ADHBM 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

- 001 — Series Number
- 8 — Width of Impeller
- 8 — Diameter of Impeller
- ADHBM — ATBM Series/ADHBM Series RDHBM Series

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The ADHBM 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

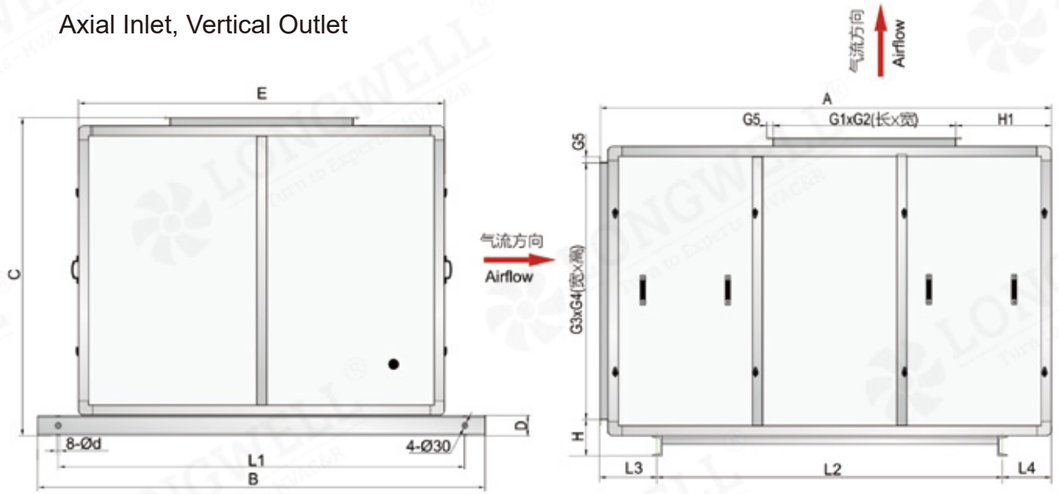
Each wheel must be statically and dynamically balanced to the level of G2.5.
Extend bearing life, decrease shaft vibration and fan noise.

Dual-purpose fans are double inlet centrifugal cabinet fan, The wheel of ADHBM 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.

ADHBM Series Fan Overall Dimension

Axial Inlet, Vertical Outlet

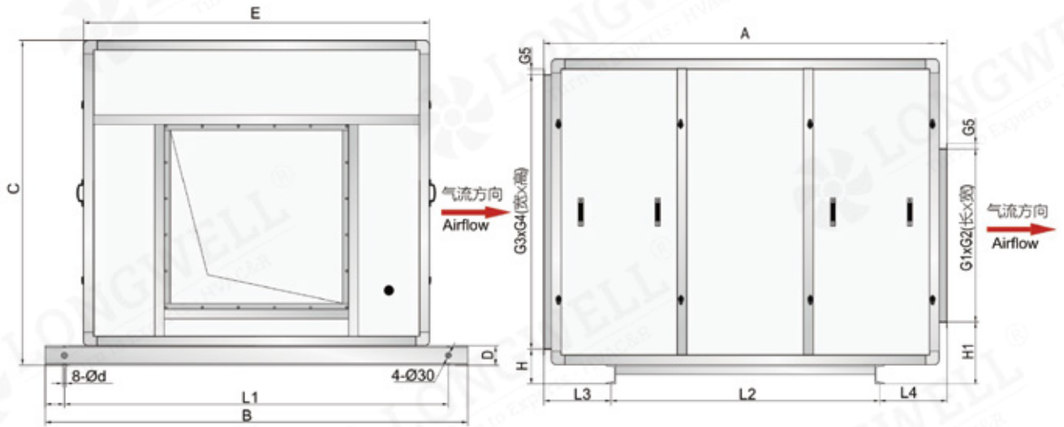


Unit:mm

Model	A	B	C	D	E	H	H1	G1	G2	G3	G4	G5	L1	L2	L3	L4	d
ADHBM 8-8	1000	990	600	50	690	111	215	256	256	388	568	30	850	600	220	180	15
ADHBM 9-9	1040	1020	640	50	720	111	214	288	288	428	598	30	880	660	210	170	15
ADHBM 10-10	1090	1050	680	50	750	111	240	322	322	468	628	30	910	680	225	185	15
ADHBM 11-11	1210	1100	733	63	800	125	252	361	361	508	678	30	960	750	240	220	15
ADHBM 12-12	1310	1270	808	63	970	134	281	404	404	536	828	30	1130	880	235	195	15
ADHBM 14-14	1390	1350	868	63	1050	134	306	453	453	623	908	30	1210	1000	215	175	15
ADHBM 16-16	1560	1560	1035	80	1260	151	334.5	507	507	773	1118	30	1420	1070	265	225	15
ADHBM 18-18	1690	1630	1110	80	1330	151	368	569	569	848	1188	30	1470	1170	280	240	15
ADHBM 20-20	1790	1800	1185	80	1400	151	395	638	638	1258	923	30	1600	1240	295	255	15
ADHBM 22-22	1965	1850	1315	100	1450	171	424	715	715	1308	1033	30	1650	1330	338	298	18
ADHBM 24-24	2090	2000	1420	100	1600	171	477	801	801	1138	1458	30	1800	1320	405	365	18
ADHBM 28-28	2220	2200	1560	100	1800	181	470	898	898	1638	1258	30	2000	1700	280	240	18
ADHBM 32-32	2470	2400	1690	100	2010	181	528	1007	1007	1848	1388	30	2200	1790	360	320	18
ADHBM 35-35	2690	2600	1870	100	2210	181	587	1130	1130	2048	1568	30	2400	2100	315	275	18
ADHBM 39-39	2840	2750	2000	100	2360	181	625	1267	1267	2198	1698	30	2550	2200	340	300	18

