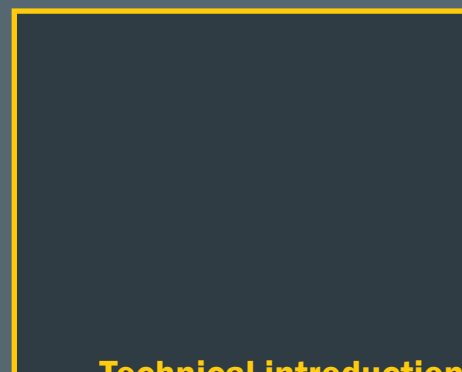
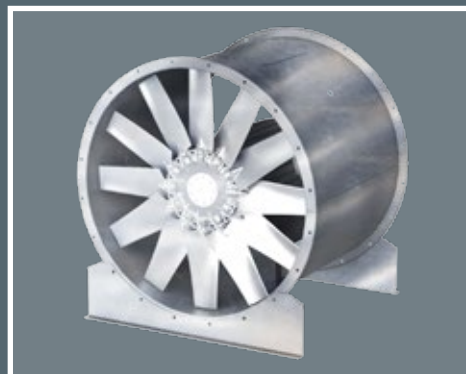


TA-HT

Duct Axial Fan F400



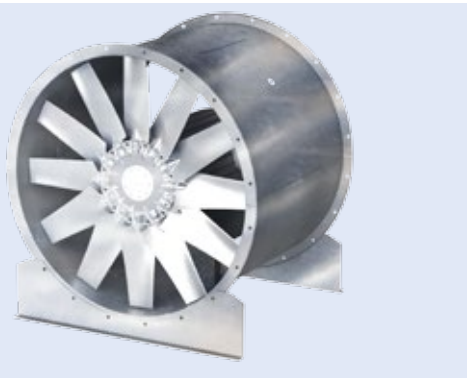
Technical introduction



DYNNAIR®

> TA-HT

Duct Axial Fan F400 (certified according to EN 12101-03)



Applus⁺

F400



Maico Ventilation Pvt. Ltd certifies that the DYNAIR model TA-HT 900 to 1120 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA certified ratings seal applies to the fan efficiency grade for models TA-HT 900 to 1120 (except TA-HT-900-12-12).

The AMCA certified ratings seal applies to air performance (and sound) for model TA-HT-900-12-12.

DESCRIPTION

The Tube axial fans of TA-HT series are used for ducted/ non ducted installation required large air flow with relatively low pressure drop, general ventilation and extraction, cooling and refrigeration in industrial, naval commercial, civil, energetic fields, electromechanical cooling, environmental control -crop storage, petrochemical process ventilation, This series has the advantage of being smaller in dimension and easier to install. The series consist of different sizes with impeller diameter from 400 to 1250 mm. TA-HT fans can be fitted with motor of different polarity, depending required performances. Suitable for conveying clean air with temperature from -10°C to 50°C in (S1) continuous service.

CONSTRUCTION

- Casing in sheet steel, with fixing flanges manufactured according to UNI ISO 6580-EUROVENT standard.
- Protected against atmospheric agent by HDG (Hot Dip Galvanizing) fully adjustable high performance Axial Impeller with aerofoil profile blades and hub in Die Cast Aluminium, x-ray Inspection, Multiple blade configurations for optimum performance, all impeller are statically and dynamically balanced according ISO1940 and AMCA 204-G2.5 Standard.
- Variable pitch angle in still position with setting means, Impeller directly coupled to the motor and air flow from motor to impeller, all fans after assembly are trim-balanced to ISO1940 and AMCA 204 -G2.5 standard.

MOTOR

Asynchronous three phase Motor according to international standard IEC 600034, IEC 60072, EMC 2004/108/CE LVD 2006/95/CE Marked IP 55 CL H, F400 certified according to the European directive EN 12101-3.

ACCESSORIES

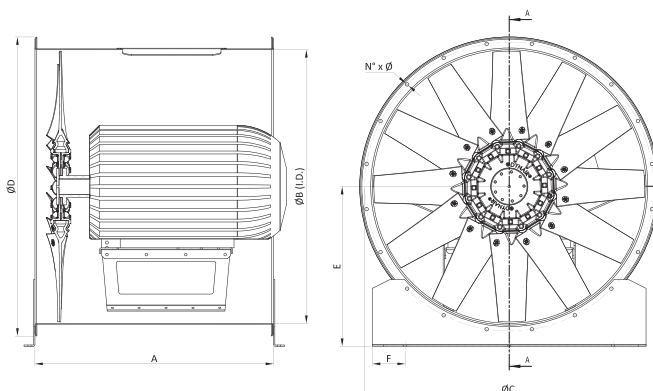
- Flat(CCr)Protection guard
- Flexible Connector (CCga).
- Inlet/Outlet bell Mouth (CCbo).
- Silencer with or without Pod, in three lengths (CCsa & CCsb).
- Counter Flange (CCf)/ Counter Flange with collar (CCfc)
- Anti-Vibration mounts

UPON REQUEST

- Performances differing from standard
- Casing protection by epoxy paint and stainless steel.
- Air flow from impeller to motor
- Multi-stage versions for higher pressure development (ISO-rotating or contra-rotating)
- Energy saving with IE2 motor.
- Backdraft Damper
- Completely reversible impeller

DIMENSIONS

TA- HT



TYPE	A	ØB	ØC	ØD	E	F	N	Ø	Kg
TA-HT 900	770	900	970	1013	565	70	16	16	70
TA-HT 1000	840	1000	1070	1113	610	70	20	16	112
TA-HT 1120	840	1120	1190	1233	675	150	20	16	123

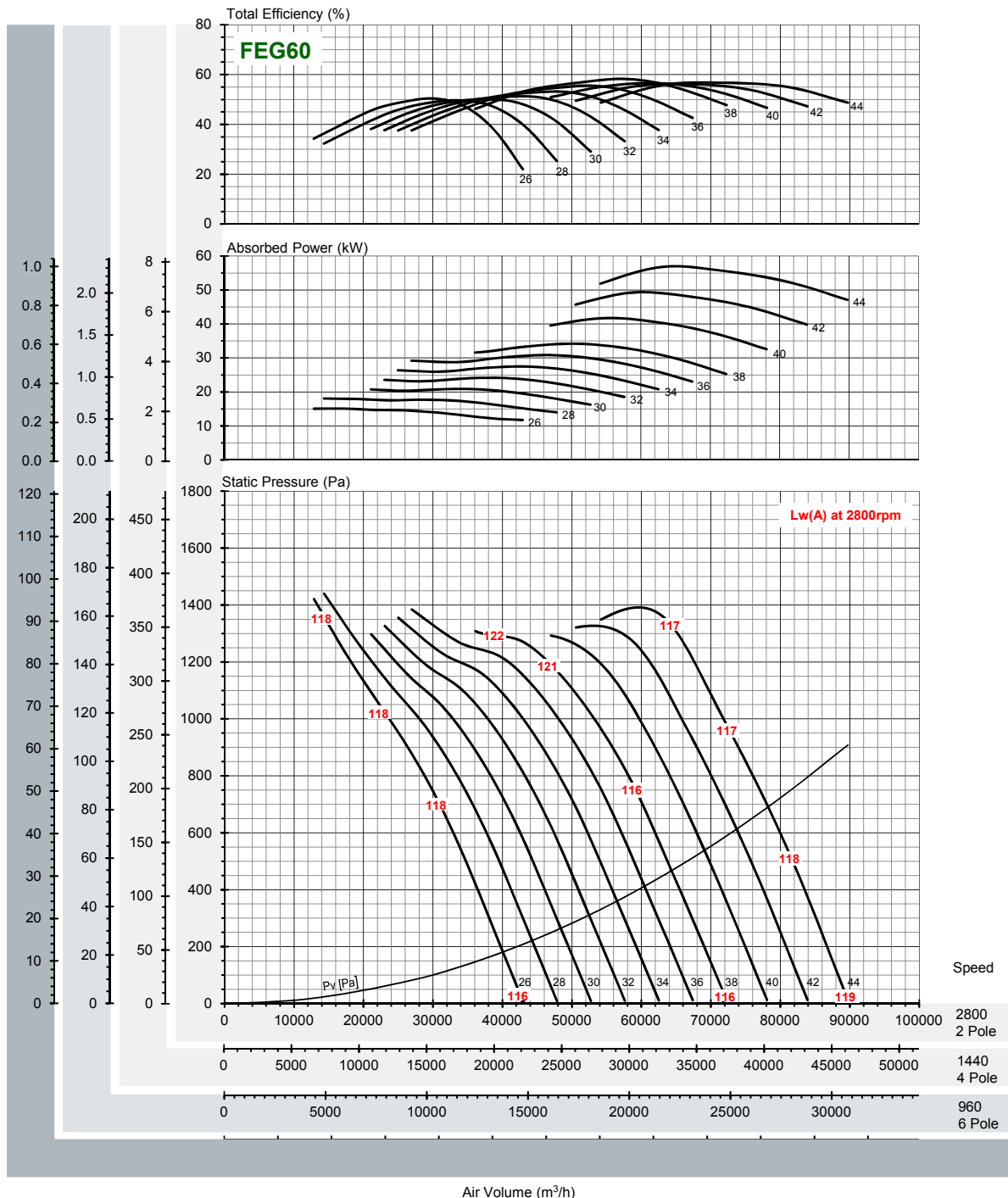
Dimensions in mm

* Weight without motor and impeller.

