

DOUBLE INLET CENTRIFUGAL FAN

AF

DOUBLE INLET
CENTRIFUGAL FAN
with Air-foil wheels



Definitions

Fan is a device for moving air which utilizes a power driven rotating impeller. A fan shall have at least one inlet opening and at least one outlet opening. The openings may or may not have elements for connection to ductwork.

Fan Performance Variables

- Fan Air Density : ρ

Fan air density is the density of the air corresponding to the total pressure and the stagnation temperature of the air at the fan inlet.

$$\rho_x = \rho_0 \left(\frac{t_{d0} + 273.15}{t_{dx} + 273.15} \right) \left(\frac{P_{sx} + p_b}{p_b} \right)$$

$$\rho_x = \rho_0 \left(\frac{t_{d0} + 459.67}{t_{dx} + 459.67} \right) \left(\frac{P_{sx} + 13.63p_b}{13.63p_b} \right)$$

$$\rho = \rho_0 \left(\frac{P_{s1} + p_b}{p_b} \right) \left(\frac{t_{d0} + 273.15}{t_{s1} + 273.15} \right)$$

$$\rho = \rho_0 \left(\frac{P_{s1} + 13.63p_b}{13.63p_b} \right) \left(\frac{t_{d0} + 459.67}{t_{s1} + 459.67} \right)$$

- Fan Airflow Rate : Q

Fan Airflow rate is the volumetric airflow rate at fan air density.

Intake air properties is regarded as standard air properties unless otherwise specified.

- Standard Air is air with a density of 1.2kg/m³(0.075lbm/ft³)
- Standard Air Properties : Standard air has a ratio of specific heats of 1.4 and a viscosity of 1.8185E03Pa·s(1.222E-05lbm/ft·s). Air at 20°C(68°F) temperature, 50% relative humidity, and 101.325kPa(14.696psi, 29.92in.Hg) barometric pressure has these properties, approximately.

- Fan total Pressure : P_t

Fan total Pressure is the difference between the total pressure at the fan outlet and the total pressure at the fan inlet.

- Fan Velocity pressure = Dynamic Pressure : P_v

Fan velocity pressure is the pressure corresponding to the average air velocity at the fan outlet. It is always positive.

$$Q_2 = Q(\rho/\rho_2) \quad V_2 = Q_2/A_2 \quad \text{and} \quad P_v = \frac{\rho_2 V_2^2}{2}$$

$$P_v = \rho_2 \left(\frac{V_2}{1097} \right)^2$$

$$\text{or} \quad P_v = \left(\frac{Q\rho}{A_2} \right)^2 \frac{1}{2\rho_2}$$

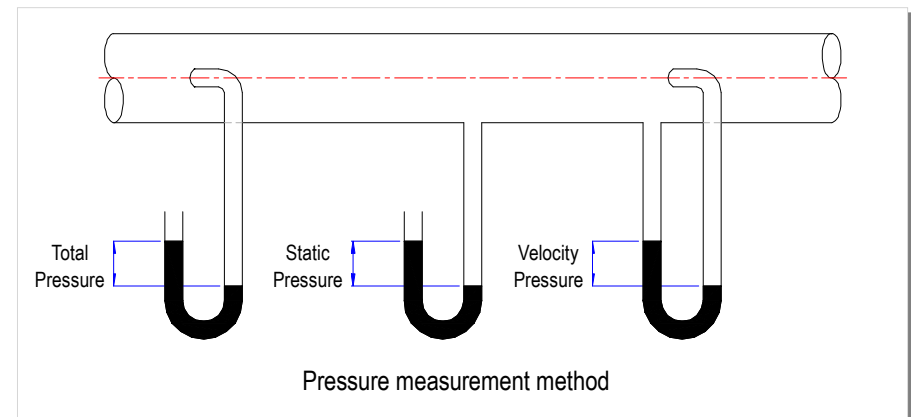
$$P_v = \left(\frac{Q\rho}{1097A_2} \right)^2 \frac{1}{\rho_2}$$

- Fan Static Pressure : P_s

Fan Static pressure the difference between the fan total pressure and the fan velocity pressure. Therefore, fan Static pressure is the difference between the static pressure at the fan outlet and the total pressure at the fan inlet.

If the temperature of the intake gas is not standard, correction and conversion can be done as follows.

$$P_2 = P_1 \times \frac{\rho_1}{\rho_2} \quad L_2 = L_1 \times \frac{\rho_1}{\rho_2}$$



- Fan Speed : N

Fan speed is the rotational speed of the impeller. If a fan has more than one impeller, fan speeds are the rotational speeds of each impeller.

Fan Total Efficiency : η_t

Fan total efficiency is the ratio of the fan power output to the fan power input.

- Fan Static Efficiency : η_s

Fan static efficiency is the fan total efficiency multiplied by the ratio of the fan static pressure to fan total pressure.

- Efficiency of the fan is divided into total pressure efficiency and static pressure efficiency. Unless otherwise specified, this refers to the total pressure efficiency.

- Efficiency by fan type – applied for selection of fan in general

Type	Efficiency	Type	Efficiency
TURBO	60 ~ 80%	AXIAL	40 ~ 85%
AIR-FOIL	70 ~ 85%	WALL VENTILATOR	30 ~ 50%
SIROCCO	40 ~ 60%	PLATE	40 ~ 70%
ROOF VENTILATOR	40 ~ 50%	LIMIT LOAD	55 ~ 65%

- Conversion formulae

Actual test results may be converted to nominal test results using the following.

$$Q_c = Q \left(\frac{N_c}{N} \right) \left(\frac{K_p}{K_{pc}} \right)$$

$$P_{tc} = P_t \left(\frac{N_c}{N} \right)^2 \left(\frac{\rho_c}{\rho} \right) \left(\frac{K_p}{K_{pc}} \right)$$

$$P_{vc} = P_v \left(\frac{N_c}{N} \right)^2 \left(\frac{\rho_c}{\rho} \right)$$

$$P_{sc} = P_{tc} - P_{vc}$$

$$H_c = H \left(\frac{N_c}{N} \right)^3 \left(\frac{\rho_c}{\rho} \right) \left(\frac{K_p}{K_{pc}} \right)$$

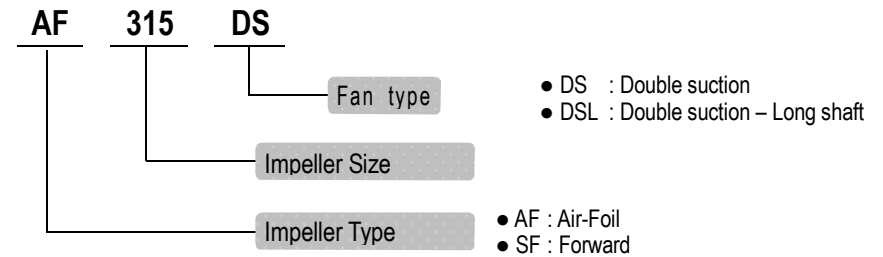
$$\eta_{tc} = \eta_t \quad \text{and} \quad \eta_{sc} = \eta_{tc} \left(\frac{P_{sc}}{P_{tc}} \right)$$

- Sound Power Level : dB

This was tested in accordance with AMCA Publication 300.

