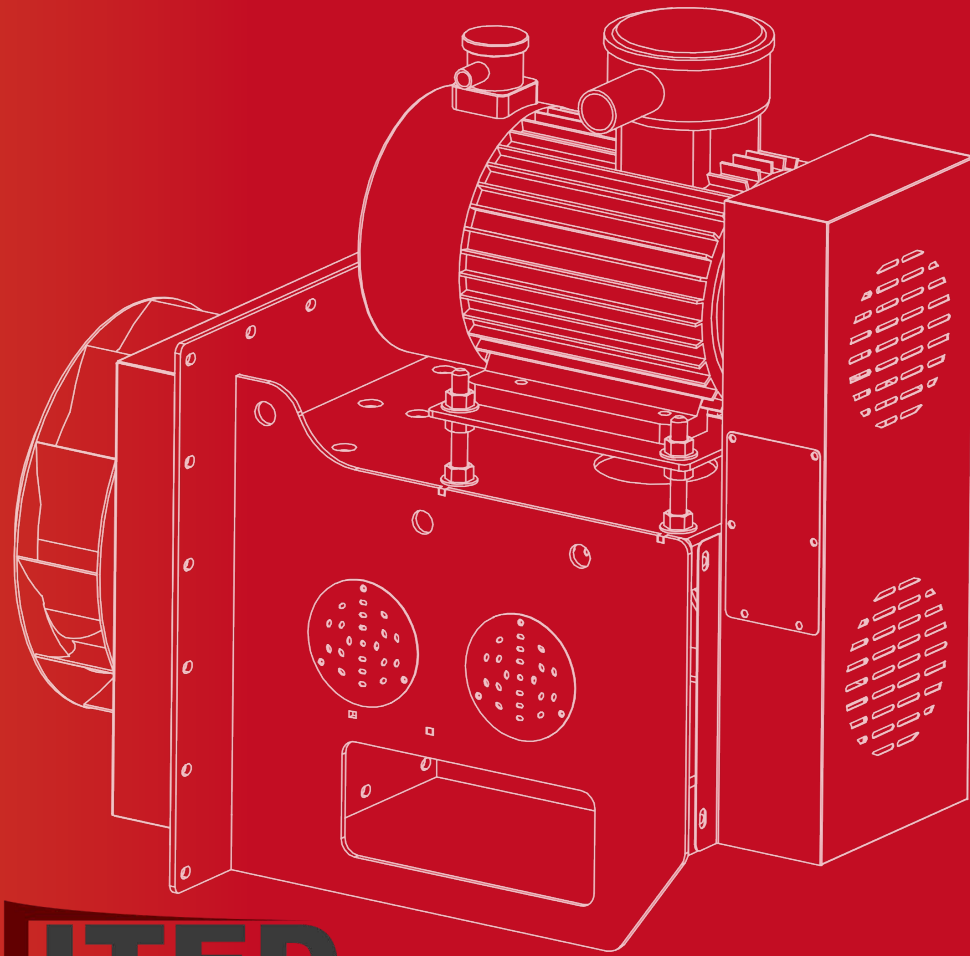


MACHINE COOPERATOR



UNITED
POWERING WITH SAFETY

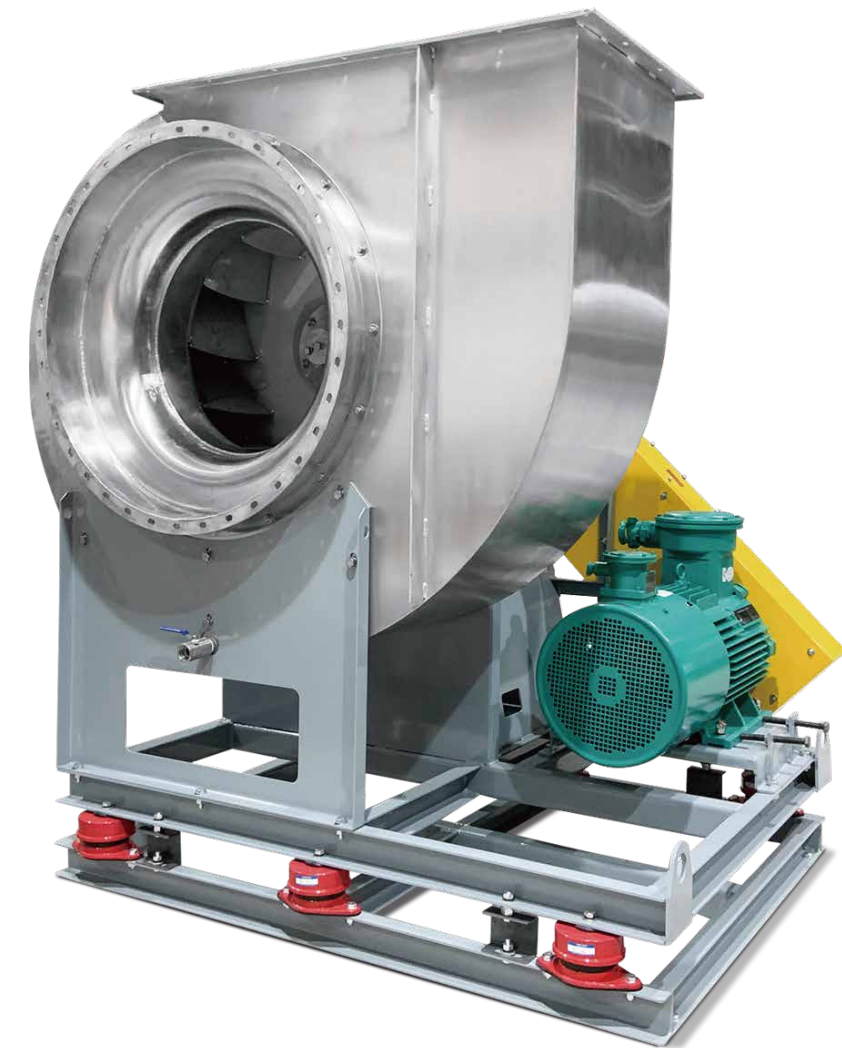





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CBA

CENTRIFUGAL FAN



CBA Centrifugal Blowers are designed to provide efficient and reliable operation for commercial and extractive industry. Our products are manufactured with state of the art laser, forming,spinning and welding equipment and ensure our quality control testing to ensure trouble free start-up. Our CBA Centrifugal Blowers are including industry leading design features to ensure your ventilation equipment has the latest technologies available

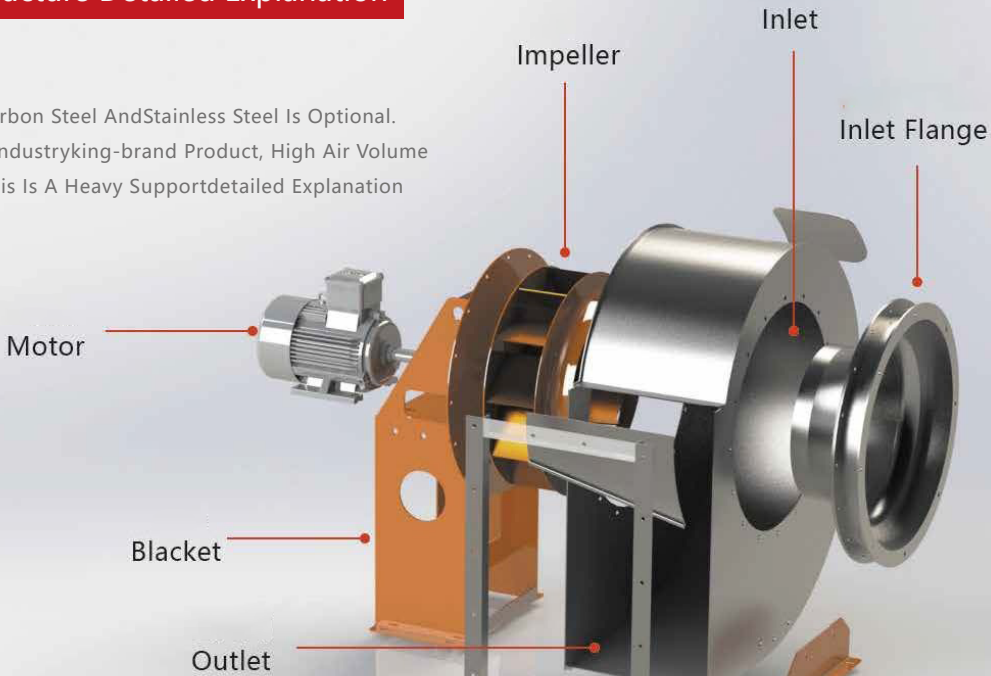
Main feature with CBA Centrifugal Blower

