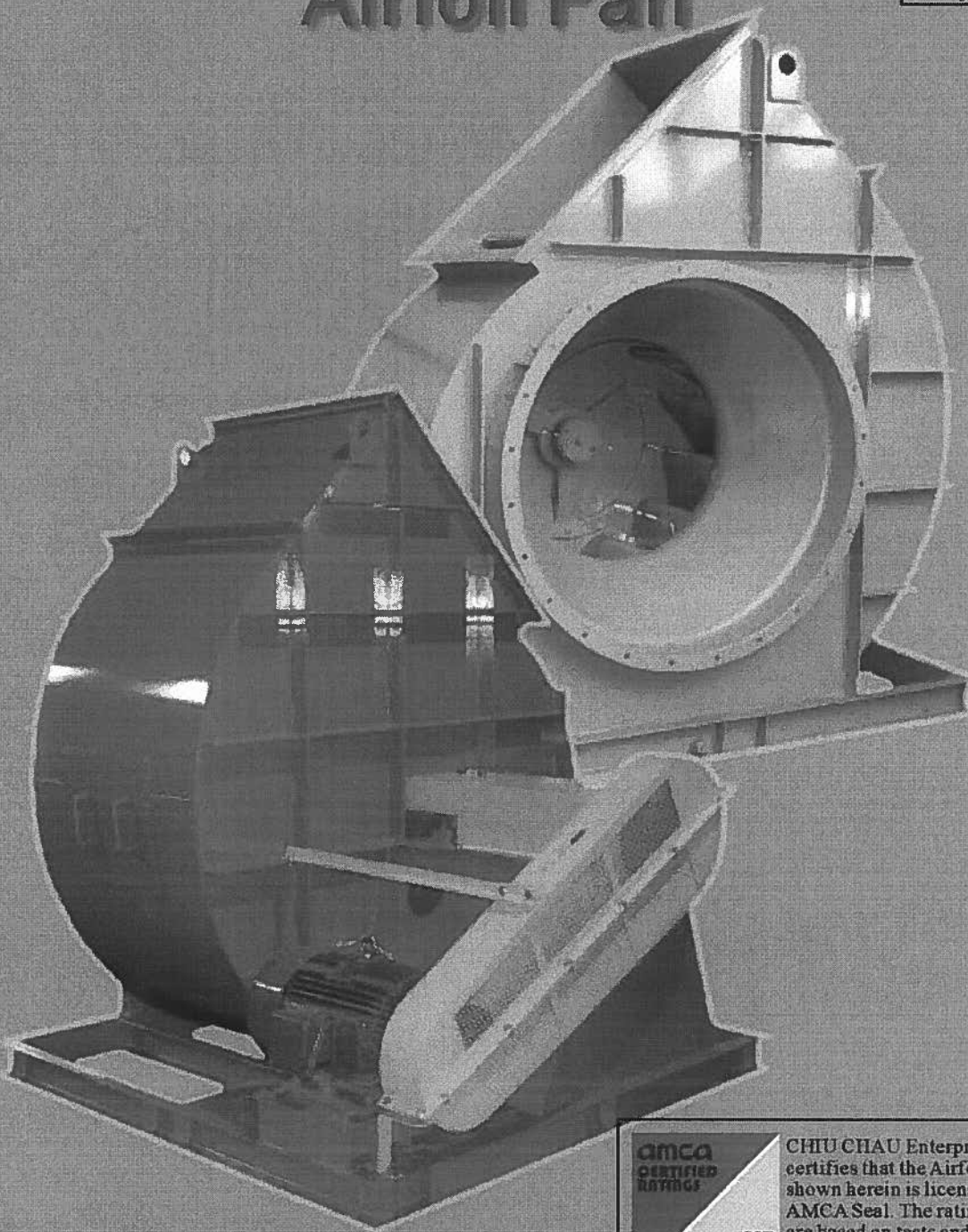




CHIU CHAU Enterprise Co., Ltd.