Specification of the fan and table of products

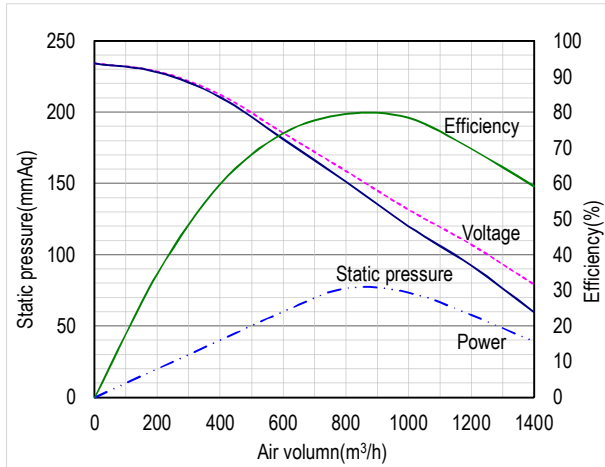
- Model name display method



Air-foil fan Features of the



Air-Foil Fan impeller



Selection Program of Air-Foil Fan

● Features

1. Air-Foil fan applied the shape of the airplane blades on top of the shape of the blade, which has the best efficiency among existing centrifugal blowers, low noise, possible for high speed rotation and diameter of the impeller can also be decreased. This brings an advantage that the total unit can get smaller.
2. When handling gas with limit load characteristic and some foreign materials, the structure can be changed to a abrasion resistant structure.
3. Impeller has a structure where 8~16 blades are welded on to the main plate-side plate and the width of the blades are manufactured wide by bending the steel plate
4. Normally the structure of casing is similar to that of blower; however the intake cone has a shape of bell-mouth.
5. In terms of performance, the power curve has Limit load characteristic at the maximum efficiency point as shown in the figure below (Selection Program) and the pressure curve is shaped with a good safety level as the turbo fan.
6. Selection Program of ACE Air-Foil supplies the fan data very quickly and accurately according to the customer specification.

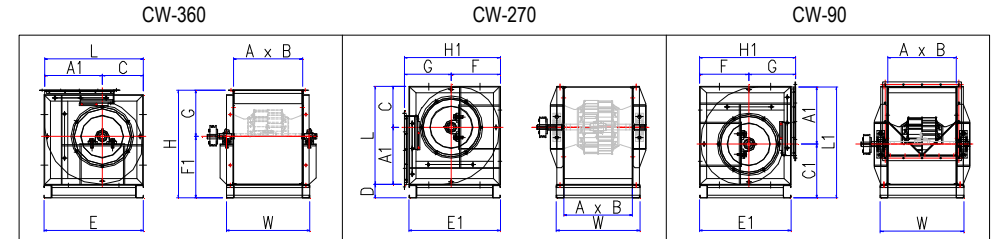
● Purpose

1. Air handling for buildings – AHU, etc., air handling equipment, semiconductor equipment, Fume Hood exhaust, etc.
2. Boiler pressing-inflow, subway oil film supply and exhaust, Air Washer
3. General industry, drying device and nuclear power plant, local ventilation, etc.

● Air-Foil Fan table of external dimensions

Fan Rotation and discharge

CW - clockwise rotation



CCW - counter clockwise rotation

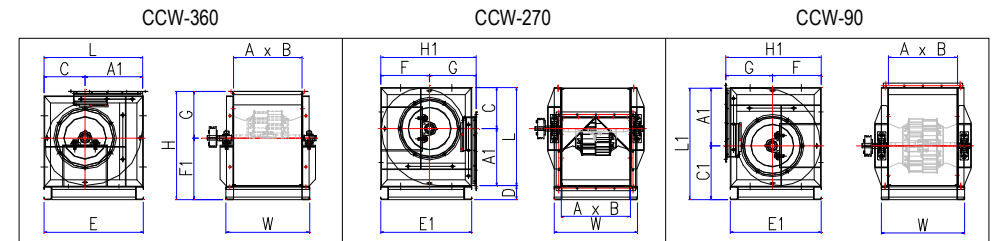


Table of external dimensions

Model name	OUTLET		DIMENSION													
	A	B	L	C	A1	E	H	F1	G	F	W	H1	E1	L1	C1	D
AF 315 DS	404	404	579	241.7	337.3	584	636.5	362	274.5	287	489	561.5	535	654	316.7	80
AF 355 DS	451	451	650	270	380	655	698.8	398.2	300.6	323.2	536	632.8	655	725	345	80
AF 400 DS	507	507	735	306.5	428.5	740	767.5	438.5	329	363.5	592	692.5	658	810	381.5	80
AF 450 DS	569	569	825	343	482	830	843.5	483	360.5	408	654	768.5	735	900	418	80
AF 500 DS	638	638	916	380.7	535.3	921	917.9	528.1	389.8	453.1	723	842.9	800	991	455.7	80
AF 560 DS	715	715	1025	425.5	599.5	1030	998.4	581.6	416.8	506.6	800	923.4	890	1100	500.5	80
AF 630 DS	801	801	1153	478.3	674.7	1158	1115.4	644.1	471.3	569.1	886	1040.4	965	1228	553.3	80
AF 710 DS	898	898	1297	538.4	758.6	1302	1232.1	715	517.1	640	983	1157.1	1080	1372	613.4	80
AF 800 DS	1007	1007	1473	615.7	857.3	1488	1412.2	832	580.2	732	1107	1312.2	1239	1573	715.7	115
AF 900 DS	1130	1130	1655	690.7	964.3	1670	1564.6	921	643.6	821	1230	1464.6	1381	1755	790.7	115
AF 1000 DS	1267	1267	1836.9	766.1	1070.8	1852	1713.5	1011	702.5	911	1367	1613.5	1524	1936.9	866.1	115.1

The standard may be modified for improvement of the product.

AF 315 DS

Wheel DIA.	318.5mm
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Outlet Dim	404 x 404
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Outlet Area	0.163m ²
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Air-Foil Fan impeller



ACE R&A Co., Ltd. certifies that the fans shown hereupon are licensed to bear the AMCA Seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and 311 and comply with the requirements of the AMCA Certified rating program.

Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]	Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]
1	1400	149	133	0.85	0.230	56%	76	1	1600	195	174	0.97	0.337	56%	79
2	1400	196	184	0.75	0.224	65%	75	2	1600	256	240	0.85	0.335	65%	78
3	1400	259	251	0.60	0.224	69%	73	3	1600	339	328	0.68	0.334	69%	77
4	1400	284	278	0.52	0.216	68%	73	4	1600	371	363	0.59	0.322	68%	76
5	1400	296	293	0.39	0.189	61%	73	5	1600	387	382	0.44	0.282	61%	76
6	1400	292	290	0.28	0.160	51%	73	6	1600	382	379	0.32	0.239	51%	76
1	1800	247	220	1.09	0.48	56%	82	1	2000	305	272	1.21	0.66	56%	85
2	1800	324	304	0.96	0.48	65%	82	2	2000	401	375	1.07	0.66	65%	84
3	1800	429	415	0.77	0.48	69%	80	3	2000	529	513	0.85	0.66	69%	83
4	1800	469	459	0.67	0.46	68%	80	4	2000	579	567	0.74	0.63	68%	82
5	1800	489	484	0.50	0.41	61%	80	5	2000	604	597	0.55	0.56	61%	82
6	1800	483	480	0.36	0.34	51%	80	6	2000	596	593	0.40	0.47	51%	82
1	2200	369	329	1.33	0.88	56%	88	1	2400	439	392	1.45	1.14	56%	90
2	2200	485	454	1.17	0.88	65%	87	2	2400	577	540	1.28	1.14	65%	89
3	2200	640	620	0.94	0.87	69%	85	3	2400	762	738	1.02	1.13	69%	88
4	2200	701	686	0.82	0.84	68%	85	4	2400	834	816	0.89	1.09	68%	87
5	2200	731	723	0.61	0.74	61%	85	5	2400	870	860	0.66	0.96	61%	87
6	2200	722	717	0.44	0.63	51%	85	6	2400	859	854	0.47	0.81	51%	87
1	2600	515	460	1.58	1.45	56%	92	1	2800	598	533	1.70	1.81	56%	94
2	2600	677	634	1.39	1.44	65%	91	2	2800	785	735	1.49	1.80	65%	93
3	2600	894	866	1.11	1.44	69%	90	3	2800	1037	1005	1.19	1.80	69%	92
4	2600	979	958	0.97	1.39	68%	89	4	2800	1135	1111	1.04	1.73	68%	91
5	2600	1021	1009	0.72	1.22	61%	89	5	2800	1184	1171	0.77	1.52	61%	91
6	2600	1008	1002	0.51	1.03	51%	89	6	2800	1169	1162	0.55	1.28	51%	91
1	3000	686	612	1.82	2.23	56%	96	1	3200	781	696	1.94	2.70	56%	98
2	3000	901	844	1.60	2.21	65%	95	2	3200	1025	960	1.70	2.69	65%	97
3	3000	1190	1154	1.28	2.21	69%	94	3	3200	1354	1313	1.37	2.68	69%	96
4	3000	1303	1275	1.12	2.13	68%	93	4	3200	1482	1451	1.19	2.58	68%	95
5	3000	1359	1344	0.83	1.87	61%	93	5	3200	1547	1529	0.89	2.26	61%	95
6	3000	1342	1334	0.59	1.58	51%	93	6	3200	1527	1518	0.63	1.92	51%	95