- Concentric mount bearings with industry’s highest cataloged bearing life
- Full mold, full welded structure
- Co rrosion resistant, electrostatically applied and baked powder coatings
- Both belt and direct drive configurations
- Different motor brackets



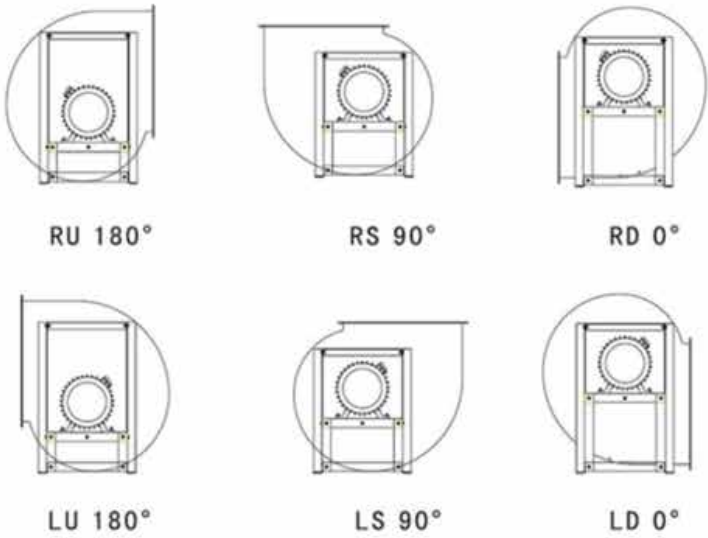
CBA Series Structure Detailed Explanation

CBA-BA series:
 Direct Drive Mode, Carbon Steel AndStainless Steel Is Optional.
 Under Cks Fangyuan Industryking-brand Product, High Air Volume
 And High Pressure. This Is A Heavy Supportdetailed Explanation
 Of Frame Renderings



Standard design of air outlet

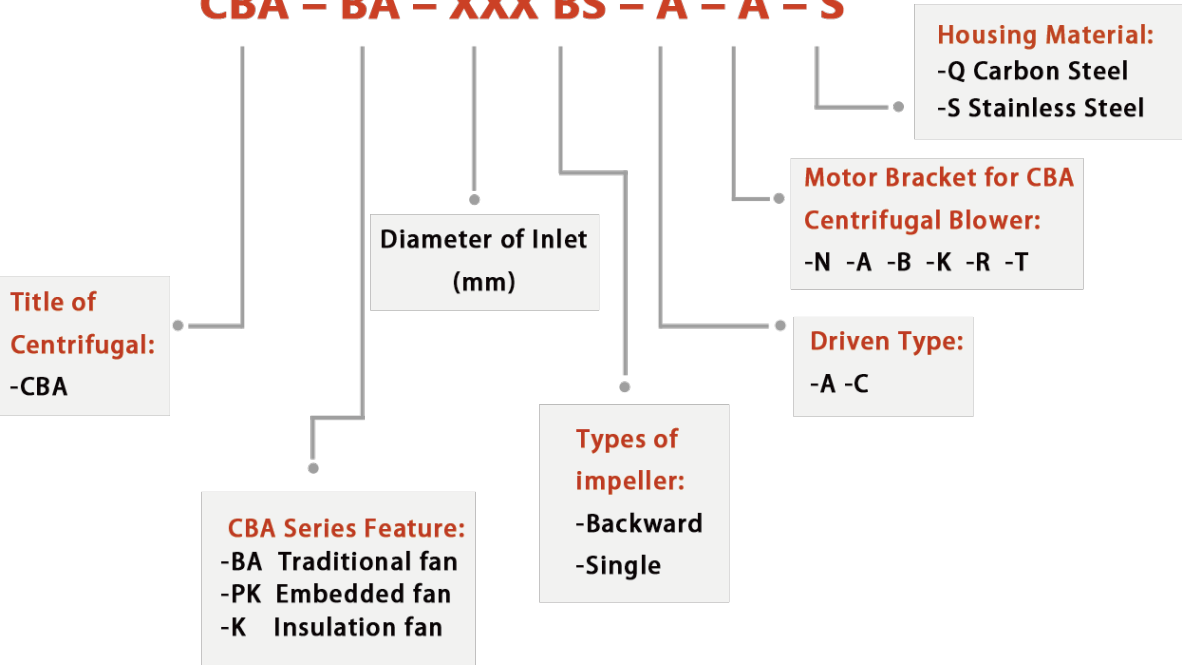
All centrifugal fans in the industry can rotate clockwise or counterclockwise. Non-standard air outlet designs can also be produced.



Every CBA Has Been Test For Three Different Planes Before Package. Typical application includes:

- New energy
- Corrosive and explosive gas emissions
- High temperature gas emission
- Environmental protection equipment

CBA – BA – XXX BS – A – A – S



PREMIUM GRADE BEARINGS



To Ensure Smooth Operation And For The Bearing Ring And Fan The Shaft Connection Provides A Strong Clamping Force. The Basic Fatigue Life Of All Selected Bearings Is Under The L(10) Level More Than 80,000 Hours. For More Demanding Applica-tions, Also Provide Fatigue Bearings Whose Strength Exceeds 2000,000 Hours Under The L(10) Rating. Nks Bearings Used In Wind Turbines Can Be Maintenance-free.

	L ₍₁₀₎ Life span	Equivalent to L ₍₅₀₎ or average lifespan
Industry standard	40000 h	200000 h
Aozhong Fan Standard	80000 h	400000 h
Aozhong fan upgrade	200000h	1000000 h

STANDARD STRUCTURE CHARACTERISTICS



BACKWARD IMPELLER

All impellers of Fan have passed the balance level test and reach the international G4.0 level. The impeller is advanced welded by GSK powerful arm manipulator, and undergoes strict quality control to ensure the efficient and quiet operation of the fan.

LEAKING OIL HOLE



ACCESS DOOR

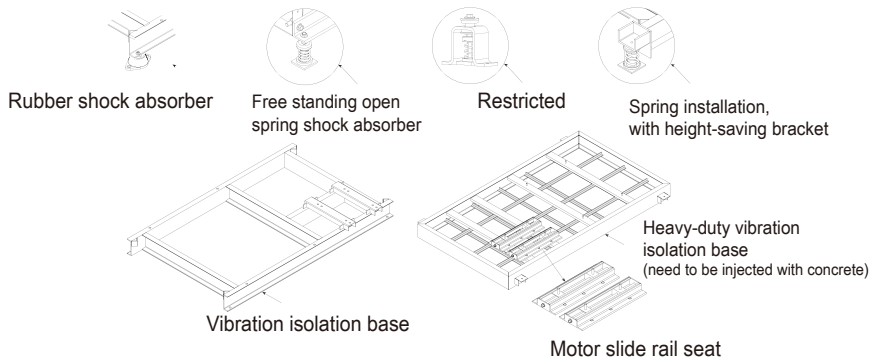


BELT DRIVE



SHOCK ABSORBER AND VIBRATION ISOLATION BASE

Provide complete components including structural steel vibration isolation base and shock absorbers to simplify on-site assembly and reduce vibration transmission. All vibration isolation bases include a motor sliding base that can adjust the belt tension. In addition, a base with a height-saving bracket can be selected to reduce the height of the base and the center of gravity of the fan relative to the installation plane.