SAF Rev. 1
May 2008

Airfoil Fan



AMCA
CERTIFIED
RATINGS

AIR
PERFORMANCE

AIR
MOVEMENT
AND CONTROL
ASSOCIATION
INTERNATIONAL, INC.®

CHIU CHAU Enterprise Co., Ltd. certifies that the Airfoil Fan shown herein is licensed to bear AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

Quality Reputation Service



Prospectus

Idea of operation: Prime in authentication,
everlasting operation

Quality policy: Good quality, customer
satisfaction

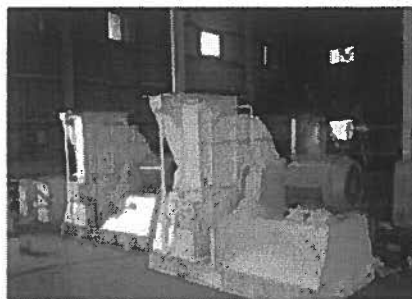
In the beginning of this instruction, first we thank for the support given from all parties, we always keep good contact with old customers and exploit new market aggressively, realize continue, stable and coordinate development. The agreement contracted, proceeds, income after taxed both create peak in history. In order to affirm the foundation, we passed ISO 9001 quality management system accreditation. We prime the motto of authentication, everlasting operation, good quality, customer satisfaction as subject of service, enhance the satisfactory of customer, striving in construction of national economy, providing first class product to society.

Product Features

- Production equipment: dynamic balance calibration unit, hydraulic bending bed, hydraulic shear, level lathe, plasma cutting unit, electric welding set, CO2 electric welding set, screw press, argon welding set.
- Testing equipment: spectrum analyzer, laser aiming unit, thermal linear anemometer, noise decibel gage, U tube, electronic pressure gage, thermometer, tachometer, pit's tube, diaphragm gage, caliper.
- Education & training: monthly fixed 4 hours on-job training, invited professional lecturer, the contents of the program include professional know-how, production management, quality control and so on. Two to three persons are selected to attend visit and practice in academic unit yearly.
- Quality control: meet ISO 9001 quality management system.
- After sale service and handling of customer compliant: We provide customer service and maintenance service department exclusive for requirement of after sale service and handling of emergency incident, proceed subject to each customer compliant case: failure determination, cause analysis, trouble shooting, case classification and management. Cope with periodical maintenance of the user yearly.

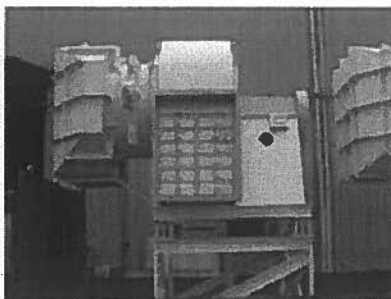


Centrifugal Fans



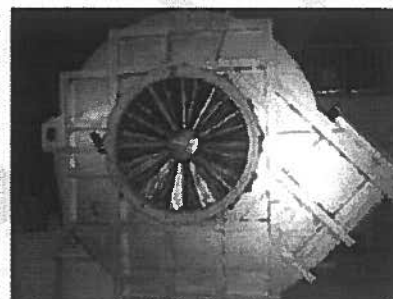
TF Series

- This is common used model, the fins bend backward. Rigid structure allow high speed rotation, available from low pressure to high pressure. The impeller allows ingress of little dust but not massive dust. Applicable in air drawing of gasses delivery and dust removing equipment widely.
- Maximum air volume up to 50000 CFM.
- Maximum static pressure up to 70 inwg.



