtered supply, light industry process ventilation and smoke exhaust application etc. Double-speed motor and VFD motor can be used upon request.

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ATBM Series Fan Overall Dimension

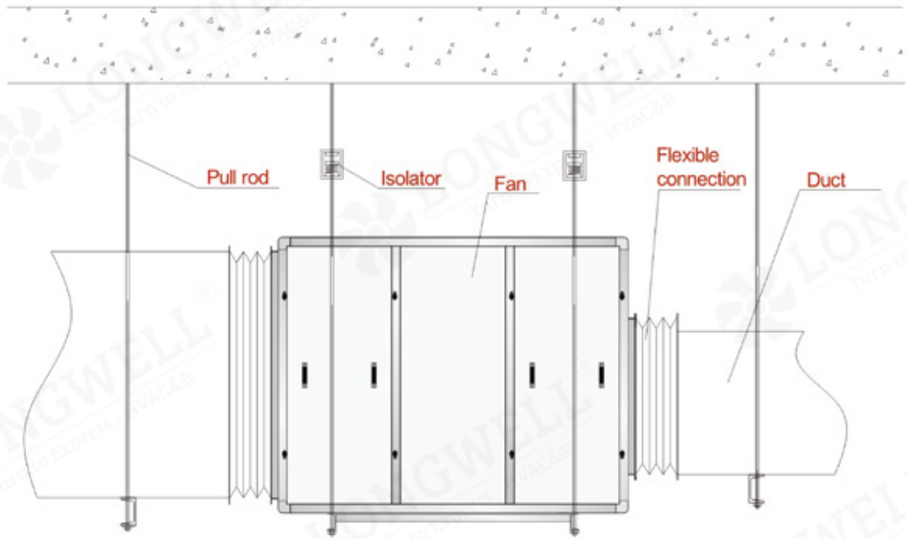
Axial Inlet and Axial Outlet



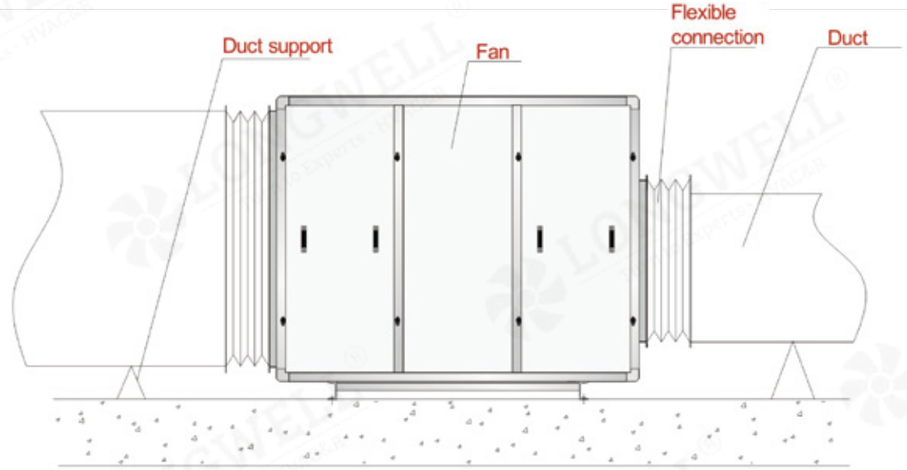
Unit:mm

Model	A	B	C	D	E	H	H1	G1	G2	G3	G4	G5	L1	L2	L3	L4	Φd
ATBM7-7	960	990	625	50	690	111	260	259	228	568	453	30	850	600	180	180	15
ATBM8-8	960	990	625	50	690	111	268	337	259	568	453	30	850	600	180	180	15
ATBM9-7	1000	1020	670	50	720	111	287	232	262	598	498	30	880	650	175	175	15
ATBM9-9	1000	1020	670	50	720	111	287	298	262	598	498	30	880	650	175	175	15
ATBM10-8	1050	1050	710	50	750	111	318	265	289	628	538	30	910	680	185	185	15
ATBM10-10	1050	1050	710	50	750	111	318	331	289	628	538	30	910	680	185	185	15
ATBM12-9	1120	1100	813	63	800	124	352	309	341	678	628	30	960	720	200	200	15
ATBM12-12	1120	1100	813	63	800	124	352	395	341	678	628	30	960	720	200	200	15
ATBM15-11	1250	1270	878	63	970	134	391	373	404	828	673	30	1130	850	200	200	15
ATBM15-15	1250	1270	878	63	970	134	391	471	404	828	673	30	1130	850	200	200	15
ATBM18-13	1480	1560	1130	80	1260	151	543	430	478	1118	908	30	1420	1060	210	210	15
ATBM18-18	1480	1560	1130	80	1260	151	543	557	478	1118	908	30	1420	1060	210	210	15

ATBM Ceiling Installation Schematic Diagram



ATBM Floor Installation Schematic Diagram



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ATBM 7-7 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