- The A-Weighted sound rating shown have been calculated per AMCA Standard 301
- Value shown are for inlet LwiA sound power levels for installation type B - free inlet, ducted outlet.
- Performance certified is for installation type B - free inlet, ducted outlet.
- Performance ratings do not include the effects of apputenances(accessories), Power rating kW does not include transmission losses.

AF 355 DS

Wheel DIA.	358.9mm
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Outlet Dim	451 x 451
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Outlet Area	0.203m ²
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The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and 311 and comply with the requirements of the AMCA Certified rating program.

Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]	Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]
1	1200	139	124	1.04	0.260	56%	75	1	1400	190	169	1.21	0.410	56%	79
2	1200	183	171	0.91	0.257	65%	74	2	1400	249	233	1.07	0.408	65%	78
3	1200	242	234	0.73	0.256	69%	73	3	1400	329	319	0.85	0.407	69%	77
4	1200	265	259	0.64	0.247	68%	72	4	1400	360	353	0.74	0.392	68%	76
5	1200	276	273	0.48	0.216	61%	72	5	1400	376	372	0.55	0.344	61%	76
6	1200	273	271	0.34	0.183	51%	72	6	1400	371	369	0.40	0.291	51%	76
1	1600	248	221	1.39	0.62	56%	83	1	1800	314	280	1.56	0.88	56%	86
2	1600	325	305	1.22	0.61	65%	82	2	1800	412	386	1.37	0.87	65%	85
3	1600	430	417	0.98	0.61	69%	81	3	1800	544	527	1.10	0.87	69%	84
4	1600	471	461	0.85	0.59	68%	80	4	1800	596	583	0.96	0.84	68%	83
5	1600	491	485	0.63	0.52	61%	80	5	1800	621	614	0.71	0.74	61%	83
6	1600	485	482	0.45	0.44	51%	80	6	1800	613	610	0.51	0.62	51%	83
1	2000	387	345	1.73	1.20	56%	89	1	2200	469	418	1.91	1.60	56%	91
2	2000	509	476	1.52	1.19	65%	88	2	2200	615	576	1.68	1.59	65%	90
3	2000	672	651	1.22	1.19	69%	87	3	2200	813	788	1.34	1.58	69%	89
4	2000	735	720	1.06	1.15	68%	86	4	2200	890	871	1.17	1.53	68%	89
5	2000	767	758	0.79	1.01	61%	86	5	2200	928	918	0.87	1.34	61%	88
6	2000	757	753	0.57	0.85	51%	86	6	2200	916	911	0.62	1.13	51%	88
1	2400	558	497	2.08	2.07	56%	94	1	2600	654	584	2.25	2.63	56%	96
2	2400	732	686	1.83	2.06	65%	93	2	2600	860	805	1.98	2.62	65%	95
3	2400	967	937	1.47	2.05	69%	91	3	2600	1135	1100	1.59	2.61	69%	94
4	2400	1059	1036	1.28	1.98	68%	91	4	2600	1243	1216	1.38	2.52	68%	93
5	2400	1105	1092	0.95	1.74	61%	91	5	2600	1296	1282	1.03	2.21	61%	93
6	2400	1090	1084	0.68	1.47	51%	91	6	2600	1280	1272	0.74	1.87	51%	93
1	2800	759	677	2.43	3.29	56%	98	1	3000	871	777	2.60	4.04	56%	100
2	2800	997	933	2.13	3.27	65%	97	2	3000	1144	1071	2.29	4.02	65%	99
3	2800	1317	1276	1.71	3.26	69%	96	3	3000	1511	1465	1.83	4.01	69%	98
4	2800	1441	1410	1.49	3.14	68%	95	4	3000	1654	1619	1.60	3.87	68%	97
5	2800	1504	1486	1.11	2.75	61%	95	5	3000	1726	1706	1.19	3.39	61%	97
6	2800	1484	1475	0.79	2.33	51%	95	6	3000	1704	1694	0.85	2.86	51%	97

- The A-Weighted sound rating shown have been calculated per AMCA Standard 301
- Value shown are for inlet LwiA sound power levels for installation type B - free inlet, ducted outlet.
- Performance certified is for installation type B - free inlet, ducted outlet.
- Performance ratings do not include the effects of apputenances(accessories), Power rating kW does not include transmission losses.

AF 400 DS

Wheel DIA.	404.4mm
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Outlet Dim	508 x 508
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Outlet Area	0.258m ²
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Air-Foil Fan impeller