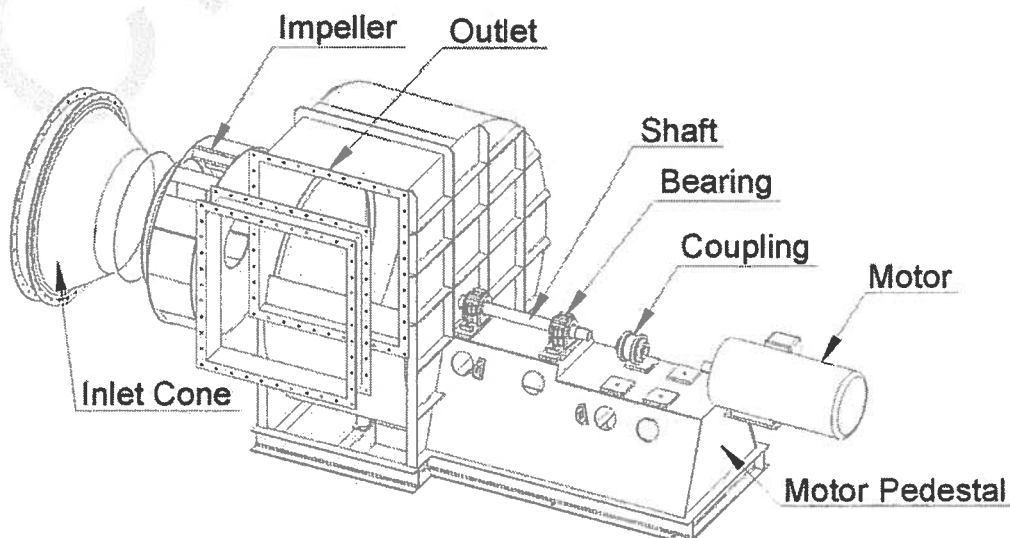
SAF Series

- This is improved turbine model, the fins are fabricated according to airplane wing, high efficiency and fixed load, resist to motor overload, with lowest noise in all model. Applicable in ordinary ventilation such as air conditioned of common office building, air delivery of various kiln.
- Maximum air volume up to 100000 CFM.
- Maximum static pressure up to 30 inwg.



PMF Series

- This impeller present axial radiation in outlet angle about 70~110degree, the impeller is resist to abrasion, allow ingress of solid. Applicable in delivery of air with medium dust content in dust removing equipment or powder delivery or air drawing of various kiln.
- Maximum air volume up to 70600CFM.
- Maximum static pressure up to 40 inwg.





Performance Data

● Quick Selection Methods

Example No1:

For a desired duty of 140CMM(A), at SP 100mmAq(B) the fan will need to run at 1449RPM(C) and use 4.1HP(D)

Example No2:

When a desired duty falls between published ratings exact speed and horsepower can be interpolated. 150CMM at SP 125mmAq can be determined by using below Table Data.

Q CMM	SP 125mmAq	
	RPM	BHP
140	1587	5.3
150	1607	5.6
160	1627	5.9

SAF		22.25-A-06										Wheel diameter : Ø616mm				Outlet area : 0.282m ² Inlet area : 0.3117 m ²			
Volume CMM	Velocity m/s	Static Pressure mmAq																	
		50		75		100		125		150		175							
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP						
100	5.91	1027	1.5	1208	2.3	1394	3.2												
120	7.09	1096	1.8	1252	2.7	1405	3.6												
140	8.27	1185	2.2	1312	3.1	1449	4.1	1587	5.3										
160	9.45	1278	2.7	1400	3.7	1507	4.6	1627	5.9	1749	7.4								
180	10.64	1373	3.3	1491	4.4	1595	5.4	1690	6.5	1793	8.0	1904	9.3						
200	11.82	1469	4.0	1584	5.2	1686	6.3	1778	7.5	1863	9.0	1980	10.1						
220	13	1568	4.8	1679	6.1	1778	7.4	1868	8.6	1951	10.2	2030	11.3						
240	14.18	1669	5.6	1775	7.1	1872	8.5	1960	9.9	2042	11.6	2159	12.7						
260	15.36	1774	6.5	1874	8.2	1967	9.8	2054	11.3	2134	13.1	2209	14.3						
280	16.55	1883	7.6	1974	9.4	2064	11.2	2148	12.9	2267	14.8								

① Power rating BHP does not include transmission losses.

② Performance ratings do not include the effects of appurtenances (accessories).

③ Performance certified is for installation Type A : Free Inlet, Free Outlet.



Performance Data SAF

30-A-06				Wheel diameter : Ø829mm						Outlet area : 0.5092m ² Inlet area : 0.5674 m ²					
Volume CMM	Velocity m/s	Static Pressure mmAq													
		100		125		150		175		200		225		250	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
275	9	1096	8.18	1195	10.33	1286	12.47								
300	9.82	1137	9.12	1218	11.13	1308	13.54	1391	15.82						
325	10.64	1181	10.19	1252	12.2	1331	14.62	1413	17.03	1491	19.58				
350	11.45	1227	11.4	1297	13.54	1361	15.69	1436	18.24	1513	20.92				
375	12.27	1274	12.61	1342	14.89	1405	17.3	1465	19.58	1536	22.39	1609	25.34		
400	13.09	1322	14.08	1388	16.49	1450	18.91	1509	21.32	1564	23.87	1632	26.82		
425	13.91	1370	15.56	1436	18.1	1496	20.65	1554	23.33	1608	25.88	1660	28.56		
450	14.73	1418	17.3	1483	19.85	1543	22.53	1600	25.34	1653	28.03	1705	30.84	1754	33.66
475	15.55	1467	19.04	1531	21.72	1590	24.54	1646	27.36	1699	30.31	1749	33.26	1798	36.21
500	16.36	1516	20.92	1579	23.87	1638	26.69	1693	29.64	1745	32.72	1795	35.8	1843	38.89
525	17.18	1566	23.07	1628	26.02	1686	29.1	1741	32.05	1792	35.27	1841	38.49	1888	41.71
550	18	1617	25.21	1677	28.43	1734	31.51	1788	34.73	1839	37.95	1888	41.3		

