

Hison Axial Flow Fans

Introduction

Hison Marine Axial Flow Fans, formerly known as Howden Fans, are manufactured to international Quality Standard. Axial flow fans are available from sizes 305mm to 1800mm diameter, and incorporated with heavy duty marine grade impellers with aerofoil blades for better efficiencies and lower sound level.

Performance

Ranges from 100m³/hr to 250000m³/hr and static pressure up to 125mmwg

Construction

Fans for marine industries and offshore projects are ruggedly constructed to withstand stringent and hostile environments.

Explosion proof motors and spark resistance construction fans are available on requirement. Spark resistant construction fans are built in accordance to AMCA standard 99-0401-86, Type B constructions.

Anti-spark ring on standard fans is available on request.

Testing

Performance of fans is tested in accordance to AMCA Publication 211 and comply with the requirement of the AMCA Certified Ratings Program.

Sound ratings shown are based on tests and procedures in accordance with AMCA Standard 300 and 301

Direction of Airflow

Versatility of airflow direction of form 'B' or form 'A'

Typical Applications

- Air Conditioning
- Building Ventilation
- Marine Industries
- Offshore Projects
- Oven Exhaust
- Spray Booth Exhaust
- Cooling
- Kitchen Exhaust, etc....

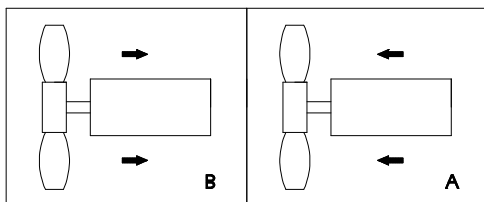


Airtrade System certifies that the Hison Axial Flow Fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

Hison Axial Flow Fans

Direction of Airflow

Versatility of airflow direction of form 'B' or form 'A'



Surface Coating

- Hot Dipped Galvanized to EN ISO 461:1999 which also comply to ASTM A123, A153 and BS 729.
- Blasted to SA 2-1/2 and coated with Hi-Built epoxy paint for marine environment and most industries applications.
- Special painting to user specification is available upon request.

Impeller

Adjustable Blades angles design to meet varied volume and pressure system requirements featuring the blade shank with tapered conical section. The tapered section fits into a conical slot in the hub, providing a taper lock fit. A bolt is cast into the blade, projecting into the hub and is secured on the inside by lock-washer and nut.



Balancing Standard

All fan impellers are statically and dynamically balanced to ISO 1940-1973 (E) G: 6.3 standards.

Motors

All Fans shall be supplied with totally enclosed, high efficiency motors of IP 55 degree of protection, foot-mounted Class F insulation, built to International Standard (IEC)

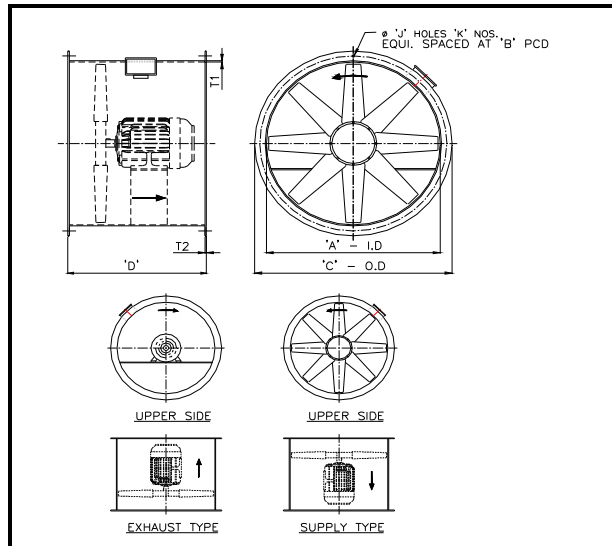
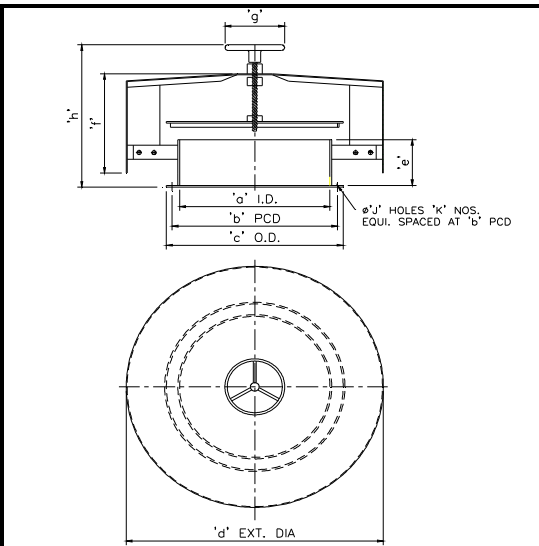
Special motors such as Explosion Proof, 2 speeds, Class H or D.C. motors are available to suit each specific application.

Accessories

- Separate upstream and downstream guide vanes
- Inlet/Outlet Silencers
- Mounting Feet
- Inlet Cones
- Matching Flange
- Mushroom Ventilators
- Control Damper
- Wire Guards
- Anti-Vibration Mountings

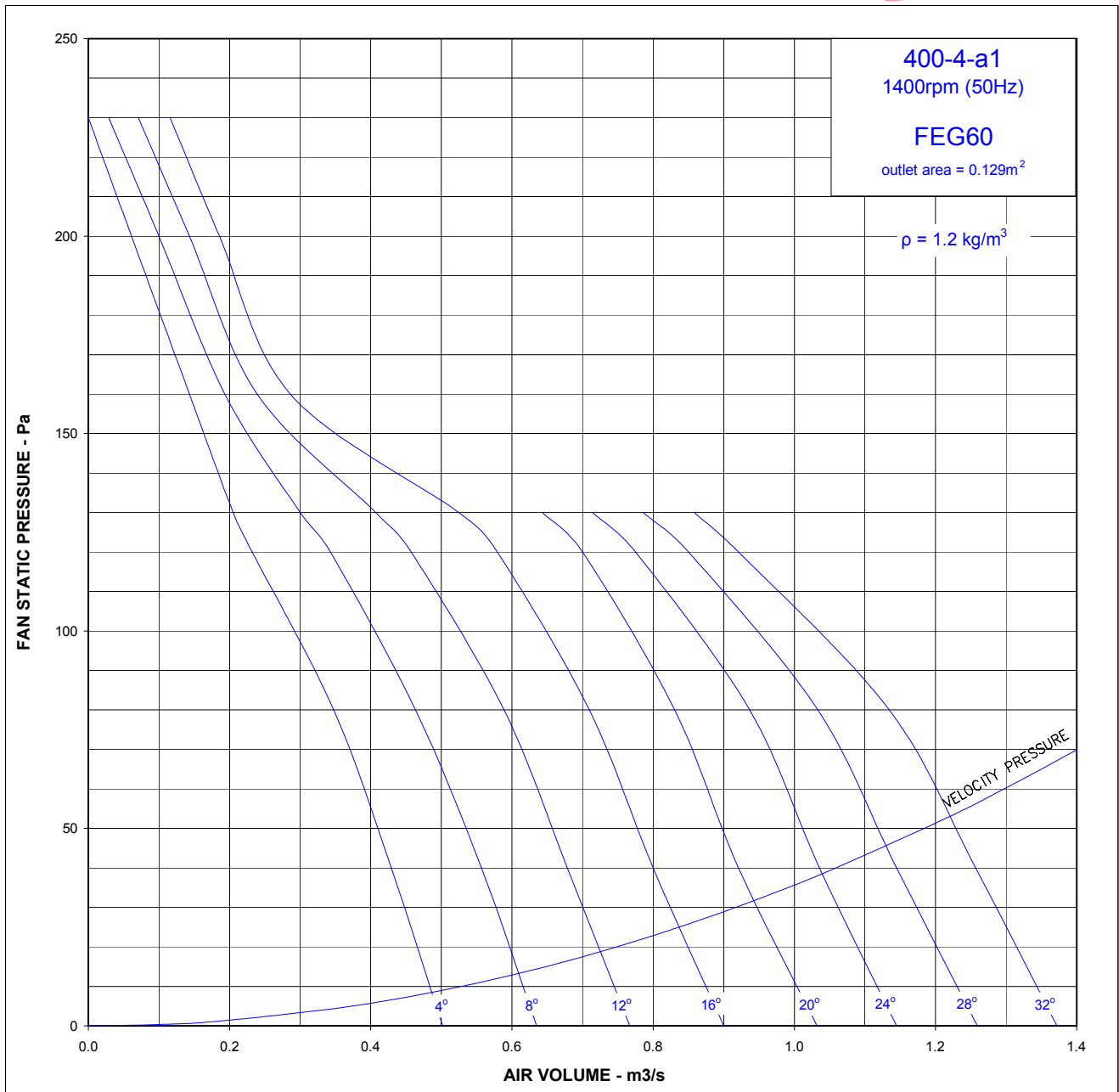
* Fan silencers are recommended for sound level exceeding 80dBA at 3m distance.

Hison Axial Flow Fans

																			
FAN DIMENSIONS							FLANGE DETAIL		COWLING DIMENSIONS										
FAN MODEL	THICKNESS		A	B	C	D (MAX)	J' MAX	K' NOS	a	b	c	d	e	f	g	h			
	T1	T2																	
200	3	6	205	248	286	305	12	6	205	248	286	405	115	200	150	325			
	6			254	292					254	292								
250	3	6	254	298	336	305	12	6	254	298	336	455	115	200	150	325			
	6			305	343					305	343								
300	3	6	305	350	388	356	12	8	305	350	388	560	115	200	150	325			
	6			356	394					356	394								
350	3	6	355	400	438	415	12	8	355	400	438	660	115	254	200	380			
	6			406	444					406	444								
400	3	6	405	450	488	500	12	8	405	450	488	710	140	305	200	455			
	6			456	494					456	494								
450	3	6	455	500	538	600	14	8	455	500	538	812	140	356	200	500			
	6			506	544					506	544								
500	3	6	505	550	588	750	14	8	505	550	588	864	150	356	200	510			
	6			556	594					556	594								
550	3	6	555	600	638	800	14	8	555	600	638	915	150	356	250	535			
	6			606	644					606	644								
600	3	6	605	662	712	850	14	12	605	662	712	965	150	356	250	535			
	6			668	718					668	718								
650	3	6	655	712	762	850	14	12	655	712	762	1016	150	356	250	535			
	6			718	768					718	768								
700	3	6	705	762	812	850	14	12	705	762	812	1118	150	400	250	580			
	6			768	818					768	818								
750	3	6	755	812	862	850	14	12	755	812	862	1220	150	455	250	635			
	6			818	868					818	868								
800	3	6	805	862	912	850	14	12	805	862	912	1220	150	455	250	635			
	6			868	918					868	918								
900	4.5	6	905	977	1040	915	18	16	905	977	1040	1524	200	560	560	760			
	6			980	1043					980	1043								
	9			987	1050					987	1050								
1000	4.5	6	1005	1077	1140	1065	18	16	1005	1077	1140	1625	200	560	560	760			
	6			1080	1143					1080	1143								
	9			1087	1150					1087	1150								
1200	4.5	6	1205	1290	1366	1220	18	20	1205	1290	1366	2032	250	610	560	865			
	6			1293	1369					1293	1369								
	9			1300	1376					1300	1376								
1250	4.5	6	1255	1340	1416	1220	18	20	1255	1340	1416	2135	250	610	560	865			
	6			1343	1419					1343	1419								
	9			1350	1426					1350	1426								
1400	6	9	1405	1493	1569	1350	20	20	1405	1493	1569	2500	300	915	762	1185			
	9			1500	1576					1500	1576								
1500	6	9	1505	1593	1669	1400	20	20	1505	1593	1669	2600	300	950	762	1220			
	9			1600	1676					1600	1676								
1600	6	9	1605	1693	1769	1500	20	20	1605	1693	1769	2800	300	1000	762	1270			
	9			1700	1776					1700	1776								
1800	6	9	1805	1893	1969	1600	20	20	1805	1893	1969	3000	350	1200	762	1470			
	9			1900	1976					1900	1976								

Note:

- 1) The dimensions quoted in this publication are generally correct, but should be checked at the time of ordering. Hison reserves the right to change design and specifications without notice.
- 2) All dimensions in mm.
- 3) Inspection doors are standard for 800mm dia fan and above.
- 4) Certified dimensions and weights can be furnished after receipt of order.



PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	40	80	120	130	160	200	230			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	0.50	0.43	0.35	0.23	0.21	0.14	0.06	0.00	0.10	35	80	77	71	71	67	59	52	49	83	52
8°	0.64	0.56	0.46	0.34	0.30	0.19	0.10	0.03	0.13	40	81	76	70	70	66	59	53	50	83	51
12°	0.77	0.68	0.59	0.46	0.41	0.24	0.14	0.07	0.16	44	81	75	69	69	66	58	53	50	83	50
16°	0.90	0.80	0.71	0.58	0.53	0.29	0.186	0.116	0.19	49	81	74	69	68	65	58	53	50	82	49
20°	1.03	0.92	0.83	0.70	0.64	-	-	-	0.20	54	81	73	68	67	64	58	54	51	82	48
24°	1.15	1.04	0.94	0.78	0.71	-	-	-	0.22	53	81	74	68	67	66	58	54	51	83	49
28°	1.26	1.15	1.03	0.85	0.79	-	-	-	0.25	52	82	75	69	68	68	59	55	52	83	51
32°	1.37	1.26	1.13	0.92	0.86	-	-	-	0.29	53	82	76	69	68	70	60	56	53	83	52



Airtrade System certifies that the model 400-X-a1 shown herein is licensed to bear the AMCA Seal.

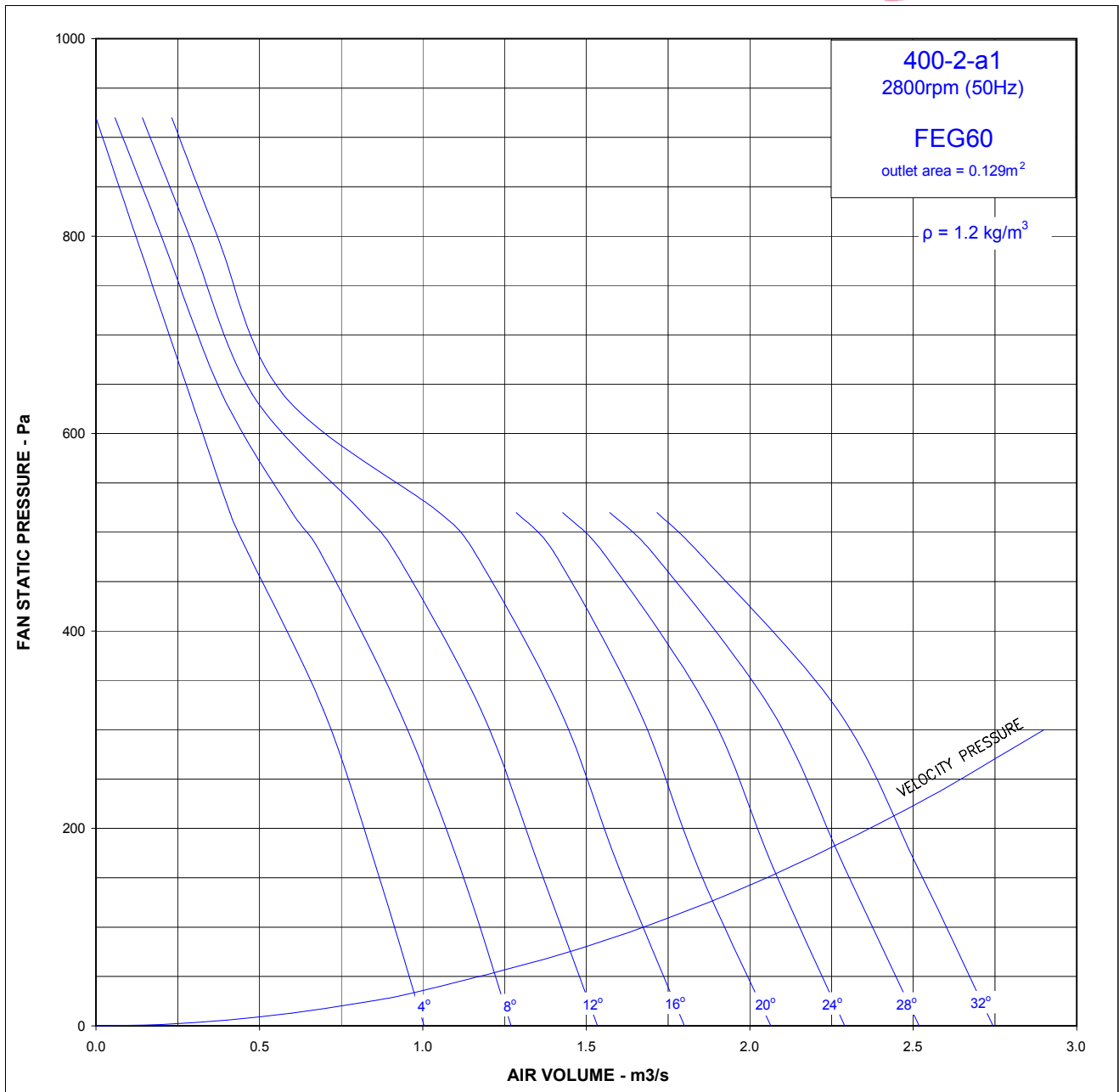
The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

*Performance certified is for installation type D - Ducted inlet, Ducted outlet

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

*The AMCA Certified Ratings Seal applies to air performance and the Fan Efficiency Grade ratings only.

*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	160	320	480	520	640	800	920			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	1.00	0.86	0.70	0.46	0.41	0.29	0.12	0.00	0.82	35	92	95	92	86	86	82	74	67	99	70
8°	1.27	1.11	0.93	0.69	0.60	0.39	0.20	0.06	1.07	40	93	96	91	85	85	81	74	68	99	69
12°	1.53	1.36	1.18	0.91	0.81	0.48	0.29	0.14	1.30	44	93	96	90	84	84	81	73	68	99	69
16°	1.80	1.60	1.42	1.16	1.05	0.57	0.371	0.232	1.53	49	93	96	89	84	83	80	73	68	99	68
20°	2.06	1.84	1.66	1.40	1.29	-	-	-	1.58	54	93	96	88	83	82	79	73	69	98	67
24°	2.29	2.07	1.87	1.55	1.43	-	-	-	1.75	53	96	97	89	83	82	81	73	69	100	68
28°	2.52	2.29	2.07	1.70	1.57	-	-	-	2.02	52	94	97	90	84	83	83	74	70	100	69
32°	2.74	2.51	2.27	1.84	1.72	-	-	-	2.30	53	94	97	91	84	83	85	75	71	100	70