ADHBM Series Fan Overall Dimension

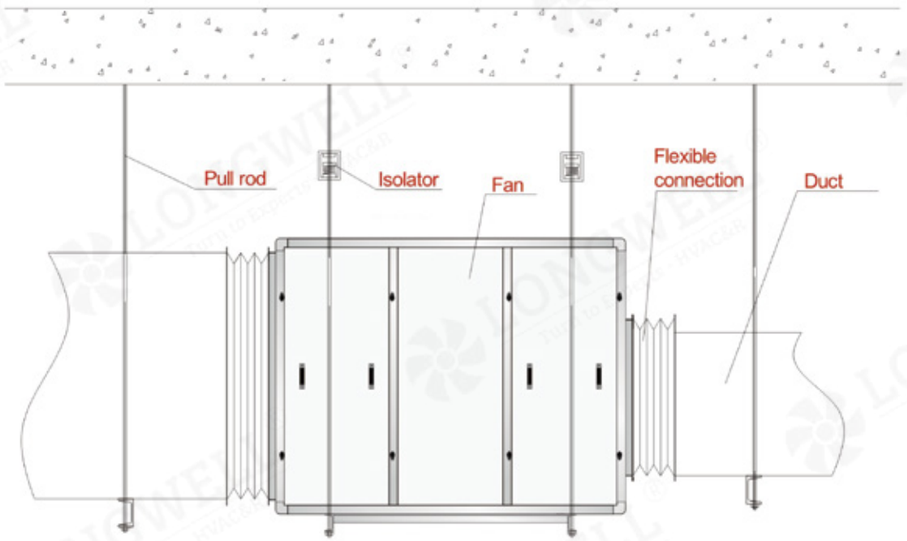
Axial Inlet and Axial Outlet



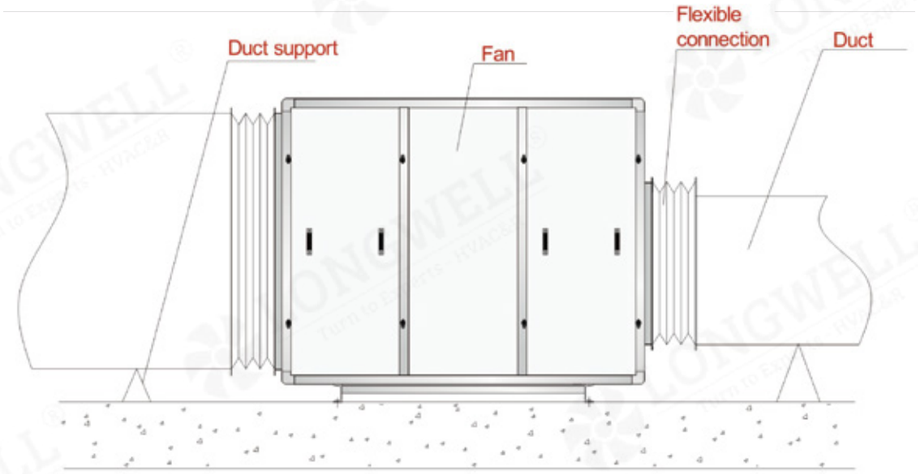
Unit:mm

Model	A	B	C	D	E	H	H1	G1	G2	G3	G4	G5	L1	L2	L3	L4	d
ADHBM 8-8	960	990	625	50	690	111	162	256	256	453	568	30	850	600	180	180	15
ADHBM 9-9	1000	1020	670	50	720	111	159	288	288	498	598	30	880	650	175	175	15
ADHBM 10-10	1050	1050	710	50	750	111	162	322	322	538	628	30	910	680	185	185	15
ADHBM 11-11	1120	1100	813	63	800	124	174	361	361	628	678	30	960	720	200	200	15
ADHBM 12-12	1250	1270	878	63	970	134	182	404	404	673	828	30	1130	850	200	200	15
ADHBM 14-14	1300	1350	953	63	1050	134	185	453	453	748	908	30	1210	930	185	185	15
ADHBM 16-16	1480	1560	1130	80	1260	151	279	507	507	908	1118	30	1420	1060	210	210	15
ADHBM 18-18	1550	1630	1220	80	1330	151	280	569	569	998	1188	30	1470	1100	225	225	15
ADHBM 20-20	1600	1800	1310	80	1400	151	280	638	638	1258	1088	30	1600	1160	220	220	15
ADHBM 22-22	1750	1850	1460	100	1450	171	320	715	715	1308	1218	30	1650	1300	225	225	18
ADHBM 24-24	1880	2000	1590	100	1600	171	319	801	801	1458	1348	30	1794	1320	280	280	18
ADHBM 28-28	2100	2200	1685	100	1800	181	319	898	898	1420	1635	30	2000	1400	350	350	18
ADHBM 32-32	2280	2400	1855	100	2010	181	319	1007	1007	1848	1593	30	2200	1600	340	340	18
ADHBM 35-35	2500	2600	2180	100	2210	181	338	1130	1130	2048	1793	30	2400	1700	400	400	18
ADHBM 39-39	2650	2750	2210	100	2360	181	342	1267	1267	2198	1948	30	2550	1900	375	375	18

ADHBM Ceiling Installation Schematic Diagram



ADHBM Floor Installation Schematic Diagram



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ADHBM 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

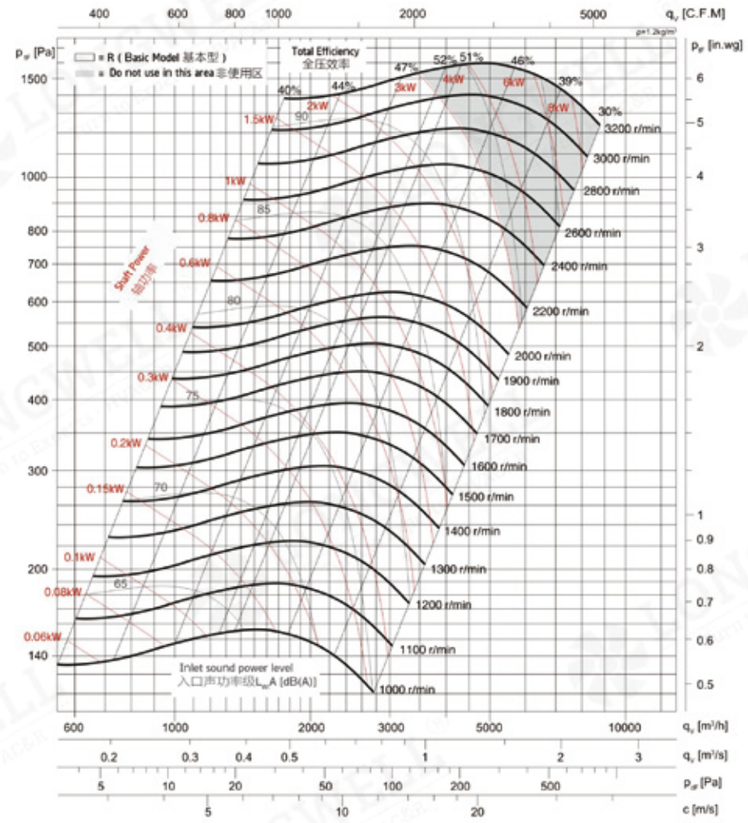
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
40%	-38	-31	-27	-28	-27	-28	-30	-36	dB(A)
44%	-41	-31	-26	-28	-27	-28	-30	-35	dB(A)
47%	-38	-32	-27	-28	-26	-27	-29	-34	dB(A)
52%	-36	-32	-28	-29	-26	-27	-29	-34	dB(A)
51%	-35	-33	-29	-29	-26	-27	-28	-33	dB(A)
46%	-37	-35	-30	-30	-26	-27	-27	-32	dB(A)
39%	-46	-37	-33	-32	-26	-26	-26	-30	dB(A)

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

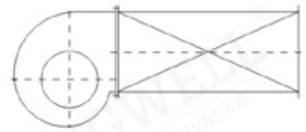
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
40%	-13	-8	-7	-8	-7	-8	-11	-17	dB(A)
44%	-15	-9	-6	-8	-7	-8	-11	-15	dB(A)
47%	-12	-10	-7	-9	-7	-8	-10	-15	dB(A)
52%	-9	-10	-9	-10	-7	-8	-10	-15	dB(A)
51%	-8	-11	-9	-10	-7	-8	-9	-14	dB(A)
46%	-9	-11	-11	-11	-6	-8	-8	-13	dB(A)
39%	-17	-11	-11	-12	-7	-6	-7	-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
200mm	0.015kg·m²	3200r/min	57kg

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ADHBM 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