SAF

33-A-06				Wheel diameter : Ø910mm								Outlet area : 0.6142m ² Inlet area : 0.6793 m ²							
Volume CMM	Velocity m/s	Static Pressure mmAq																	
		100		125		150		175		200		225		250		275		300	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
300	8.14	976	9.90	1067	12.69	1154	15.48												
350	9.5	1020	11.44	1101	14.23	1184	17.57	1260	20.78	1334	23.99								
400	10.85	1088	13.81	1152	16.46	1218	19.39	1293	23.01	1364	26.78	1430	30.4	1493	33.89				
450	12.21	1158	16.46	1220	19.39	1278	22.31	1332	25.38	1398	29.29	1464	33.47	1527	37.66	1586	51.7		
500	13.57	1230	19.66	1290	22.73	1346	25.94	1399	29.29	1449	32.63	1499	36.12	1561	40.72	1620	45.33	1677	49.93
550	14.92	1303	23.15	1362	26.64	1417	30.12	1468	33.75	1516	37.24	1563	40.86	1608	44.63	1655	48.67	1712	53.83
600	16.28	1377	27.2	1435	30.96	1489	34.87	1539	38.83	1586	42.4	1631	46.3	1675	50.35	1717	54.25	1758	58.3
650	17.64	1453	31.8	1508	35.84	1561	39.89	1611	44.08	1657	48.12	1701	52.3	1744	56.48				
700	18.99	1530	36.82	1584	41.28	1634	45.63	1683	50.07	1729	54.53	1773	58.99						

- ① Power rating BHP does not include transmission losses.
- ② Performance ratings do not include the effects of appurtenances (accessories).
- ③ Performance certified is for installation Type A : Free Inlet, Free Outlet.



Performance Data SAF

36.5-A-06				Wheel diameter : Ø1006mm								Outlet area : 0.7452m ² Inlet area : 0.8332 m ²							
Volume CMM	Velocity m/s	Static Pressure mmAq																	
		100		125		150		175		200		225		250		275		300	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
310	6.93	855	9.8	949	12.7														
370	8.27	885	11.6	967	14.6	1045	17.7												
430	9.62	924	13.5	998	16.8	1072	20.3	1141	23.8	1207	27.4								
490	10.96	985	16.3	1043	19.5	1103	22.9	1171	26.9	1234	30.9	1294	34.8	1351	38.8				
550	12.3	1047	19.4	1103	22.9	1155	26.4	1204	29.9	1265	34.4	1324	38.8	1381	43.3	1435	47.8		
610	13.64	1111	23.0	1166	26.8	1216	30.7	1264	34.6	1309	38.5	1356	42.6	1412	47.7	1465	52.7	1516	57.6
670	14.98	1150	25.3	1204	29.2	1253	33.2	1300	37.3	1345	41.6	1387	45.7	1432	50.4	1485	56.0	1536	61.6
730	16.33	1213	29.4	1266	33.8	1315	38.1	1360	42.4	1403	46.8	1445	51.4	1485	56.0	1523	60.6	1566	65.9
790	17.67	1277	34.0	1328	38.7	1377	43.4	1421	48.0	1464	52.8	1504	57.6	1543	62.5	1581	67.5		
850	19.01	1343	39.1	1392	44.3	1439	49.4	1483	54.3	1525	59.4	1565	64.4						