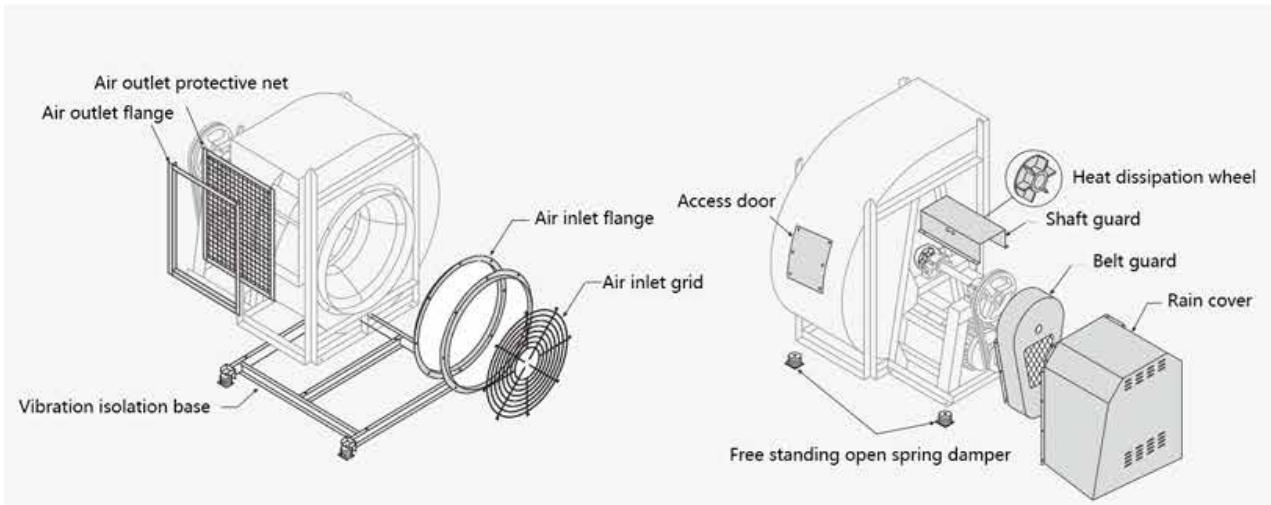


VIBRATION ANALYSIS

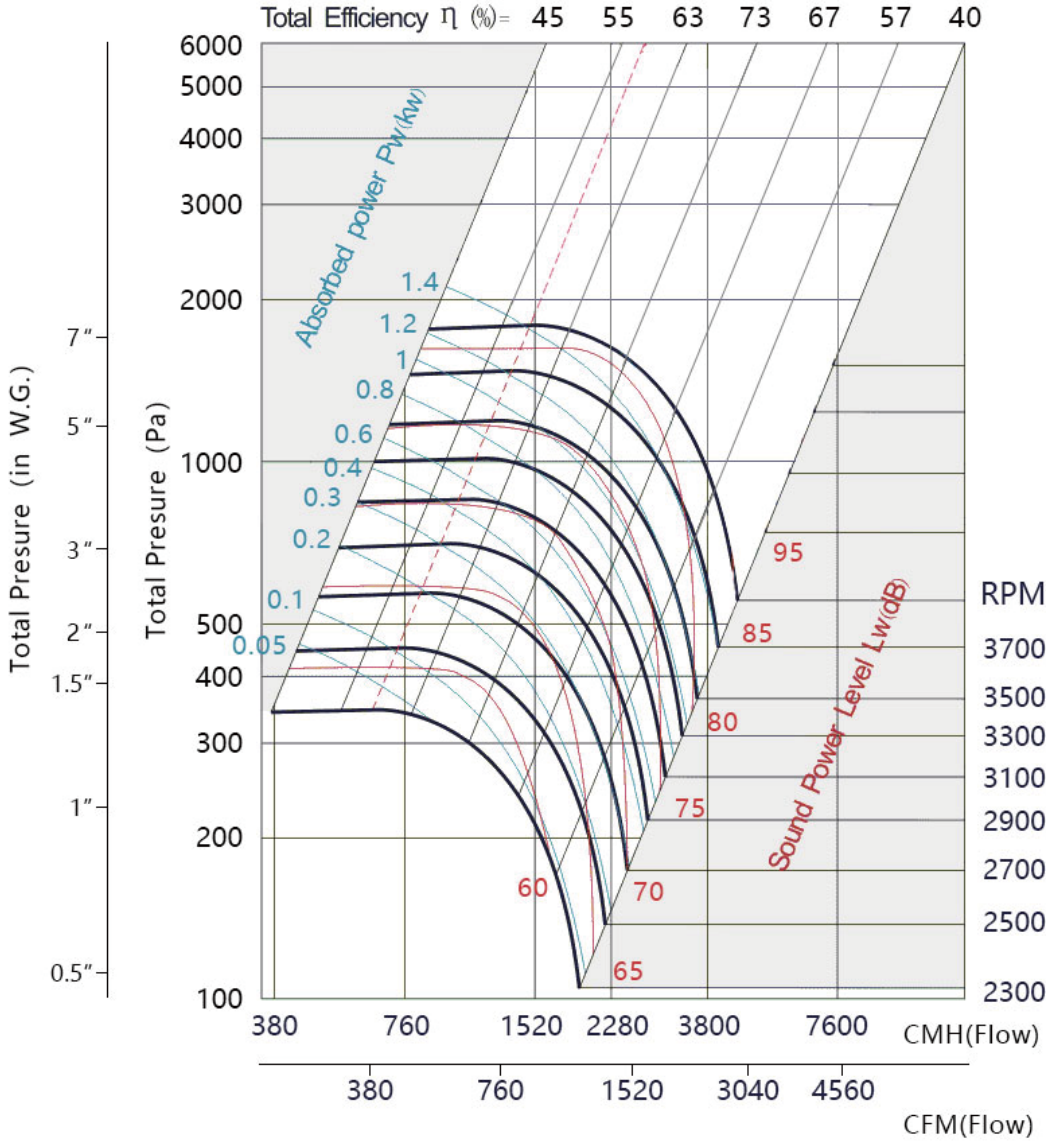
All will undergo a comprehensive mechanical vibration test after assembly. Our specially designed data acquisition system uses a three-axis accelerometer to measure the three-plane vibration value at the design speed. Each of our wind turbines permanently save performance records, and can be recalled as needed. The standard filtration value vibration level reached by the product complies with AMCA standard 204-05 "Blower balance quality and vibration level".