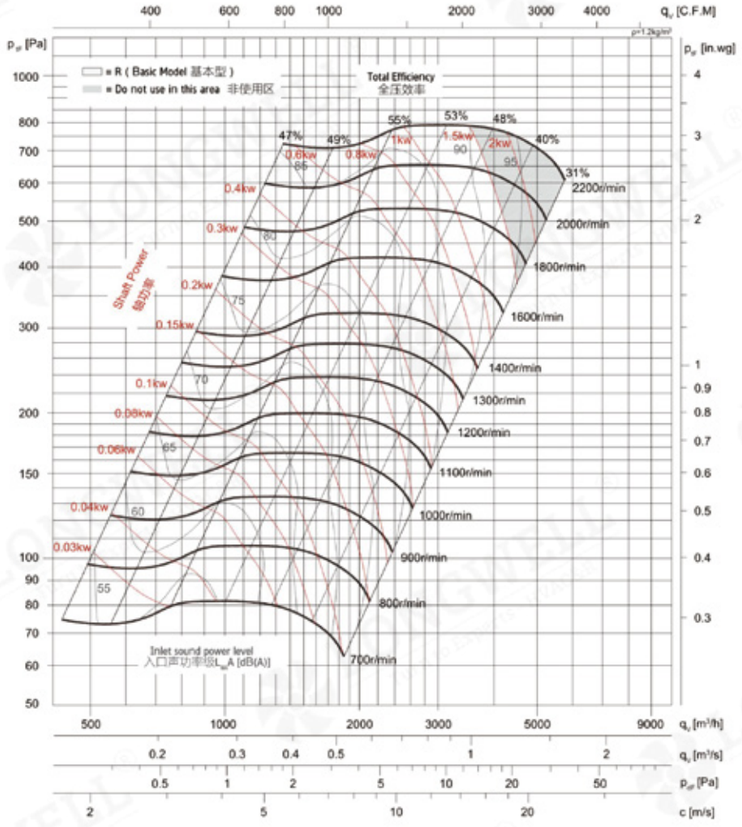
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
47%	-40	-30	-27	-25	-26	-29	-33	-39	dB(A)
49%	-45	-33	-29	-26	-25	-28	-30	-37	dB(A)
55%	-43	-31	-28	-27	-26	-29	-31	-38	dB(A)
53%	-47	-34	-30	-26	-25	-28	-29	-36	dB(A)
48%	-51	-37	-32	-26	-25	-28	-28	-34	dB(A)
40%	-54	-40	-35	-26	-25	-28	-28	-33	dB(A)
31%	-56	-41	-36	-27	-25	-28	-48	-13	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

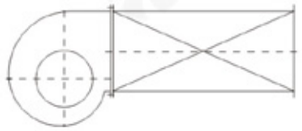
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
47%	-15	-8	-7	-6	-7	-10	-14	-20	dB(A)
49%	-19	-11	-8	-6	-6	-9	-11	-17	dB(A)
55%	-18	-10	-7	-7	-6	-9	-11	-18	dB(A)
53%	-19	-10	-7	-7	-6	-9	-11	-17	dB(A)
48%	-23	-13	-9	-6	-5	-9	-9	-15	dB(A)
40%	-24	-14	-11	-6	-5	-8	-8	-14	dB(A)
31%	-25	-14	-11	-6	-5	-8	-8	-13	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
7 inch	0.009kg·m²	2200r/min	35kg

ATBM 8-8 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

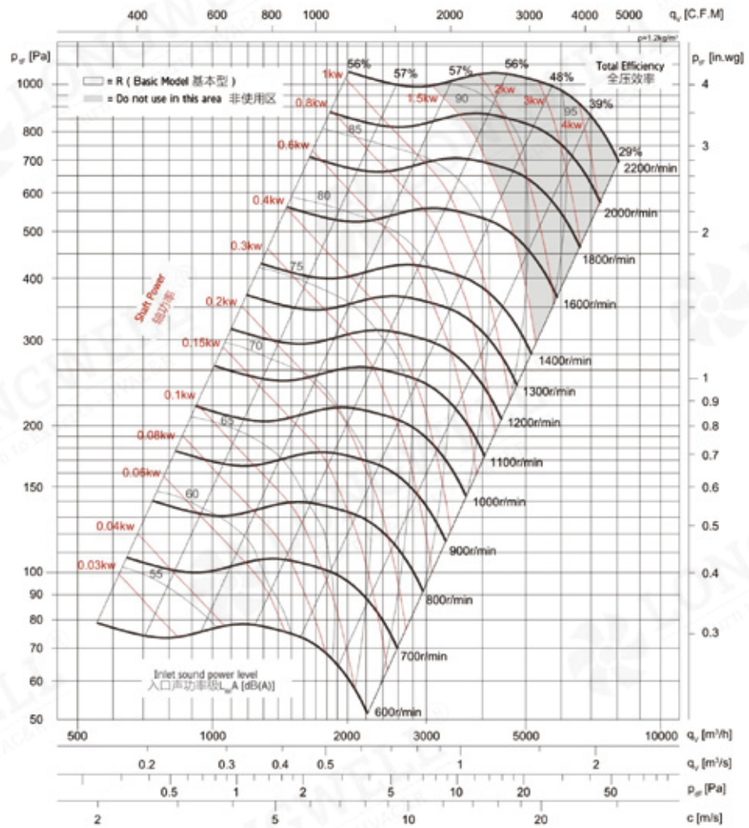
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
56%	-42	-31	-26	-28	-27	-29	-30	-37	dB(A)
57%	-42	-33	-27	-28	-26	-27	-28	-35	dB(A)
57%	-43	-36	-30	-28	-26	-26	-27	-33	dB(A)
56%	-44	-36	-30	-29	-26	-26	-27	-32	dB(A)
48%	-45	-37	-31	-29	-26	-26	-26	-32	dB(A)
39%	-48	-38	-32	-30	-27	-27	-25	-30	dB(A)
29%	-50	-39	-33	-30	-27	-27	-25	-29	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

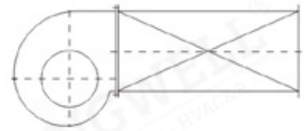
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
56%	-17	-9	-6	-8	-7	-9	-10	-17	dB(A)
57%	-16	-11	-7	-8	-7	-8	-9	-16	dB(A)
57%	-16	-12	-8	-9	-7	-7	-8	-14	dB(A)
56%	-16	-12	-7	-9	-7	-7	-8	-14	dB(A)
48%	-17	-12	-7	-9	-7	-7	-7	-13	dB(A)
39%	-19	-13	-9	-10	-7	-8	-6	-11	dB(A)
29%	-20	-13	-10	-10	-8	-8	-5	-10	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
8 inch	0.015kg·m²	2200r/min	40kg