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Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]	Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]
1	1000	123	110	1.24	0.280	56%	74	1	1200	177	158	1.49	0.469	56%	79
2	1000	161	151	1.09	0.270	65%	73	2	1200	232	218	1.31	0.466	65%	78
3	1000	213	207	0.87	0.269	69%	72	3	1200	307	298	1.05	0.465	69%	76
4	1000	233	228	0.76	0.260	68%	71	4	1200	336	329	0.91	0.449	68%	76
5	1000	243	241	0.57	0.227	61%	71	5	1200	351	347	0.68	0.393	61%	76
6	1000	240	239	0.40	0.192	51%	71	6	1200	346	344	0.49	0.332	51%	76
1	1400	241	215	1.74	0.75	56%	83	1	1600	315	281	1.99	1.12	56%	86
2	1400	316	296	1.53	0.75	65%	82	2	1600	413	387	1.74	1.11	65%	86
3	1400	418	405	1.22	0.74	69%	81	3	1600	546	529	1.40	1.11	69%	84
4	1400	457	448	1.07	0.72	68%	80	4	1600	597	585	1.22	1.07	68%	84
5	1400	477	472	0.79	0.63	61%	80	5	1600	623	616	0.91	0.94	61%	84
6	1400	471	468	0.57	0.53	51%	80	6	1600	615	612	0.65	0.79	51%	84
1	1800	398	355	2.23	1.59	56%	90	1	2000	492	438	2.48	2.18	56%	92
2	1800	523	490	1.96	1.58	65%	89	2	2000	646	605	2.18	2.16	65%	92
3	1800	691	669	1.57	1.58	69%	88	3	2000	853	827	1.75	2.16	69%	90
4	1800	756	740	1.37	1.52	68%	87	4	2000	934	914	1.52	2.08	68%	90
5	1800	789	780	1.02	1.33	61%	87	5	2000	974	963	1.13	1.82	61%	89
6	1800	779	774	0.73	1.13	51%	87	6	2000	961	956	0.81	1.54	51%	90
1	2200	595	530	2.73	2.90	56%	95	1	2400	708	631	2.98	3.76	56%	97
2	2200	781	732	2.40	2.88	65%	94	2	2400	930	871	2.62	3.74	65%	96
3	2200	1032	1000	1.92	2.87	69%	93	3	2400	1228	1190	2.10	3.73	69%	95
4	2200	1130	1105	1.67	2.77	68%	92	4	2400	1344	1316	1.83	3.60	68%	94
5	2200	1179	1165	1.25	2.43	61%	92	5	2400	1403	1387	1.36	3.15	61%	94
6	2200	1163	1156	0.89	2.05	51%	92	6	2400	1384	1376	0.97	2.66	51%	94
1	2600	831	741	3.23	4.78	56%	99	1	2800	964	859	3.47	5.97	56%	101
2	2600	1091	1022	2.84	4.75	65%	99	2	2800	1266	1185	3.05	5.93	65%	101
3	2600	1441	1397	2.27	4.74	69%	97	3	2800	1672	1620	2.45	5.92	69%	99
4	2600	1578	1544	1.98	4.57	68%	97	4	2800	1830	1791	2.13	5.71	68%	99
5	2600	1646	1627	1.47	4.00	61%	96	5	2800	1909	1887	1.59	5.00	61%	99
6	2600	1625	1615	1.05	3.39	51%	96	6	2800	1884	1873	1.13	4.23	51%	99

- The A-Weighted sound rating shown have been calculated per AMCA Standard 301
- Value shown are for inlet LwiA sound power levels for installation type B - free inlet, ducted outlet.
- Performance certified is for installation type B - free inlet, ducted outlet.
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AF 450 DS

Wheel DIA.	455mm
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Outlet Dim	569 x 569
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Outlet Area	0.324m ²
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Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]	Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]
1	1000	95	69	2.13	0.410	51%	80	1	1200	137	100	2.56	0.70	51%	84
2	1000	164	145	1.85	0.448	68%	80	2	1200	237	208	2.22	0.78	68%	84
3	1000	208	192	1.65	0.468	73%	79	3	1200	299	277	1.97	0.81	73%	83
4	1000	239	227	1.48	0.464	77%	79	4	1200	345	326	1.78	0.81	77%	83
5	1000	267	257	1.34	0.461	78%	79	5	1200	385	370	1.61	0.80	78%	83
6	1000	297	290	1.15	0.446	77%	79	6	1200	428	417	1.38	0.78	77%	83
7	1000	307	301	0.99	0.414	73%	79	7	1200	442	434	1.18	0.72	73%	83
1	1400	187	136	2.98	1.11	51%	88	1	1600	244	177	3.41	1.65	51%	91
2	1400	322	284	2.59	1.23	68%	87	2	1600	421	371	2.97	1.84	68%	90
3	1400	407	377	2.30	1.29	73%	87	3	1600	532	492	2.63	1.92	73%	89
4	1400	469	444	2.08	1.28	77%	86	4	1600	613	580	2.37	1.90	77%	89
5	1400	524	504	1.88	1.27	78%	86	5	1600	684	658	2.15	1.89	78%	89
6	1400	583	568	1.61	1.23	77%	86	6	1600	761	742	1.84	1.83	77%	88
7	1400	602	591	1.38	1.14	73%	86	7	1600	786	772	1.58	1.70	73%	88
1	1800	309	225	3.83	2.35	51%	94	1	2000	381	277	4.26	3.22	51%	36.8
2	1800	533	469	3.34	2.62	68%	93	2	2000	658	579	3.71	3.59	68%	59.9
3	1800	673	623	2.96	2.74	73%	92	3	2000	830	769	3.29	3.75	73%	67.5
4	1800	775	734	2.67	2.71	77%	92	4	2000	957	907	2.97	3.71	77%	72.5
5	1800	866	833	2.41	2.69	78%	91	5	2000	1069	1028	2.68	3.69	78%	74.7
6	1800	963	939	2.07	2.61	77%	91	6	2000	1189	1159	2.31	3.57	77%	74.8
7	1800	995	977	1.77	2.41	73%	91	7	2000	1228	1206	1.97	3.31	73%	71.7
1	2200	461	335	4.68	4.28	51%	99	1	2400	549	399	5.11	5.56	51%	101
2	2200	796	701	4.08	4.77	68%	97	2	2400	947	834	4.45	6.20	68%	99
3	2200	1005	930	3.62	4.99	73%	96	3	2400	1196	1107	3.95	6.48	73%	98
4	2200	1158	1097	3.26	4.94	77%	96	4	2400	1378	1306	3.56	6.41	77%	98
5	2200	1293	1244	2.95	4.91	78%	96	5	2400	1539	1480	3.22	6.37	78%	98
6	2200	1439	1402	2.54	4.76	77%	95	6	2400	1712	1669	2.77	6.17	77%	97
7	2200	1486	1459	2.17	4.41	73%	95	7	2400	1768	1736	2.36	5.72	73%	97
1	2600	644	469	5.54	7.06	51%	102	1	2800	747	543	5.96	8.82	51%	104
2	2600	1112	979	4.82	7.88	68%	101	2	2800	1289	1135	5.19	9.84	68%	103
3	2600	1403	1299	4.28	8.23	73%	100	3	2800	1628	1506	4.61	10.28	73%	102
4	2600	1617	1532	3.86	8.15	77%	100	4	2800	1876	1777	4.15	10.18	77%	101
5	2600	1806	1737	3.49	8.10	78%	99	5	2800	2095	2014	3.75	10.12	78%	101
6	2600	2010	1958	3.00	7.85	77%	99	6	2800	2331	2271	3.23	9.80	77%	100
7	2600	2075	2038	2.56	7.27	73%	99	7	2800	2407	2363	2.76	9.08	73%	100

- The A-Weighted sound rating shown have been calculated per AMCA Standard 301
- Value shown are for inlet LwiA sound power levels for installation type B - free inlet, ducted outlet.
- Performance certified is for installation type B - free inlet, ducted outlet.
- Performance ratings do not include the effects of apputenances(accessories), Power rating kW does not include transmission losses.

AF 500 DS

Wheel DIA.	505.6mm
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Outlet Dim	638 x 638
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Outlet Area	0.407m ²
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ACE R&A Co., Ltd. certifies that the fans shown hereupon are licensed to bear the AMCA Seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and 311 and comply with the requirements of the AMCA Certified rating program.

Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]	Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]
1	900	95	69	2.63	0.50	51%	81	1	1000	118	86	2.92	0.69	51%	84
2	900	164	145	2.29	0.56	68%	81	2	1000	203	179	2.54	0.76	68%	83
3	900	208	192	2.03	0.58	73%	80	3	1000	256	237	2.26	0.80	73%	83
4	900	239	227	1.83	0.58	77%	80	4	1000	295	280	2.04	0.79	77%	82
5	900	267	257	1.66	0.57	78%	80	5	1000	330	317	1.84	0.79	78%	82
6	900	297	290	1.42	0.56	77%	80	6	1000	367	358	1.58	0.76	77%	82
7	900	307	302	1.22	0.52	73%	80	7	1000	379	372	1.35	0.71	73%	82
1	1100	142	104	3.21	0.91	51%	86	1	1200	169	123	3.51	1.18	51%	88
2	1100	246	216	2.80	1.02	68%	85	2	1200	292	257	3.05	1.32	68%	87
3	1100	310	287	2.48	1.06	73%	85	3	1200	369	342	2.71	1.38	73%	87
4	1100	358	339	2.24	1.05	77%	84	4	1200	426	403	2.44	1.36	77%	86
5	1100	399	384	2.02	1.04	78%	84	5	1200	475	457	2.21	1.35	78%	86
6	1100	444	433	1.74	1.01	77%	84	6	1200	529	515	1.90	1.31	77%	86
7	1100	459	450	1.49	0.94	73%	84	7	1200	546	536	1.62	1.22	73%	86
1	1300	199	145	3.80	1.50	51%	89	1	1400	231	168	4.09	1.87	51%	91
2	1300	343	302	3.31	1.67	68%	89	2	1400	398	350	3.56	2.09	68%	90
3	1300	433	401	2.94	1.75	73%	88	3	1400	503	465	3.16	2.18	73%	90
4	1300	499	473	2.65	1.73	77%	88	4	1400	579	549	2.85	2.16	77%	90
5	1300	558	536	2.39	1.72	78%	88	5	1400	647	622	2.58	2.15	78%	89
6	1300	620	605	2.06	1.67	77%	87	6	1400	720	701	2.21	2.08	77%	89
7	1300	641	629	1.76	1.55	73%	87	7	1400	743	730	1.89	1.93	73%	89
1	1500	265	193	4.38	2.30	51%	93	1	1600	301	219	4.68	2.79	51%	94
2	1500	457	402	3.82	2.57	68%	92	2	1600	520	458	4.07	3.11	68%	93
3	1500	577	534	3.39	2.68	73%	91	3	1600	656	607	3.61	3.26	73%	93
4	1500	665	630	3.05	2.66	77%	91	4	1600	756	717	3.26	3.22	77%	92
5	1500	743	714	2.76	2.64	78%	91	5	1600	845	812	2.94	3.20	78%	92
6	1500	826	805	2.37	2.56	77%	90	6	1600	940	916	2.53	3.10	77%	92
7	1500	853	838	2.03	2.37	73%	90	7	1600	971	953	2.16	2.88	73%	92
1	1800	381	277	5.27	4.00	51%	97	1	2000	470	342	5.86	5.49	51%	100
2	1800	381	277	5.26	3.98	68%	96	2	2000	471	342	5.84	5.45	68%	98
3	1800	658	579	4.58	4.43	73%	95	3	2000	812	715	5.09	6.08	73%	98
4	1800	831	769	4.06	4.63	77%	95	4	2000	1026	949	4.52	6.35	77%	97
5	1800	957	907	3.66	4.59	78%	95	5	2000	1182	1120	4.07	6.29	78%	97
6	1800	1069	1028	3.31	4.56	77%	94	6	2000	1320	1269	3.68	6.25	77%	96
7	1800	1190	1159	2.85	4.42	73%	94	7	2000	1469	1431	3.16	6.06	73%	96

- The A-Weighted sound rating shown have been calculated per AMCA Standard 301
- Value shown are for inlet LwiA sound power levels for installation type B - free inlet, ducted outlet.
- Performance certified is for installation type B - free inlet, ducted outlet.
- Performance ratings do not include the effects of apputenances(accessories), Power rating kW does not include transmission losses.

AF 560 DS

Wheel DIA.	566.2mm
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Outlet Dim	715 x 715
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Outlet Area	0.511m ²
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ACE R&A Co., Ltd. certifies that the fans shown hereupon are licensed to bear the AMCA Seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and 311 and comply with the requirements of the AMCA Certified rating program.

Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]	Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]
1	800	96	70	3.35	0.64	51%	82	1	900	121	88	3.77	0.91	51%	85
2	800	165	145	2.92	0.71	68%	82	2	900	209	184	3.28	1.01	68%	84
3	800	209	193	2.59	0.75	73%	82	3	900	264	244	2.91	1.06	73%	84
4	800	240	228	2.33	0.74	77%	82	4	900	304	288	2.63	1.05	77%	84
5	800	268	258	2.11	0.73	78%	81	5	900	340	327	2.37	1.04	78%	84
6	800	299	291	1.81	0.71	77%	81	6	900	378	368	2.04	1.01	77%	84
7	800	308	303	1.55	0.66	73%	81	7	900	390	383	1.74	0.94	73%	83
1	1000	150	109	4.19	1.25	51%	87	1	1100	181	132	4.61	1.66	51%	89
2	1000	258	227	3.65	1.39	68%	87	2	1100	312	275	4.01	1.85	68%	89
3	1000	326	302	3.24	1.45	73%	86	3	1100	394	365	3.56	1.93	73%	88
4	1000	376	356	2.92	1.44	77%	86	4	1100	454	431	3.21	1.91	77%	88
5	1000	420	403	2.64	1.43	78%	86	5	1100	508	488	2.90	1.90	78%	88
6	1000	467	455	2.27	1.38	77%	86	6	1100	565	550	2.49	1.84	77%	88
7	1000	482	473	1.94	1.28	73%	86	7	1100	583	573	2.13	1.71	73%	88
1	1200	215	157	5.03	2.15	51%	91	1	1400	293	213	5.86	3.41	51%	95
2	1200	372	327	4.37	2.39	68%	91	2	1400	506	445	5.10	3.80	68%	94
3	1200	469	434	3.88	2.50	73%	90	3	1400	639	591	4.53	3.97	73%	93
4	1200	541	512	3.50	2.48	77%	90	4	1400	736	697	4.08	3.93	77%	93
5	1200	604	581	3.16	2.46	78%	90	5	1400	822	791	3.69	3.91	78%	93
6	1200	672	655	2.72	2.39	77%	89	6	1400	915	891	3.17	3.79	77%	93
7	1200	694	681	2.32	2.21	73%	89	7	1400	945	928	2.71	3.51	73%	93
1	1500	337	245	6.28	4.19	51%	96	1	1600	383	279	6.70	5.08	51%	98
2	1500	581	511	5.47	4.67	68%	95	2	1600	661	582	5.83	5.67	68%	97
3	1500	733	679	4.85	4.88	73%	95	3	1600	834	772	5.18	5.93	73%	96
4	1500	845	801	4.38	4.84	77%	95	4	1600	962	911	4.67	5.87	77%	96
5	1500	944	908	3.96	4.81	78%	94	5	1600	1074	1033	4.22	5.83	78%	96
6	1500	1050	1023	3.40	4.65	77%	94	6	1600	1195	1164	3.63	5.65	77%	95
7	1500	1084	1065	2.91	4.32	73%	94	7	1600	1234	1212	3.10	5.24	73%	95
1	1700	432	314	7.12	6.10	51%	99	1	1800	485	353	7.54	7.24	51%	101
2	1700	746	657	6.20	6.80	68%	98	2	1800	836	736	6.56	8.07	68%	100
3	1700	942	872	5.50	7.11	73%	98	3	1800	1056	977	5.82	8.44	73%	99
4	1700	1085	1028	4.96	7.04	77%	97	4	1800	1217	1153	5.25	8.35	77%	99
5	1700	1212	1166	4.48	6.99	78%	97	5	1800	1359	1307	4.75	8.30	78%	98
6	1700	1349	1314	3.85	6.77	77%	97	6	1800	1512	1473	4.08	8.04	77%	98
7	1700	1393	1368	3.29	6.28	73%	96	7	1800	1562	1533	3.49	7.46	73%	98

- The A-Weighted sound rating shown have been calculated per AMCA Standard 301
- Value shown are for inlet LwiA sound power levels for installation type B - free inlet, ducted outlet.
- Performance certified is for installation type B - free inlet, ducted outlet.
- Performance ratings do not include the effects of apputenances(accessories), Power rating kW does not include transmission losses.