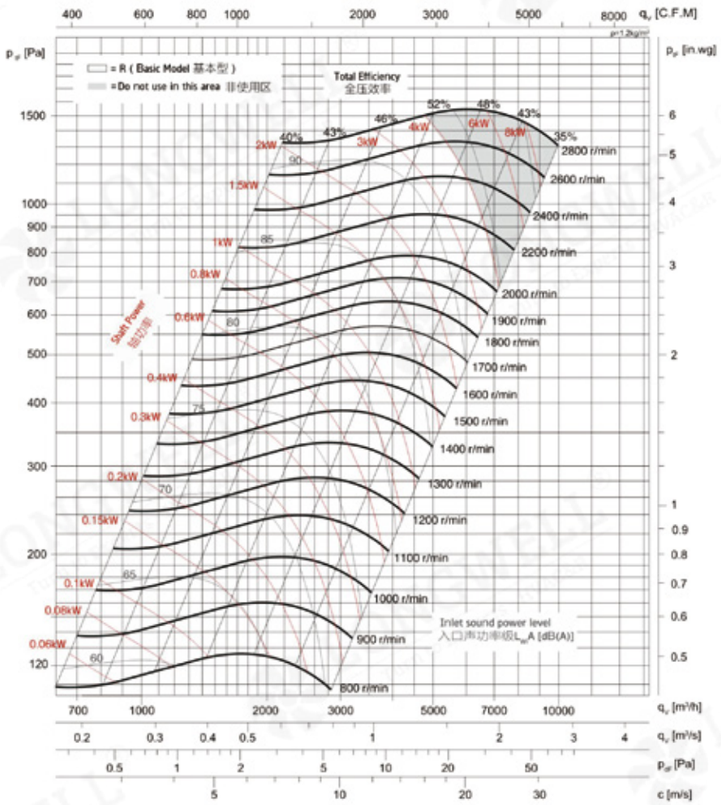
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
40%	-38	-31	-27	-28	-27	-28	-30	-36	dB(A)
43%	-41	-31	-26	-28	-27	-28	-30	-35	dB(A)
46%	-39	-32	-27	-28	-26	-27	-30	-34	dB(A)
52%	-36	-30	-28	-29	-26	-27	-29	-34	dB(A)
48%	-35	-35	-30	-30	-26	-27	-27	-32	dB(A)
43%	-44	-37	-32	-31	-26	-26	-26	-31	dB(A)
35%	-50	-38	-33	-32	-27	-26	-26	-30	dB(A)

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

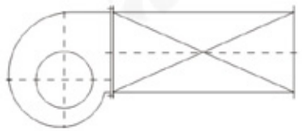
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
40%	-13	-8	-7	-8	-7	-8	-11	-17	dB(A)
43%	-15	-9	-6	-8	-7	-8	-11	-15	dB(A)
46%	-13	-9	-7	-9	-7	-8	-10	-15	dB(A)
52%	-9	-10	-9	-10	-7	-8	-10	-15	dB(A)
48%	-8	-13	-11	-11	-6	-8	-8	-13	dB(A)
43%	-15	-12	-11	-11	-6	-6	-7	-11	dB(A)
35%	-20	-12	-11	-12	-7	-6	-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
225mm	0.021kg·m²	2800r/min	62.5kg

ADHBM 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

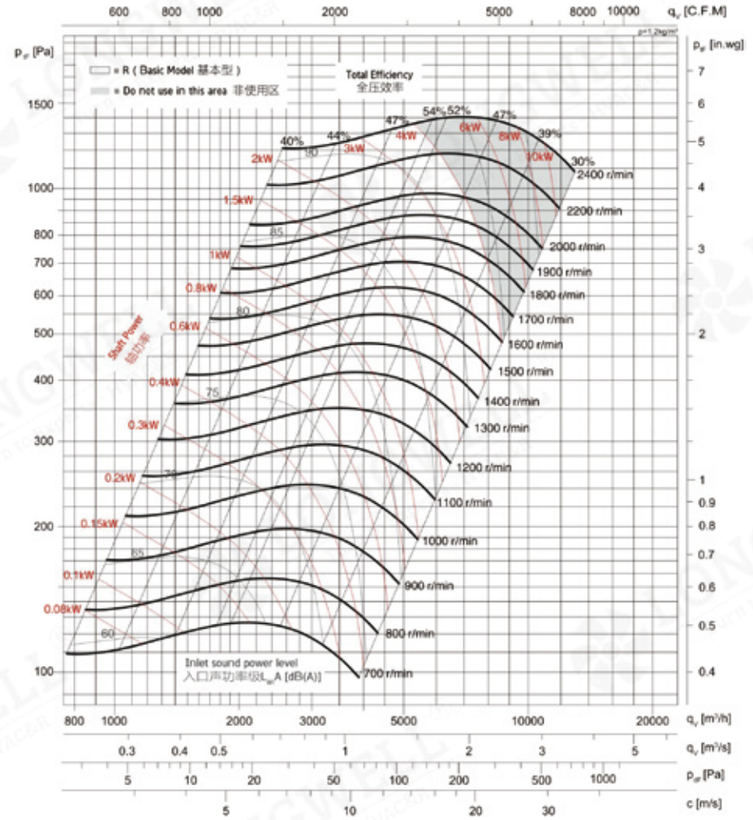
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
40%	-38	-31	-27	-28	-27	-28	-30	-36	dB(A)
44%	-41	-31	-26	-28	-27	-28	-30	-35	dB(A)
47%	-38	-32	-27	-28	-26	-27	-29	-34	dB(A)
52%	-36	-32	-28	-29	-26	-27	-29	-34	dB(A)
51%	-35	-33	-29	-29	-26	-27	-28	-33	dB(A)
46%	-38	-36	-31	-30	-26	-27	-27	-31	dB(A)
39%	-46	-37	-33	-32	-26	-26	-26	-30	dB(A)

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

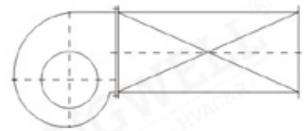
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
40%	-13	-8	-7	-8	-7	-8	-11	-17	dB(A)
44%	-15	-9	-6	-8	-7	-8	-11	-15	dB(A)
47%	-12	-10	-7	-9	-7	-8	-10	-15	dB(A)
52%	-9	-10	-9	-10	-7	-8	-10	-15	dB(A)
51%	-8	-11	-9	-10	-7	-8	-9	-14	dB(A)
46%	-10	-12	-11	-11	-6	-7	-7	-12	dB(A)
39%	-17	-11	-11	-12	-7	-6	-7	-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
250mm	0.038kg·m²	2400r/min	70kg

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ADHBM 11-11 Box-type Fan

Noise Spectrum

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

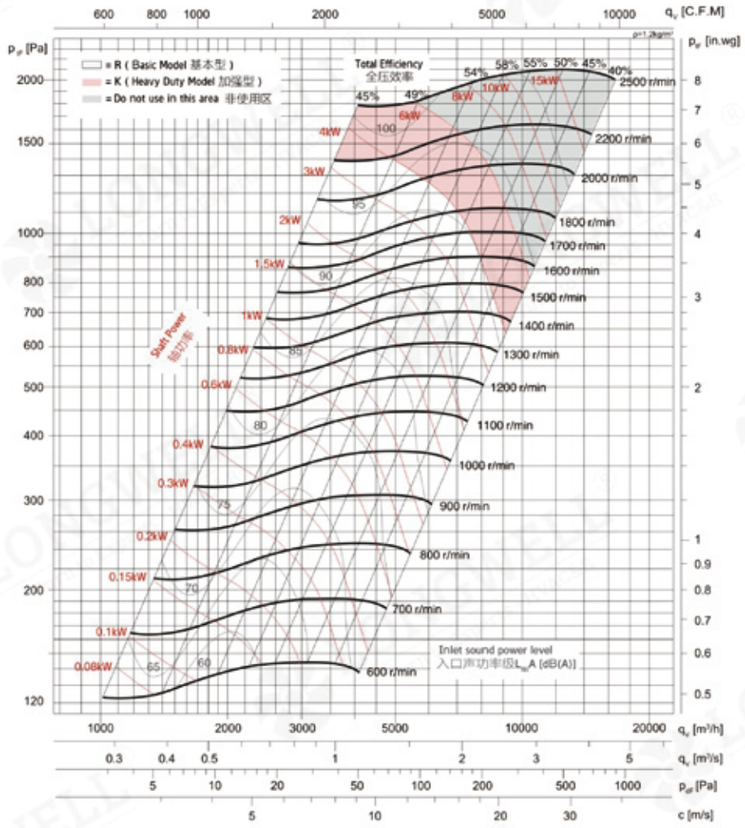
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-32	-22	-28	-33	-36	-34	-37	-47	dB(A)
49%	-31	-22	-28	-32	-32	-36	-38	-40	dB(A)
54%	-32	-23	-27	-31	-36	-35	-34	-44	dB(A)
58%	-29	-24	-27	-30	-34	-33	-35	-45	dB(A)
55%	-30	-22	-28	-33	-32	-34	-36	-41	dB(A)
50%	-31	-23	-28	-33	-32	-34	-35	-40	dB(A)
45%	-31	-23	-28	-32	-31	-33	-34	-38	dB(A)