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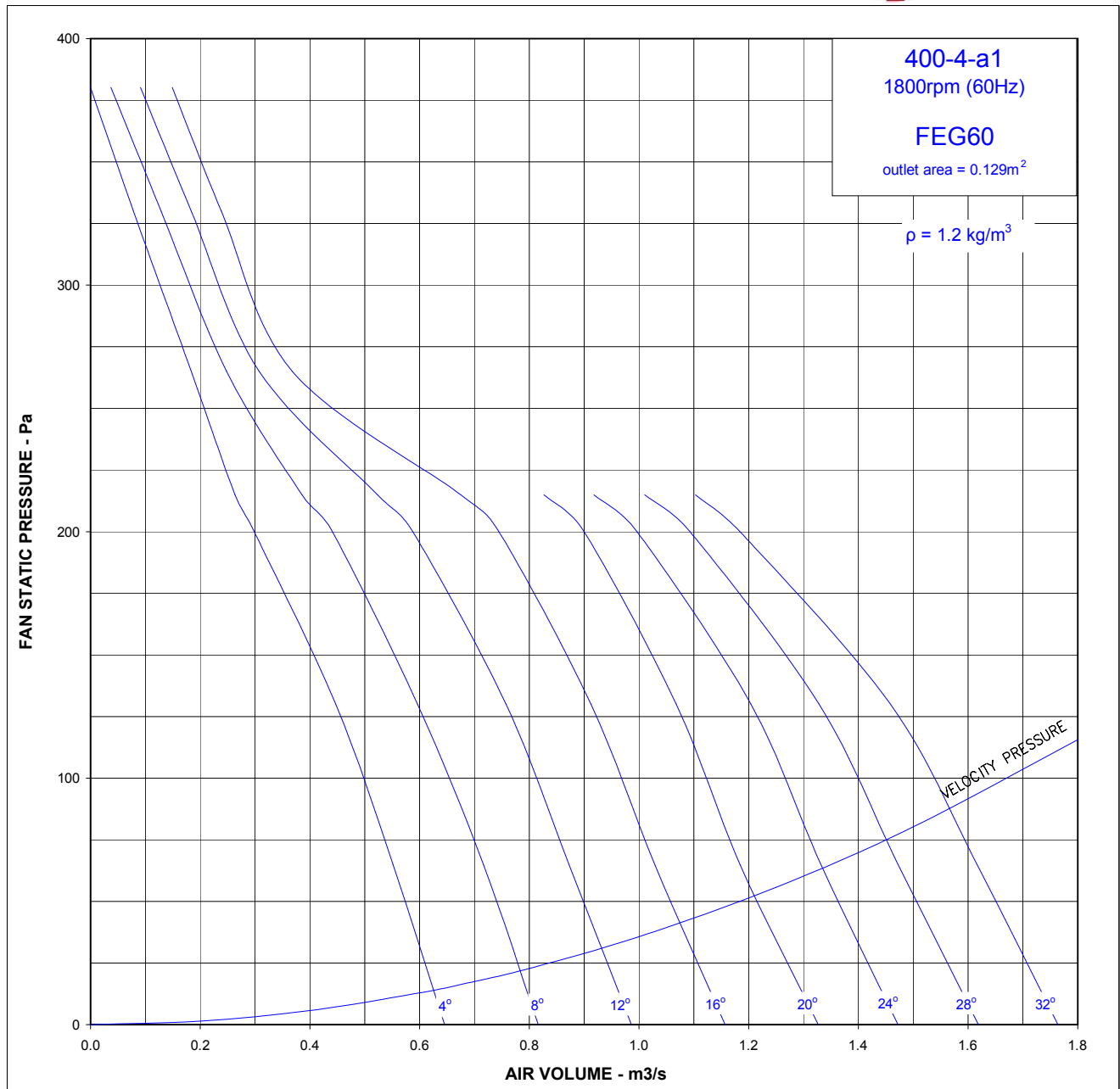
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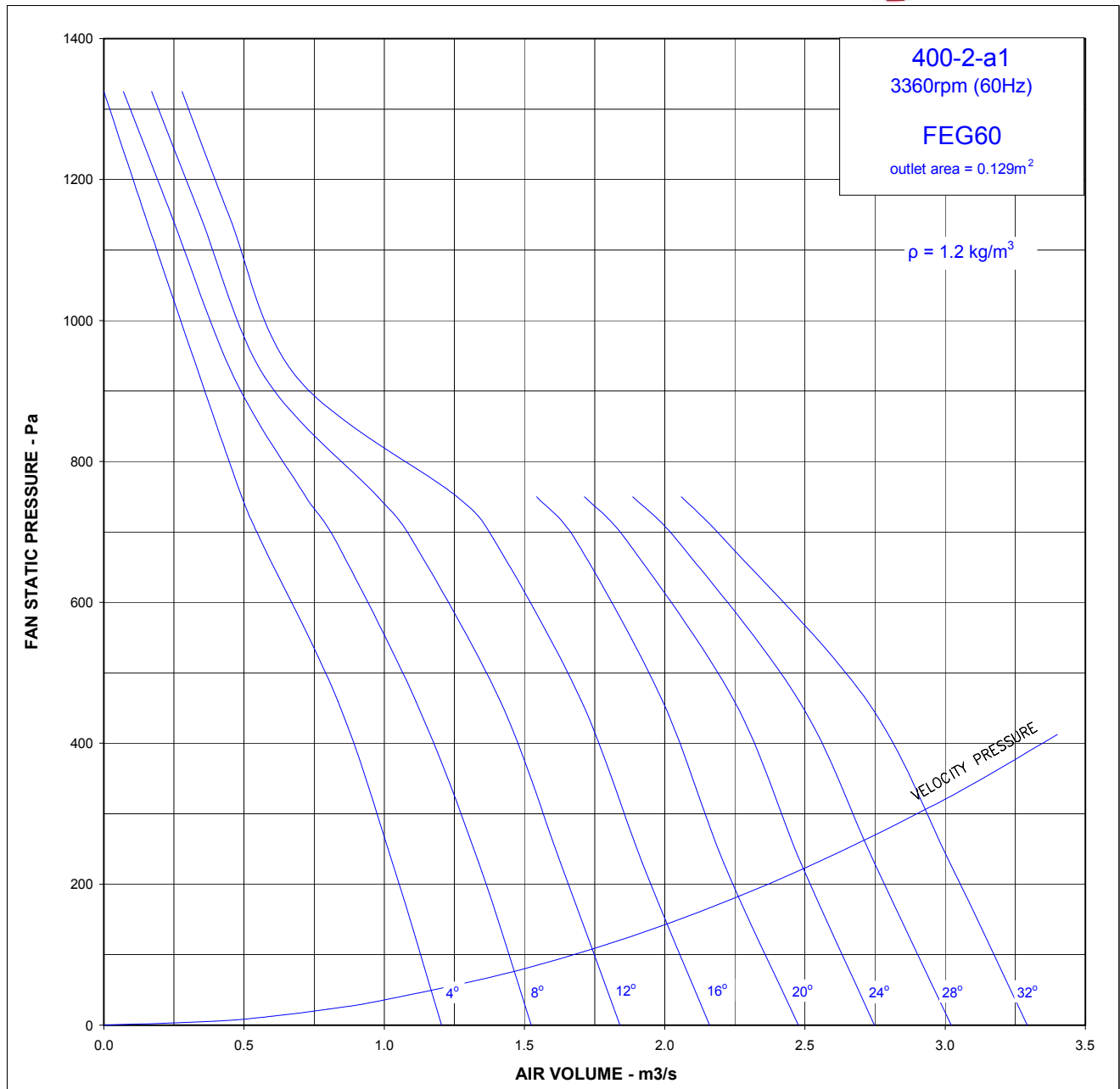


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	65	130	200	215	265	330	380			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	0.65	0.55	0.45	0.30	0.26	0.18	0.08	0.00	0.22	35	85	84	75	77	74	67	60	54	88	58
8°	0.82	0.72	0.60	0.44	0.39	0.25	0.13	0.04	0.29	40	85	83	74	76	73	67	60	54	88	57
12°	0.99	0.87	0.76	0.59	0.52	0.31	0.18	0.09	0.35	44	85	83	74	75	72	66	60	55	88	56
16°	1.16	1.03	0.91	0.74	0.68	0.37	0.239	0.149	0.41	49	85	82	73	74	71	66	60	56	87	56
20°	1.33	1.18	1.07	0.90	0.83	-	-	-	0.42	54	86	81	72	73	71	66	61	57	88	55
24°	1.47	1.33	1.20	1.00	0.92	-	-	-	0.46	53	86	82	73	73	72	67	61	57	88	56
28°	1.62	1.47	1.33	1.09	1.01	-	-	-	0.54	52	86	83	73	74	73	68	62	58	88	57
32°	1.76	1.62	1.46	1.18	1.10	-	-	-	0.61	53	86	84	73	74	75	69	63	59	89	58



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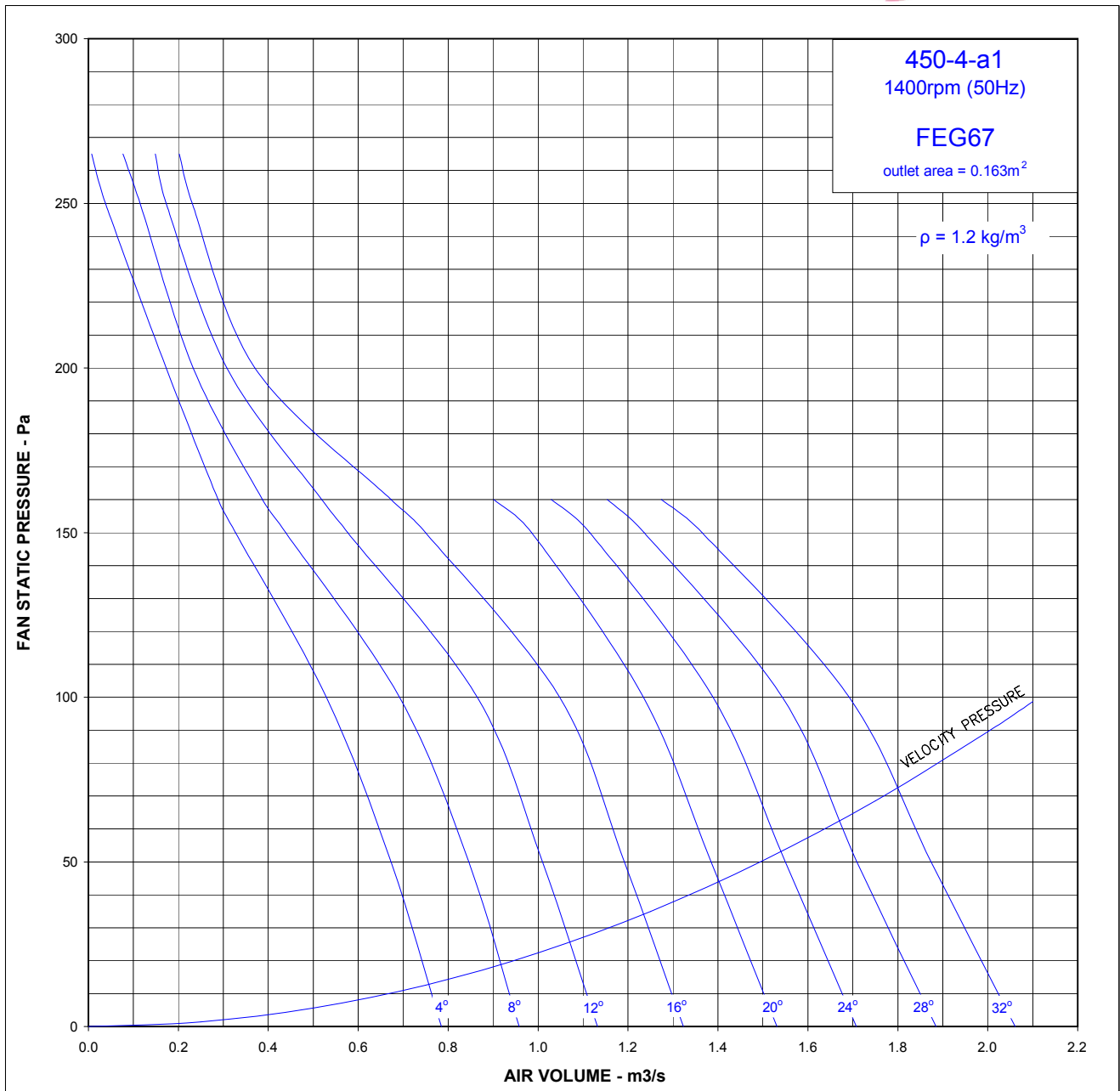


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	230	460	690	750	920	1150	1325			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	1.20	1.03	0.83	0.56	0.49	0.34	0.15	0.00	1.42	35	96	99	97	89	90	87	80	73	103	74
8°	1.52	1.34	1.11	0.82	0.72	0.46	0.24	0.07	1.85	40	96	99	96	88	89	86	80	73	103	74
12°	1.84	1.63	1.41	1.10	0.98	0.57	0.34	0.17	2.25	44	96	99	96	88	88	86	79	73	102	73
16°	2.16	1.92	1.70	1.39	1.26	0.69	0.45	0.28	2.65	49	96	99	95	87	87	85	79	74	102	72
20°	2.48	2.21	1.99	1.68	1.54	-	-	-	2.74	54	96	99	94	86	86	84	78	74	102	72
24°	2.75	2.49	2.25	1.86	1.71	-	-	-	3.02	53	97	100	95	87	86	85	79	74	103	72
28°	3.02	2.75	2.48	2.04	1.89	-	-	-	3.48	52	97	100	96	87	87	87	80	75	103	73
32°	3.29	3.02	2.72	2.21	2.06	-	-	-	3.98	53	97	100	97	87	87	88	81	76	103	74