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ATBM 9-7 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

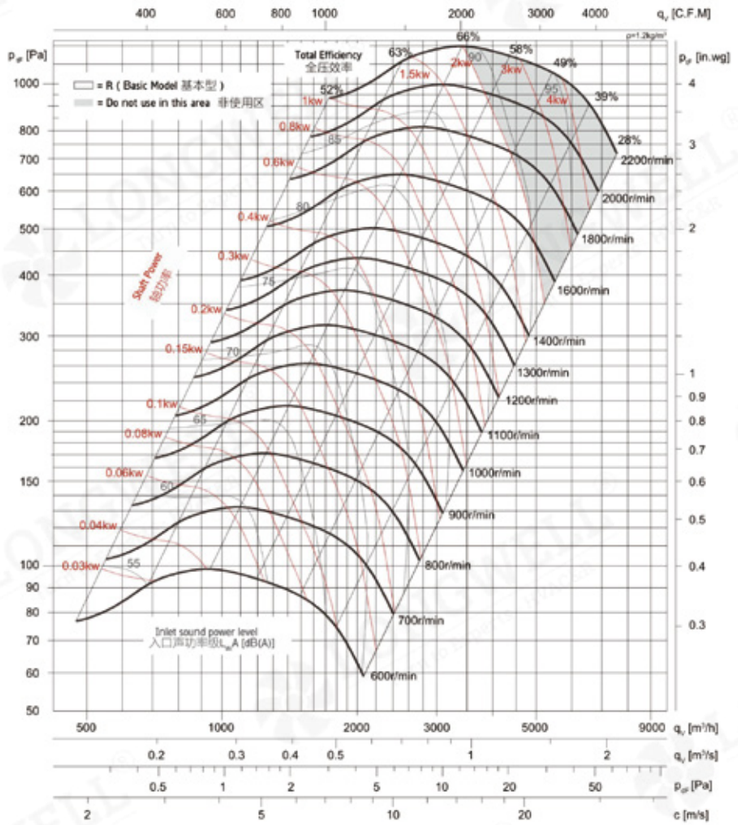
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
52%	-46	-34	-27	-26	-27	-29	-30	-37	dB(A)
63%	-50	-38	-30	-27	-26	-27	-28	-35	dB(A)
66%	-51	-39	-31	-27	-26	-26	-27	-33	dB(A)
58%	-50	-37	-32	-29	-26	-26	-27	-32	dB(A)
49%	-50	-37	-32	-30	-26	-26	-26	-32	dB(A)
39%	-50	-38	-32	-30	-27	-27	-25	-30	dB(A)
28%	-51	-40	-31	-32	-27	-27	-25	-29	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

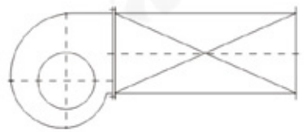
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
52%	-21	-11	-6	-6	-6	-9	-12	-19	dB(A)
63%	-21	-14	-8	-7	-6	-8	-8	-13	dB(A)
66%	-22	-14	-8	-8	-6	-8	-8	-13	dB(A)
58%	-21	-12	-8	-8	-6	-8	-8	-13	dB(A)
49%	-21	-12	-8	-9	-6	-7	-7	-13	dB(A)
39%	-21	-13	-8	-10	-7	-7	-6	-11	dB(A)
28%	-21	-14	-8	-11	-8	-8	-6	-10	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
9 inch	0.029kg·m²	2200r/min	42kg

ATBM 9-9 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

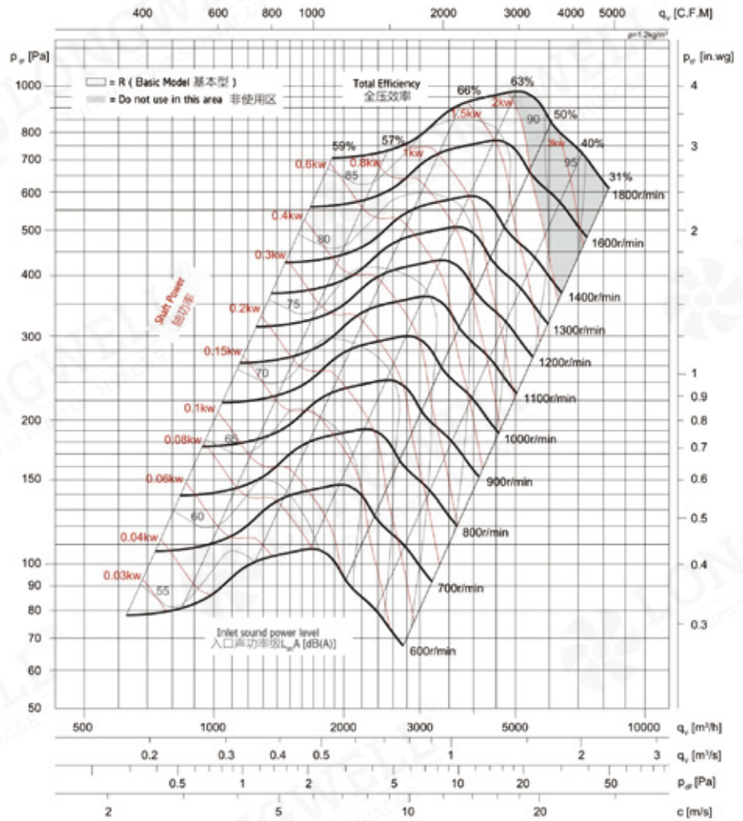
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
59%	-36	-29	-37	-26	-27	-31	-34	-34	dB(A)
57%	-39	-31	-37	-25	-26	-29	-32	-37	dB(A)
66%	-41	-32	-39	-27	-26	-28	-29	-35	dB(A)
63%	-44	-35	-32	-29	-26	-27	-26	-33	dB(A)
50%	-46	-39	-33	-30	-26	-26	-26	-31	dB(A)
40%	-47	-41	-33	-30	-26	-26	-25	-30	dB(A)
31%	-49	-46	-34	-32	-27	-26	-25	-29	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