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

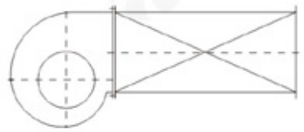
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-9	-2	-8	-13	-17	-15	-18	-28	dB(A)
49%	-9	-2	-9	-13	-13	-17	-19	-21	dB(A)
54%	-9	-3	-7	-11	-17	-15	-14	-24	dB(A)
58%	-6	-4	-8	-11	-15	-14	-16	-26	dB(A)
55%	-8	-2	-9	-14	-14	-16	-18	-23	dB(A)
50%	-8	-3	-9	-14	-13	-15	-16	-21	dB(A)
45%	-7	-3	-9	-13	-12	-14	-15	-19	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
280mm	0.06kg·m²	2500r/min	100kg

ADHBM 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

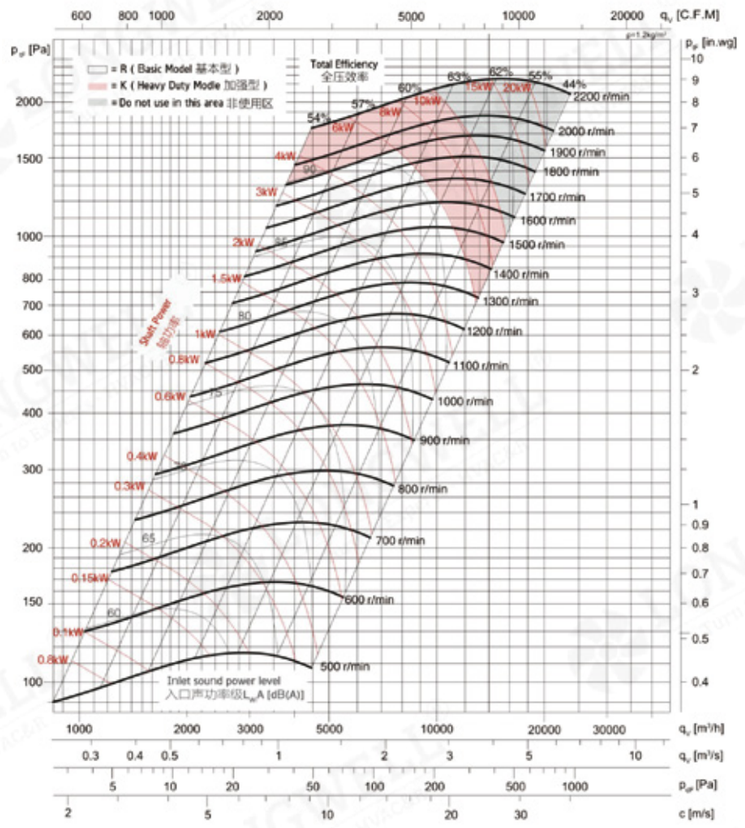
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
54%	-37	-27	-31	-27	-27	-28	-30	-38	dB(A)
57%	-38	-27	-31	-27	-27	-8	-30	-37	dB(A)
60%	-38	-27	-31	-27	-27	-28	-30	-37	dB(A)
63%	-47	-33	-34	-27	-25	-27	-28	-34	dB(A)
62%	-48	-32	-35	-28	-25	-27	-28	-34	dB(A)
55%	-49	-36	-37	-29	-25	-25	-27	-33	dB(A)
44%	-52	-37	-37	-31	-26	-25	-26	-33	dB(A)

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

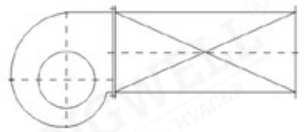
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
54%	-15	-5	-11	-7	-8	-9	-11	-18	dB(A)
57%	-15	-5	-11	-7	-8	-9	-11	-18	dB(A)
60%	-15	-5	-12	-7	-8	-9	-11	-18	dB(A)
63%	-20	-10	-14	-7	-5	-7	-9	-15	dB(A)
62%	-21	-9	-14	-7	-5	-7	-9	-15	dB(A)
55%	-21	-12	-15	-9	-5	-6	-8	-14	dB(A)
44%	-23	-11	-15	-11	-5	-5	-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
315mm	0.1kg·m²	2200r/min	142kg

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ADHBM 14-14 Box-type Fan

Noise Spectrum

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

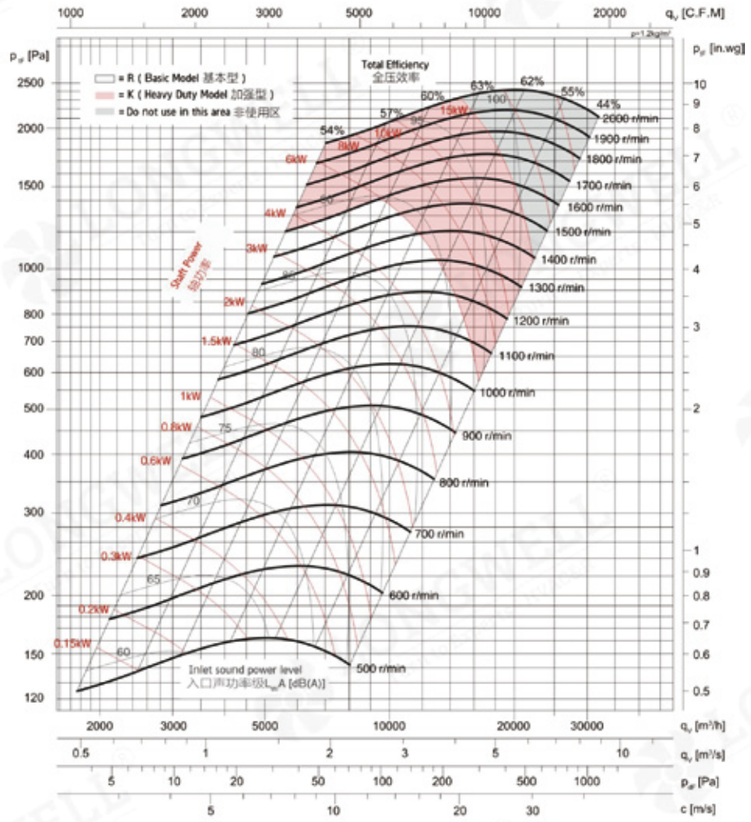
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
54%	-37	-27	-31	-27	-27	-28	-30	-38	dB(A)
57%	-38	-27	-31	-27	-27	-28	-30	-37	dB(A)
60%	-38	-27	-31	-27	-27	-28	-30	-37	dB(A)
63%	-47	-33	-34	-27	-25	-7	-28	-34	dB(A)
62%	-48	-32	-35	-28	-25	-27	-28	-34	dB(A)
55%	-49	-36	-37	-29	-25	-25	-27	-33	dB(A)
44%	-52	-37	-37	-31	-26	-25	-27	-33	dB(A)

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

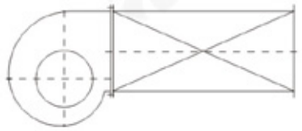
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
54%	-15	-5	-11	-7	-8	-9	-11	-18	dB(A)
57%	-15	-5	-12	-7	-8	-9	-11	-18	dB(A)
60%	-15	-5	-12	-7	-8	-9	-10	-17	dB(A)
63%	-20	-10	-14	-7	-5	-7	-9	-15	dB(A)
62%	-21	-9	-14	-7	-5	-7	-9	-15	dB(A)
55%	-21	-12	-15	-9	-5	-6	-8	-14	dB(A)
44%	-23	-11	-15	-11	-2	-5	-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
355mm	0.15kg·m²	2000r/min	173kg