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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	50	100	150	160	200	250	265			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	0.79	0.67	0.53	0.33	0.29	0.17	0.04	0.01	0.15	45	78	75	75	81	75	66	57	53	85	60
8°	0.96	0.85	0.69	0.44	0.39	0.23	0.12	0.08	0.20	49	79	75	75	82	74	64	56	52	85	60
12°	1.13	1.01	0.87	0.58	0.52	0.31	0.17	0.15	0.19	54	80	75	75	83	73	63	56	52	86	61
16°	1.32	1.19	1.05	0.75	0.67	0.37	0.23	0.20	0.23	59	81	75	75	84	72	62	55	52	87	61
20°	1.53	1.38	1.23	0.99	0.90	-	-	-	0.29	63	82	75	75	85	71	61	55	52	87	62
24°	1.71	1.55	1.39	1.12	1.03	-	-	-	0.35	61	82	76	75	82	72	61	56	53	86	59
28°	1.89	1.71	1.54	1.24	1.15	-	-	-	0.41	61	83	77	75	78	72	61	57	54	86	57
32°	2.06	1.87	1.69	1.37	1.27	-	-	-	0.46	62	83	78	76	75	72	62	58	55	85	56



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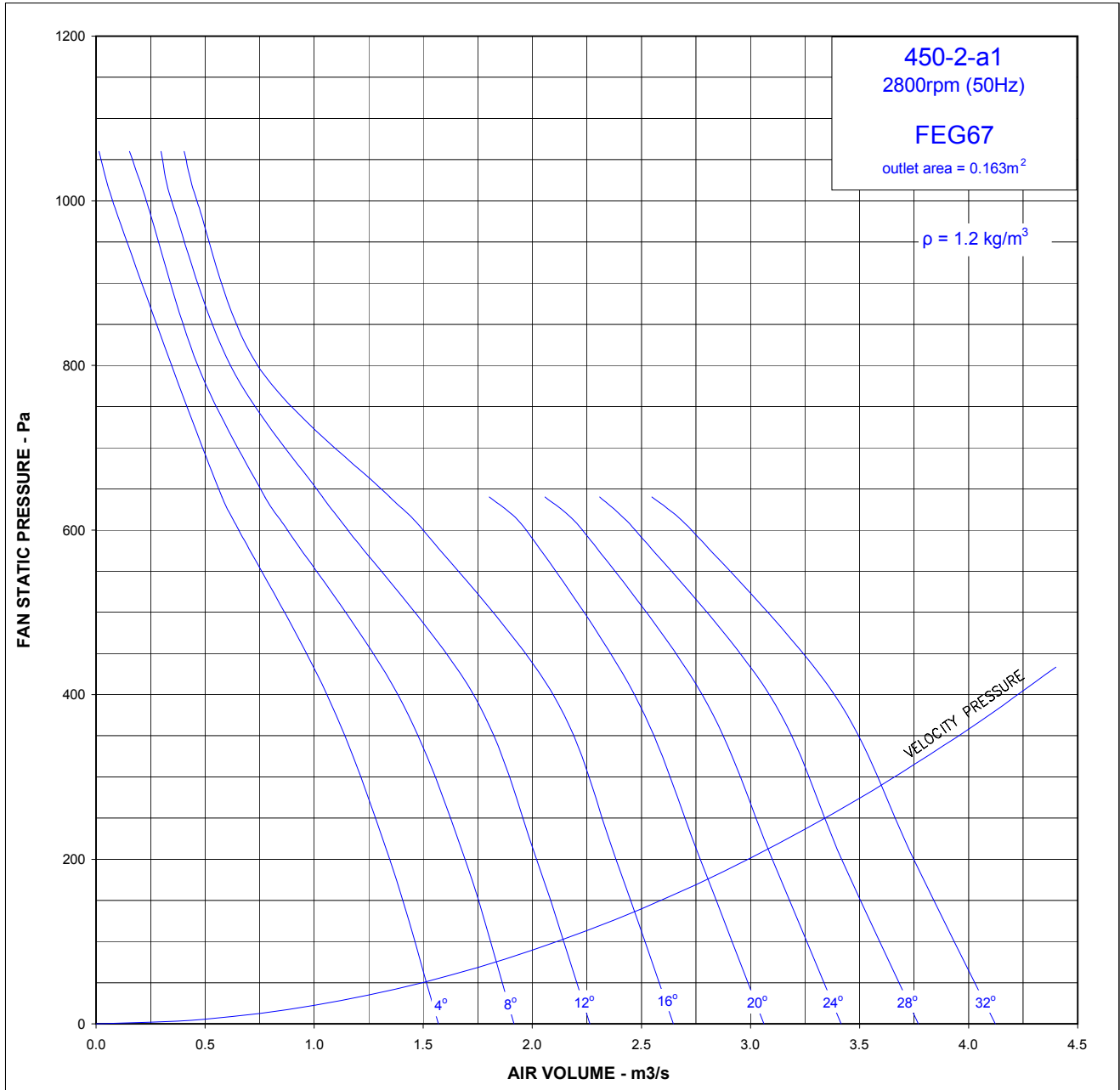
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	200	400	600	640	800	1000	1060			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	1.57	1.35	1.06	0.65	0.58	0.35	0.08	0.01	1.17	45	91	94	90	90	96	90	81	72	100	78
8°	1.92	1.69	1.38	0.88	0.77	0.47	0.23	0.15	1.63	49	92	94	90	90	97	90	89	71	101	78
12°	2.26	2.02	1.73	1.15	1.04	0.62	0.35	0.30	1.56	54	93	95	90	90	98	89	78	71	102	79
16°	2.65	2.38	2.10	1.50	1.35	0.74	0.46	0.40	1.88	59	93	96	90	90	99	88	78	70	102	79
20°	3.06	2.77	2.47	1.97	1.80	-	-	-	2.31	63	94	97	90	90	100	87	76	70	103	80
24°	3.42	3.10	2.78	2.23	2.06	-	-	-	2.78	61	95	97	91	90	97	87	76	71	102	77
28°	3.77	3.42	3.09	2.47	2.31	-	-	-	3.25	61	95	98	92	90	93	87	77	72	102	75
32°	4.12	3.75	3.38	2.73	2.55	-	-	-	3.72	62	96	98	93	91	90	87	77	73	102	74



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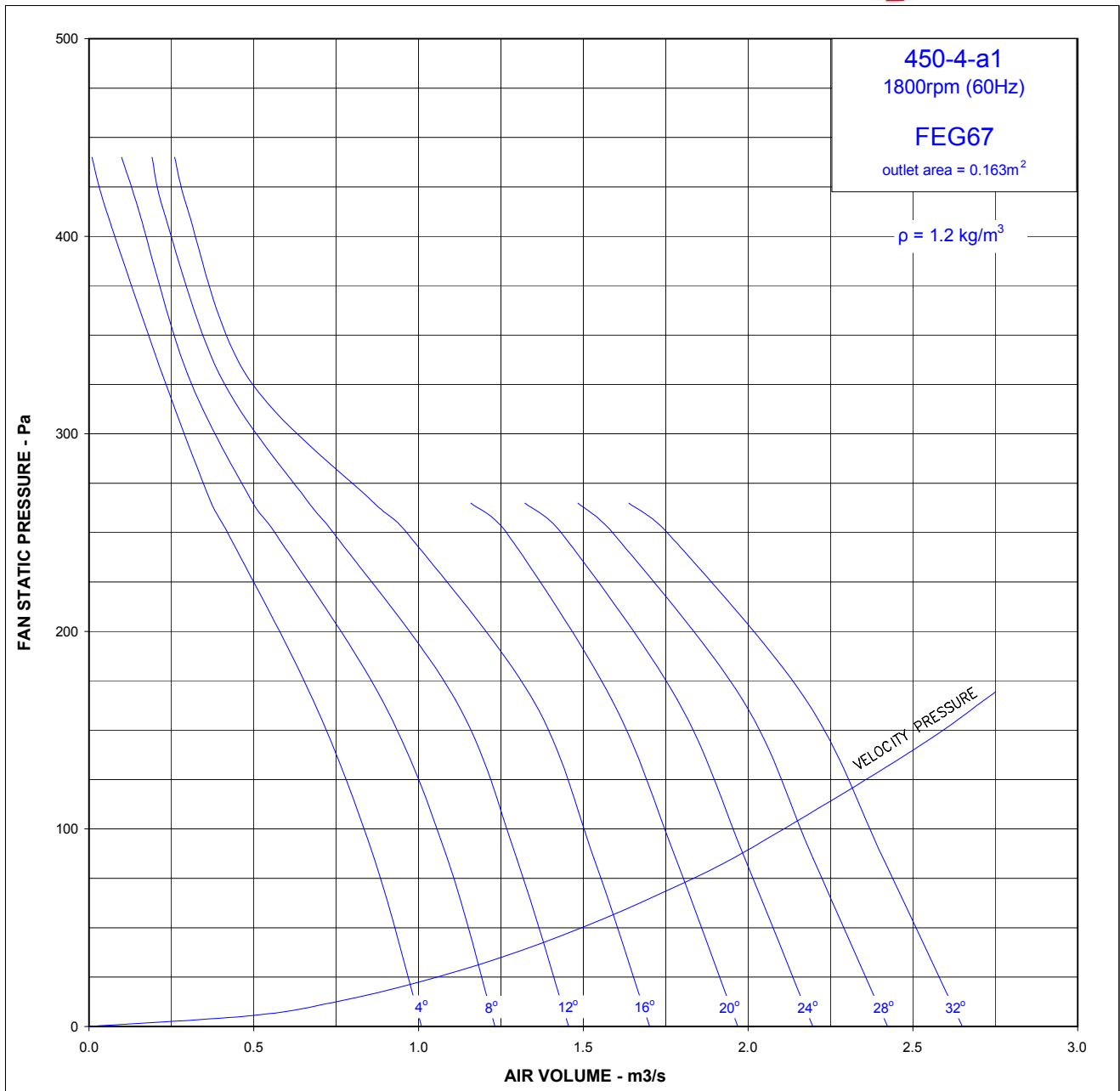
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	85	165	250	265	330	415	440			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	1.01	0.87	0.68	0.42	0.37	0.22	0.05	0.01	0.31	45	83	82	79	84	83	75	65	41	90	65
8°	1.23	1.09	0.89	0.56	0.50	0.30	0.15	0.10	0.43	49	84	82	79	85	83	75	65	41	90	65
12°	1.46	1.30	1.11	0.74	0.67	0.40	0.22	0.19	0.41	54	85	82	79	86	82	72	64	41	91	65
16°	1.70	1.53	1.35	0.96	0.87	0.48	0.30	0.26	0.50	59	86	83	79	86	82	71	63	41	91	66
20°	1.97	1.78	1.59	1.27	1.16	-	-	-	0.61	63	86	83	79	87	82	70	62	41	91	66
24°	2.20	1.99	1.79	1.43	1.32	-	-	-	0.74	61	87	84	79	85	81	70	63	41	91	64
28°	2.42	2.20	1.98	1.59	1.48	-	-	-	0.86	61	87	84	80	83	80	71	64	41	91	63
32°	2.65	2.41	2.18	1.76	1.64	-	-	-	0.99	62	88	85	80	80	78	71	65	41	91	62