SAF

40.25-A-06				Wheel diameter : Ø1103mm								Outlet area : 0.8989m ² Inlet area : 1.0029 m ²							
Volume CMM	Velocity m/s	Static Pressure mmAq																	
		100		125		150		175		200		225		250		275		300	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
475	8.81	818	16.0	893	20.3	961	24.4												
545	10.1	863	19.0	920	22.8	988	27.8	1050	32.6										
615	11.4	917	22.8	969	26.8	1017	30.9	1077	36.3	1135	41.9	1189	47.3						
685	12.7	972	27.1	1023	31.6	1070	36.2	1114	40.7	1162	45.9	1216	52.1	1268	58.3				
755	14	1029	32.0	1078	36.9	1124	41.9	1167	46.9	1208	52.0	1247	57.0	1295	63.4	1344	70.3		
825	15.3	1086	37.5	1135	43.0	1179	48.3	1221	53.8	1261	59.3	1299	64.7	1336	70.2	1372	75.8	1418	83.2
895	16.59	1144	43.7	1191	49.5	1236	55.5	1277	61.4	1316	67.3	1353	73.2	1389	79.1	1424	85.2	1457	91.0
965	17.89	1204	50.8	1249	56.9	1292	63.2	1333	69.6	1372	76.1	1408	82.4	1443	88.7	1477	95.2		
1035	19.19	1264	58.5	1308	65.2	1350	71.9	1390	78.8	1428	85.6	1464	92.4	1498	99.2				
1105	20.49	1325	67.0	1368	74.3	1409	81.6	1447	88.6	1485	96.0								

- ① Power rating BHP does not include transmission losses.
- ② Performance ratings do not include the effects of appurtenances (accessories).
- ③ Performance certified is for installation Type A : Free Inlet, Free Outlet.

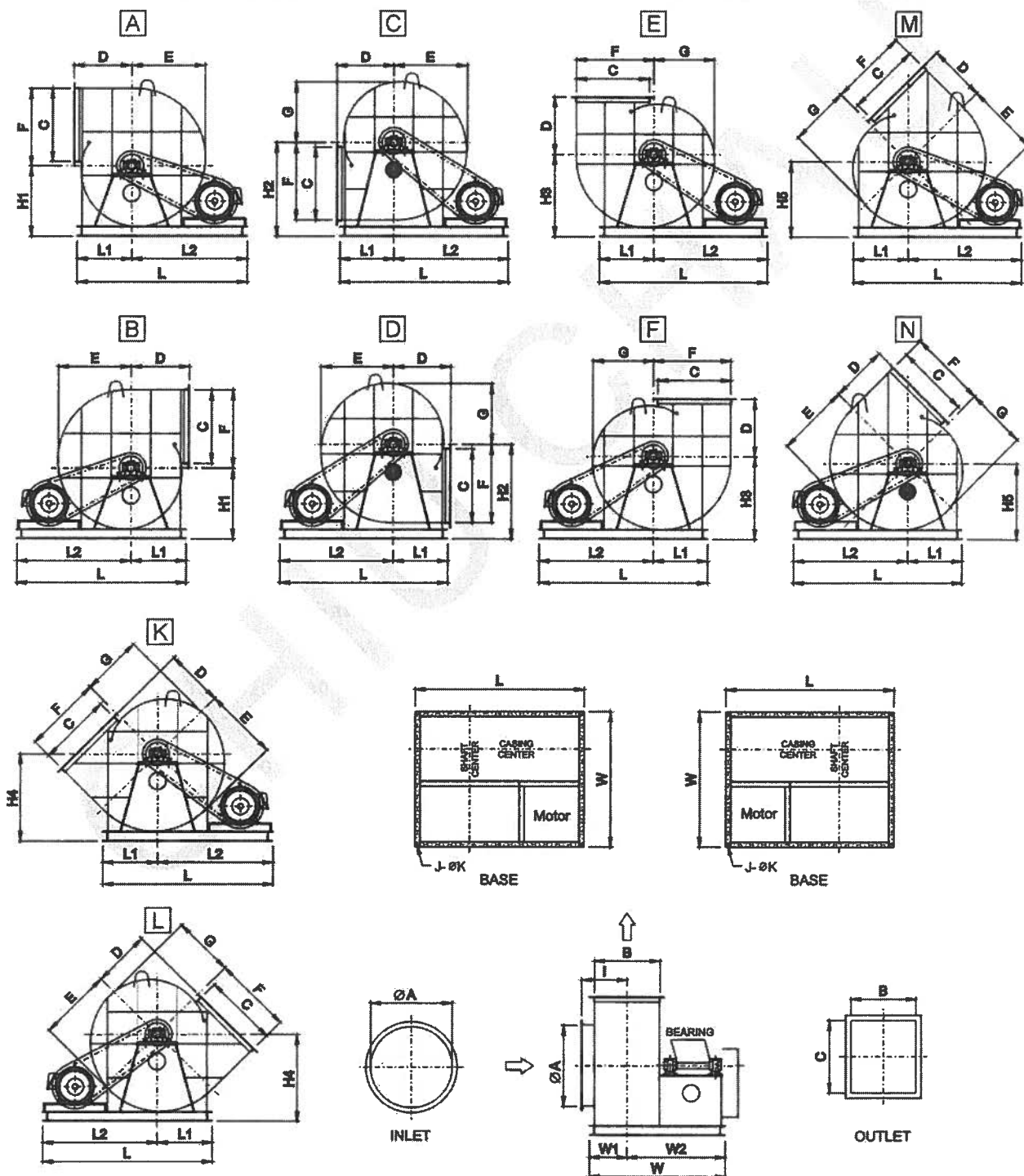


CHIU CHAU ENTERPRISE Co.,Ltd.