ADHBM 16-16 Box-type Fan

Noise Spectrum

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

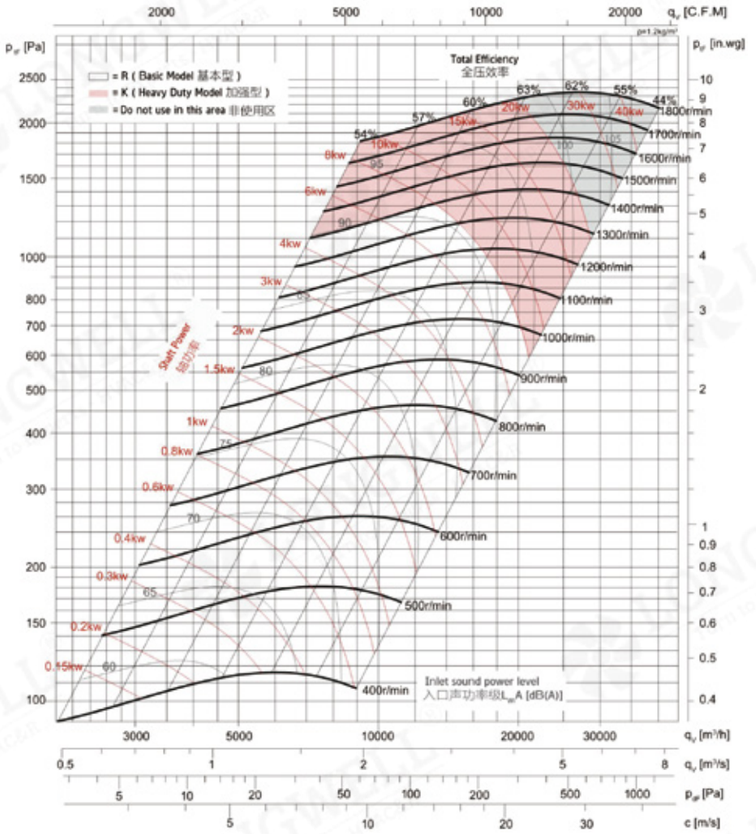
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
54%	-37	-27	-31	-27	-27	-28	-30	-38	dB(A)
57%	-38	-27	-31	-27	-27	-28	-30	-37	dB(A)
60%	-38	-27	-31	-27	-27	-28	-30	-37	dB(A)
63%	-47	-33	-34	-27	-25	-27	-28	-34	dB(A)
62%	-48	-32	-35	-28	-25	-27	-28	-34	dB(A)
55%	-49	-36	-37	-29	-25	-25	-27	-33	dB(A)
44%	-52	-38	-37	-31	-26	-25	-26	-33	dB(A)

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

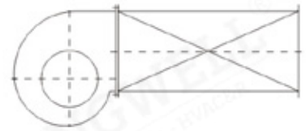
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
54%	-15	-5	-11	-7	-8	-9	-11	-18	dB(A)
57%	-15	-5	-12	-7	-8	-9	-11	-18	dB(A)
60%	-15	-5	-13	-7	-8	-9	-10	-17	dB(A)
63%	-20	-10	-14	-7	-5	-7	-9	-15	dB(A)
62%	-21	-9	-14	-7	-5	-7	-9	-15	dB(A)
55%	-21	-12	-15	-9	-5	-6	-8	-14	dB(A)
44%	-23	-12	-15	-11	-6	-5	-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
400mm	0.31kg·m²	1800r/min	210kg

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

ADHBM 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

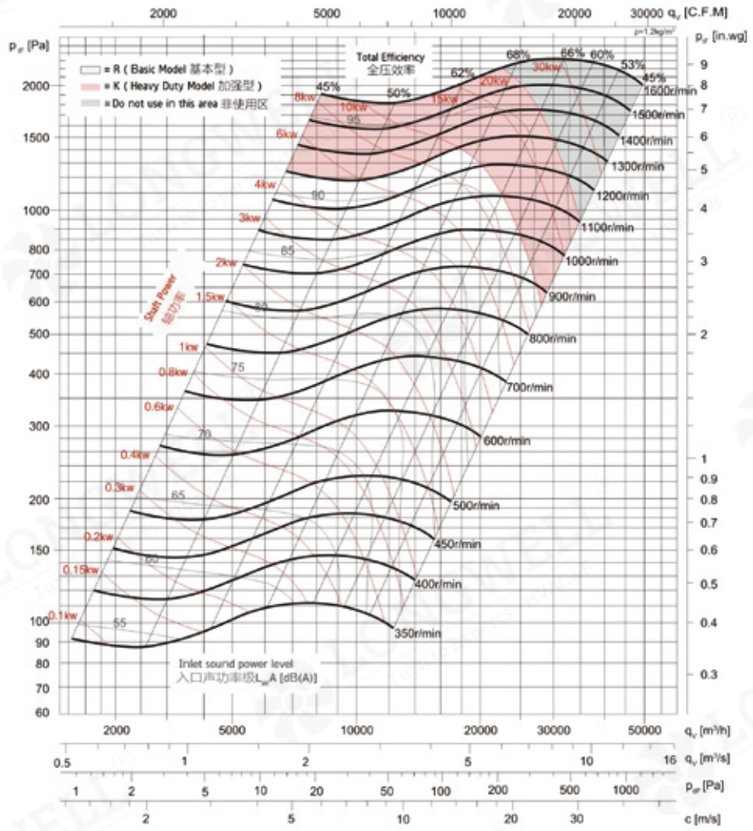
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-36	-29	-29	-26	-26	-28	-33	-38	dB(A)
50%	-36	-29	-29	-26	-27	-28	-32	-37	dB(A)
62%	-39	-29	-30	-26	-27	-28	-30	-37	dB(A)
68%	-46	-35	-33	-24	-27	-27	-29	-36	dB(A)
66%	-47	-36	-34	-24	-27	-27	-29	-36	dB(A)
60%	-49	-37	-35	-25	-27	-26	-29	-36	dB(A)
53%	-51	-38	-36	-26	-26	-26	-28	-35	dB(A)

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

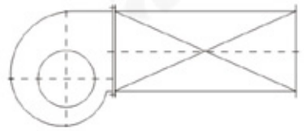
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-11	-7	-9	-7	-7	-9	-14	-19	dB(A)
50%	-10	-7	-9	-7	-8	-9	-13	-18	dB(A)
62%	-13	-7	-10	-6	-8	-9	-11	-18	dB(A)
68%	-17	-9	-12	-5	-8	-8	-10	-17	dB(A)
66%	-18	-10	-12	-5	-8	-8	-10	-17	dB(A)
60%	-20	-11	-14	-5	-7	-6	-9	-16	dB(A)
53%	-22	-12	-14	-6	-7	-6	-9	-16	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
450mm	0.48kg·m²	1600r/min	268kg