AXIAL FLOW FAN

50 Hz
TA-HT 900-6-6

$\rho = 1.2 \text{ kg/m}^3$



Air Volume (m³/h)

Peak Absorbed Power (kW)

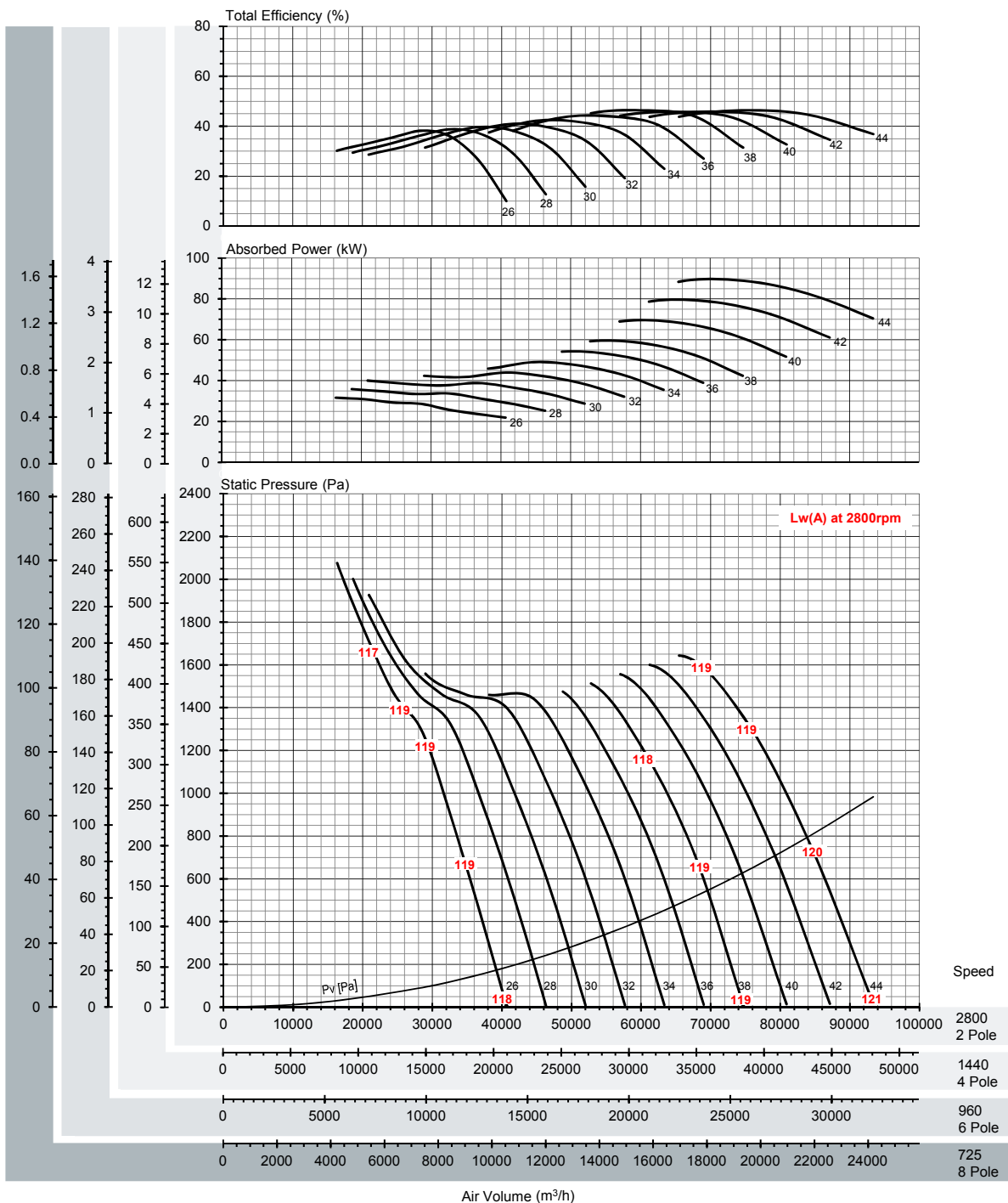
N (rpm)	Peak Absorbed Power (kW)										LwA dB(A)	
	Blade Pitch Angle [°]											
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°		
725 motor	0.262	0.313	0.360	0.418	0.477	0.535	0.594	0.724	0.855	0.986	-35	
		0.37			0.55		0.75		1.1			
960 motor	0.608	0.727	0.836	0.971	1.107	1.243	1.378	1.682	1.986	2.289	-28	
		0.75		1.1		1.5		2.2		3		
1440 motor	2.051	2.454	2.820	3.278	3.736	4.194	4.652	5.677	6.702	7.727	-17	
	2.2		3		3.7		5.5		7.5	11		
2800 motor	15.077	18.042	20.733	24.099	27.465	30.831	34.198	41.733	49.268	56.803	0	
		18.5		22		30		37		45		55

* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

50 Hz
TA-HT 900-12-12
 $\rho = 1.2 \text{ kg/m}^3$



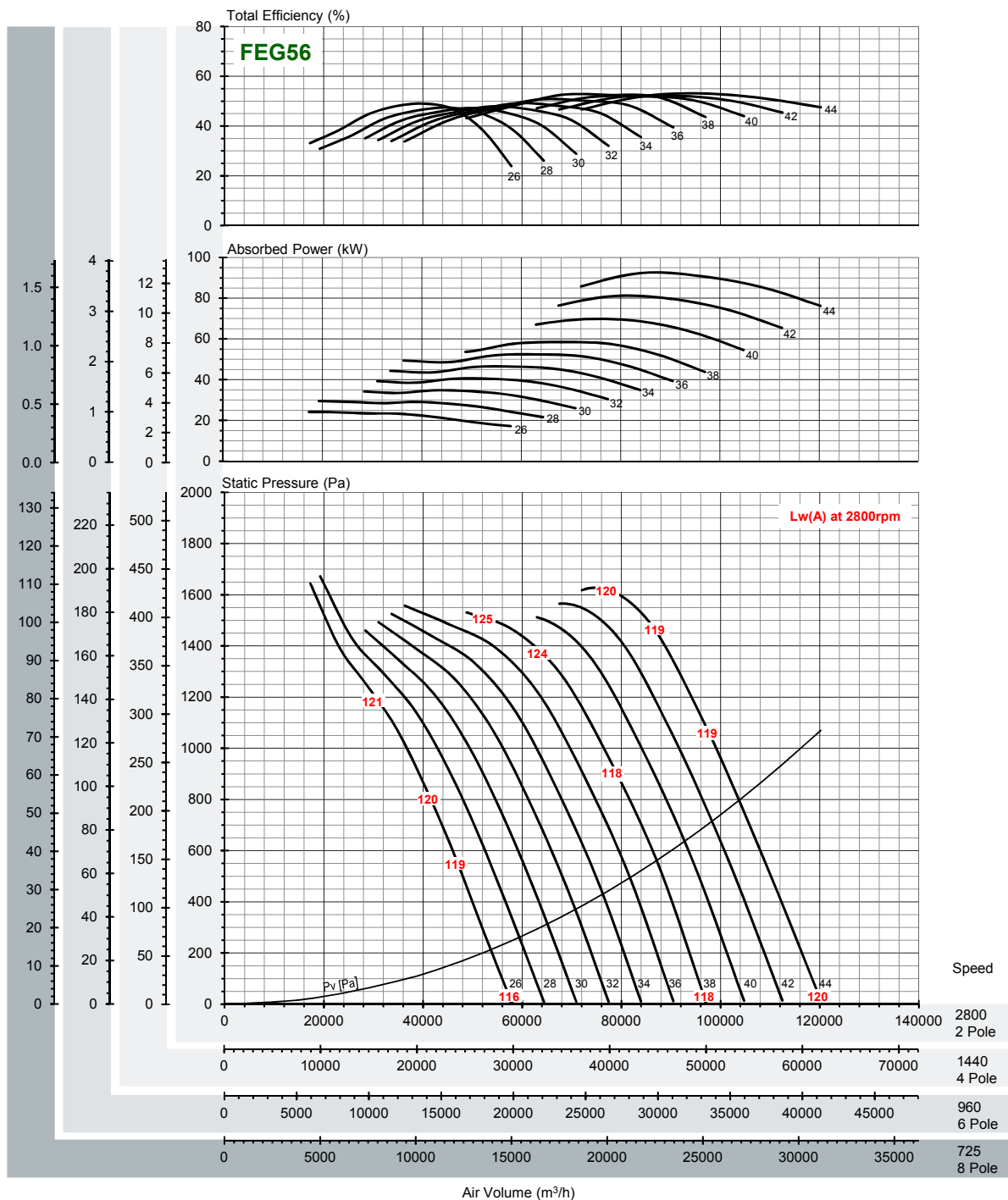
N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
725 motor	0.550	0.623	0.695	0.763	0.852	0.941	1.029	1.198	1.367	1.543	-34
960 motor	1.276	1.445	1.614	1.772	1.978	2.184	2.390	2.780	3.174	3.582	-26
1440 motor	4.307	4.878	5.448	5.979	6.675	7.370	8.065	9.384	10.712	12.091	-16
2800 motor	31.67	35.86	40.06	43.96	49.07	54.18	59.29	68.99	78.75	88.89	0

* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

50 Hz
TA-HT 1000-12-6
 $\rho = 1.2 \text{ kg/m}^3$



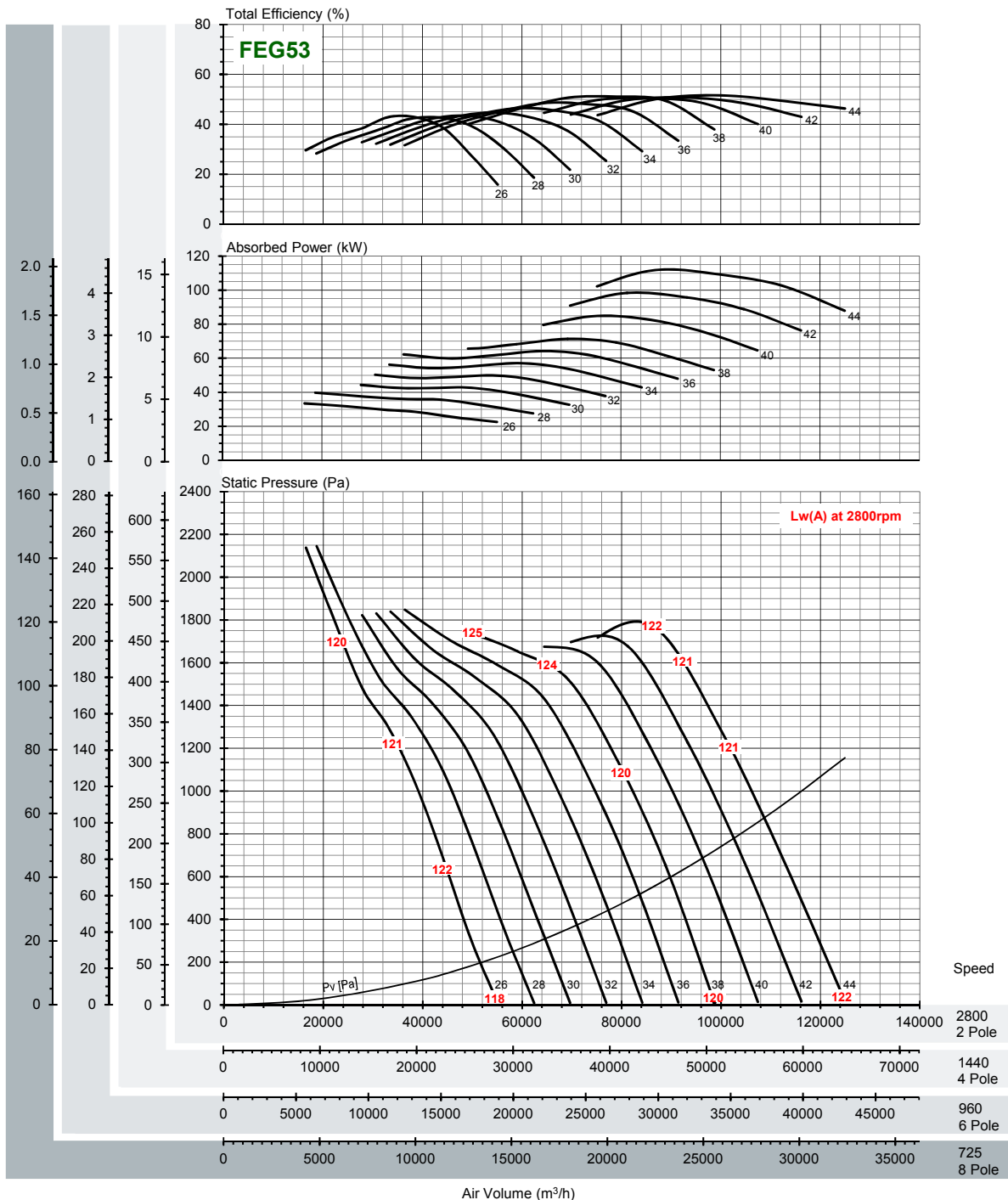
Peak Absorbed Power (kW)											
N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
725 motor	0.419	0.511	0.604	0.703	0.805	0.910	1.015	1.211	1.408	1.604	-34
	0.55		0.75			1.1		1.5		2.2	
960 motor	0.973	1.187	1.402	1.633	1.869	2.113	2.357	2.813	3.269	3.725	-26
	1.1		1.5		2.2		3		3.7	5.5	
1440 motor	3.284	4.008	4.733	5.510	6.309	7.131	7.953	9.492	11.031	12.570	-16
	3.7		5.5		7.5		11		15		
2800 motor	24.14	29.46	34.80	40.51	46.38	52.43	58.47	69.79	81.10	92.41	0
	30		37	45	55		75		90	110	

* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

50 Hz
TA-HT 1000-12-9
 $\rho = 1.2 \text{ kg/m}^3$



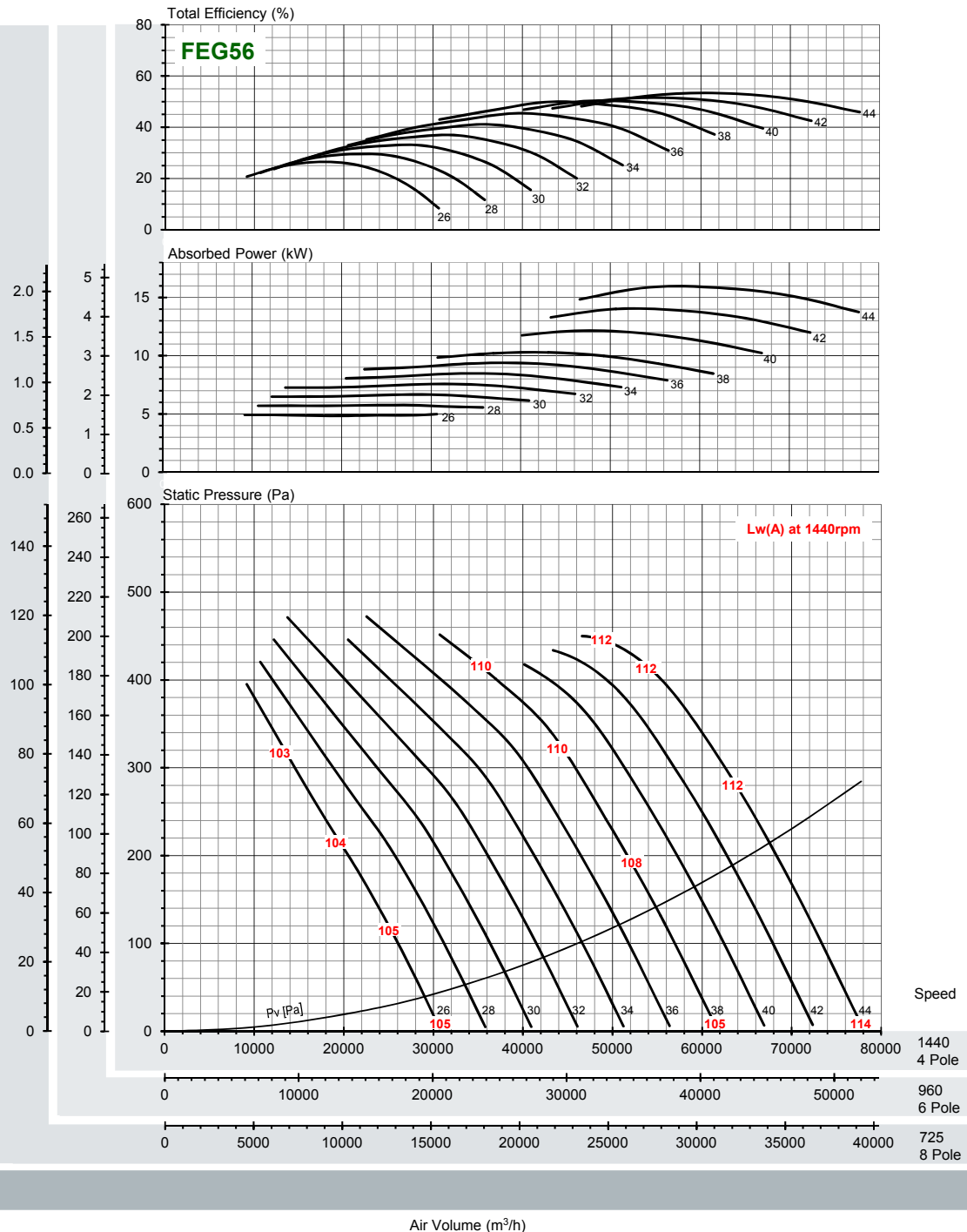
Peak Absorbed Power (kW)											
N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
725 motor	0.580	0.690	0.769	0.873	0.991	1.114	1.238	1.473	1.708	1.942	-34
	0.75		1.1		1.5		2.2				
960 motor	1.348	1.602	1.786	2.027	2.300	2.587	2.875	3.420	3.965	4.509	-26
	1.5		2.2		3		3.7		5.5		
1440 motor	4.548	5.407	6.027	6.840	7.762	8.733	9.703	11.542	13.380	15.219	-16
	5.5		7.5		11		15		18.5		
2800 motor	33.44	39.75	44.31	50.29	57.07	64.20	71.33	84.85	98.37	111.89	0
	37		45		55		75		110		
									132		

* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

50 Hz
TA-HT 1120-6-6
 $\rho = 1.2 \text{ kg/m}^3$



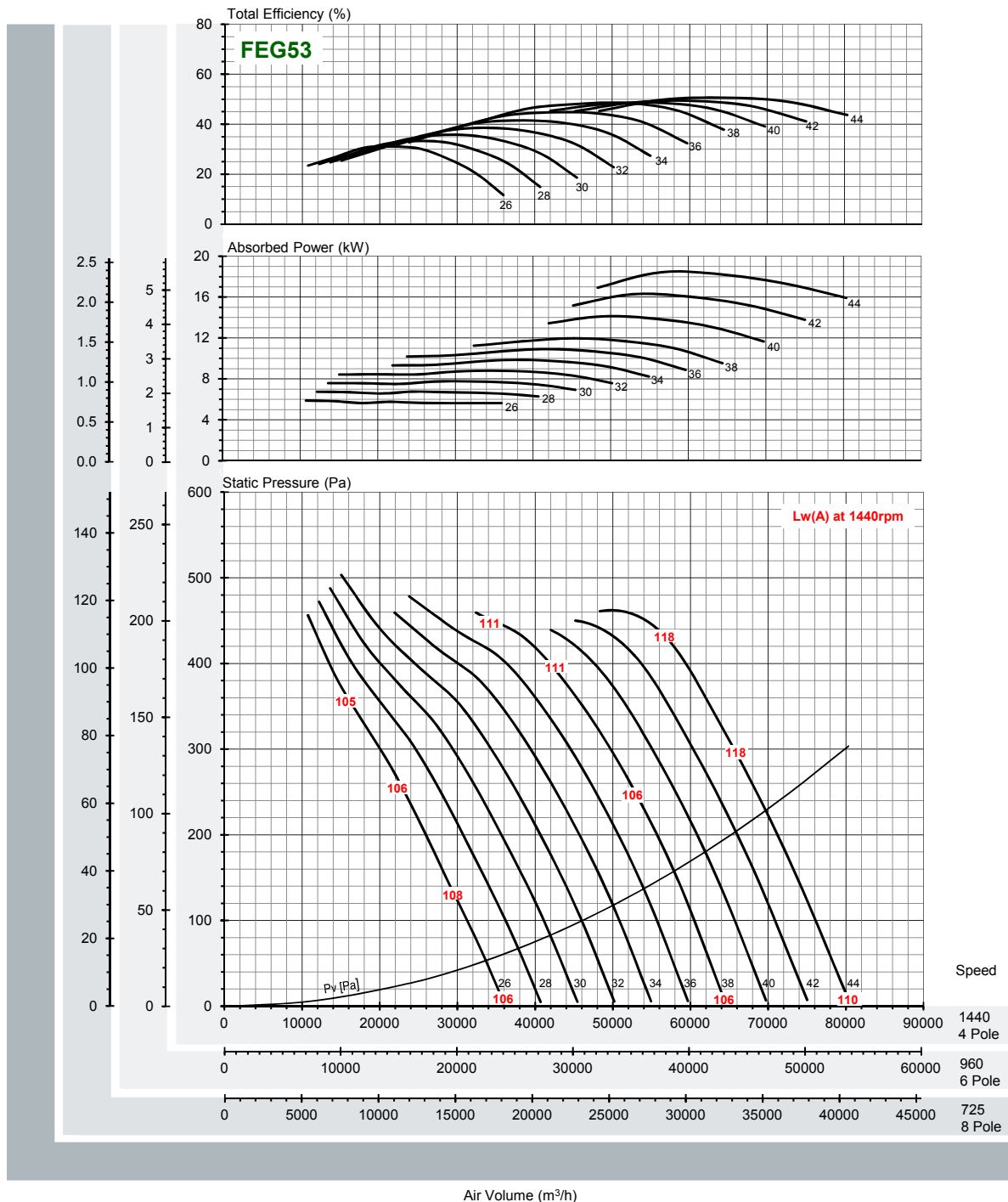
Peak Absorbed Power (kW)											
N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
725 motor	0.628 0.75	0.735	0.850	0.966	1.081	1.197	1.312	1.551	1.789	2.027	-18
960 motor	1.459 1.5	1.706	1.975	2.243	2.511	2.779	3.047	3.600	4.153	4.705	-10
1440 motor	4.924 5.5	5.758	6.664	7.569	8.474	9.379	10.284	12.150	14.016	15.881	0

* Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

50 Hz
TA-HT 1120-12-6
 $\rho = 1.2 \text{ kg/m}^3$



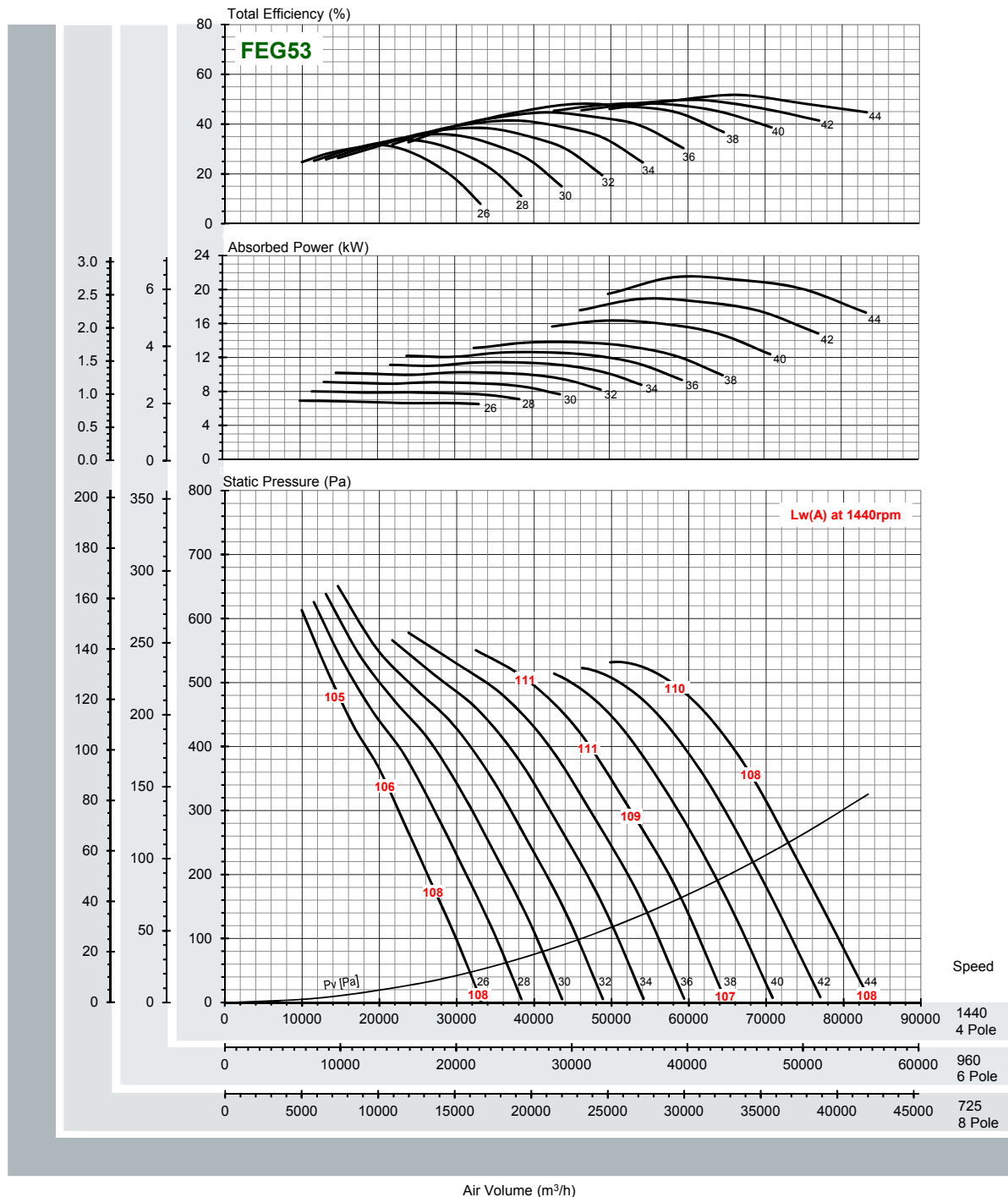
Peak Absorbed Power (kW)											
N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
725 motor	0.751	0.862	0.990	1.125	1.259	1.393	1.528	1.802	2.077	2.352	-17
		1.1			1.5			2.2		3	
960 motor	1.745	2.002	2.299	2.611	2.923	3.235	3.547	4.185	4.822	5.460	-10
		2.2		3			3.7		5.5		
1440 motor	5.888	6.756	7.760	8.812	9.865	10.918	11.970	14.123	16.275	18.428	0
		7.5		11			15		18.5		

* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

50 Hz
TA-HT 1120-12-9
 $\rho = 1.2 \text{ kg/m}^3$



N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
725 motor	0.881	1.021	1.161	1.306	1.456	1.609	1.761	2.087	2.412	2.737	-17
960 motor	2.046	2.370	2.695	3.032	3.381	3.735	4.089	4.844	5.600	6.355	-10
1440 motor	6.905	8.000	9.095	10.232	11.410	12.605	13.800	16.350	18.900	21.449	0