AF 630 DS

Wheel DIA.	637mm
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Outlet Dim	801 x 801
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Outlet Area	0.642m ²
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ACE R&A Co., Ltd. certifies that the fans shown hereupon are licensed to bear the AMCA Seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and 311 and comply with the requirements of the AMCA Certified rating program.

Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]	Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]
1	700	93	67	4.17	0.77	51%	83	1	800	121	88	4.77	1.15	51%	86
2	700	160	141	3.63	0.86	68%	83	2	800	209	184	4.15	1.28	68%	85
3	700	202	187	3.23	0.90	73%	83	3	800	264	244	3.69	1.34	73%	85
4	700	233	221	2.91	0.89	77%	82	4	800	304	288	3.32	1.33	77%	85
5	700	260	250	2.63	0.88	78%	82	5	800	340	327	3.00	1.32	78%	85
6	700	289	282	2.26	0.86	77%	82	6	800	378	368	2.58	1.28	77%	85
7	700	299	294	1.93	0.79	73%	82	7	800	390	383	2.21	1.18	73%	85
1	900	153	112	5.37	1.63	51%	88	1	1000	189	138	5.96	2.24	51%	91
2	900	265	233	4.67	1.82	68%	88	2	1000	327	288	5.19	2.50	68%	90
3	900	334	309	4.15	1.90	73%	88	3	1000	413	382	4.61	2.61	73%	90
4	900	385	365	3.74	1.89	77%	88	4	1000	475	450	4.15	2.58	77%	90
5	900	430	414	3.38	1.87	78%	87	5	1000	531	511	3.76	2.57	78%	90
6	900	478	466	2.91	1.82	77%	87	6	1000	591	576	3.23	2.49	77%	89
7	900	494	485	2.48	1.68	73%	87	7	1000	610	599	2.76	2.31	73%	89
1	1100	229	167	6.56	2.98	51%	93	1	1300	320	233	7.75	4.92	51%	97
2	1100	395	348	5.71	3.32	68%	92	2	1300	552	486	6.75	5.48	68%	96
3	1100	499	462	5.07	3.47	73%	92	3	1300	697	645	5.99	5.73	73%	95
4	1100	575	545	4.57	3.44	77%	92	4	1300	803	761	5.40	5.67	77%	95
5	1100	642	618	4.13	3.42	78%	91	5	1300	897	863	4.88	5.64	78%	95
6	1100	715	696	3.55	3.31	77%	91	6	1300	998	973	4.20	5.46	77%	95
7	1100	738	725	3.03	3.07	73%	91	7	1300	1031	1012	3.59	5.06	73%	95
1	1400	371	270	8.35	6.14	51%	98	1	1500	426	310	8.95	7.55	51%	100
2	1400	640	564	7.27	6.85	68%	97	2	1500	735	647	7.79	8.42	68%	99
3	1400	809	748	6.45	7.15	73%	97	3	1500	928	859	6.91	8.80	73%	99
4	1400	932	883	5.82	7.08	77%	97	4	1500	1070	1013	6.23	8.71	77%	98
5	1400	1041	1001	5.26	7.04	78%	96	5	1500	1195	1149	5.63	8.66	78%	98
6	1400	1158	1128	4.52	6.82	77%	96	6	1500	1329	1295	4.84	8.39	77%	98
7	1400	1196	1174	3.86	6.32	73%	96	7	1500	1373	1348	4.14	7.78	73%	97
1	1600	485	353	9.54	9.16	51%	102	1	1700	547	398	10.14	10.99	51%	103
2	1600	836	736	8.31	10.22	68%	100	2	1700	944	831	8.82	12.25	68%	102
3	1600	1056	977	7.37	10.68	73%	100	3	1700	1192	1103	7.83	12.81	73%	101
4	1600	1217	1153	6.65	10.57	77%	100	4	1700	1374	1302	7.06	12.68	77%	101
5	1600	1359	1307	6.01	10.51	78%	99	5	1700	1535	1476	6.38	12.60	78%	101
6	1600	1512	1474	5.16	10.18	77%	99	6	1700	1707	1664	5.49	12.20	77%	100
7	1600	1562	1533	4.41	9.44	73%	99	7	1700	1763	1731	4.69	11.32	73%	100

- The A-Weighted sound rating shown have been calculated per AMCA Standard 301
- Value shown are for inlet LwiA sound power levels for installation type B - free inlet, ducted outlet.
- Performance certified is for installation type B - free inlet, ducted outlet.
- Performance ratings do not include the effects of apputenances(accessories), Power rating kW does not include transmission losses.

AF 710 DS

Wheel DIA.	717.9mm
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Outlet Dim	898 x 898
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Outlet Area	0.806m ²
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ACE R&A Co., Ltd. certifies that the fans shown hereupon are licensed to bear the AMCA Seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and 311 and comply with the requirements of the AMCA Certified rating program.

Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]	Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]
1	600	126	109	4.55	0.95	61%	78	1	700	172	148	5.30	1.51	61%	82
2	600	168	154	4.06	0.97	70%	78	2	700	228	209	4.73	1.55	70%	81
3	600	203	191	3.65	0.99	75%	77	3	700	276	260	4.26	1.58	75%	81
4	600	222	213	3.41	0.99	77%	76	4	700	302	289	3.98	1.58	77%	80
5	600	245	237	3.11	0.99	78%	76	5	700	334	322	3.63	1.56	78%	80
6	600	263	255	2.87	0.97	78%	75	6	700	358	348	3.35	1.54	78%	79
7	600	286	281	2.38	0.91	75%	75	7	700	389	383	2.78	1.45	75%	79
1	800	224	193	6.06	2.25	61%	85	1	900	284	244	6.82	3.20	61%	88
2	800	298	273	5.41	2.30	70%	85	2	900	377	346	6.09	3.28	70%	88
3	800	360	340	4.87	2.35	75%	85	3	900	456	430	5.48	3.35	75%	88
4	800	395	378	4.55	2.35	77%	84	4	900	500	478	5.12	3.35	77%	87
5	800	436	421	4.15	2.33	78%	83	5	900	552	533	4.66	3.32	78%	87
6	800	467	454	3.83	2.30	78%	83	6	900	591	575	4.31	3.27	78%	86
7	800	508	500	3.18	2.16	75%	82	7	900	643	633	3.57	3.07	75%	86
1	1000	350	302	7.58	4.38	61%	91	1	1100	424	365	8.34	5.83	61%	94
2	1000	466	427	6.76	4.50	70%	91	2	1100	563	516	7.44	5.98	70%	94
3	1000	563	531	6.09	4.59	75%	91	3	1100	681	643	6.70	6.10	75%	93
4	1000	617	591	5.69	4.59	77%	90	4	1100	747	715	6.26	6.10	77%	93
5	1000	681	658	5.18	4.55	78%	90	5	1100	824	796	5.70	6.05	78%	92
6	1000	730	709	4.79	4.49	78%	89	6	1100	883	858	5.26	5.97	78%	92
7	1000	794	781	3.97	4.21	75%	89	7	1100	960	945	4.37	5.61	75%	91
1	1200	504	434	9.09	7.57	61%	96	1	1300	592	510	9.85	9.63	61%	98
2	1200	671	614	8.12	7.76	70%	96	2	1300	787	721	8.79	9.87	70%	99
3	1200	810	765	7.31	7.92	75%	96	3	1300	951	898	7.92	10.07	75%	98
4	1200	889	851	6.83	7.92	77%	95	4	1300	1043	998	7.40	10.07	77%	97
5	1200	981	947	6.22	7.85	78%	95	5	1300	1151	1112	6.74	9.98	78%	97
6	1200	1051	1022	5.74	7.75	78%	94	6	1300	1233	1199	6.22	9.86	78%	96
7	1200	1143	1125	4.77	7.28	75%	94	7	1300	1341	1320	5.16	9.25	75%	96
1	1400	686	591	10.61	12.02	61%	101	1	1500	788	679	11.37	14.78	61%	102
2	1400	913	836	9.47	12.33	70%	101	2	1500	1048	960	10.15	15.16	70%	103
3	1400	1103	1041	8.53	12.58	75%	100	3	1500	1266	1195	9.14	15.47	75%	102
4	1400	1210	1158	7.96	12.58	77%	99	4	1500	1389	1329	8.53	15.47	77%	101
5	1400	1335	1289	7.26	12.47	78%	99	5	1500	1533	1480	7.77	15.33	78%	101
6	1400	1430	1390	6.70	12.31	78%	99	6	1500	1642	1596	7.18	15.14	78%	100
7	1400	1556	1531	5.56	11.55	75%	98	7	1500	1786	1758	5.96	14.21	75%	100