ADHBM 20-20 Box-type Fan

Noise Spectrum

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

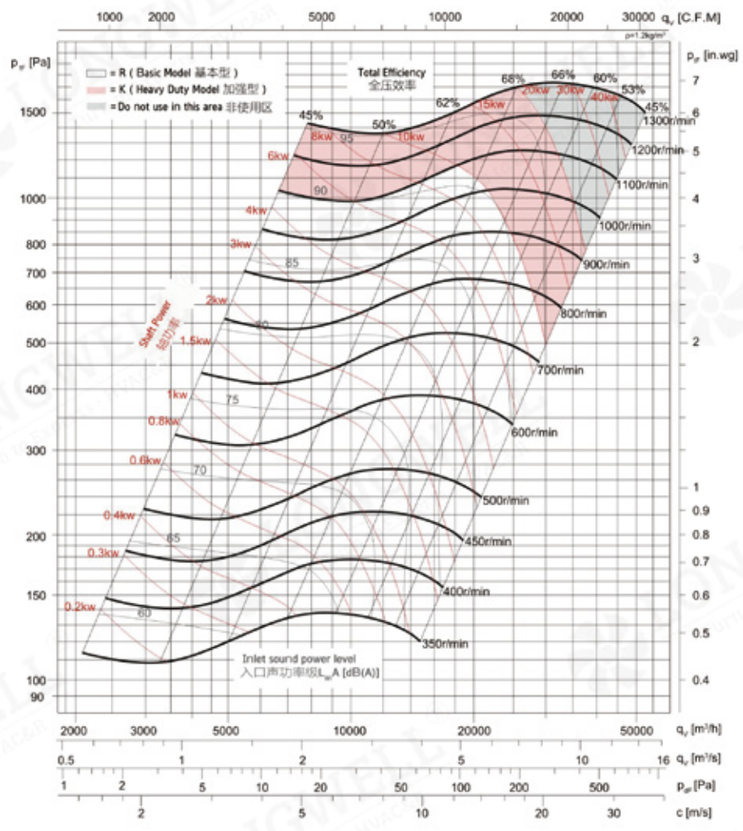
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-36	-29	-29	-26	-26	-28	-33	-38	dB(A)
50%	-36	-29	-29	-26	-27	-28	-32	-37	dB(A)
62%	-39	-29	-30	-26	-27	-28	-30	-37	dB(A)
68%	-46	-35	-33	-24	-27	-27	-29	-36	dB(A)
66%	-47	-36	-34	-24	-27	-27	-29	-36	dB(A)
60%	-49	-37	-35	-25	-27	-26	-29	-36	dB(A)
53%	-51	-38	-36	-26	-26	-26	-28	-35	dB(A)

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

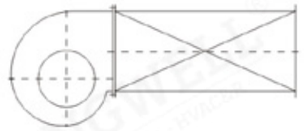
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-11	-7	-9	-7	-7	-9	-14	-19	dB(A)
50%	-10	-7	-9	-7	-8	-9	-13	-18	dB(A)
62%	-13	-7	-10	-6	-8	-9	-11	-18	dB(A)
68%	-17	-9	-12	-5	-8	-8	-10	-17	dB(A)
66%	-18	-10	-12	-5	-8	-8	-10	-17	dB(A)
60%	-20	-11	-14	-5	-7	-6	-9	-16	dB(A)
53%	-22	-12	-14	-6	-7	-6	-9	-16	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
500mm	0.9kg·m²	1300r/min	305kg

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

ADHBM 22-22 Box-type Fan

Noise Spectrum

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

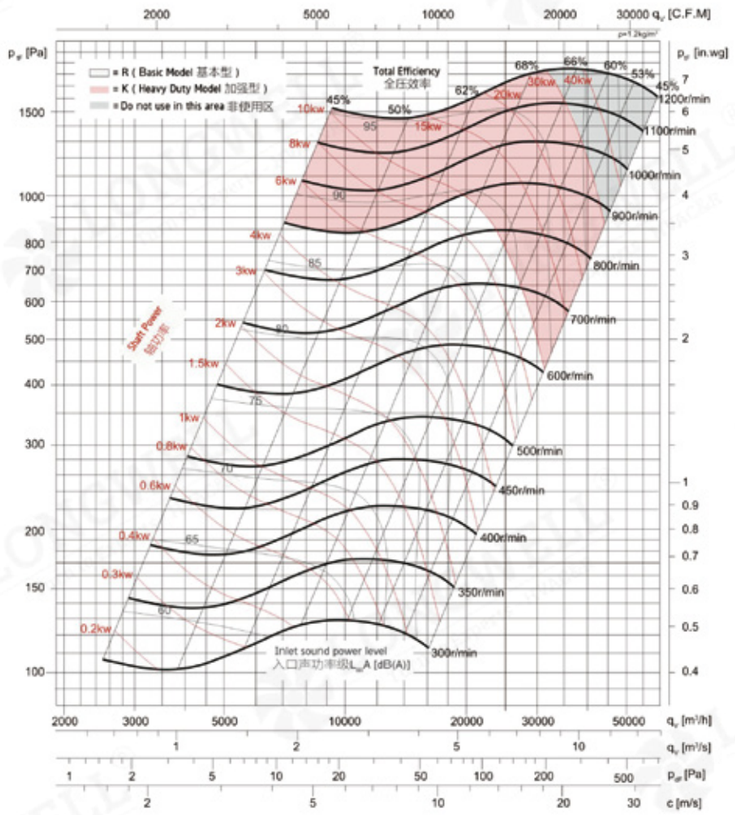
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-36	-29	-29	-26	-26	-28	-33	-38	dB(A)
50%	-36	-29	-29	-26	-27	-28	-32	-37	dB(A)
52%	-39	-29	-30	-26	-27	-28	-30	-37	dB(A)
68%	-46	-35	-33	-24	-27	-27	-29	-36	dB(A)
66%	-47	-36	-34	-24	-27	-27	-29	-36	dB(A)
60%	-49	-37	-35	-25	-27	-26	-29	-36	dB(A)
53%	-51	-38	-36	-26	-26	-26	-28	-35	dB(A)

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

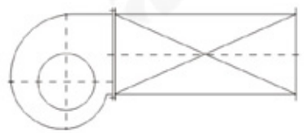
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-11	-7	-9	-7	-7	-9	-14	-19	dB(A)
50%	-10	-7	-9	-7	-8	-9	-13	-18	dB(A)
52%	-14	-7	-10	-6	-7	-8	-10	-17	dB(A)
68%	-17	-9	-12	-5	-8	-8	-10	-17	dB(A)
66%	-18	-10	-12	-5	-8	-8	-10	-17	dB(A)
60%	-20	-11	-14	-5	-7	-6	-19	-16	dB(A)
53%	-22	-12	-14	-6	-7	-6	-19	-16	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
560mm	1.66kg·m²	1200r/min	435kg

ADHBM 24-24 Box-type Fan

Noise Spectrum

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

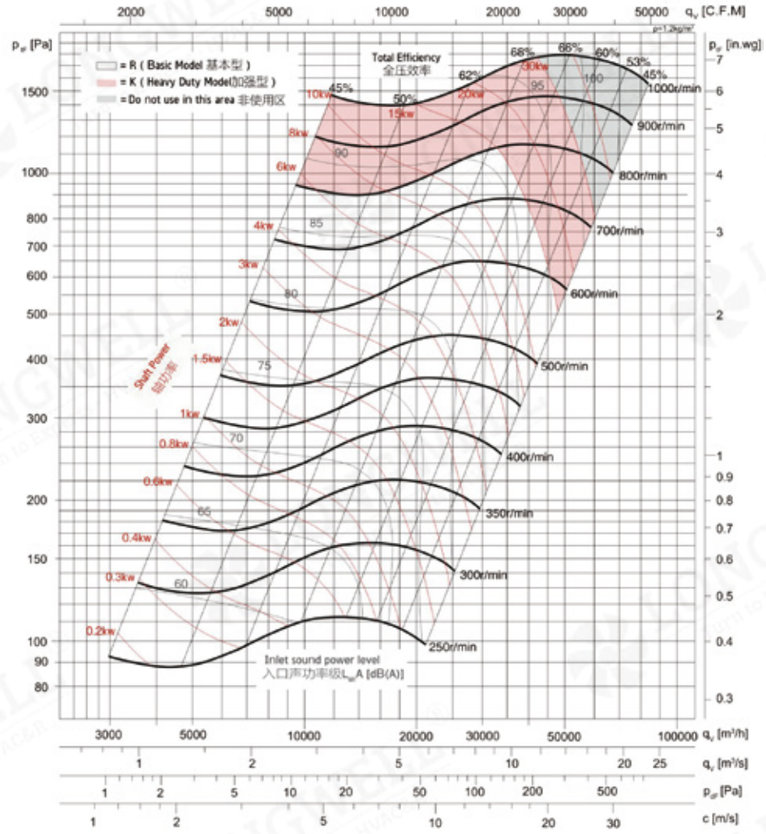
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-36	-29	-29	-26	-26	-28	-33	-38	dB(A)
50%	-36	-29	-29	-26	-27	-28	-32	-37	dB(A)
62%	-39	-29	-30	-26	-27	-28	-30	-37	dB(A)
68%	-46	-35	-33	-24	-27	-27	-29	-36	dB(A)
66%	-47	-36	-34	-24	-27	-27	-29	-36	dB(A)
60%	-49	-37	-35	-25	-27	-26	-29	-36	dB(A)
53%	-51	-38	-36	-26	-26	-26	-28	-35	dB(A)