MODEL	DRIVE TYPE	FILTER VALUE VIBRATION ONLINE (RIGID INSTALLATION)
CBA	BELT DRIVE	3.81 mm/sec-pk

CENTRIFUGAL FAN ACCESSORIES

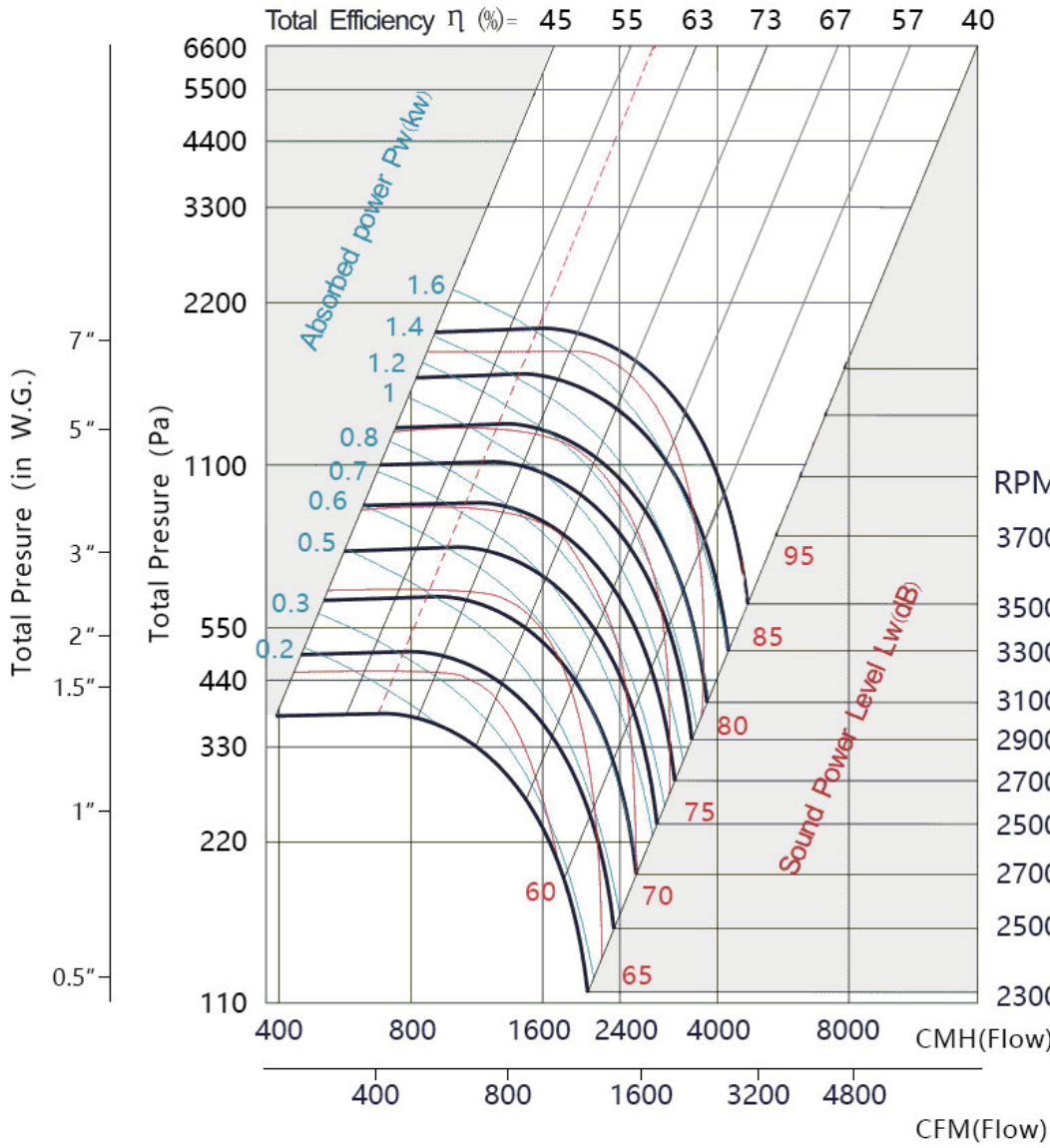


CBA250 (10 ")



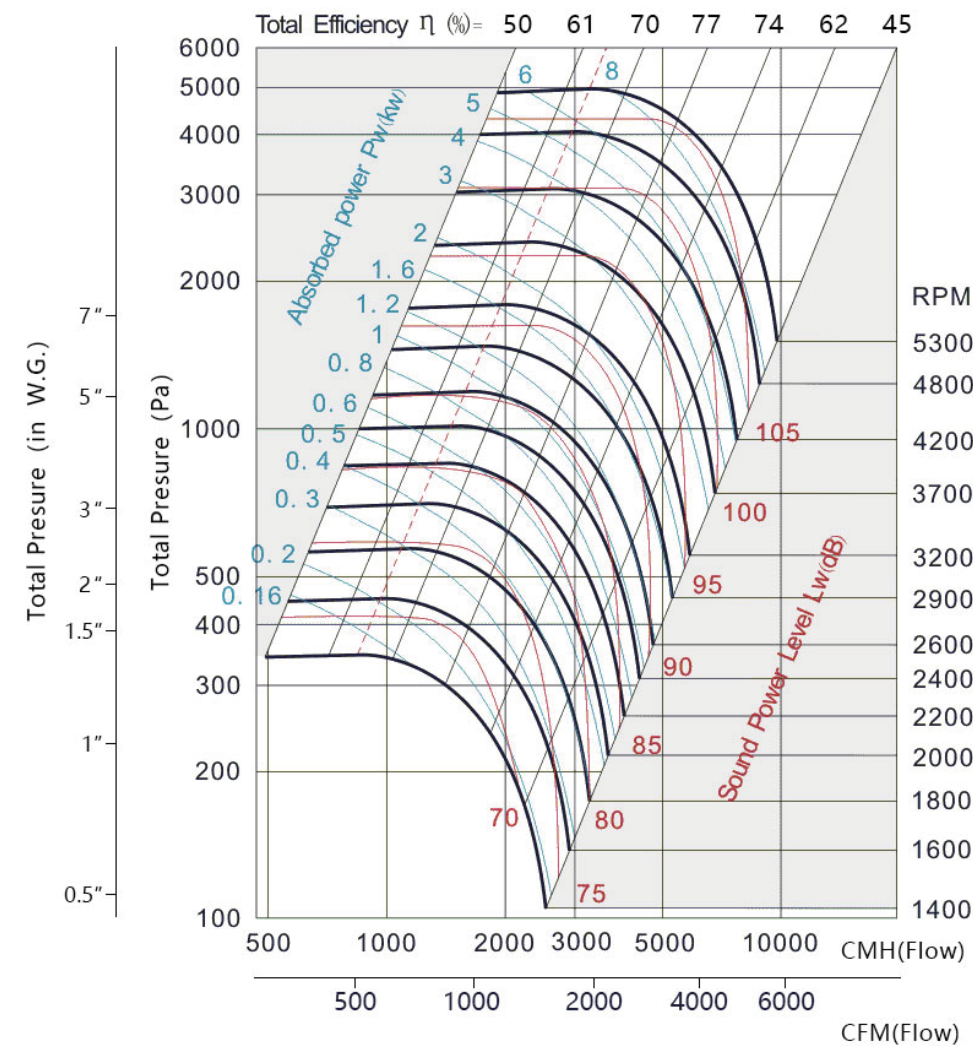
Model	Rotation Speed	Power	Voltage/Frequency	CFM	T.P	S.P
CBA03(250)	3420	1HP	380V/60Hz	665	5.2	5.1
				932	5.1	4.7
				1012	4.9	4.5
				1105	4.6	4.1
				1240	4.2	3.6
				1265	4.0	3.4
				1377	3.3	2.6
				1480	2.9	2.0

CBA280 (11 ")



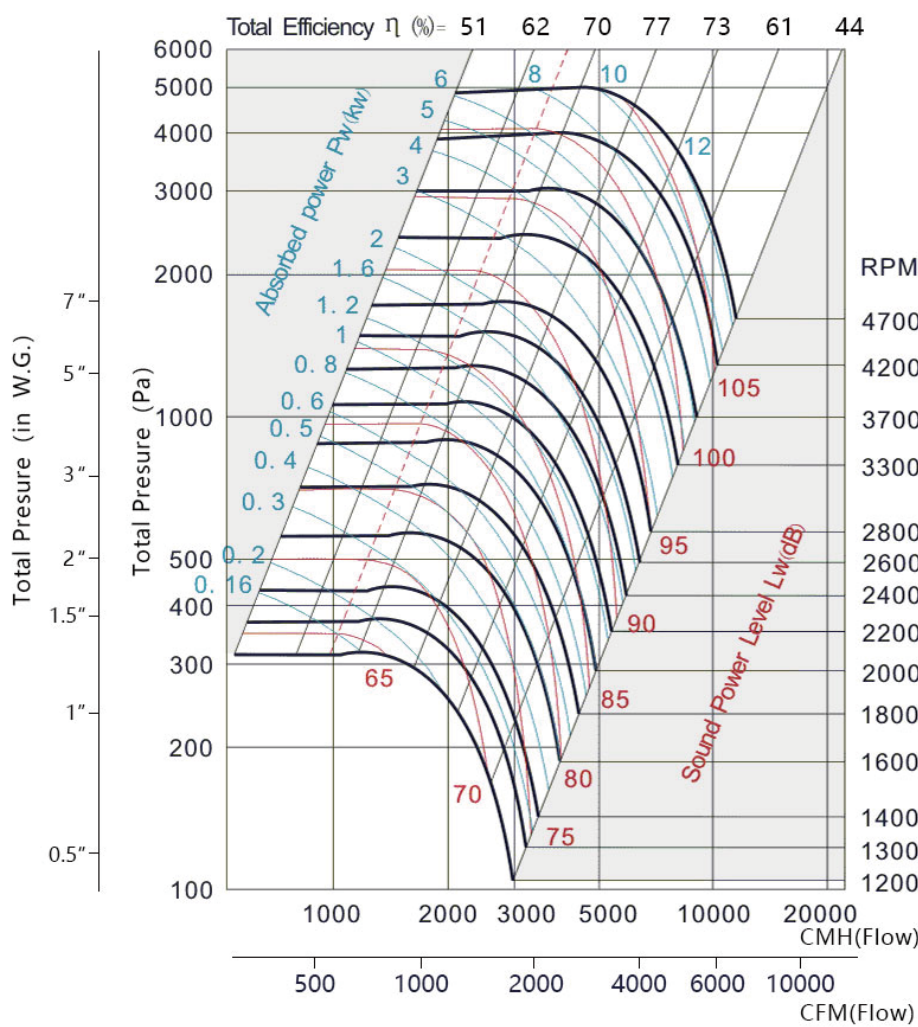
Model	Rotation Speed	Power	Voltage/Frequency	CFM	T.P	S.P
CBA05(280)	3420	2HP	380V/60Hz	389	9.4	9.4
				1110	9.4	9.1
				1525	8.2	7.7
				2355	6.7	5.3
				2541	5.7	4.0
				2753	4.8	2.9
				2880	3.3	1.2
				2965	2.3	0.1