- The A-Weighted sound rating shown have been calculated per AMCA Standard 301
- Value shown are for inlet LwiA sound power levels for installation type B - free inlet, ducted outlet.
- Performance certified is for installation type B - free inlet, ducted outlet.
- Performance ratings do not include the effects of apputenances(accessories), Power rating kW does not include transmission losses.

AF 800 DS

Wheel DIA.	808.9mm
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Outlet Dim	1007 x 1007
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Outlet Area	1.014m ²
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ACE R&A Co., Ltd. certifies that the fans shown hereupon are licensed to bear the AMCA Seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and 311 and comply with the requirements of the AMCA Certified rating program.

Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]	Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]
1	500	111	96	5.42	1.00	61%	77	1	600	160	138	6.50	1.72	61%	81
2	500	148	135	4.84	1.02	70%	77	2	600	213	195	5.81	1.77	70%	81
3	500	179	169	4.36	1.05	75%	77	3	600	257	243	5.23	1.80	75%	81
4	500	196	187	4.07	1.05	77%	77	4	600	282	270	4.88	1.80	77%	81
5	500	216	209	3.71	1.04	78%	77	5	600	311	301	4.45	1.79	78%	81
6	500	232	225	3.42	1.02	78%	76	6	600	334	324	4.11	1.76	78%	81
7	500	252	248	2.84	0.96	75%	75	7	600	363	357	3.41	1.66	75%	80
1	700	218	188	7.59	2.73	61%	85	1	800	284	245	8.67	4.08	61%	89
2	700	290	265	6.77	2.80	70%	85	2	800	378	347	7.74	4.18	70%	89
3	700	350	330	6.10	2.86	75%	85	3	800	457	432	6.97	4.27	75%	88
4	700	384	367	5.70	2.86	77%	85	4	800	501	480	6.51	4.27	77%	88
5	700	424	409	5.19	2.83	78%	85	5	800	554	534	5.93	4.23	78%	88
6	700	454	441	4.79	2.80	78%	84	6	800	593	576	5.48	4.17	78%	88
7	700	494	486	3.98	2.63	75%	84	7	800	645	635	4.54	3.92	75%	87
1	900	360	310	9.76	5.80	61%	92	1	1000	444	383	10.84	7.96	61%	95
2	900	479	439	8.71	5.95	70%	92	2	1000	591	542	9.68	8.16	70%	95
3	900	578	546	7.84	6.07	75%	92	3	1000	714	674	8.71	8.33	75%	95
4	900	635	607	7.32	6.07	77%	92	4	1000	784	750	8.14	8.33	77%	95
5	900	701	676	6.67	6.02	78%	92	5	1000	865	835	7.41	8.25	78%	94
6	900	750	729	6.16	5.94	78%	91	6	1000	926	901	6.85	8.15	78%	94
7	900	816	803	5.11	5.58	75%	91	7	1000	1008	992	5.68	7.65	75%	93
1	1100	538	463	11.92	10.59	61%	100	1	1200	640	551	13.01	13.75	61%	102
2	1100	715	655	10.64	10.86	70%	100	2	1200	851	780	11.61	14.10	70%	102
3	1100	864	816	9.58	11.08	75%	100	3	1200	1028	971	10.45	14.38	75%	102
4	1100	948	907	8.95	11.08	77%	100	4	1200	1128	1080	9.77	14.38	77%	102
5	1100	1047	1011	8.16	10.98	78%	100	5	1200	1245	1203	8.90	14.26	78%	102
6	1100	1121	1090	7.53	10.85	78%	99	6	1200	1334	1297	8.22	14.08	78%	101
7	1100	1219	1200	6.25	10.18	75%	99	7	1200	1451	1428	6.82	13.21	75%	101
1	1300	751	647	14.09	17.48	61%	102	1	1400	871	750	15.18	21.83	61%	104
2	1300	999	915	12.58	17.92	70%	102	2	1400	1159	1061	13.55	22.38	70%	105
3	1300	1207	1140	11.33	18.29	75%	102	3	1400	1400	1322	12.20	22.84	75%	104
4	1300	1324	1267	10.58	18.29	77%	101	4	1400	1536	1470	11.39	22.84	77%	103
5	1300	1462	1411	9.64	18.12	78%	101	5	1400	1695	1637	10.38	22.64	78%	103
6	1300	1566	1522	8.90	17.90	78%	100	6	1400	1816	1765	9.59	22.35	78%	102
7	1300	1703	1676	7.39	16.80	75%	100	7	1400	1975	1944	7.95	20.98	75%	102

- The A-Weighted sound rating shown have been calculated per AMCA Standard 301
- Value shown are for inlet LwiA sound power levels for installation type B - free inlet, ducted outlet.
- Performance certified is for installation type B - free inlet, ducted outlet.
- Performance ratings do not include the effects of apputenances(accessories), Power rating kW does not include transmission losses.

AF 900 DS

Wheel DIA.	910mm
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Outlet Dim	1130 x 1130
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Outlet Area	1.277m ²
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ACE R&A Co., Ltd. certifies that the fans shown hereupon are licensed to bear the AMCA Seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and 311 and comply with the requirements of the AMCA Certified rating program.

Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]	Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]
1	500	141	121	7.72	1.80	61%	80	1	600	202	174	9.26	3.10	61%	85
2	500	187	171	6.89	1.84	70%	80	2	600	269	247	8.27	3.18	70%	85
3	500	226	213	6.20	1.88	75%	80	3	600	325	307	7.44	3.24	75%	85
4	500	248	237	5.79	1.88	77%	79	4	600	357	342	6.95	3.24	77%	84
5	500	274	264	5.28	1.86	78%	79	5	600	394	381	6.33	3.21	78%	83
6	500	293	285	4.87	1.84	78%	78	6	600	422	410	5.85	3.17	78%	82
7	500	319	314	4.04	1.73	75%	77	7	600	459	452	4.85	2.98	75%	82
1	700	276	237	10.80	4.92	61%	89	1	800	360	310	12.35	7.34	61%	92
2	700	367	336	9.64	5.05	70%	89	2	800	479	439	11.02	7.53	70%	92
3	700	443	418	8.68	5.15	75%	88	3	800	578	546	9.92	7.68	75%	92
4	700	486	465	8.11	5.15	77%	88	4	800	635	607	9.27	7.68	77%	91
5	700	536	518	7.39	5.10	78%	87	5	800	701	676	8.44	7.61	78%	91
6	700	574	559	6.82	5.04	78%	86	6	800	750	729	7.80	7.52	78%	90
7	700	625	615	5.66	4.73	75%	86	7	800	816	803	6.47	7.06	75%	90
1	900	456	392	13.89	10.45	61%	95	1	1000	562	485	15.43	14.34	61%	98
2	900	606	555	12.40	10.72	70%	95	2	1000	748	685	13.78	14.70	70%	98
3	900	732	691	11.16	10.94	75%	95	3	1000	904	854	12.40	15.00	75%	98
4	900	803	769	10.43	10.94	77%	94	4	1000	992	949	11.59	15.00	77%	97
5	900	887	856	9.50	10.84	78%	94	5	1000	1095	1057	10.56	14.87	78%	97
6	900	950	923	8.77	10.70	78%	93	6	1000	1172	1140	9.75	14.68	78%	96
7	900	1033	1017	7.28	10.05	75%	93	7	1000	1275	1255	8.09	13.78	75%	96
1	1100	680	586	16.98	19.08	61%	101	1	1200	810	698	18.52	24.77	61%	103
2	1100	905	829	15.15	19.56	70%	101	2	1200	1077	987	16.53	25.40	70%	104
3	1100	1094	1033	13.64	19.96	75%	101	3	1200	1301	1229	14.88	25.92	75%	103
4	1100	1200	1148	12.75	19.96	77%	100	4	1200	1428	1367	13.90	25.92	77%	102
5	1100	1324	1279	11.61	19.78	78%	100	5	1200	1576	1522	12.67	25.68	78%	102
6	1100	1419	1379	10.72	19.54	78%	99	6	1200	1688	1641	11.70	25.36	78%	101
7	1100	1543	1519	8.90	18.34	75%	98	7	1200	1837	1808	9.71	23.81	75%	101
1	1300	950	819	20.06	31.49	61%	106	1	1400	1102	950	21.61	39.33	61%	108
2	1300	1264	1158	17.91	32.29	70%	106	2	1400	1466	1343	19.29	40.33	70%	108
3	1300	1527	1443	16.12	32.95	75%	105	3	1400	1771	1673	17.37	41.15	75%	108
4	1300	1676	1604	15.06	32.95	77%	104	4	1400	1944	1860	16.22	41.15	77%	107
5	1300	1850	1786	13.72	32.65	78%	104	5	1400	2145	2072	14.78	40.78	78%	107
6	1300	1981	1926	12.67	32.25	78%	104	6	1400	2298	2234	13.65	40.27	78%	106
7	1300	2155	2121	10.51	30.27	75%	103	7	1400	2500	2460	11.32	37.80	75%	105

- The A-Weighted sound rating shown has been calculated per AMCA Standard 301
- Value shown are for inlet LwiA sound power levels for installation type B - free inlet, ducted outlet.
- Performance certified is for installation type B - free inlet, ducted outlet.
- Performance ratings do not include the effects of apputenances(accessories), Power rating kW does not include transmission losses.

AF 1000 DS

Wheel DIA.	1011.1mm
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Outlet Dim	1267 x 1267
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Outlet Area	1.605m ²
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ACE R&A Co., Ltd. certifies that the fans shown hereupon are licensed to bear the AMCA Seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and 311 and comply with the requirements of the AMCA Certified rating program.

Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]	Num	rpm [N]	pt [Pa]	ps [Pa]	Q [m ³ /s]	H [kW]	etat [%]	LwiA [dB]
1	500	174	150	10.58	3.04	61%	83	1	600	250	215	12.70	5.25	61%	88
2	500	231	212	9.45	3.12	70%	83	2	600	333	305	11.34	5.38	70%	88
3	500	279	263	8.51	3.18	75%	83	3	600	402	379	10.21	5.49	75%	88
4	500	306	293	7.95	3.18	77%	82	4	600	441	422	9.54	5.49	77%	87
5	500	338	326	7.24	3.15	78%	82	5	600	486	470	8.69	5.44	78%	86
6	500	362	352	6.69	3.11	78%	81	6	600	521	507	8.02	5.37	78%	86
7	500	394	387	5.55	2.92	75%	80	7	600	567	558	6.66	5.04	75%	85
1	700	340	293	14.82	8.33	61%	92	1	800	444	383	16.94	12.43	61%	95
2	700	453	415	13.23	8.54	70%	92	2	800	591	542	15.12	12.75	70%	95
3	700	547	516	11.91	8.71	75%	92	3	800	714	674	13.61	13.01	75%	95
4	700	600	574	11.13	8.71	77%	91	4	800	784	750	12.71	13.01	77%	94
5	700	662	639	10.14	8.64	78%	90	5	800	865	835	11.58	12.89	78%	94
6	700	709	689	9.36	8.53	78%	90	6	800	926	901	10.70	12.73	78%	93
7	700	772	759	7.77	8.01	75%	89	7	800	1008	992	8.88	11.95	75%	93
1	900	562	485	19.05	17.70	61%	99	1	1000	694	598	21.17	24.27	61%	102
2	900	748	685	17.01	18.15	70%	99	2	1000	924	846	18.90	24.89	70%	102
3	900	904	854	15.31	18.52	75%	98	3	1000	1116	1054	17.01	25.40	75%	101
4	900	992	949	14.30	18.52	77%	97	4	1000	1224	1172	15.89	25.40	77%	100
5	900	1095	1057	13.03	18.35	78%	97	5	1000	1351	1305	14.48	25.17	78%	100
6	900	1172	1140	12.03	18.12	78%	96	6	1000	1447	1407	13.37	24.86	78%	99
7	900	1275	1255	9.99	17.01	75%	96	7	1000	1575	1550	11.09	23.33	75%	99
1	1100	840	724	23.29	32.30	61%	104	1	1200	1000	861	25.40	41.94	61%	107
2	1100	1118	1024	20.79	33.13	70%	104	2	1200	1330	1218	22.68	43.00	70%	107
3	1100	1350	1275	18.72	33.80	75%	104	3	1200	1607	1517	20.42	43.88	75%	106
4	1100	1481	1418	17.48	33.80	77%	103	4	1200	1763	1687	19.07	43.88	77%	105
5	1100	1635	1579	15.93	33.50	78%	103	5	1200	1946	1879	17.37	43.49	78%	105
6	1100	1751	1703	14.71	33.08	78%	102	6	1200	2084	2026	16.05	42.95	78%	105
7	1100	1905	1875	12.20	31.05	75%	102	7	1200	2267	2232	13.31	40.31	75%	104
1	1300	1173	1011	27.52	53.32	61%	109	1	1400	1361	1172	29.64	66.59	61%	111
2	1300	1561	1430	24.57	54.68	70%	109	2	1400	1810	1658	26.45	68.29	70%	111
3	1300	1886	1781	22.12	55.79	75%	109	3	1400	2187	2065	23.82	69.68	75%	111
4	1300	2069	1980	20.66	55.79	77%	108	4	1400	2400	2296	22.25	69.68	77%	110
5	1300	2284	2205	18.82	55.29	78%	108	5	1400	2649	2558	20.27	69.06	78%	110
6	1300	2446	2378	17.38	54.60	78%	107	6	1400	2837	2758	18.72	68.20	78%	109
7	1300	2661	2619	14.42	51.25	75%	106	7	1400	3086	3037	15.53	64.01	75%	109

- The A-Weighted sound rating shown have been calculated per AMCA Standard 301
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- Performance certified is for installation type B - free inlet, ducted outlet.
- Performance ratings do not include the effects of apputenances(accessories), Power rating kW does not include transmission losses.