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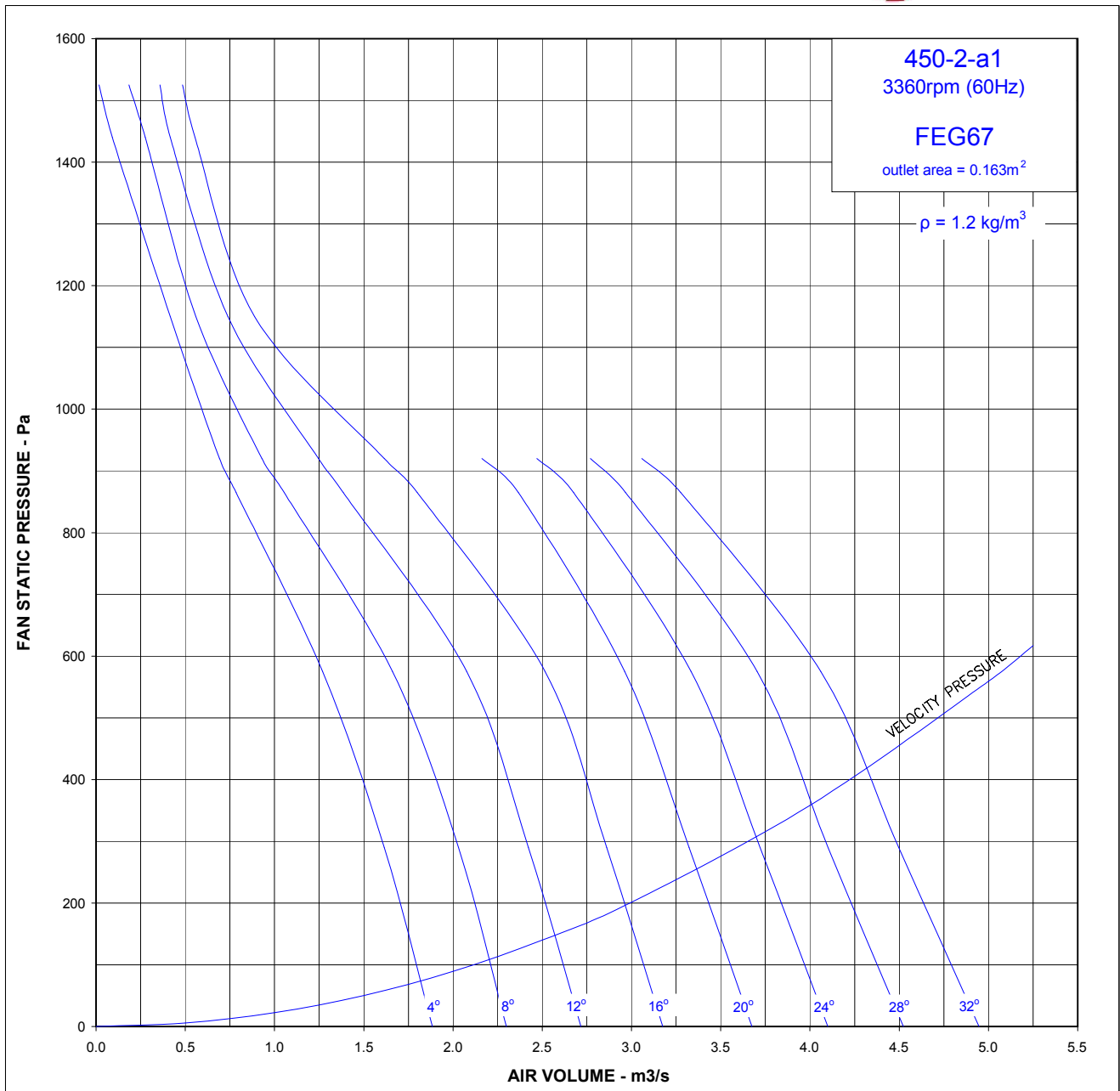
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*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	290	575	865	920	1150	1440	1525			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	1.88	1.62	1.27	0.78	0.69	0.42	0.09	0.02	2.02	45	94	97	95	93	98	96	87	78	104	81
8°	2.30	2.03	1.66	1.05	0.93	0.56	0.28	0.18	2.82	49	95	98	95	93	99	95	86	78	104	81
12°	2.72	2.42	2.08	1.38	1.25	0.74	0.42	0.36	2.69	54	96	98	95	93	100	95	85	77	105	82
16°	3.18	2.86	2.52	1.80	1.62	0.89	0.55	0.48	3.25	59	97	99	95	93	101	95	84	76	105	82
20°	3.67	3.32	2.96	2.37	2.16	-	-	-	3.99	63	97	100	96	93	101	94	83	75	106	82
24°	4.10	3.72	3.33	2.68	2.47	-	-	-	4.80	61	98	101	96	93	99	93	83	76	105	81
28°	4.52	4.10	3.70	2.97	2.77	-	-	-	5.61	61	98	101	97	94	96	93	83	77	105	79
32°	4.95	4.50	4.06	3.28	3.06	-	-	-	6.42	62	99	102	98	94	94	92	84	78	106	78



Airtrade System certifies that the model 450-X-a1 shown herein is licensed to bear the AMCA Seal.

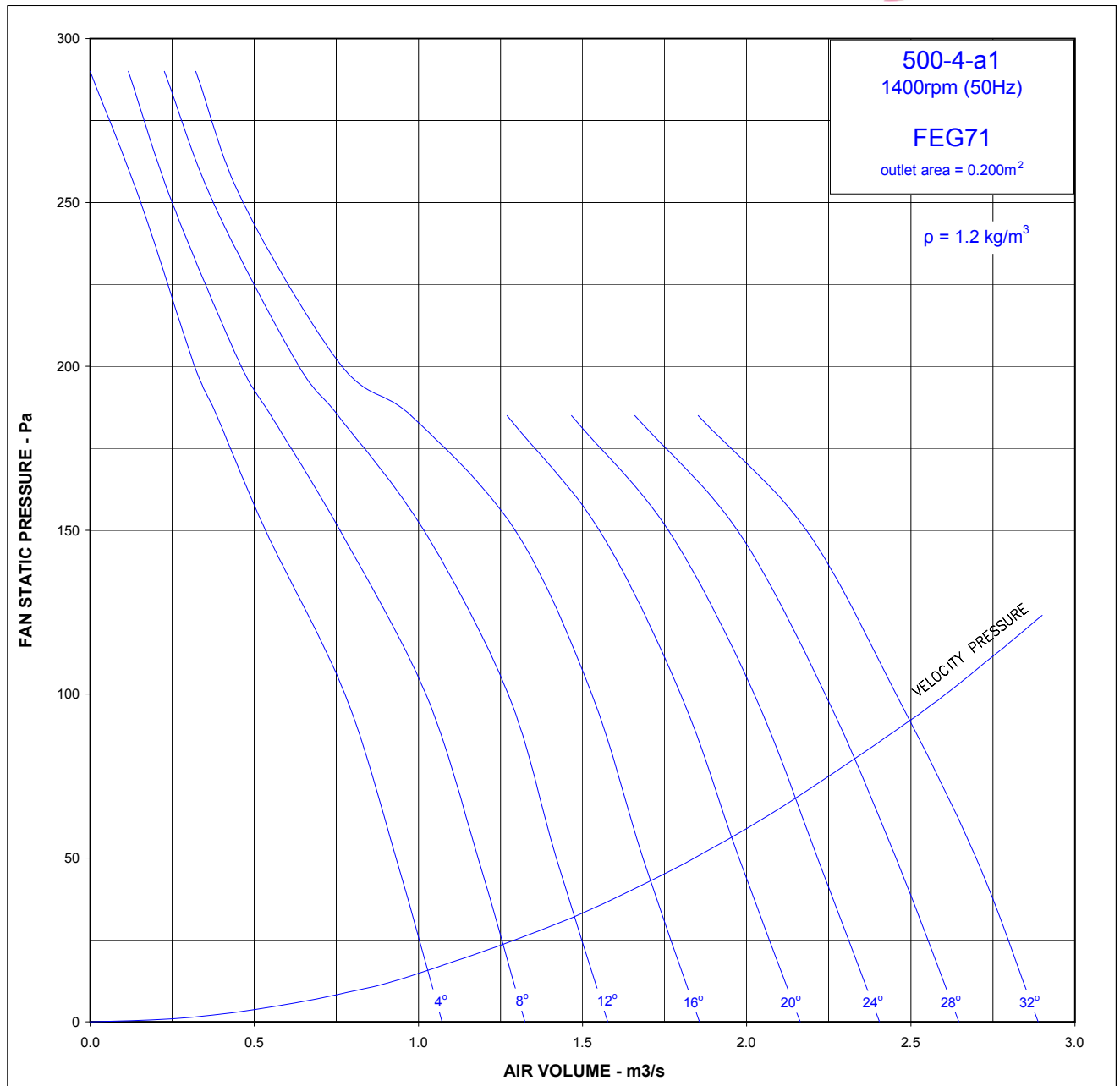
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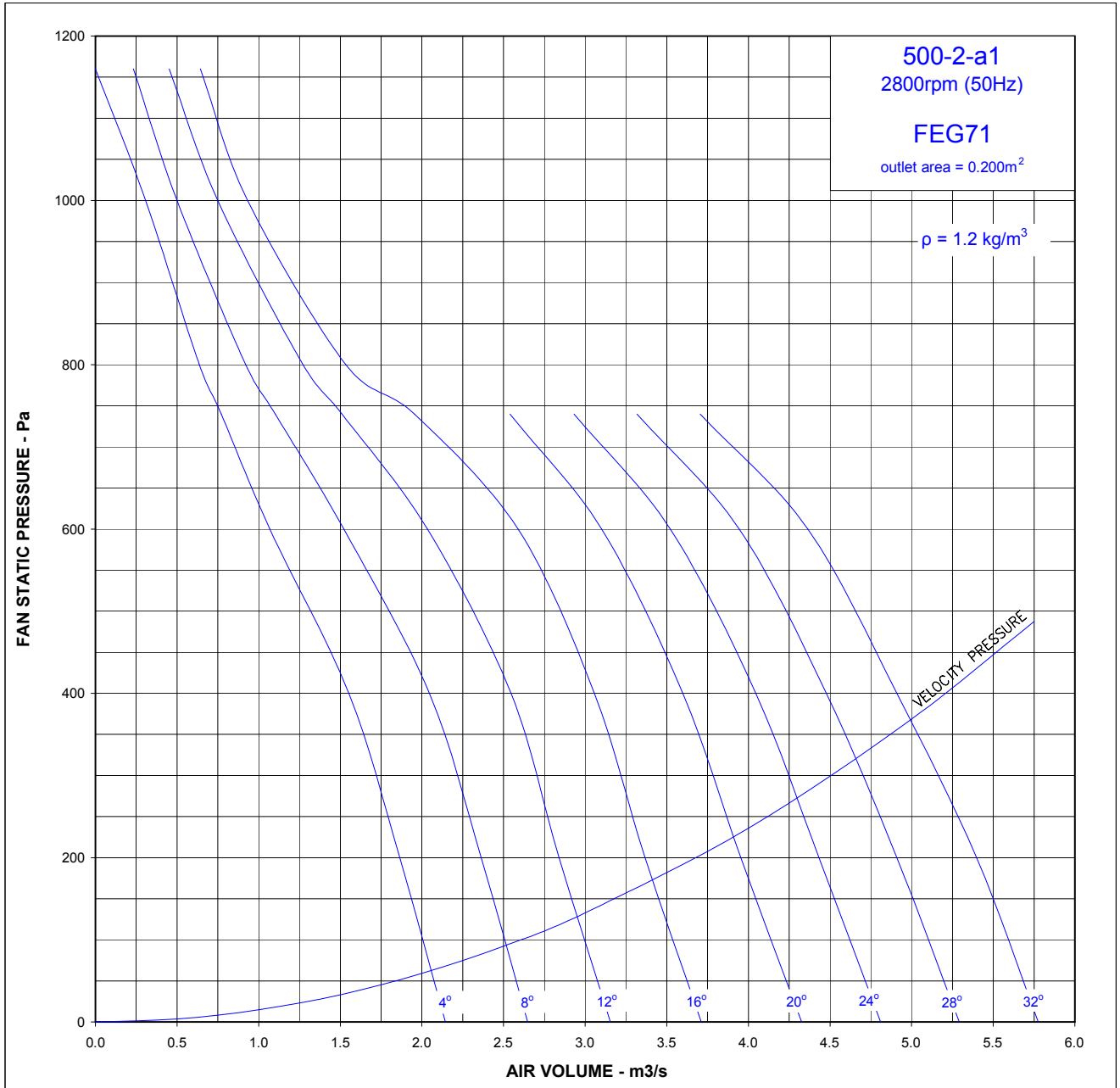