CBA315 (12.5 ")



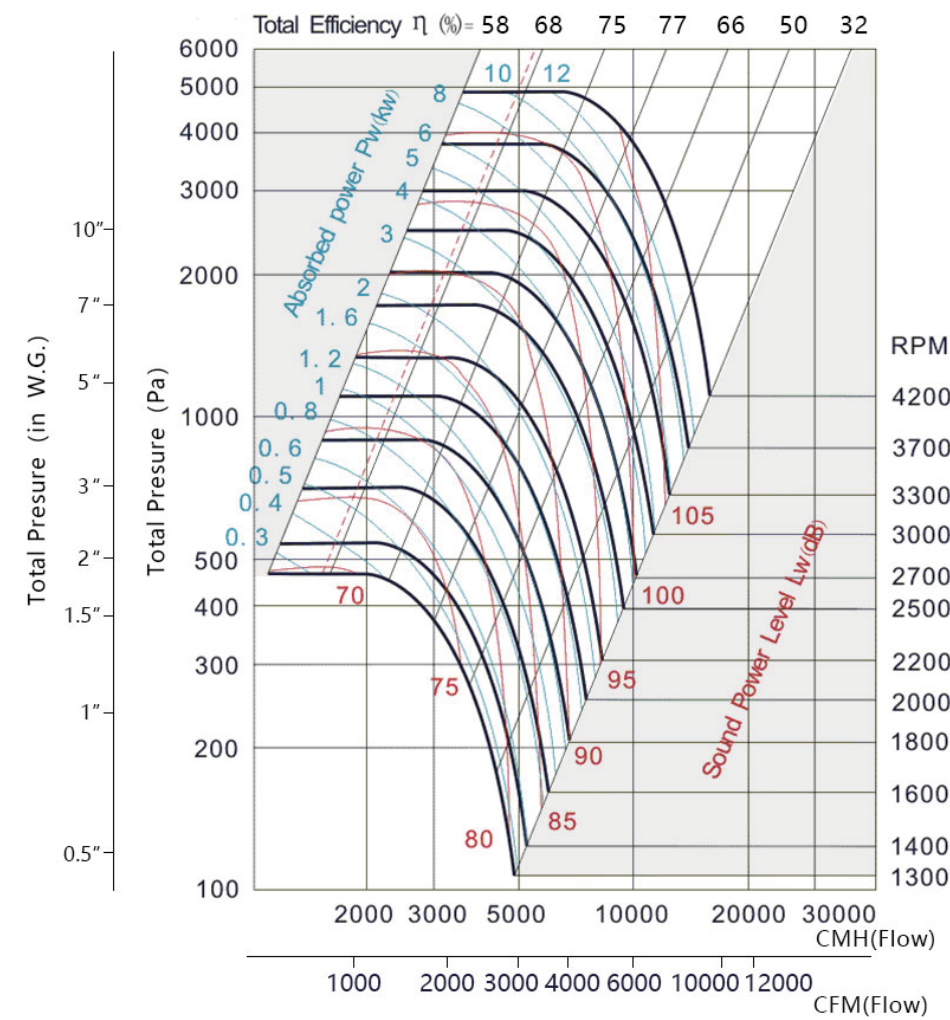
Model	Rotation Speed	Power	Voltage/Frequency	CFM	T.P	S.P
CBA08(315)	3420	4HP	380V/60Hz	1496	8.5	7.4
				1828	8.2	7.0
				2022	7.9	6.7
				2135	7.6	6.4
				2383	7.0	5.7
				2636	6.6	5.1
				2699	5.9	4.5
				2824	5.1	3.6
				748	2.1	2.0
	1720	0.5HP	220V/60Hz	914	2.0	1.9
				1011	2.0	1.9
				1067	1.9	1.8
				1192	1.7	1.6
				1318	1.6	1.4
				1350	1.5	1.3
				1412	1.3	1.0

CBA355 (14 ")

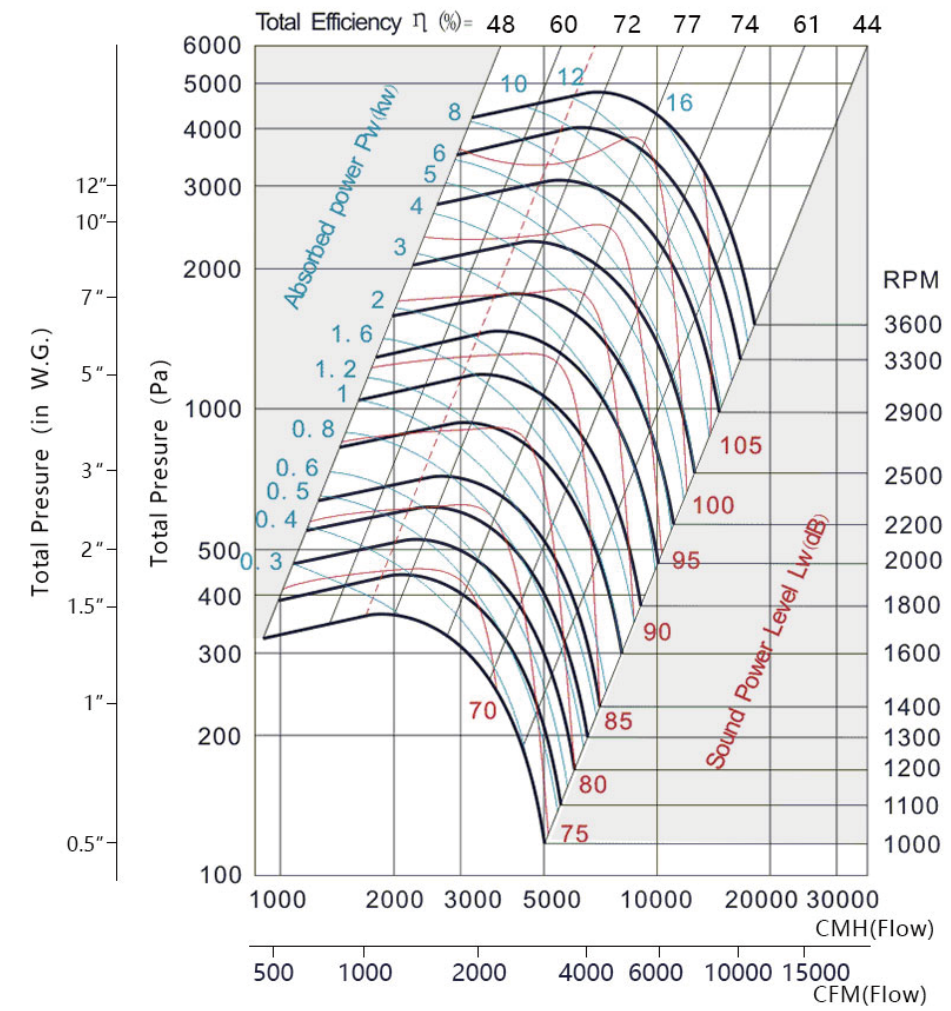


Model	Rotation Speed	Power	Voltage/Frequency	CFM	T.P	S.P
CBA10(355)	3420	5.5HP	380V/60Hz	2061	10.3	10.0
				2400	9.6	9.2
				2711	9.4	8.9
				3233	8.1	7.3
				3546	7.6	6.6
				3837	6.4	5.2
				4601	4.3	2.7
				4738	5.5	3.8
				1031	2.6	2.5
	1720	0.75HP	220V/60Hz	1200	2.4	2.3
				1355	2.4	2.2
				1616	2.0	1.8
				1773	1.9	1.7
				1919	1.6	1.3
				2300	1.1	0.7
				2369	1.4	0.9