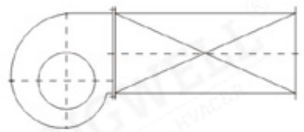
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
59%	-13	-8	-7	-6	-7	-12	-15	-15	dB(A)
57%	-15	-9	-7	-6	-7	-10	-13	-18	dB(A)
66%	-15	-9	-8	-7	-6	-8	-10	-16	dB(A)
63%	-16	-11	-9	-8	-6	-8	-8	-15	dB(A)
50%	-17	-13	-9	-9	-7	-7	-7	-13	dB(A)
40%	-18	-15	-9	-10	-7	-7	-6	-11	dB(A)
31%	-18	-18	-10	-11	-7	-7	-6	-9	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
9 inch	0.034kg·m²	1800r/min	45kg

ATBM 10-8 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

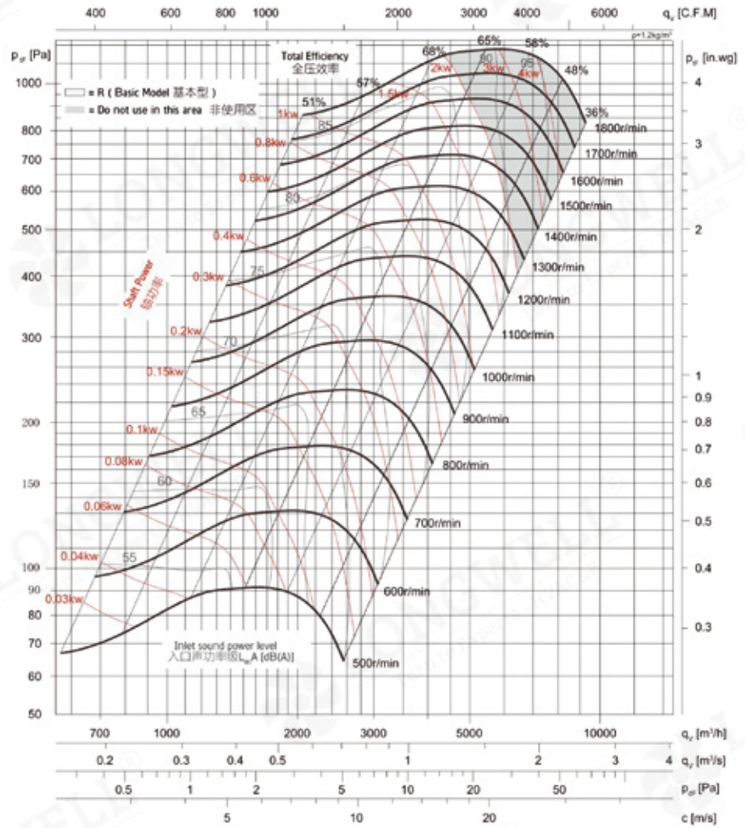
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
51%	-47	-30	-27	-26	-26	-29	-32	-40	dB(A)
57%	-47	-30	-27	-26	-26	-29	-33	-41	dB(A)
68%	-49	-31	-31	-28	-25	-28	-29	-36	dB(A)
65%	-50	-31	-32	-29	-25	-28	-28	-35	dB(A)
58%	-54	-36	-34	-31	-25	-26	-26	-32	dB(A)
48%	-56	-38	-34	-32	-26	-26	-26	-32	dB(A)
36%	-58	-41	-34	-32	-26	-26	-25	-31	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

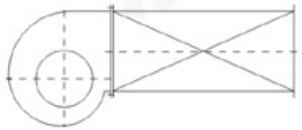
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
51%	-24	-9	-7	-6	-6	-9	-12	-20	dB(A)
57%	-23	-8	-6	-6	-7	-10	-13	-21	dB(A)
68%	-23	-8	-10	-8	-5	-8	-9	-16	dB(A)
65%	-23	-7	-9	-9	-6	-9	-9	-16	dB(A)
58%	-25	-10	-10	-11	-6	-7	-7	-13	dB(A)
48%	-27	-11	-10	-11	-6	-7	-6	-12	dB(A)
36%	-27	-14	-10	-11	-6	-7	-6	-12	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
10 inch	0.047kg·m²	1800r/min	46kg