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	50	100	150	185	200	250	290			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	1.07	0.93	0.78	0.53	0.39	0.32	0.15	0.00	0.19	56	79	74	77	80	76	68	59	53	85	60
8°	1.32	1.18	1.02	0.76	0.55	0.46	0.25	0.12	0.27	57	80	74	78	78	75	67	59	54	85	58
12°	1.58	1.42	1.27	1.02	0.76	0.64	0.38	0.23	0.34	60	81	75	79	76	73	66	59	55	85	57
16°	1.86	1.68	1.53	1.30	0.98	0.77	0.466	0.322	0.42	63	81	75	80	75	72	66	59	55	85	56
20°	2.16	1.98	1.80	1.55	1.27	-	-	-	0.45	67	82	76	81	73	70	65	59	55	86	56
24°	2.41	2.22	2.02	1.76	1.47	-	-	-	0.55	64	82	76	79	74	71	65	60	56	85	56
28°	2.65	2.46	2.24	1.97	1.66	-	-	-	0.66	64	82	77	78	75	72	66	60	57	85	56
32°	2.89	2.70	2.46	2.18	1.85	-	-	-	0.76	65	82	77	77	76	74	66	61	58	85	57



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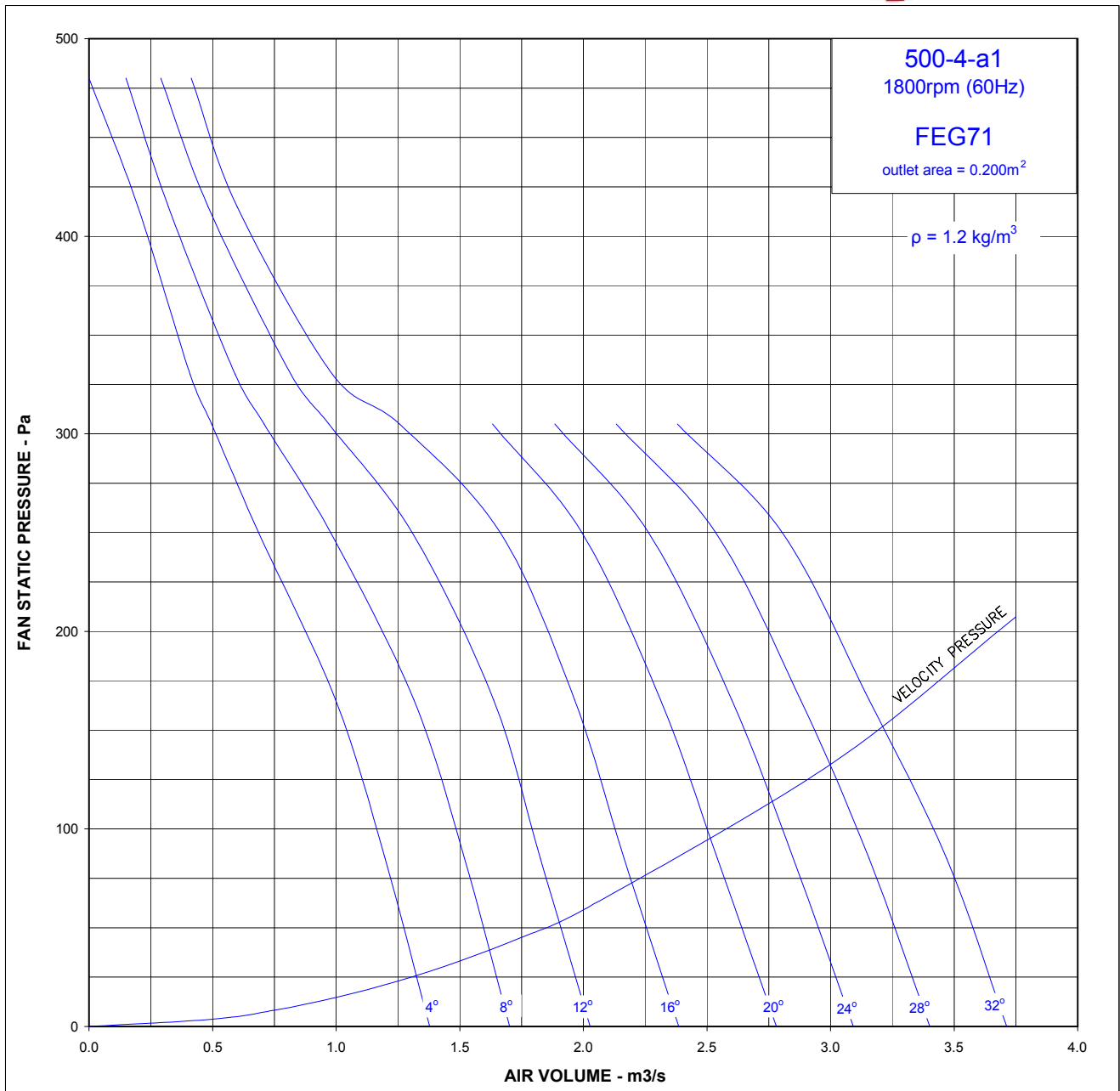


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	200	400	600	740	800	1000	1160			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.14	1.86	1.55	1.07	0.77	0.64	0.31	0.00	1.49	56	91	94	89	92	94	91	83	74	100	77
8°	2.65	2.36	2.05	1.52	1.10	0.92	0.50	0.23	2.16	57	93	95	89	93	93	90	82	74	100	76
12°	3.15	2.84	2.55	2.03	1.51	1.27	0.75	0.45	2.73	60	93	96	90	94	91	88	82	74	101	75
16°	3.71	3.37	3.06	2.59	1.95	1.53	0.932	0.644	3.39	63	94	96	90	95	90	87	81	74	101	75
20°	4.33	3.95	3.60	3.10	2.54	-	-	-	3.60	67	94	97	91	96	88	85	80	74	101	75
24°	4.81	4.43	4.05	3.52	2.93	-	-	-	4.42	64	95	97	91	95	89	86	80	75	101	75
28°	5.29	4.91	4.48	3.94	3.32	-	-	-	5.24	64	95	97	92	93	90	88	81	75	101	75
32°	5.78	5.40	4.91	4.36	3.70	-	-	-	6.06	65	95	98	92	92	91	89	81	76	102	75



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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	85	165	250	305	330	415	480			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	1.38	1.20	1.00	0.69	0.50	0.41	0.20	0.00	0.40	56	84	81	81	84	83	76	68	59	90	66
8°	1.70	1.52	1.31	0.98	0.71	0.59	0.32	0.15	0.57	57	85	82	82	83	81	75	68	60	90	65
12°	2.03	1.83	1.64	1.31	0.97	0.82	0.48	0.29	0.73	60	85	82	83	83	80	74	67	60	90	64
16°	2.39	2.17	1.96	1.67	1.26	0.99	0.599	0.414	0.90	63	86	83	84	82	78	73	67	60	90	63
20°	2.78	2.54	2.31	1.99	1.63	-	-	-	0.96	67	87	83	85	81	77	72	67	61	91	62
24°	3.09	2.85	2.60	2.26	1.88	-	-	-	1.17	64	87	84	84	81	78	73	67	62	91	63
28°	3.40	3.16	2.88	2.54	2.13	-	-	-	1.39	64	87	84	82	82	79	74	68	62	91	63
32°	3.71	3.47	3.16	2.81	2.38	-	-	-	1.61	65	87	85	81	82	80	74	68	63	91	63