CBA400 (16 ")



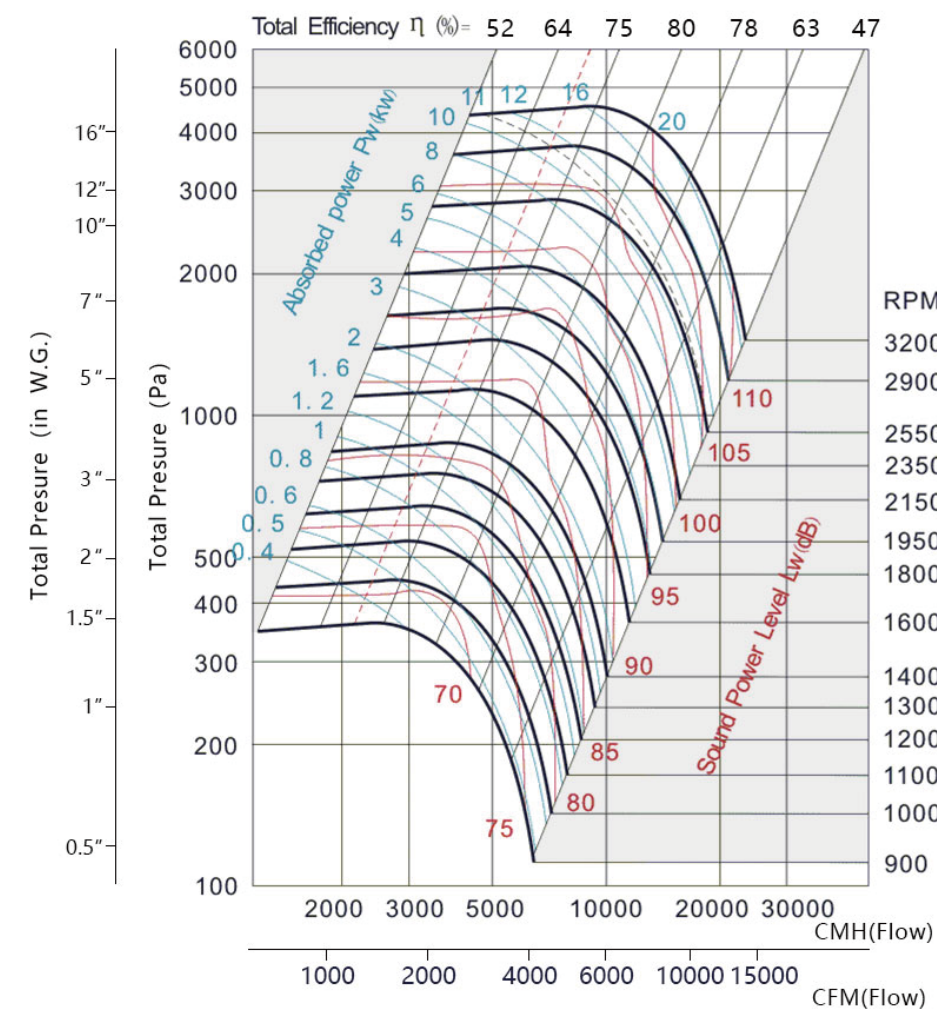
CBA450 (18 ")



Model	Rotation Speed	Power	Voltage/Frequency	CFM	T.P	S.P
CBA14(400)	3420	10HP	380V/60Hz	3552	13.5	12.8
				4024	11.9	11.1
				4674	10.1	8.9
				5226	8.8	7.4
				5586	7.9	6.3
				5833	7.3	5.6
				6212	6.9	4.9
				6635	6.6	4.3
				1776	3.4	3.2
	1720	1.5HP	220V/60Hz	2012	3.0	2.8
				2337	2.5	2.2
				2613	2.2	1.9
				2793	2.0	1.6
				2917	1.8	1.4
				3106	1.7	1.2
				3318	1.6	1.1

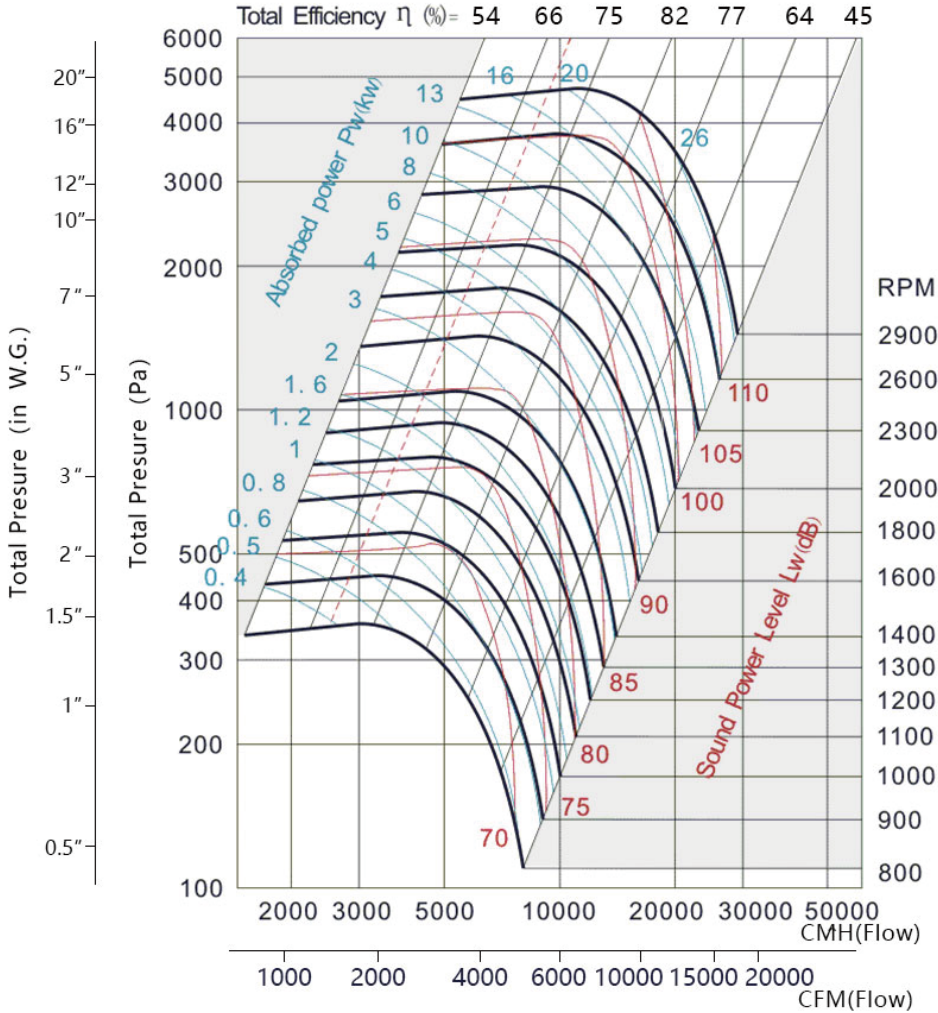
Model	Rotation Speed	Power	Voltage/Frequency	CFM	T.P	S.P
CBA16(450)	3420	20HP	380V/60Hz	3983	17.5	17.0
				4237	15.9	15.3
				5037	15.2	14.4
				6007	13.8	12.6
				7063	12.3	10.7
				8047	9.3	7.2
				9168	8.7	6.0
				10241	6.9	3.6
	1720	2HP	220V/60Hz	1991	4.4	4.2
				2118	4.0	3.8
				2519	3.8	3.6
				3004	3.4	3.2
				3532	3.1	2.7
				4024	2.3	1.8
				4584	2.2	1.5
				5120	1.7	0.9

CBA500 (20 ")