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

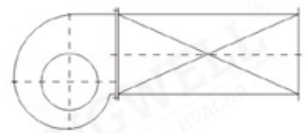
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-11	-7	-9	-7	-7	-9	-14	-19	dB(A)
50%	-10	-7	-9	-7	-8	-9	-13	-18	dB(A)
62%	-14	-7	-10	-6	-7	-8	-10	-17	dB(A)
68%	-17	-9	-12	-5	-8	-8	-10	-17	dB(A)
66%	-18	-10	-12	-5	-8	-8	-10	-17	dB(A)
60%	-20	-11	-14	-5	-7	-6	-9	-16	dB(A)
53%	-22	-12	-14	-6	-7	-6	-9	-16	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
630mm	2.15kg·m²	1000r/min	480kg

ADHBM 28-28 Box-type Fan

Noise Spectrum

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

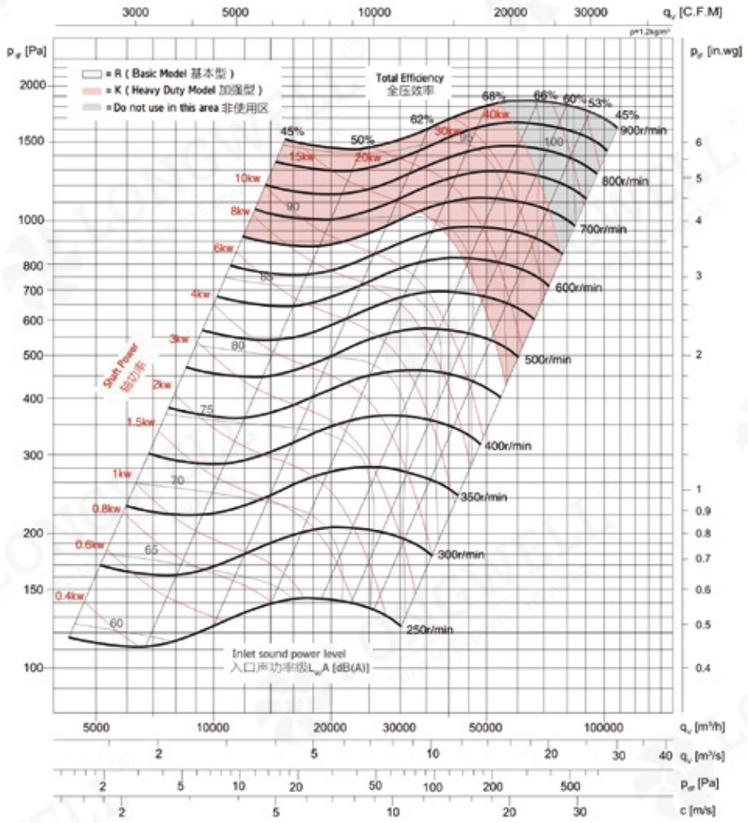
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-36	-29	-29	-26	-26	-28	-33	-38	dB(A)
50%	-36	-29	-29	-26	-27	-28	-32	-37	dB(A)
62%	-39	-29	-30	-26	-27	-28	-32	-37	dB(A)
68%	-46	-35	-33	-24	-27	-27	-29	-36	dB(A)
66%	-47	-36	-34	-24	-27	-27	-29	-36	dB(A)
60%	-49	-37	-35	-25	-27	-26	-29	-36	dB(A)
53%	-51	-38	-36	-26	-26	-26	-28	-35	dB(A)

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

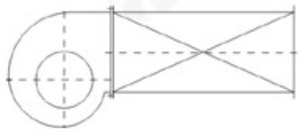
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
45%	-11	-7	-9	-7	-7	-9	-14	-19	dB(A)
50%	-10	-7	-9	-8	-8	-9	-13	-18	dB(A)
62%	-14	-7	-10	-7	-7	-8	-10	-17	dB(A)
68%	-17	-9	-12	-8	-8	-8	-10	-17	dB(A)
66%	-18	-10	-12	-8	-8	-8	-10	-17	dB(A)
60%	-20	-11	-14	-7	-7	-6	-9	-16	dB(A)
53%	-22	-12	-14	-7	-7	-6	-9	-16	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
710mm	4.02kg·m²	900r/min	670kg

ADHBM 32-32 Box-type Fan

Noise Spectrum

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

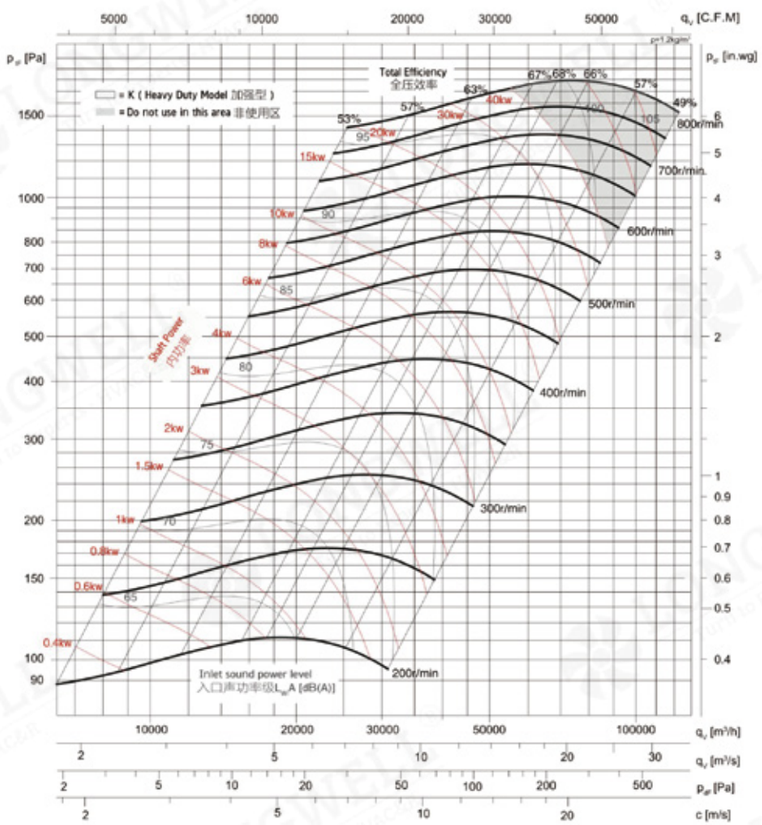
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
53%	-37	-29	-29	-26	-27	-28	-31	-37	dB(A)
57%	-38	-29	-29	-26	-27	-28	-31	-37	dB(A)
63%	-39	-29	-30	-26	-27	-28	-30	-37	dB(A)
67%	-43	-32	-32	-25	-27	-27	-29	-36	dB(A)
68%	-46	-35	-33	-24	-27	-27	-29	-36	dB(A)
66%	-47	-36	-34	-24	-27	-27	-29	-36	dB(A)
57%	-50	-32	-36	-25	-26	-26	-28	-35	dB(A)