ATBM 10-10 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

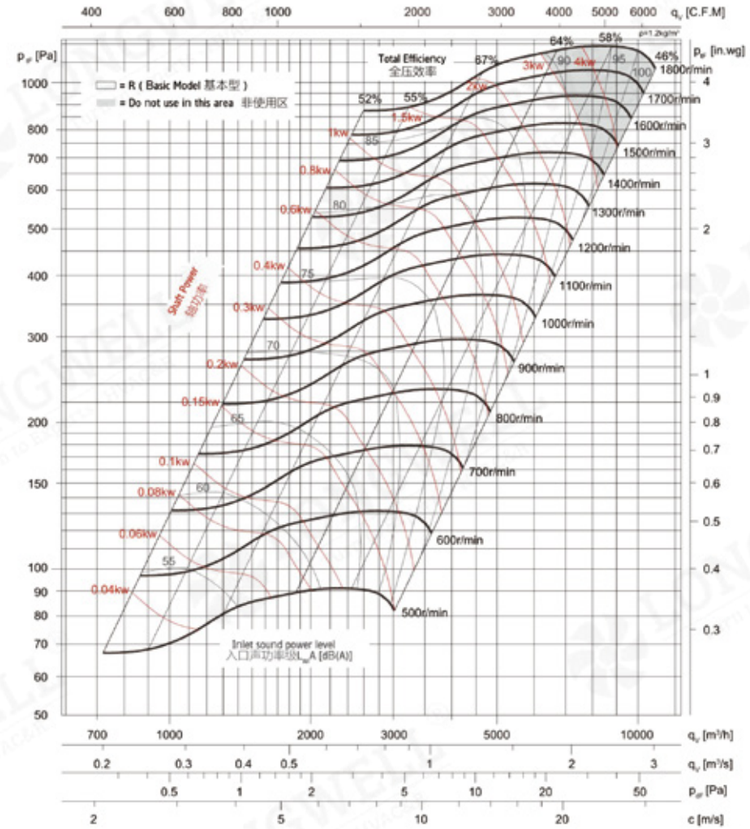
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
52%	-44	-32	-27	-25	-26	-28	-31	-38	dB(A)
55%	-43	-31	-26	-25	-27	-29	-31	-40	dB(A)
67%	-47	-35	-30	-27	-25	-7	-28	-34	dB(A)
64%	-51	-38	-33	-29	-25	-26	-27	-33	dB(A)
58%	-55	-42	-36	-31	-26	-25	-26	-32	dB(A)
46%	-64	-51	-43	-37	-29	-26	-25	-31	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

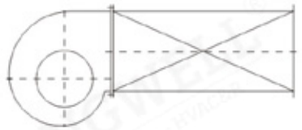
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
52%	-20	-10	-7	-6	-7	-9	-12	-19	dB(A)
55%	-18	-9	-6	-6	-8	-10	-13	-20	dB(A)
67%	-20	-10	-9	-7	-5	-8	-10	-16	dB(A)
64%	-23	-12	-10	-8	-5	-7	-8	-14	dB(A)
58%	-26	-14	-12	-11	-5	-6	-7	-13	dB(A)
46%	-34	-23	-19	-16	-6	-4	-5	-12	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
10 inch	0.055kg·m²	1800r/min	50kg

ATBM 12-9 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

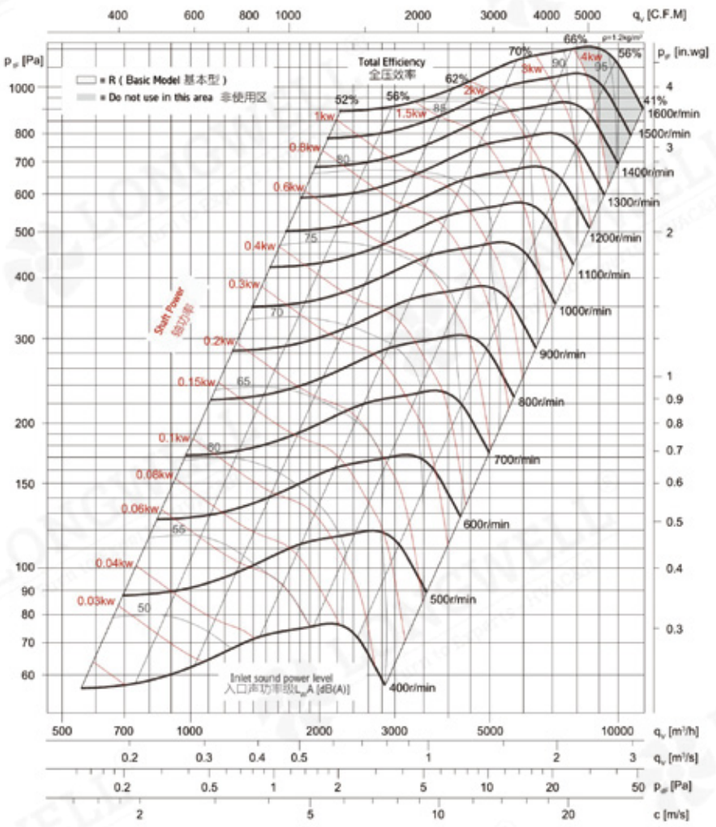
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
52%	-40	-30	-28	-26	-26	-28	-31	-38	dB(A)
56%	-45	-32	-30	-27	-25	-27	-29	-37	dB(A)
62%	-49	-34	-31	-28	-25	-27	-28	-37	dB(A)
70%	-52	-36	-33	-28	-25	-27	-28	-35	dB(A)
66%	-55	-39	-35	-29	-24	-26	-27	-33	dB(A)
56%	-51	-39	-35	-30	-25	-26	-27	-32	dB(A)
41%	-48	-39	-35	-31	-25	-26	-27	-32	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

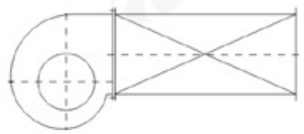
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
52%	-16	-8	-8	-6	-7	-9	-12	-19	dB(A)
56%	-19	-9	-9	-7	-6	-8	-10	-18	dB(A)
62%	-22	-11	-10	-8	-5	-7	-8	-17	dB(A)
70%	-24	-11	-9	-8	-5	-8	-9	-16	dB(A)
66%	-26	-13	-11	-9	-5	-7	-8	-15	dB(A)
56%	-22	-12	-11	-10	-5	-7	-8	-13	dB(A)
41%	-18	-13	-12	-10	-5	-7	-8	-13	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
12 inch	0.097kg·m²	1600r/min	85kg