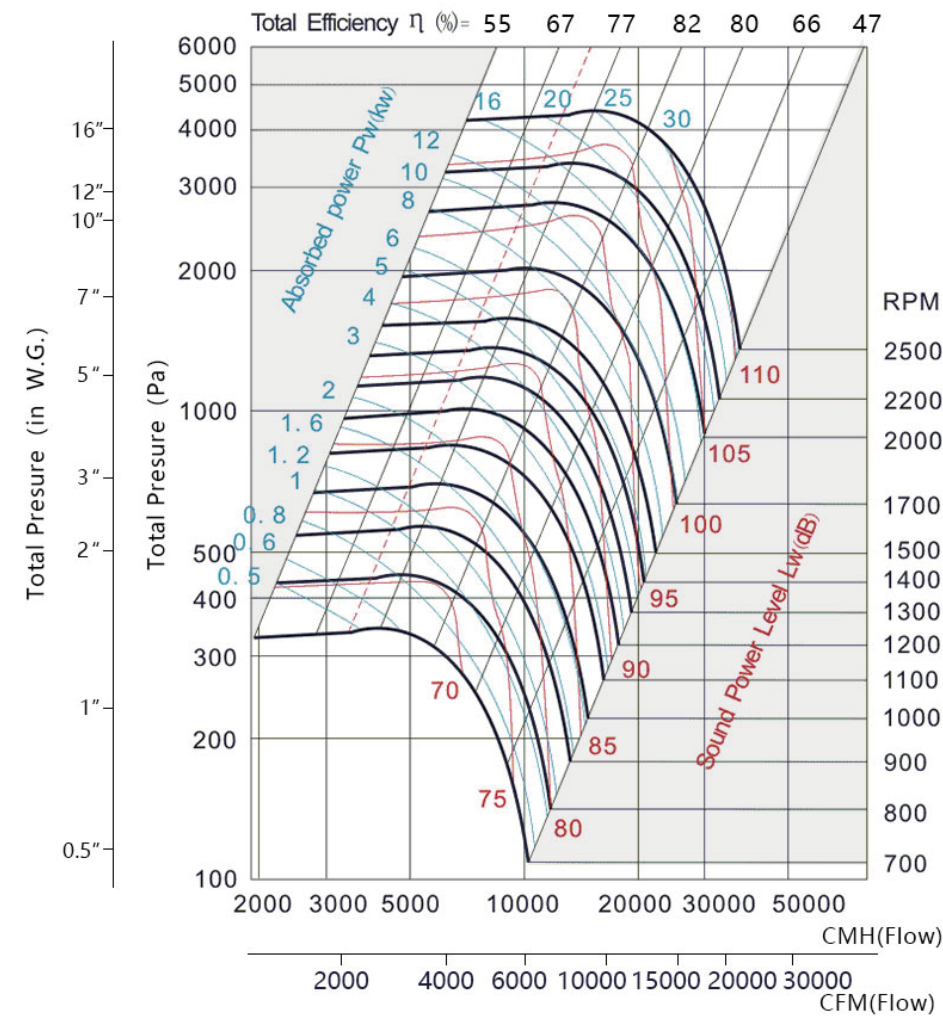
Model	Rotation Speed	Power	Voltage/Frequency	CFM	T.P	S.P
CBA18(500)	1720	4HP	380V/60Hz	2931	5.2	5.1
				3848	5.1	4.8
				4659	4.8	4.4
				5053	4.0	3.5
				5393	3.8	3.2
				5970	3.0	2.3
				6411	2.6	1.7
				6918	1.8	0.9
	1120	1.5HP	380V/60Hz	1962	2.3	2.3
				2228	2.3	2.2
				2740	2.2	2.0
				2982	1.9	1.8
				3445	1.7	1.4
				3879	1.5	1.2
				4271	1.2	0.8
				4906	0.9	0.4

CBA560 (22 ")

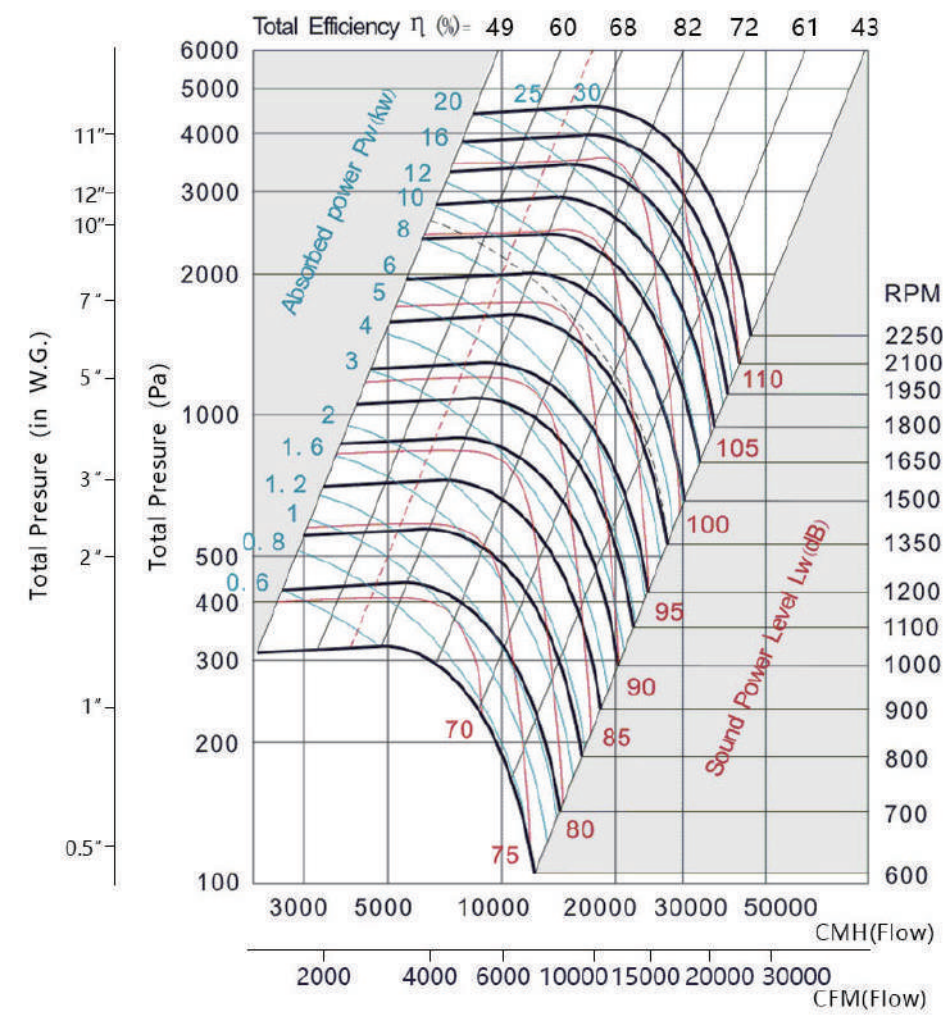


Model	Rotation Speed	Power	Voltage/Frequency	CFM	T.P	S.P
CBA20(560)	1720	7.5HP	380V/60Hz	2852	6.2	6.1
				3632	6.4	6.2
				4232	6.5	6.3
				5044	5.7	5.4
				6176	5.3	4.8
				7027	4.6	4.0
				7553	4.3	3.6
				9529	2.6	1.4
	1120	2HP	380V/60Hz	1902	2.8	2.8
				2202	2.8	2.7
				2788	2.9	2.8
				3287	2.8	2.7
				3803	2.6	2.4
				4341	2.3	2.0
				5065	2.0	1.7
				5753	1.4	1.0

CBA630 (25 ")