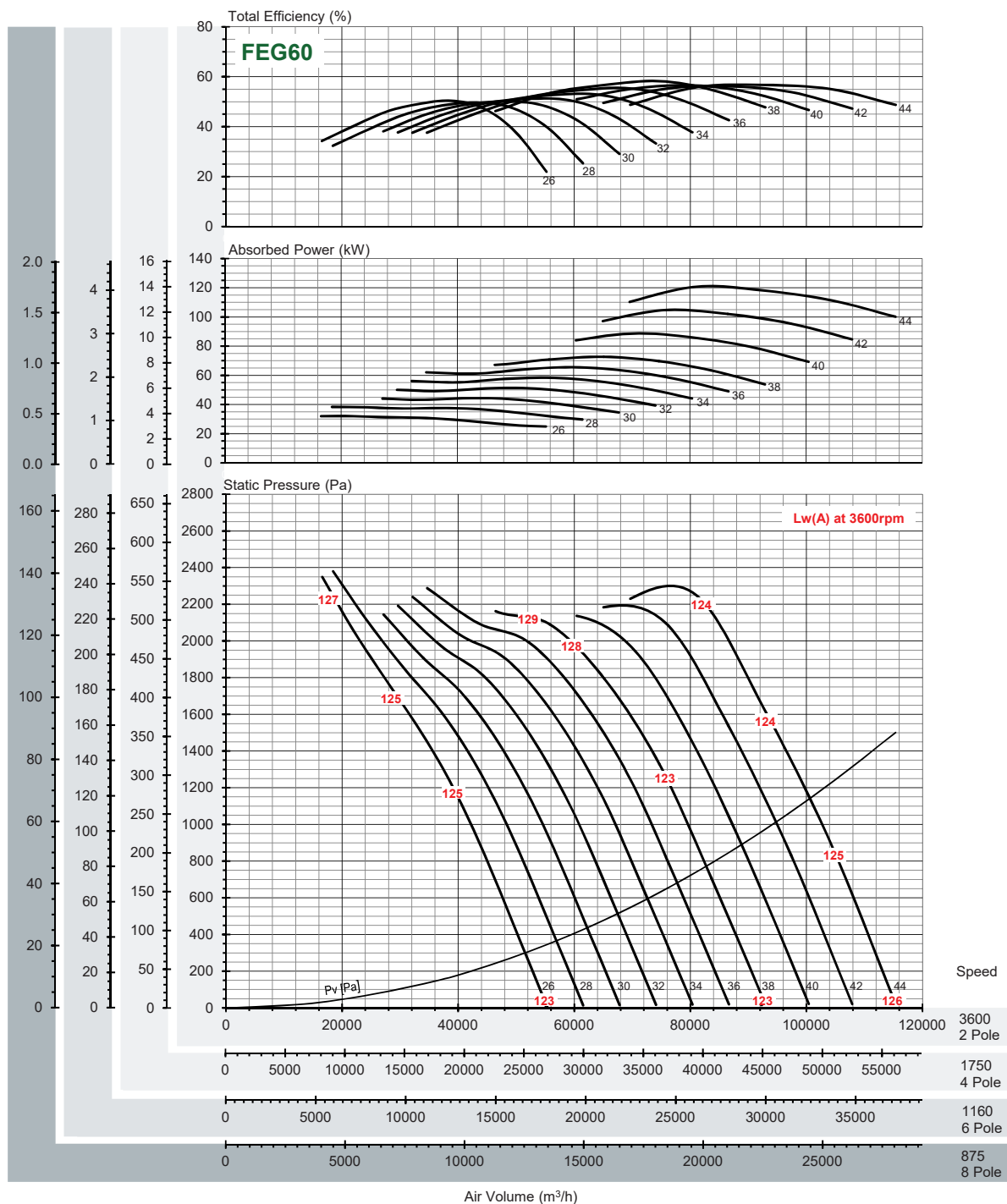
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

60Hz
TAHT 900-6-6

$\rho = 1.2 \text{ kg/m}^3$

AXIAL FLOW FAN



N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
875 motor	0.460	0.551	0.633	0.735	0.838	0.941	1.044	1.274	1.504	1.733	-37
	0.55		0.75			1.1		1.5	2.2		
1160 motor	1.072	1.283	1.474	1.714	1.953	2.192	2.432	2.967	3.503	4.039	-29
	1.1	1.5		2.2			3	3.7	5.5		
1750 motor	3.681	4.405	5.062	5.884	6.705	7.527	8.349	10.189	12.028	13.868	-18
	3.7	5.5		7.5			11	15			
3600 motor	32.04	38.35	44.07	51.22	58.37	65.53	72.68	88.70	104.71	120.73	0
	37	45	55	75			110	132			

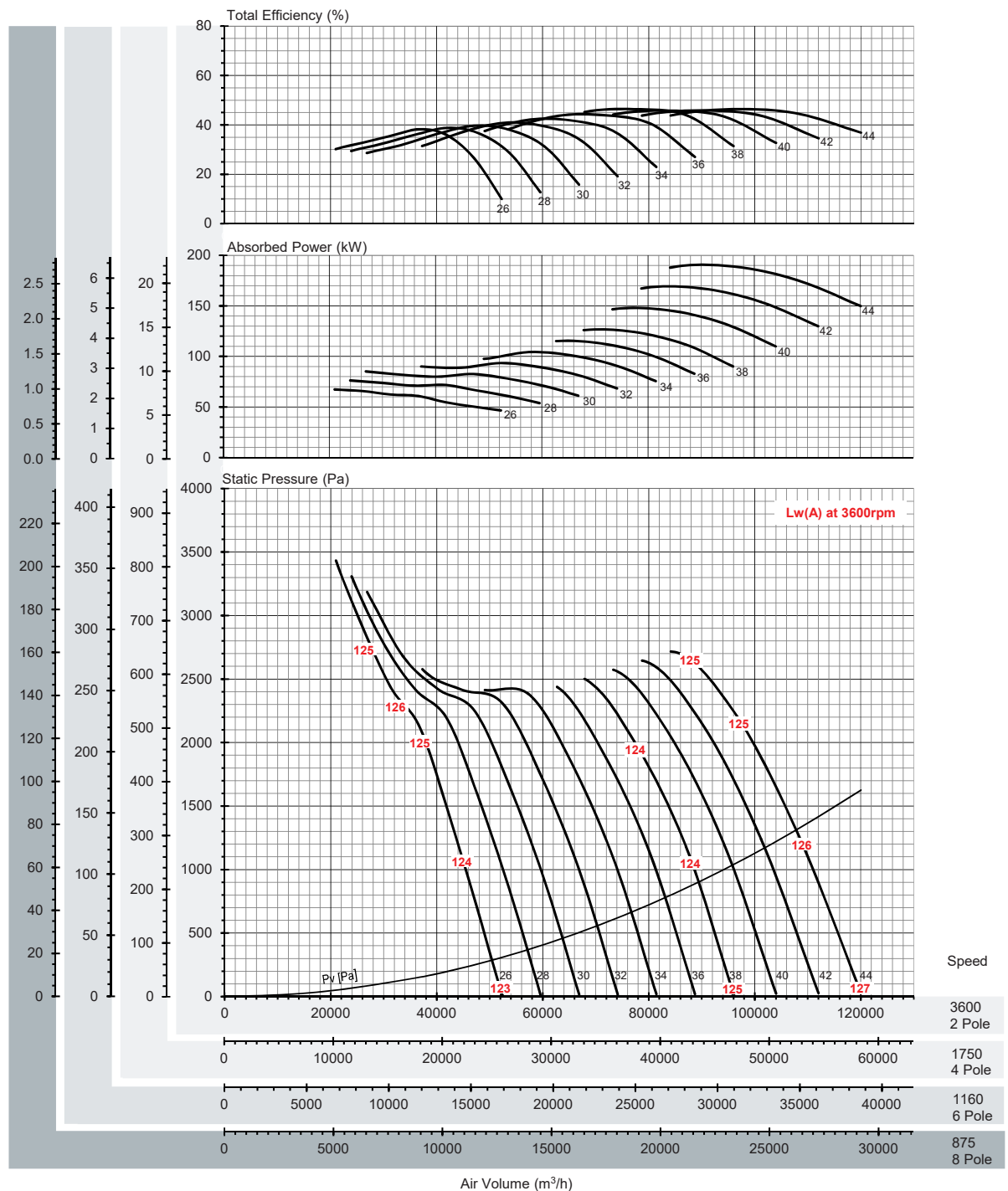
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