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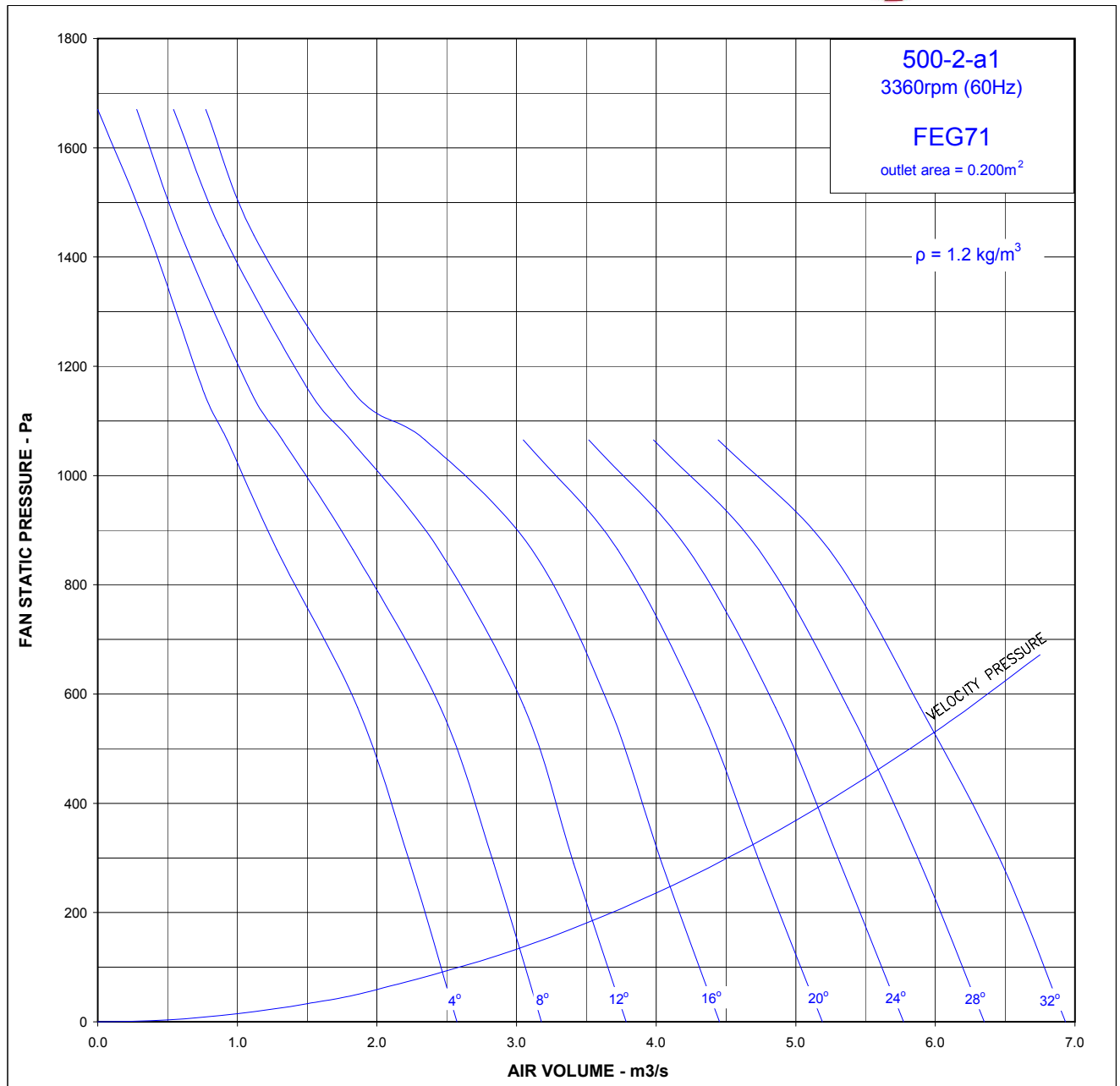
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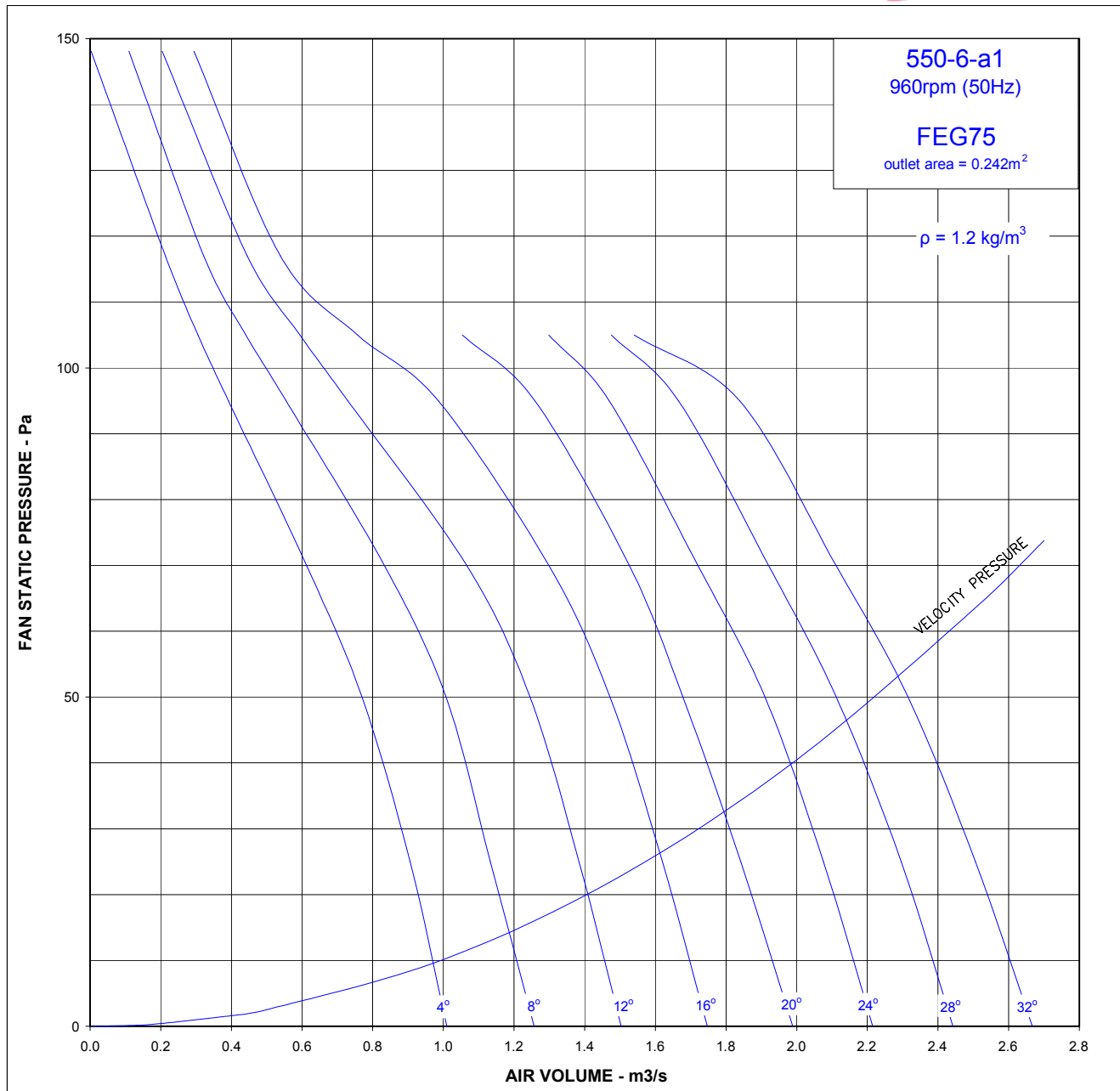


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	290	575	865	1065	1150	1440	1670			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.57	2.24	1.86	1.28	0.93	0.76	0.37	0.00	2.58	56	95	97	94	95	99	97	89	81	104	82
8°	3.18	2.84	2.45	1.83	1.32	1.10	0.60	0.28	3.73	57	96	99	95	96	98	96	88	80	105	81
12°	3.78	3.41	3.06	2.44	1.81	1.53	0.90	0.54	4.72	60	96	99	95	97	96	94	87	80	104	80
16°	4.45	4.04	3.67	3.11	2.34	1.84	1.118	0.773	5.86	63	97	100	96	98	94	92	86	80	105	79
20°	5.19	4.74	4.32	3.72	3.05	-	-	-	6.22	67	98	100	96	99	93	90	85	80	105	79
24°	5.77	5.32	4.85	4.23	3.52	-	-	-	7.64	64	98	101	97	98	94	92	86	80	105	79
28°	6.35	5.89	5.37	4.73	3.98	-	-	-	9.06	64	98	101	97	96	94	93	86	81	105	79
32°	6.93	6.48	5.89	5.24	4.44	-	-	-	10.48	65	98	101	97	95	95	95	86	81	105	80



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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	25	50	70	95	105	117	148			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	1.010	0.906	0.770	0.612	0.392	0.306	0.213	0.003	0.084	59	67	66	70	72	67	59	51	43	76	54
8°	1.257	1.133	1.008	0.832	0.555	0.441	0.322	0.110	0.127	60	68	67	70	70	66	58	50	43	76	53
12°	1.503	1.384	1.245	1.066	0.730	0.594	0.444	0.204	0.162	63	69	68	70	69	64	57	50	44	75	52
16°	1.747	1.620	1.472	1.298	0.986	0.757	0.539	0.294	0.204	66	69	70	70	68	63	56	50	44	76	51
20°	1.989	1.842	1.678	1.526	1.259	1.054	-	-	0.219	69	70	71	70	66	61	55	50	45	76	50
24°	2.215	2.076	1.910	1.720	1.469	1.298	-	-	0.269	66	72	71	70	67	62	56	51	47	77	51
28°	2.442	2.296	2.112	1.920	1.666	1.476	-	-	0.322	65	73	72	71	68	63	57	53	49	78	52
32°	2.667	2.506	2.315	2.111	1.839	1.540	-	-	0.374	66	74	73	72	69	63	58	54	51	79	53