ATBM 12-12 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

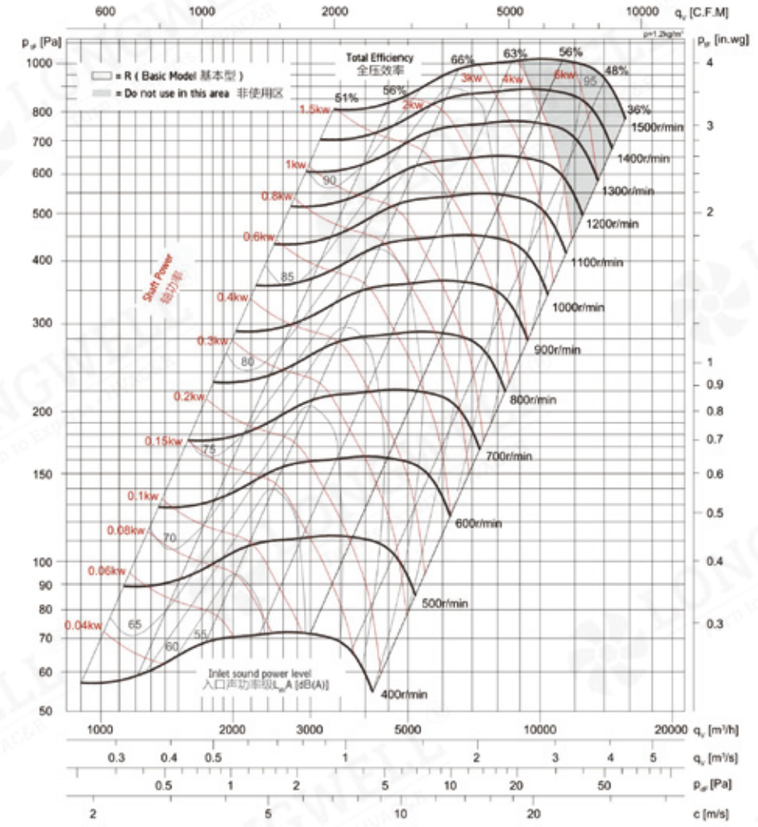
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
51%	-51	-38	-33	-28	-26	-25	-28	-35	dB(A)
56%	-56	-43	-36	-29	-27	-24	-27	-34	dB(A)
66%	-45	-33	-30	-27	-25	-26	-30	-36	dB(A)
63%	-48	-35	-31	-27	-25	-26	-29	-35	dB(A)
56%	-53	-40	-35	-28	-26	-25	-27	-34	dB(A)
48%	-55	-42	-36	-29	-26	-25	-26	-32	dB(A)
36%	-55	-42	-36	-29	-26	-25	-26	-32	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

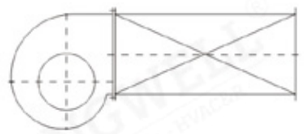
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
51%	-25	-14	-12	-8	-6	-5	-8	-15	dB(A)
56%	-30	-19	-15	-8	-7	-4	-7	-15	dB(A)
66%	-18	-10	-9	-7	-6	-7	-11	-17	dB(A)
63%	-20	-11	-8	-7	-6	-7	-11	-17	dB(A)
56%	-24	-14	-10	-7	-6	-6	-8	-15	dB(A)
48%	-26	-15	-12	-9	-7	-6	-7	-13	dB(A)
36%	-25	-16	-12	-8	-6	-6	-7	-13	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
12 inch	0.12kg·m²	1500r/min	100kg

Ningbo Longwell Electric Technology Co., Ltd
https://www.longwellfans.com Email:sales@zjlongwell.com

ATBM 15-11 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

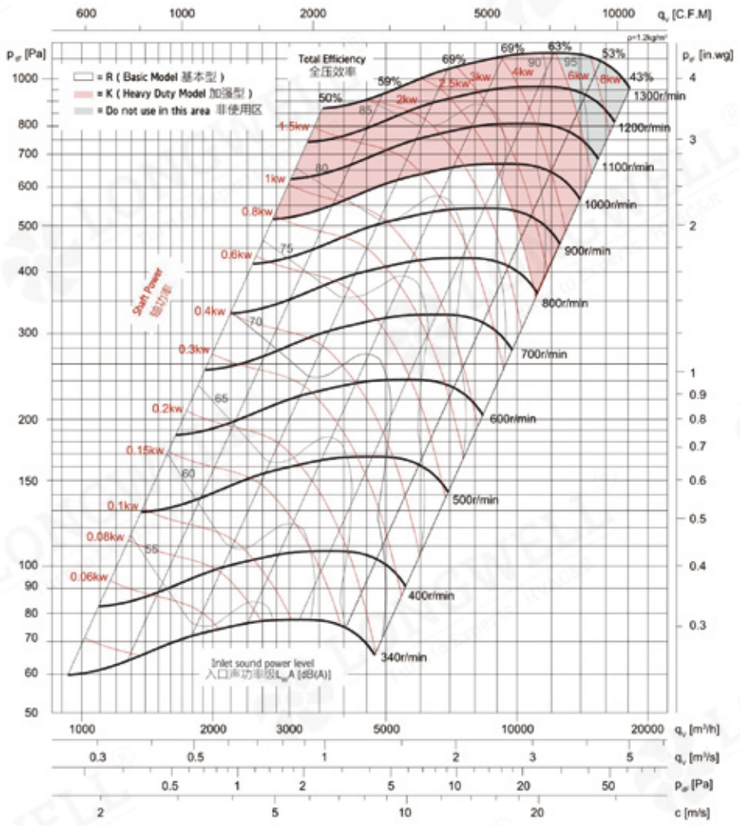
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
51%	-35	-29	-29	-26	-25	-29	-33	-39	dB(A)
56%	-43	-33	-31	-26	-25	-27	-30	-37	dB(A)
66%	-52	-39	-34	-26	-25	-27	-28	-36	dB(A)
63%	-51	-38	-34	-26	-25	-27	-28	-36	dB(A)
56%	-53	-39	-35	-28	-25	-26	-27	-34	dB(A)
48%	-55	-52	-38	-31	-25	-25	-26	-32	dB(A)
36%	-53	-52	-39	-32	-27	-25	-26	-31	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