60Hz
TAHT 900-12-12

$\rho = 1.2 \text{ kg/m}^3$



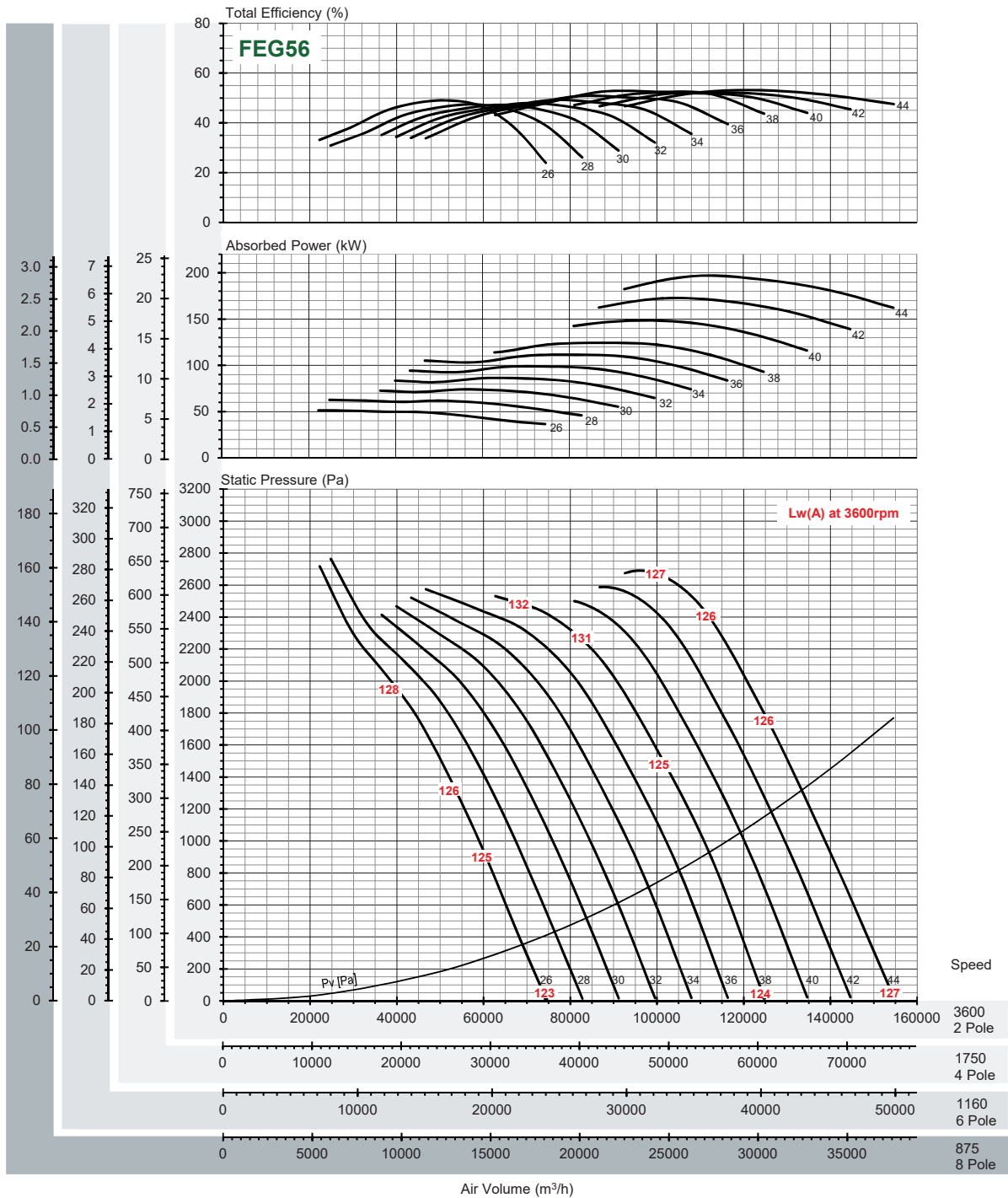
Peak Absorbed Power (kW)											
N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
875 motor	0.966	1.094	1.222	1.341	1.497	1.653	1.810	2.105	2.403	2.713	-34
	1.1		1.5			2.2		3			
1160 motor	2.252	2.550	2.848	3.125	3.489	3.853	4.216	4.905	5.599	6.320	-27
	3			3.7		5.5		7.5			
1750 motor	7.731	8.755	9.779	10.731	11.980	13.228	14.476	16.843	19.226	21.701	-17
	11				15			18.5		22	
3600 motor	67.30	76.22	85.13	93.42	104.29	115.15	126.02	146.62	167.37	188.92	0
	75	90	110		132		160	200			

* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

60Hz
TAHT 1000-12-6
 $\rho = 1.2\text{kg/m}^3$



N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
875 motor	0.737	0.899	1.062	1.236	1.416	1.600	1.784	2.130	2.475	2.820	-35
	0.75	1.1		1.5			2.2		3		
1160 motor	1.717	2.095	2.474	2.880	3.298	3.728	4.158	4.962	5.767	6.571	-28
		2.2	3	3.7			5.5		7.5		
1750 motor	5.894	7.193	8.495	9.889	11.324	12.800	14.275	17.037	19.800	22.562	-17
		7.5	11			15		18.5	22	30	
3600 motor	51.31	62.62	73.95	86.09	98.58	111.43	124.27	148.32	172.36	196.41	0
	55	75	90	110	132	160	200				

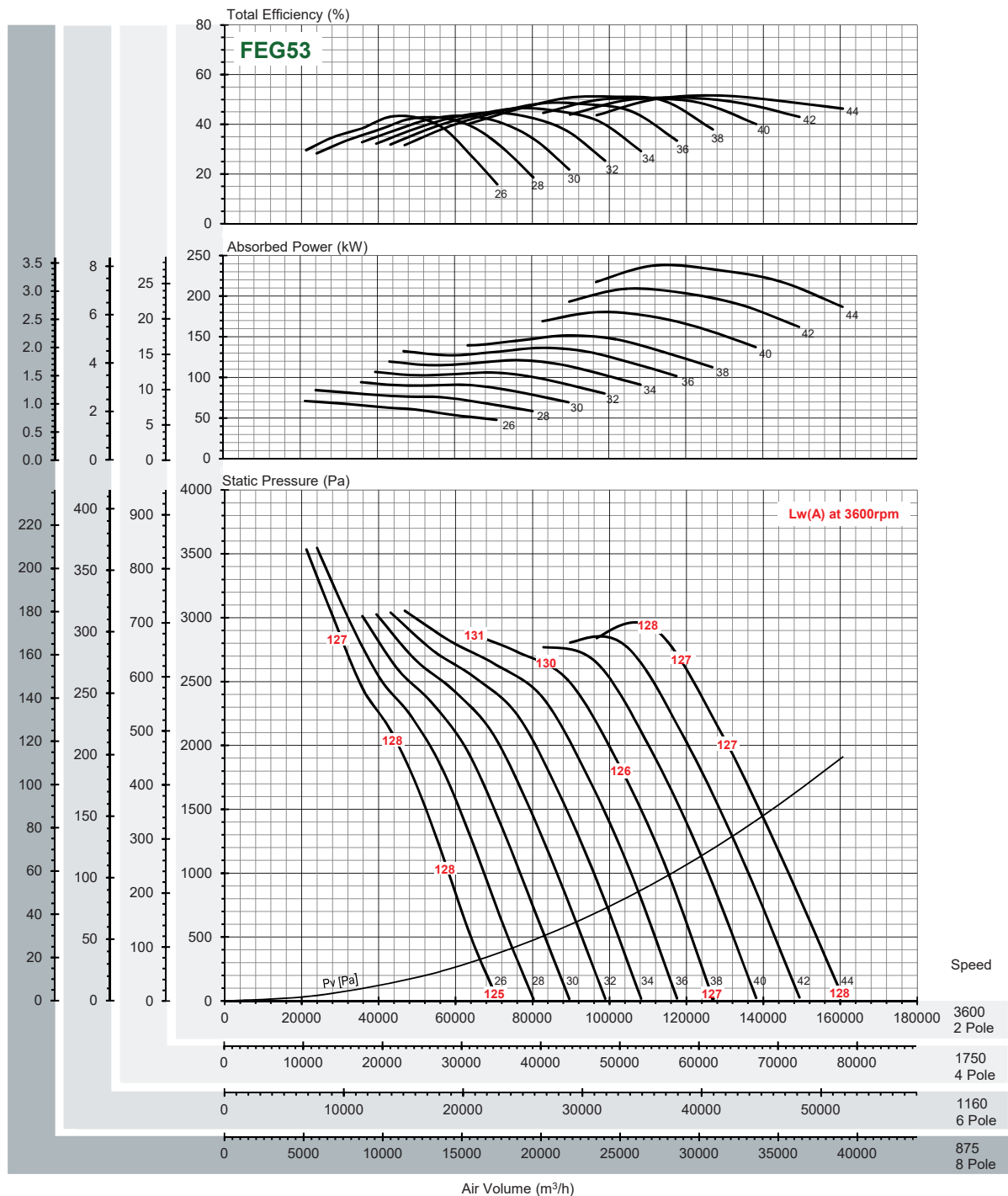
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

60Hz
TAHT 1000-12-9

$\rho = 1.2\text{kg/m}^3$



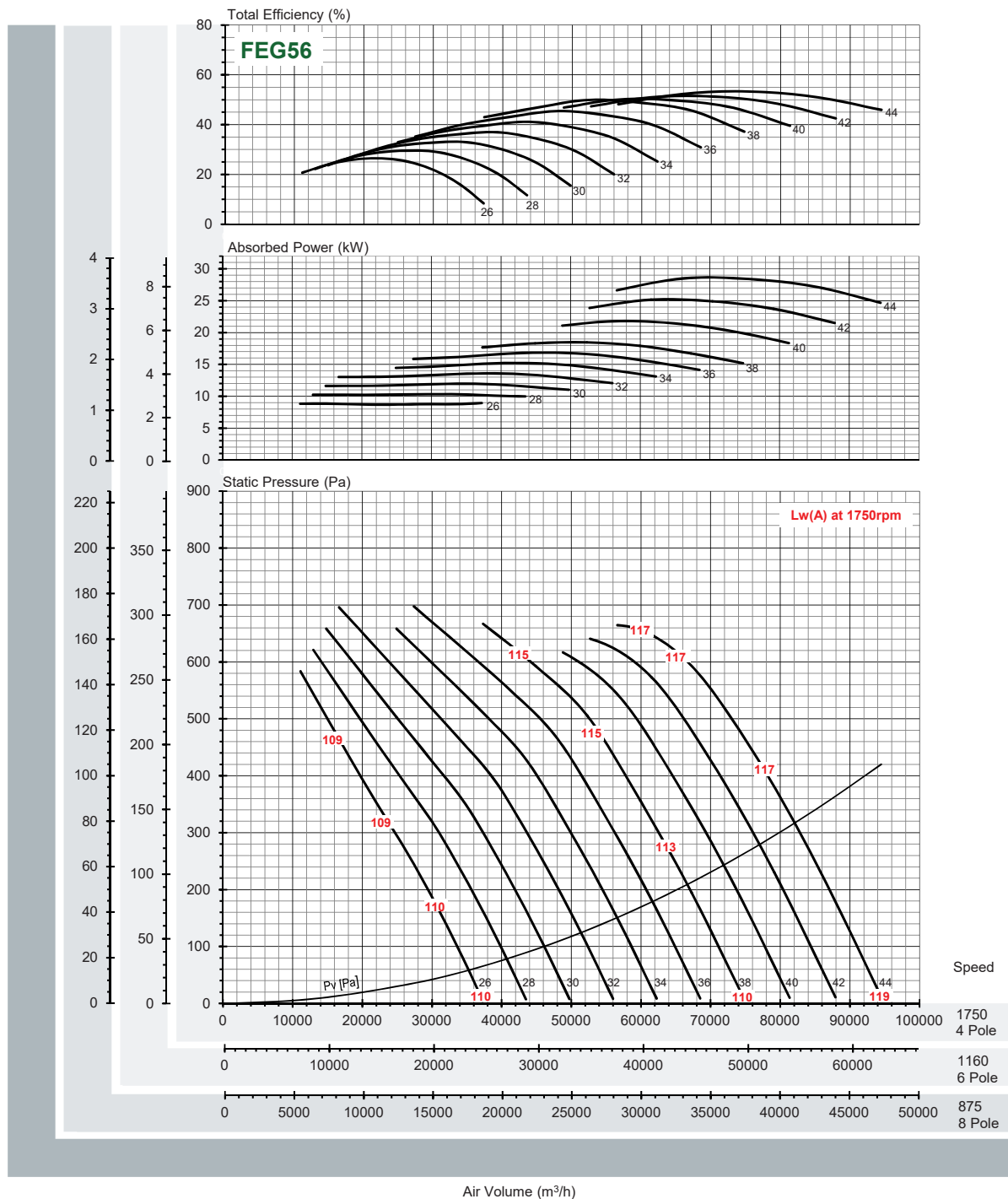
N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
875 motor	1.020	1.213	1.352	1.535	1.741	1.959	2.177	2.589	3.002	3.414	-35
	1.1	1.5			2.2			3	3.7		
1160 motor	2.377	2.826	3.150	3.576	4.058	4.565	5.072	6.033	6.994	7.956	-28
	3		3.7			5.5		7.5	11		
1750 motor	8.163	9.704	10.817	12.277	13.932	15.674	17.415	20.715	24.016	27.316	-18
	11			15		18.5		22	30		
3600 motor	71.06	84.48	94.17	106.88	121.28	136.45	151.61	180.34	209.07	237.80	0
	75	90	110	132	160	200	250				

* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

60Hz
TAHT 1120-6-6
 $\rho = 1.2\text{kg/m}^3$



N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
875 motor	1.983	2.319	2.683	3.048	3.412	3.777	4.141	4.893	5.644	6.395	-18
1160 motor	4.620	5.402	6.252	7.102	7.951	8.800	9.649	11.400	13.150	14.900	-10
1440 motor	8.838	10.335	11.961	13.585	15.210	16.834	18.458	21.807	25.157	28.504	0

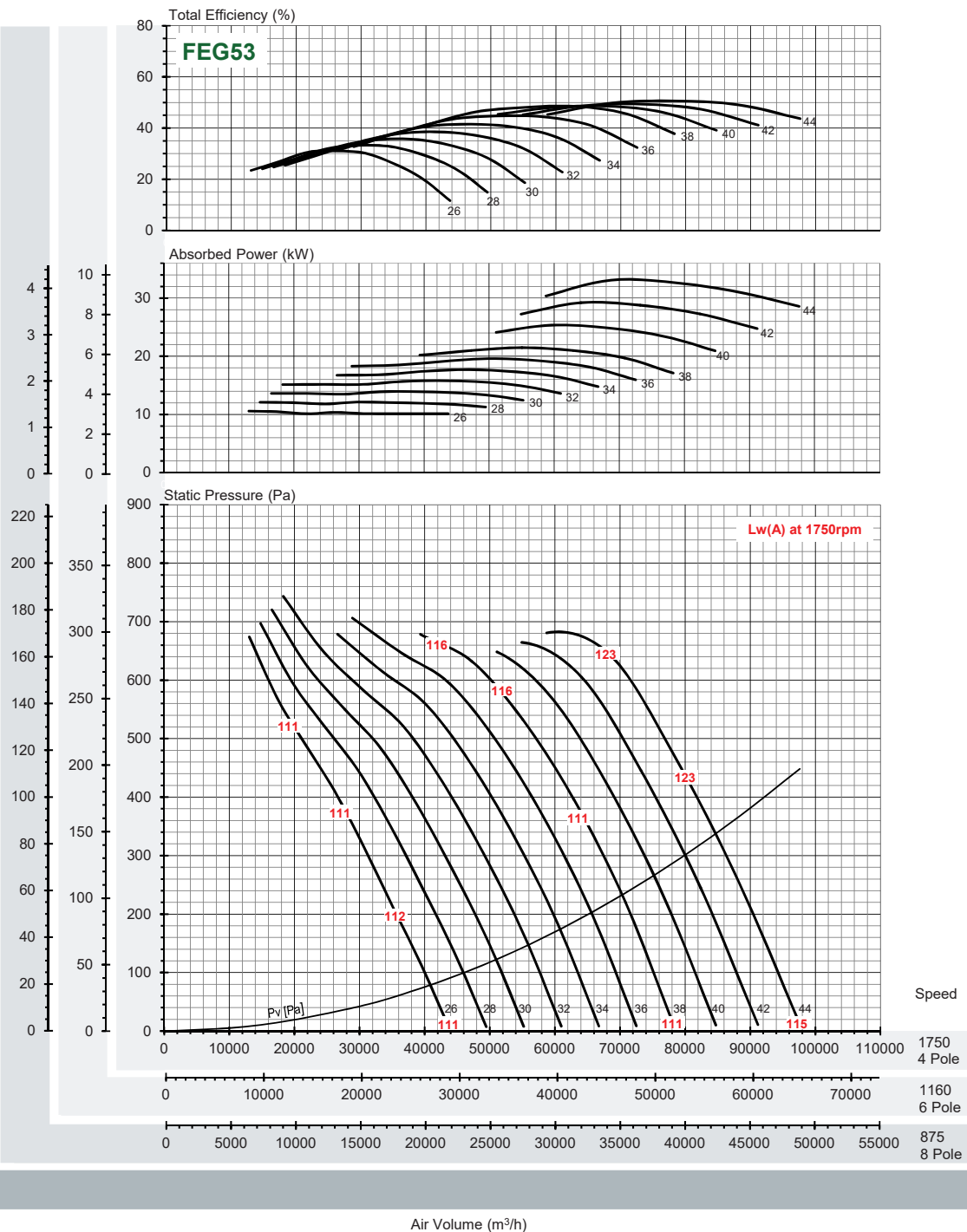
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

60Hz
TAHT 1120-12-6

$\rho = 1.2 \text{ kg/m}^3$



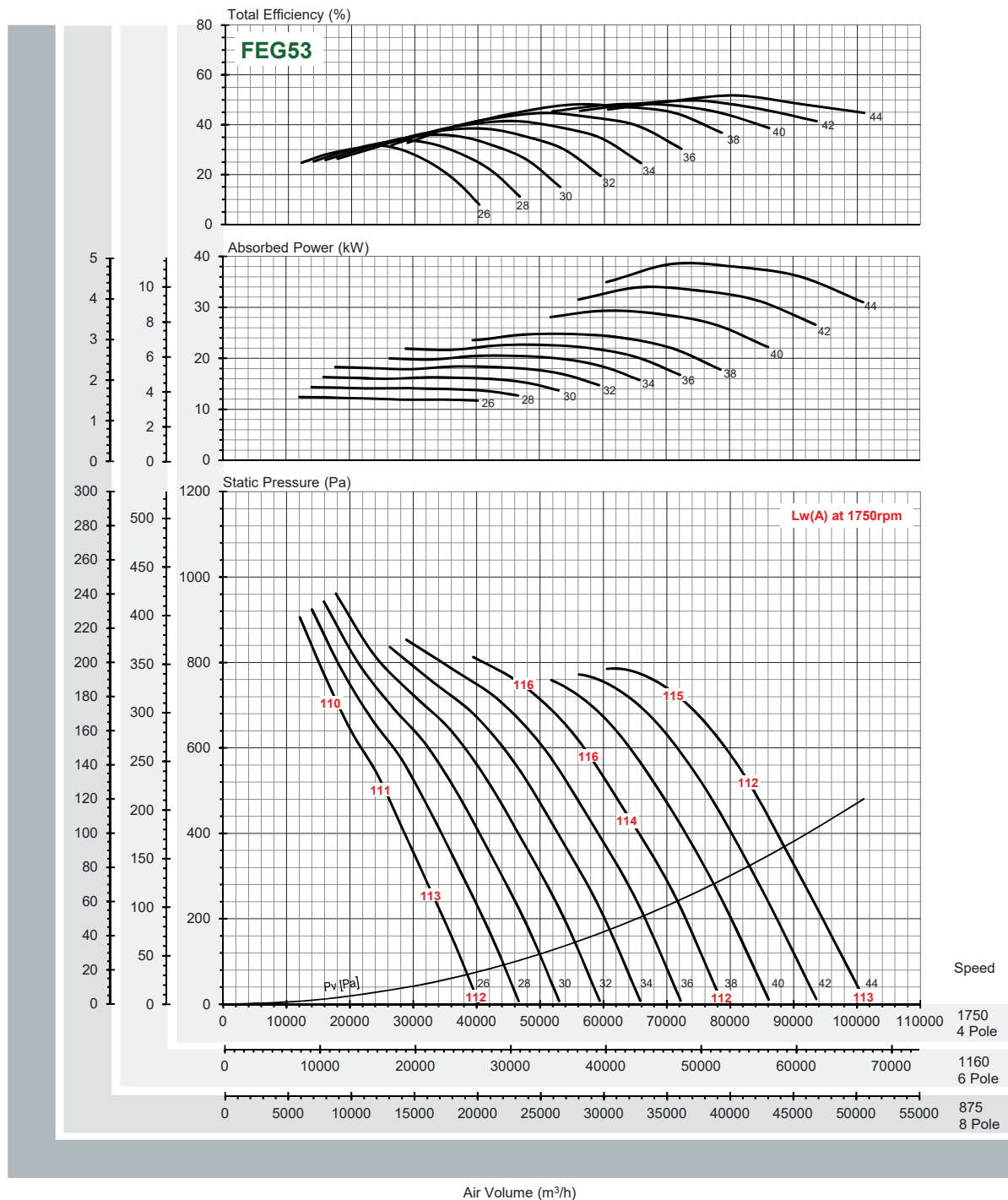
N (rpm)	Blade Pitch Angle [°]										LwA dB(A)
	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	
875 motor	1.321 1.5	1.516 2.2	1.741 2.2	1.977 2.2	2.213 3	2.450 3	2.686 3	3.169 3.7	3.651 3.7	4.134 5.5	-17
1160 motor	3.078 3.7	3.532 3.7	4.056 5.5	4.606 5.5	5.157 5.5	5.707 7.5	6.257 7.5	7.383 11	8.508 11	9.633 11	-10
1750 motor	10.568 11	12.126 15	13.928 15	15.816 18.5	17.706 18.5	19.596 22	21.484 22	25.349 30	29.211 30	33.075 37	0

* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

AXIAL FLOW FAN

60Hz
TAHT 1120-12-9
 $\rho = 1.2\text{kg/m}^3$



* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

SUPPORT FEET CCst

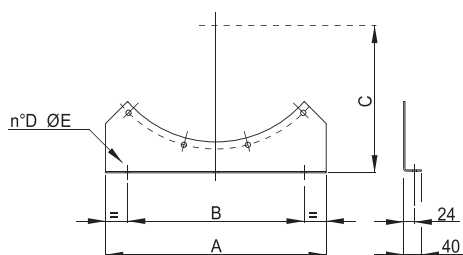
Suitable to fasten the fan on the floor or to the ceiling. Manufactured in steel sheet and protected against atmospheric agents by HDG.

Cod.*	TYPE	A	B	C	D	ØE	kg**
1ST0900	CCst 90	900	760	600	3	14	4,5
1ST1000	CCst 100	1000	860	640	3	14	4,8
1ST1120	CCst 112	1120	980	710	3	14	6,8

Dimensions in mm

* Item code of the set of 2

** Weight of a single support

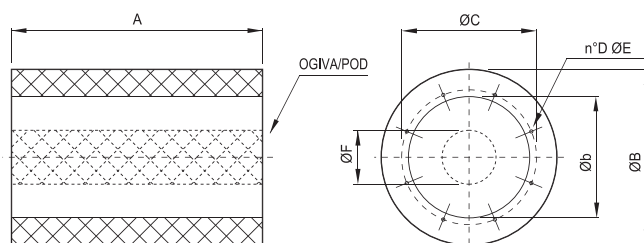


CYLINDRICAL SILENCERS CCsa/CCsb

The cylindrical silencers CCs are available in two versions, without pod (CCsa) and with pod (CCsb). The presence of the pod allows a higher noise attenuation, but creates an additional pressure drop in the system. Both the versions can be fixed to the corresponding flange of the CC in inlet and outlet. The CCsa series doesn't create additional losses. The CCsb series gives an additional loss, as shown in the diagram at page **.

Silencers can be provided with length equal to 1 - 1,5 - 2 times the diameter (b). These silencers are manufactured completely in galvanized steel. The internal part and the pod are made in perforated sheet, to effectively allow the sound absorption of the acoustic lining in mineral wool. The working temperature is included from -40°C and +150°C in S1 service. They are certified in the same categories of temperature as CC HT / CC SHT in emergency service.

TYPE CCsa / CCsb	ØB	Øb	ØC	D	ØE	ØF
90	1100	900	970	16	M12	380
100	1200	1000	1070	16	M12	655
112	1320	1120	1190	20	M12	655



TYPE CCsa	A 1Ø	kg	A 1,5Ø	kg	A 2Ø	kg
90	900	70	1350	94	1800	112
100	1000	113	1500	137	2000	161
112	1120	130	1680	154	2240	178

TYPE CCsb	A 1Ø	kg	A 1,5Ø	kg	A 2Ø	kg
90	900	130	1350	153	1800	175
100	1000	143	1500	180	2000	216
112	1120	165	1680	202	2240	238

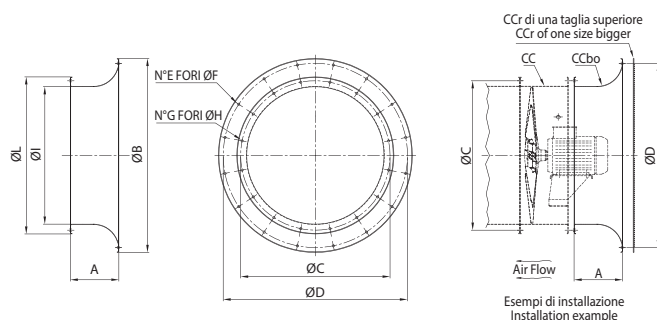
Dimensions in mm

INLET/OUTLET CONE CCbo

It allows a higher fan efficiency in case of installation with inlet or outlet not ducted. Manufactured in steel sheet, with one flange according to UNI ISO6580 – EUROVENT to be fitted to the TA-HT fan, and an aerodynamically shaped bell mouth, with fixing holes for a protection guard (of one size bigger, example CCbo 71 + CCr 80). Protected against atmospheric agents by epoxy paint.

Cod.	TYPE	A	B	C	D	E	F	G	H	I	L	kg
5B09690	CCbo 90	300	1125	970	1070	16	16	16	16	910	1125	29,4
5B09700	CCbo 100	300	1245	1070	1190	20	16	16	16	1010	1245	33,3
5B09712	CCbo 112	300	1380	1190	1320	20	16	20	16	1130	1380	37,3

Dimensions in mm
Indicative weights

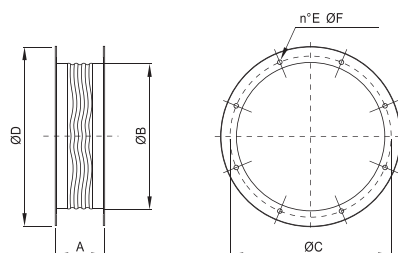


FLEXIBLE CONNECTORS CCga-HT

It prevents the propagation of vibrations along the ducted system. Manufactured with two flanges in steel sheet, according to UNI ISO6580 – EUROVENT standard for fixing to the fan and to the duct, and a strong flexible fabric joint. Suitable for high temperature working. Components in steel sheet protected against atmospheric agents by epoxy paint.

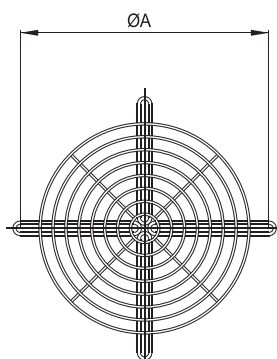
Cod.	TYPE	A	ØB	ØC	ØD	E	ØF	kg
1SU5901	CCga 90	200	900	970	1030	16	16	23
1SU6001	CCga 100	200	1000	1070	1130	16	16	26
1SU5910	CCga 112	200	1120	1190	1250	20	16	29

Dimensions in mm
Indicative weights



PROTECTION GUARDS CCr

They prevent from casual contact with moving parts of the fan. Manufactured in steel rod and protected against atmospheric agents. CCr: flat version (for long case and short case on impeller side)



Cod.	TYPE	ØA	kg
5RE9090	CCr 90	970	3,4
5RE9100	CCr 100	1070	3,5
5RE9102	CCr 112	1190	4,0

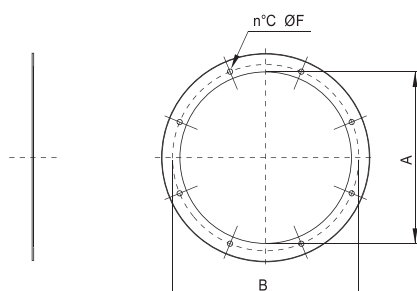
Dimensions in mm

COUNTER FLANGE CCf

Ring plate with holes according to UNI ISO6580 – EUROVENT standard, compatible with fan flange. It is used for easier connection between the CC fan and the duct.

Cod.	TYPE	ØA	ØB	C	ØD	kg
5B01092	CCf 90	900	970	16	16	4,7
5B01110	CCf 100	1000	1070	16	16	5,2
5B01212	CCf 112	1120	1190	20	16	6,5

Dimensions in mm.

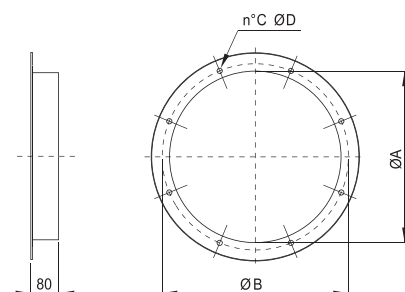


COUNTER FLANGE WITH COLLAR CCfc

Counter flange with addition of 80 mm of round duct. It is used for easier connection between the CC fan and the duct.

	TYPE	ØA	ØB	C	ØD	kg
5B01590	CCfc 90	900	970	16	16	4,2
5B01600	CCfc 100	1000	1070	16	16	5
5B01620	CCfc 112	1120	1190	20	16	5,8

Dimensions in mm
Indicative weights





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