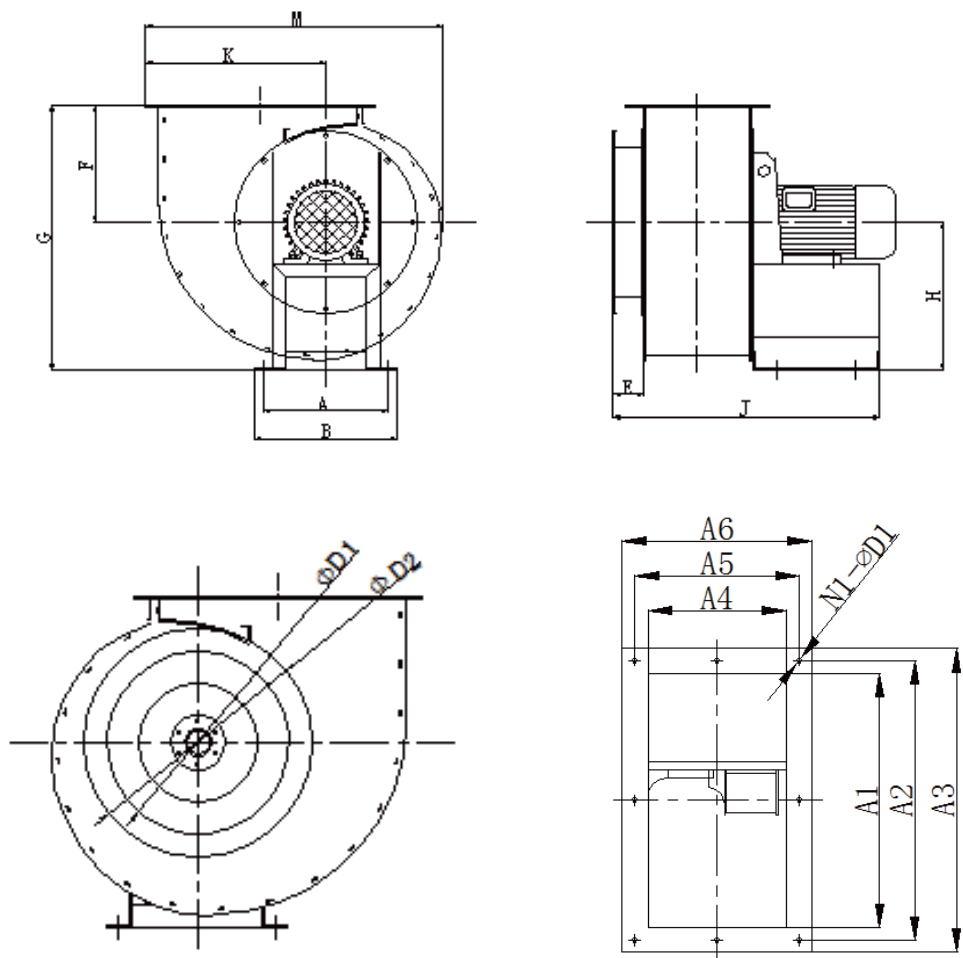


CBA710 (28 ")



Model	Rotation Speed	Power	Voltage/Frequency	CFM	T.P	S.P
CBA24(630)	1720	15HP	380V/60Hz	6178	8.3	8.0
				6817	8.2	7.8
				8294	8.1	7.5
				8612	7.7	7.1
				9706	7.0	6.2
				11160	5.8	4.8
				12318	5.2	3.9
				14118	2.3	0.7
	1120	4HP	380V/60Hz	4076	3.8	3.7
				4622	3.8	3.7
				5178	3.8	3.6
				5806	3.4	3.2
				6434	2.8	2.5
				7069	2.6	2.2
				8123	2.2	1.7
				8824	1.8	1.2

Model	Rotation Speed	Power	Voltage/Frequency	CFM	T.P	S.P
CBA28(710)	1720	25HP	380V/60Hz	8118	10.4	9.9
				10235	10.1	9.4
				11471	9.6	8.7
				12953	8.8	7.5
				14250	7.6	6.1
				15699	6.6	4.8
				17418	5.2	2.9
				19417	3.6	0.8
	1120	7.5HP	380V/60Hz	5665	4.9	4.7
				6512	4.7	4.4
				7730	4.5	4.1
				8226	4.3	3.8
				9300	4.0	3.4
				10343	3.6	2.8
				11442	2.9	1.9
				12886	1.8	0.2



	Outside dimension											Outside dimension							
	ΦD1	ΦD2	A	B	E	F	G	H	J	K	M	A1	A2	A3	A4	A5	A6	N1-ΦD1	
CBA-BA-250BS-A-B-Q	250	310	230	260	50	215	442	247	438	300	496	322	354	384	175	208	238	8-Φ8	
CBA-BA-280BS-A-B-Q	280	340	230	26	50	215	488	273	460	332	548	360	390	420	195	230	260	8-Φ8	
CBA-BA-315BS-A-B-Q	315	375	324	360	50	236	541	305	513	374	613	410	442	472	220	254	283	8-Φ8	
CBA-BA-355BS-A-B-Q	355	415	390	430	50	261	600	339	57	416	685	456	492	520	243	276	307	10-Φ8	
CBA-BA-400BS-A-B-Q	400	460	400	440	50	290	667	377	624	464	765	507	546	570	270	303	334	10-Φ8	
CBA-BA-450BS-A-B-Q	450	510	440	480	50	322	744	422	638	519	857	572	606	635	304	339	368	10-Φ8	
CBA-BA-500BS-A-B-Q	500	560	390	430	50	352	819	467	645	570	947	638	672	702	341	375	405	12-Φ8	
CBA-BA-560BS-A-B-Q	560	620	390	430	50	388	906	513	713	631	1051	721	756	785	378	414	444	12-Φ8	
CBA-BA-630BS-A-B-Q	630	700	510	550	100	434	1014	580	973	728	1199	801	855	905	427	483	533	18-Φ10	
CBA-BA-710BS-A-B-Q	710	780	558	608	100	485	1138	653	1051	817	1348	900	953	1003	450	506	556	18-Φ10	

Usage Description

1. The Fan Is Mainly Use In Delivering The Clean Air Without The Place That With Easy Burning Materials, Explosive Materials And Powder
2. If The Fan Is Fed With External Rotor Machine And Sealed Ball Bearing. It Is Free Maintenance.
3. If The Fan Install In The Damping And Sobering Area, Continuous Operation Is Required For The Fan.
4. The Fan Can Be Installed In The Outdoor Or Damp Environment With Drainage System.
5. All The Fans Are Feeding With International Standard Motors, Which Are Single Phase 120V, 60Hz Or 220V, 50Hz And Three Phases 380V, 50Hz
6. Installation Is Available In Any Areas

Installation

1. Must Be Install According To The Air Flow Marking
2. Must Be Connect To The Piping Or Equip With Safety Accessories
3. Must Be Installing In A Proper Way And Make Sure The Outlet Is Without Any Unusual Materials.
4. Try To Installing The Fan As Easy As For The Maintenance Purpose
5. Fan Required Flanges In Order To Avoid The Piping Damage When Vibrated
6. Speed Controller Or Transformer Is Available To Connect To The Fan
7. Wiring Diagram Is In The Package.
8. Wiring Must Be Strictly Following The Wiring Diagram.
9. Electrical Installation Must Be Done By Professional Technicians.
10. Electrical Installation Must Be Connecting In The Special Control Box.

Operation

- Before Operation, Please Make Sure
1. The Real Maximum Current Cannot Be Exceed The National Standard Index:+5%.
 2. The Voltage Pulsation Is Between +6% ---10%
 3. No Exceptional Noise Produce When Operation.
 4. The Rotating Direction For Three Phase Motor Is The Same As The Marking.

Maintenance

1. Before Repair Or Maintenance The Fan, Please Make Sure The Fan Is Stop And The Fan Is Not Working In Overload Condition
2. When Disassemble The Larger Fan, Please Care For The Weight To Avoid Blocking And Scratching
3. Cleaning The Fan Once A Year, So That It Can Keep The Function And Avoid The Unnecessary Damage.
4. Ball Bearing Is Free Maintenance Except For The Necessary Updates.
5. When Cleaning The Fan, Please Do Not Use The High Pressure Washer Or Strong Solvent, And Do Not Take Out The Damaging Impeller
6. Make Sure The Fan Is Operating Without Any Noise

Failure Detection

1. Make Sure The Fan Is In The Load Condition.
2. Verify The Impeller Is Without Block.
3. Please Do Check With The Heat-variable Switch And Motor Protector. If The Switch Is Not In Connected, Please Do Check It. If Its Need To Restart Makes Sure The Power Supply Is Cut Off In A Few Minutes Until The Rated Current Is Not Higher Than 1.6A. If The Motor Has The Heat Protector, It Will Automatically Reset After Cool Down.
4. Make Sure The Capacitor Is Connected According To The Wiring Diagram.
5. Please Change The Capacitor At The First Time When The Fan Is Not Work.
6. Please Contact The Distributor If The Fan Is Still Not Work
7. When Send Back The Fan To The Distributor, Please Clean It And Make Sure The Cables Are

Guarantee

The Guarantee Is Valid Only With The Guideline Of This Manual.

Noise Level Test Method

1m/45° Free Zone, Without Connect The Ducting Noise Data