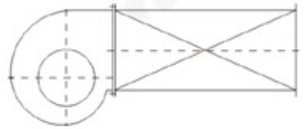
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
51%	-9	-8	-8	-8	-7	-9	-14	-19	dB(A)
56%	-17	-10	-10	-6	-6	-8	-14	-18	dB(A)
66%	-26	-15	-13	-6	-5	-7	-8	-16	dB(A)
63%	-22	-13	-10	-6	-6	-8	-9	-17	dB(A)
56%	-24	-13	-11	-7	-5	-7	-8	-16	dB(A)
48%	-26	-15	-14	-10	-5	-6	-7	-13	dB(A)
36%	-23	-16	-15	-11	-7	-5	-6	-11	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
15 inch	0.19kg·m²	1300r/min	130kg

ATBM 15-15 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

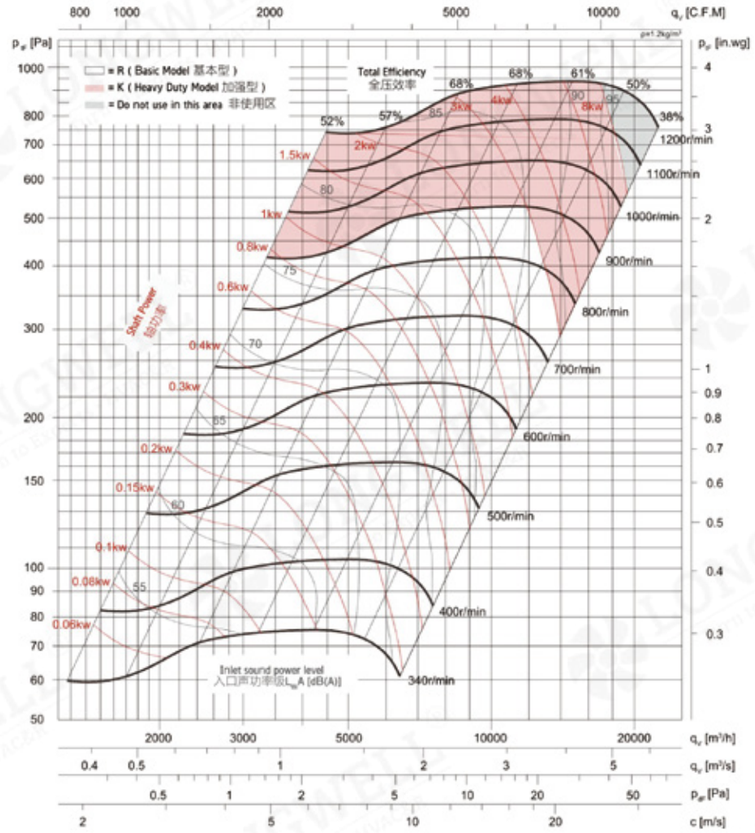
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
52%	-42	-29	-31	-26	-26	-27	-30	-37	dB(A)
57%	-44	-30	-32	-26	-26	-27	-29	-37	dB(A)
68%	-49	-35	-34	-26	-26	-26	-28	-35	dB(A)
68%	-50	-35	-34	-27	-26	-26	-28	-35	dB(A)
61%	-52	-36	-35	-27	-26	-26	-27	-34	dB(A)
50%	-57	-41	-38	-30	-26	-25	-26	-32	dB(A)
38%	-53	-40	-37	-31	-27	-25	-25	-31	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

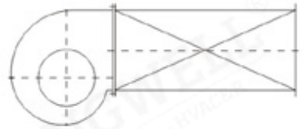
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
52%	-16	-8	-10	-6	-6	-8	-11	-18	dB(A)
57%	-18	-8	-10	-6	-7	-8	-10	-17	dB(A)
68%	-23	-11	-13	-6	-6	-6	-9	-16	dB(A)
68%	-22	-11	-10	-6	-6	-7	-9	-16	dB(A)
61%	-23	-10	-11	-7	-6	-7	-9	-16	dB(A)
50%	-27	-15	-14	-9	-6	-6	-7	-13	dB(A)
38%	-23	-14	-13	-10	-7	-6	-6	-11	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
15 inch	0.23kg·m²	1200r/min	140kg

Ningbo Longwell Electric Technology Co., Ltd
https://www.longwellfans.com Email:sales@zjlongwell.com

ATBM 18-13 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

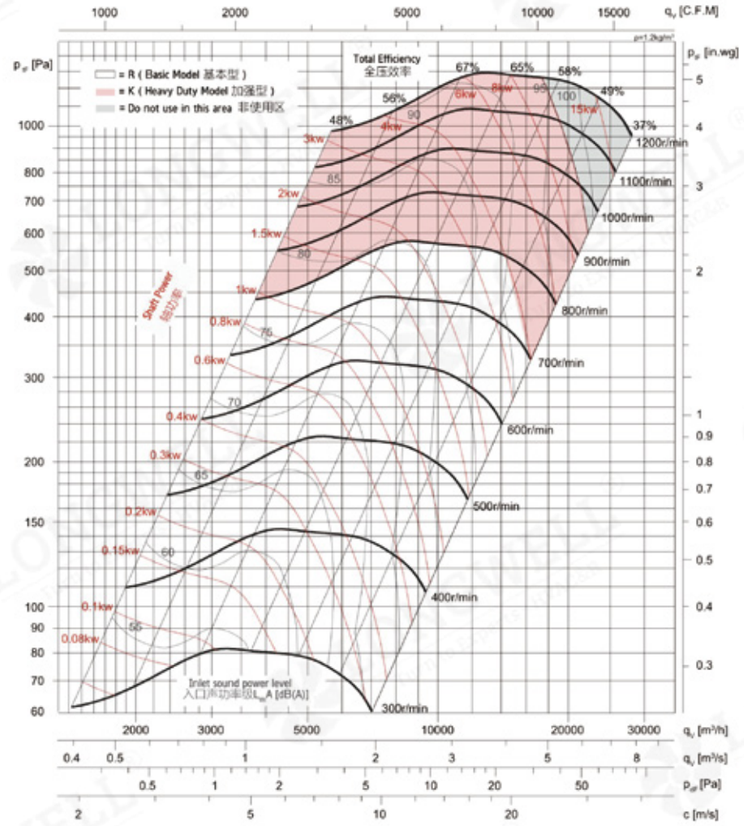
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
48%	-40	-28	-29	-25	-27	-28	-33	-40	dB(A)
56%	-45	-32	-31	-24	-27	-27	-31	-38	dB(A)
67%	-52	-36	-33	-24	-28	-27	-30	-37	dB(A)
65%	-52	-36	-33	-24	-28	-27	-30	-37	dB(A)
58%	-55	-38	-35	-25	-27	-26	-29	-36	dB(A)
49%	-59	-42	-38	-26	-26	-25	-28	-34	dB(A)
37%	-56	-41	-40	-29	-25	-24	-27	-33	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