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

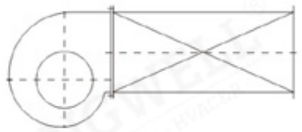
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
53%	-12	-7	-9	-6	-8	-9	-12	-18	dB(A)
57%	-12	-7	-10	-6	-8	-9	-11	-18	dB(A)
63%	-14	-7	-10	-6	-7	-8	-10	-17	dB(A)
67%	-14	-7	-11	-6	-8	-9	-11	-18	dB(A)
68%	-17	-9	-12	-5	-8	-8	-10	-17	dB(A)
66%	-18	-10	-12	-5	-7	-8	-10	-17	dB(A)
57%	-21	-12	-14	-6	-7	-6	-9	-16	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
800mm	8.31kg·m²	800r/min	750kg

ADHBM 35-35 Box-type Fan

Noise Spectrum

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

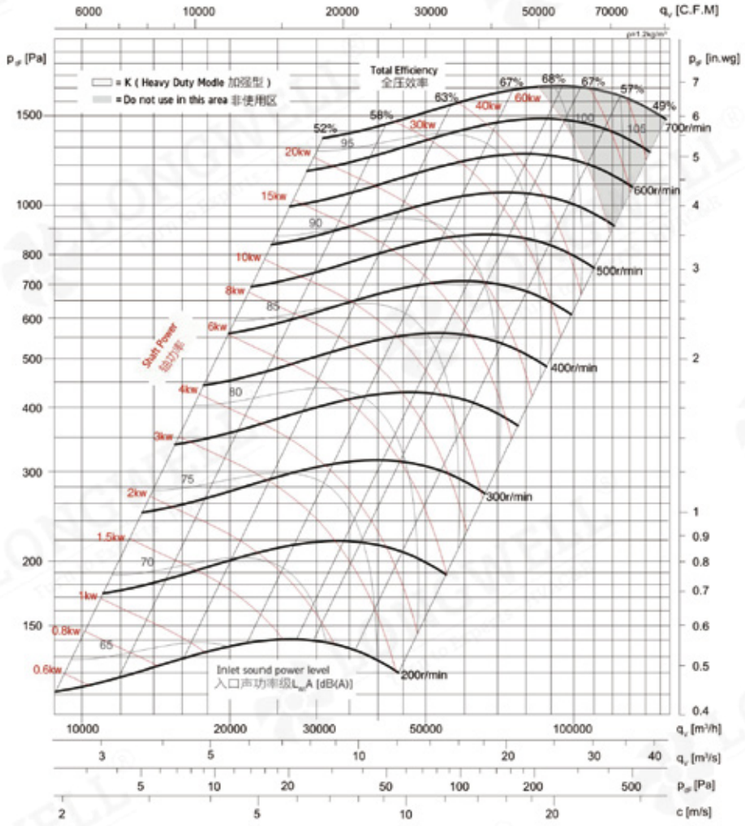
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
53%	-36	-29	-29	-26	-27	-28	-32	-37	dB(A)
57%	-38	-29	-30	-26	-27	-28	-31	-37	dB(A)
63%	-39	-29	-30	-26	-27	-28	-30	-37	dB(A)
67%	-43	-32	-32	-25	-27	-27	-29	-36	dB(A)
68%	-46	-35	-33	-24	-27	-27	-29	-36	dB(A)
66%	-47	-36	-34	-24	-27	-27	-29	-36	dB(A)
57%	-5	-38	-36	-25	-26	-26	-28	-35	dB(A)

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

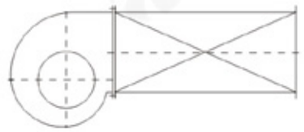
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
53%	-11	-7	-9	-6	-8	-9	-12	-18	dB(A)
57%	-12	-7	-10	-6	-8	-9	-11	-18	dB(A)
63%	-14	-7	-10	-6	-7	-8	-10	-17	dB(A)
67%	-15	-8	-11	-5	-8	-8	-10	-17	dB(A)
68%	-17	-10	-10	-5	-8	-8	-10	-17	dB(A)
66%	-18	-10	-13	-5	-8	-8	-10	-17	dB(A)
57%	-21	-12	-14	-6	-7	-6	-9	-16	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
900mm	12.7kg·m²	700r/min	985kg

ADHBM 39-39 Box-type Fan

Noise Spectrum

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

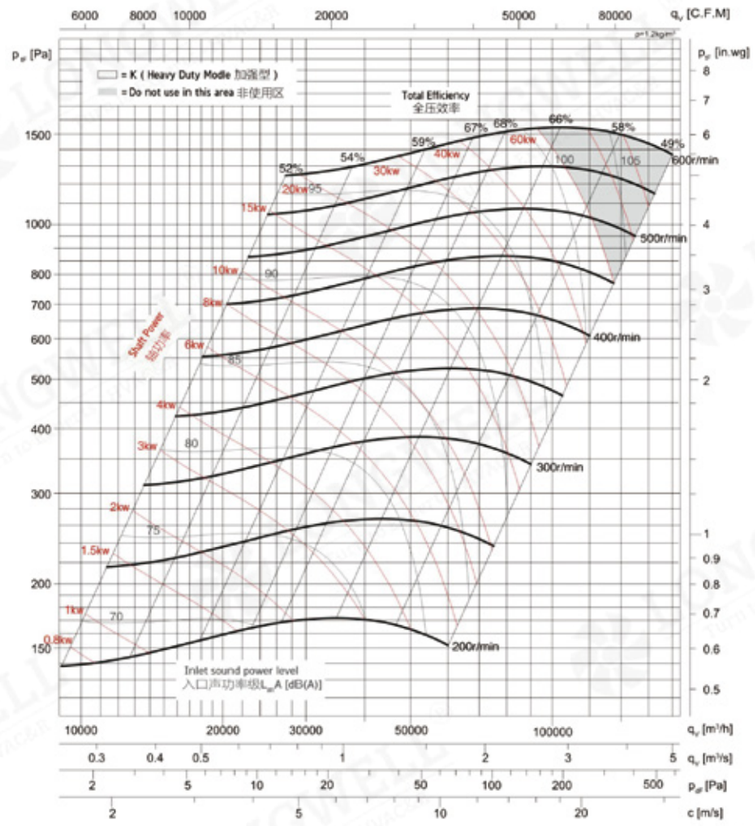
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
52%	-36	-29	-29	-26	-27	-28	-32	-37	dB(A)
54%	-36	-29	-29	-26	-27	-28	-32	-37	dB(A)
63%	-38	-29	-30	-26	-27	-28	-31	-37	dB(A)
67%	-42	-32	-31	-25	-27	-27	-30	-36	dB(A)
68%	-46	-35	-33	-24	-27	-27	-29	-36	dB(A)
66%	-47	-36	-34	-24	-27	-27	-29	-36	dB(A)
57%	-50	-38	-36	-25	-26	-26	-28	-35	dB(A)

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

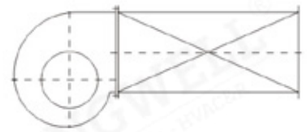
Total Efficiency	63	125	250	500	1000	2000	4000	8000	Hz
52%	-11	-7	-9	-6	-8	-9	-12	-18	dB(A)
54%	-11	-7	-9	-7	-8	-9	-15	-18	dB(A)
63%	-13	-7	-10	-6	-8	-9	-11	-18	dB(A)
67%	-14	-8	-10	-5	-8	-8	-11	-17	dB(A)
68%	-17	-10	-10	-5	-8	-8	-10	-17	dB(A)
66%	-18	-10	-13	-5	-8	-8	-10	-17	dB(A)
57%	-21	-12	-14	-6	-6	-6	-9	-16	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
1000mm	18.9kg·m²	600r/min	1150kg