Fan Dimension

SAF

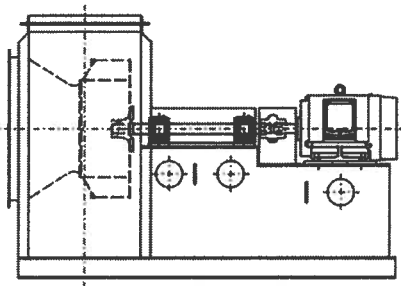
22.25 24.5 27 30 33 36.5 40.25-A-06



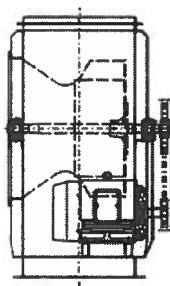
Technology Data

● Drive Type:

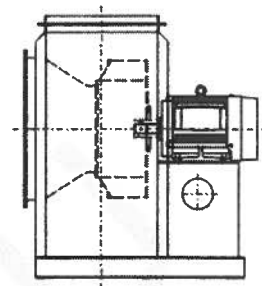
Coupling Drive



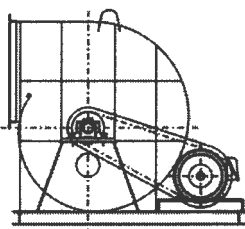
Belt Drive



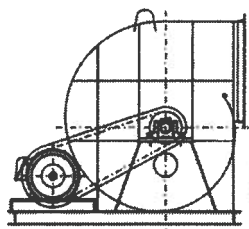
Motor Drive



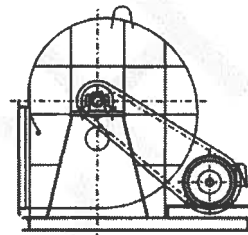
● Rotating Orientation:



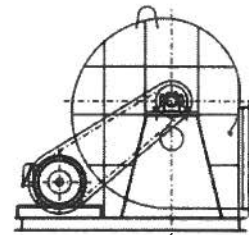
A Counter-Clockwise
Top Horizontal



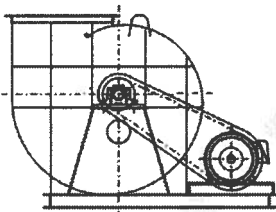
B Clockwise
Top Horizontal



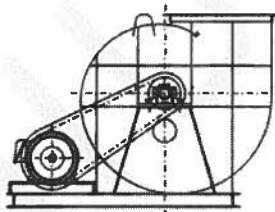
C Clockwise
Bottom Horizontal



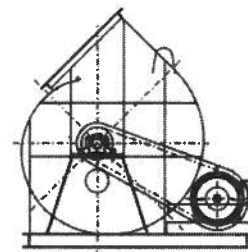
D Counter-Clockwise
Bottom Horizontal



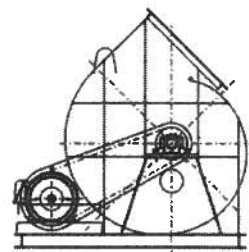
E Clockwise
Up Blast



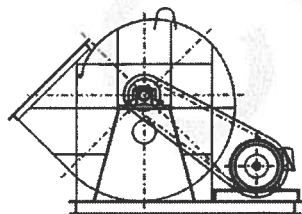
F Counter-Clockwise
Up Blast



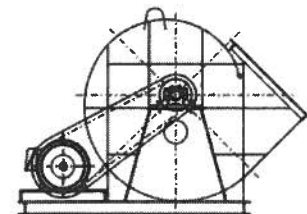
M Counter-Clockwise
Top Angular Up



N Clockwise
Top Angular Up



K Clockwise
Bottom Angular Up



L Counter-Clockwise
Bottom Angular Up

- Please faces the pulley or motor to decide the orientation.
- Additionally, made the orientation of the client freely.



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