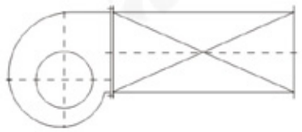
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
48%	-15	-7	-8	-6	-8	-9	-14	-21	dB(A)
56%	-19	-9	-9	-4	-8	-8	-12	-19	dB(A)
67%	-25	-12	-12	-4	-8	-7	-11	-18	dB(A)
65%	-23	-10	-9	-4	-9	-8	-11	-18	dB(A)
58%	-26	-12	-11	-4	-8	-7	-10	-17	dB(A)
49%	-29	-16	-15	-6	-6	-6	-9	-15	dB(A)
37%	-26	-15	-16	-8	-5	-5	-8	-14	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
18 inch	0.46kg·m²	1200r/min	180kg

ATBM 18-18 Box-type Fan

Noise Spectrum

Relative A sound power level for one meters from the cabinet $L_{W(1m)}$(A) at octave centre frequencies

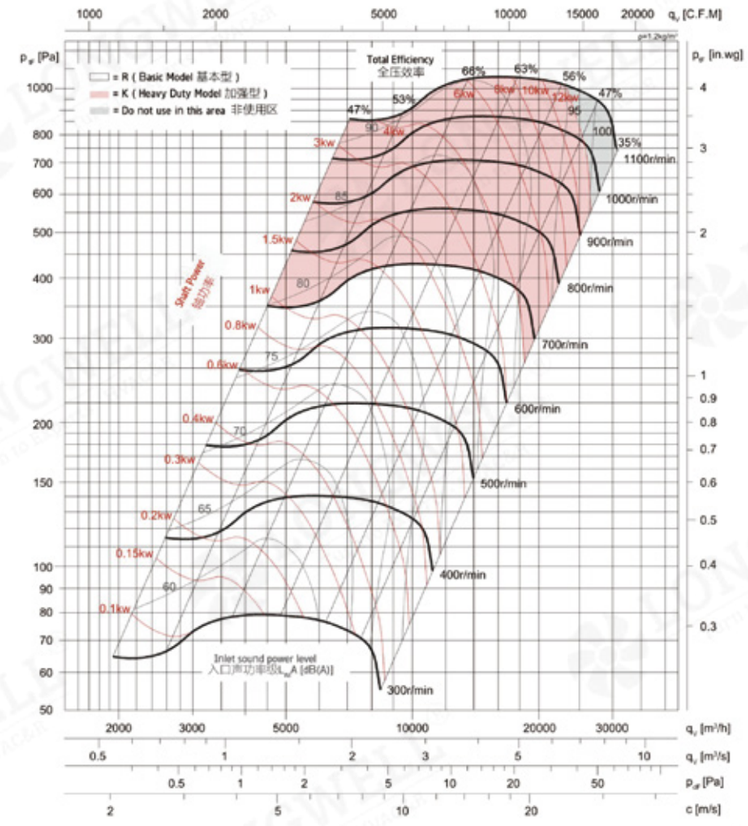
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
47%	-35	-27	-29	-27	-27	-29	-33	-40	dB(A)
53%	-46	-35	-33	-23	-28	-27	-32	-38	dB(A)
66%	-45	-35	-33	-23	-28	-27	-32	-37	dB(A)
63%	-46	-35	-33	-24	-28	-27	-32	-37	dB(A)
56%	-49	-37	-34	-24	-27	-26	-30	-36	dB(A)
47%	-54	-40	-36	-26	-26	-25	-28	-34	dB(A)
35%	-47	-34	-34	-28	-27	-26	-28	-33	dB(A)

Relative A sound power level for outlet side L_{Wo}(A) at octave centre frequencies

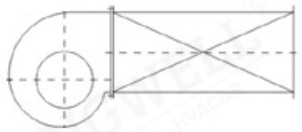
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
47%	-10	-7	-8	-7	-7	-9	-13	-22	dB(A)
53%	-19	-12	-11	-4	-8	-7	-12	-21	dB(A)
66%	-19	-11	-12	-3	-8	-7	-13	-21	dB(A)
63%	-17	-9	-9	-4	-9	-8	-13	-21	dB(A)
56%	-20	-11	-10	-4	-8	-7	-12	-19	dB(A)
47%	-24	-14	-13	-6	-6	-6	-9	-14	dB(A)
35%	-17	-8	-11	-7	-7	-7	-9	-12	dB(A)

Performance Curves

Type B:free inlet,ducted outlet.Power rating(KW)does not include transmission losses.Performance ratings do not include the effects of cabinet and accessories.The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet Lwi A sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA 211:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
18 inch	0.57kg·m²	1100r/min	200kg