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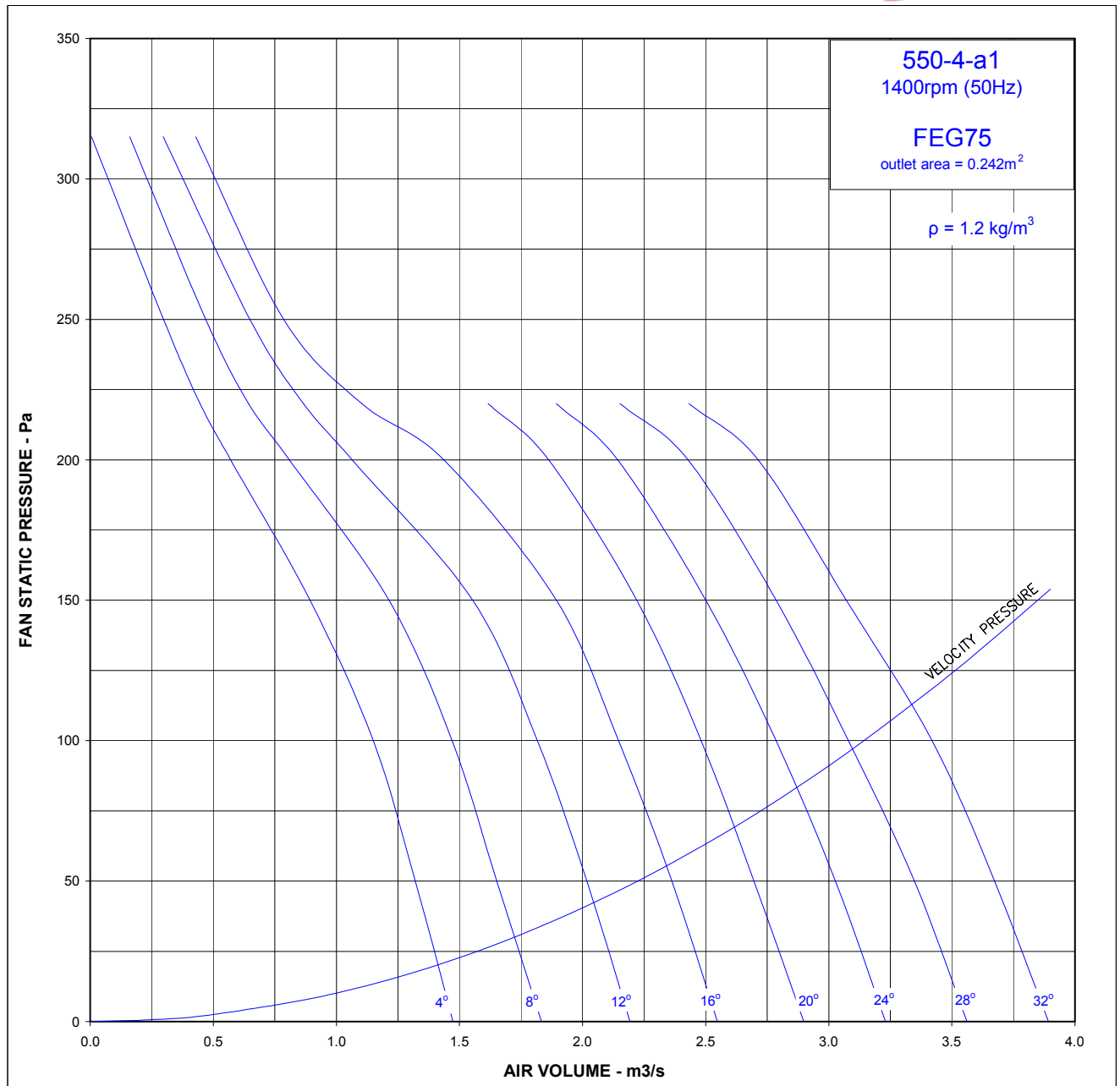
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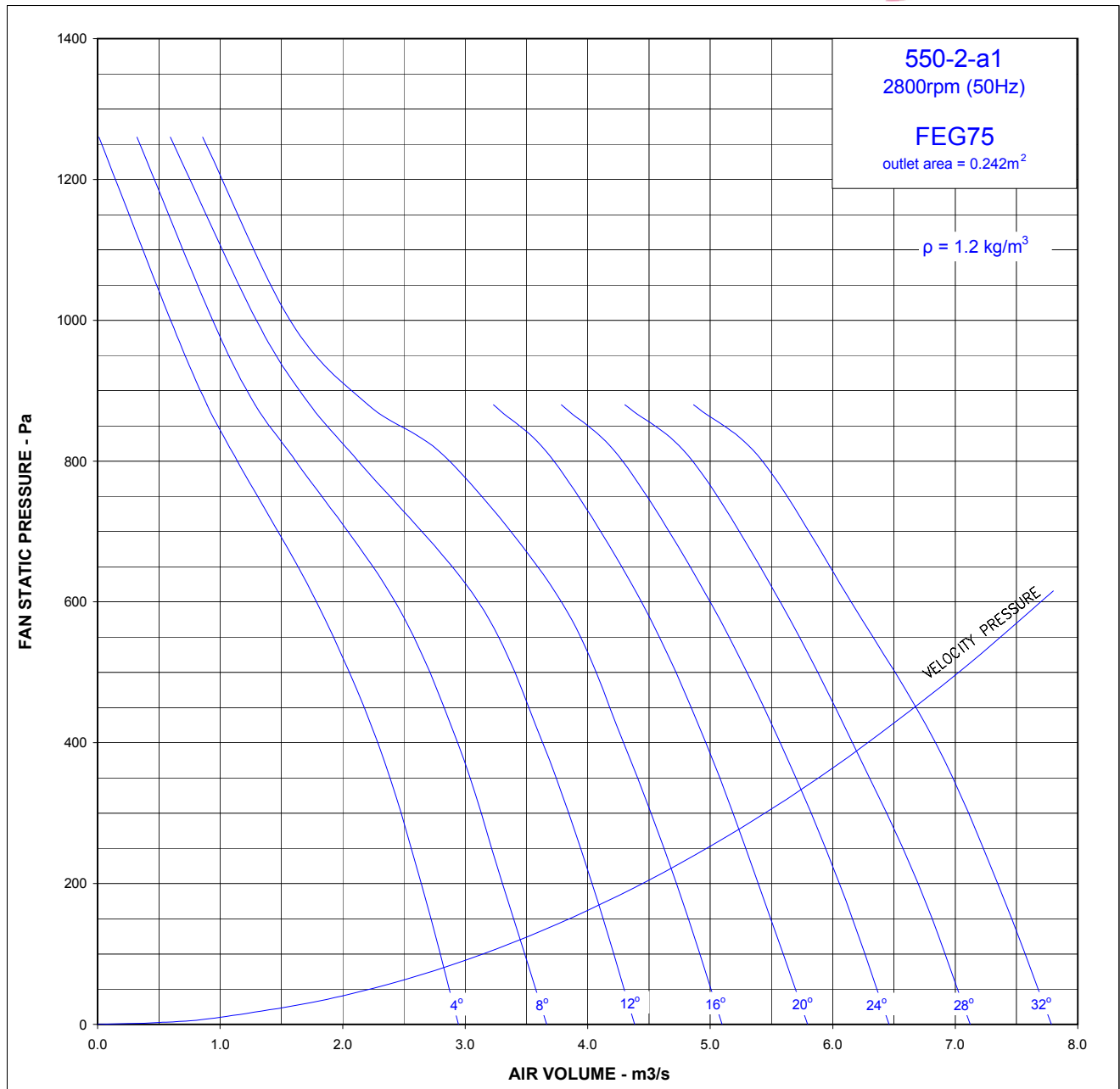


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	50	100	150	200	220	250	315			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	1.47	1.32	1.15	0.89	0.57	0.45	0.30	0.01	0.26	59	78	73	75	80	79	72	63	55	85	64
8°	1.83	1.65	1.47	1.21	0.81	0.64	0.47	0.16	0.39	60	79	74	76	79	78	71	63	55	85	63
12°	2.19	2.02	1.82	1.55	1.06	0.87	0.65	0.30	0.50	63	80	75	78	78	76	69	62	56	85	62
16°	2.55	2.36	2.15	1.89	1.44	1.10	0.786	0.429	0.63	66	81	76	79	77	74	68	62	56	85	61
20°	2.90	2.70	2.48	2.22	1.86	1.62	-	-	0.68	69	82	76	80	76	73	67	61	56	86	61
24°	3.23	3.03	2.79	2.50	2.14	1.89	-	-	0.84	66	83	78	81	77	74	67	62	58	87	61
28°	3.56	3.35	3.08	2.79	2.43	2.152	-	-	1.00	65	84	79	81	78	75	68	63	59	87	62
32°	3.89	3.67	3.42	3.07	2.71	2.432	-	-	1.16	66	85	80	82	79	76	68	64	61	88	63



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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	200	400	600	800	880	1000	1260			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.95	2.64	2.29	1.79	1.14	0.89	0.60	0.01	2.06	59	89	92	87	90	94	93	86	77	99	77
8°	3.67	3.30	2.94	2.43	1.62	1.29	0.94	0.32	3.14	60	90	93	88	91	93	92	85	76	99	76
12°	4.38	4.04	3.63	3.11	2.13	1.73	1.30	0.59	4.02	63	91	94	89	92	92	90	83	76	100	76
16°	5.10	4.73	4.29	3.79	2.88	2.21	1.571	0.857	5.07	66	92	95	90	93	91	89	82	76	100	75
20°	5.80	5.39	4.96	4.44	3.73	3.23	-	-	5.40	69	93	96	91	94	90	87	81	75	101	75
24°	6.46	6.05	5.57	5.00	4.29	3.79	-	-	6.68	66	94	97	92	95	91	88	81	76	102	76
28°	7.12	6.70	6.16	5.57	4.86	4.304	-	-	8.00	65	95	98	93	95	92	89	82	77	102	76
32°	7.78	7.35	6.84	6.15	5.43	4.864	-	-	9.32	66	96	99	94	96	93	90	82	78	103	77



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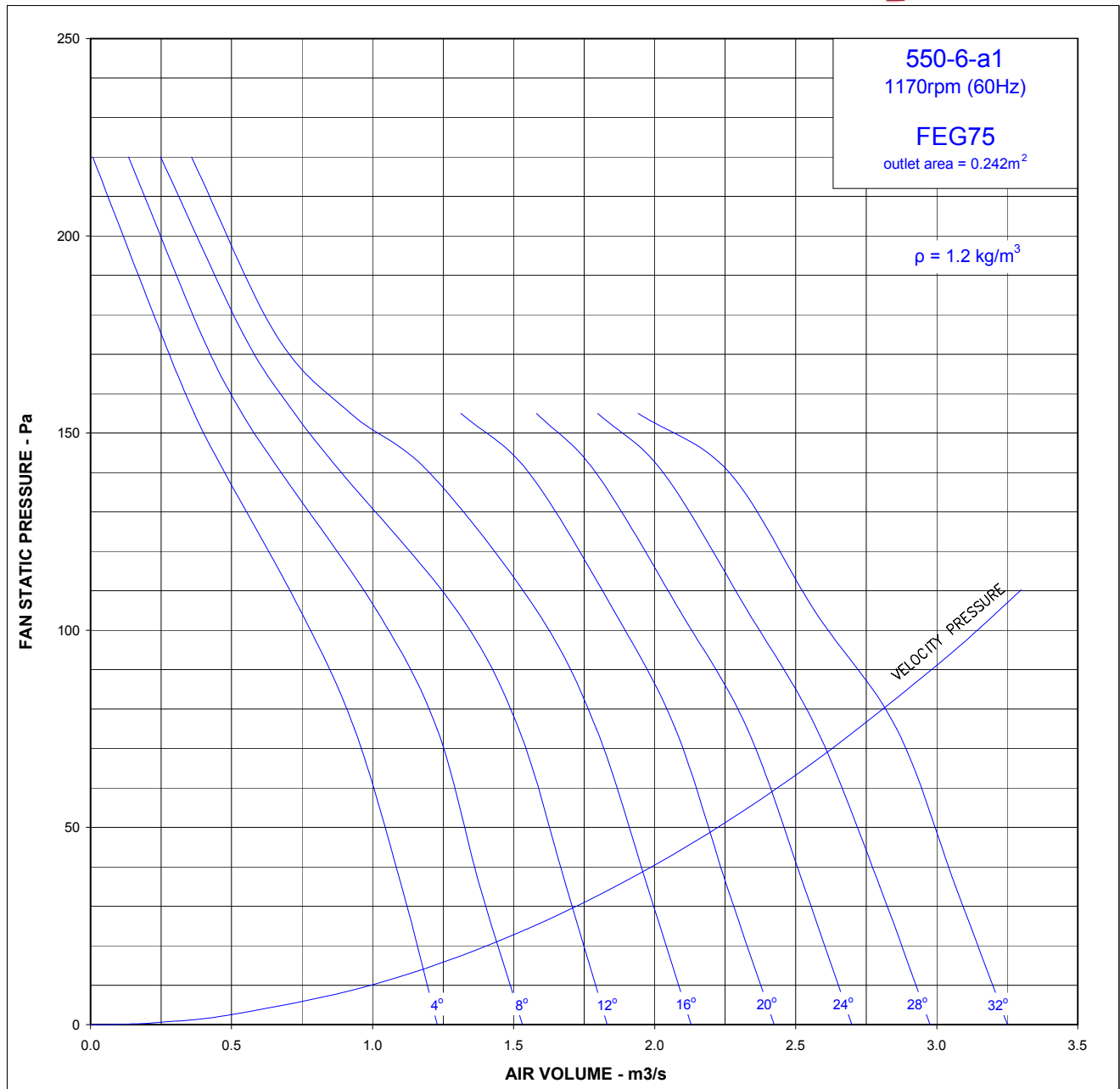
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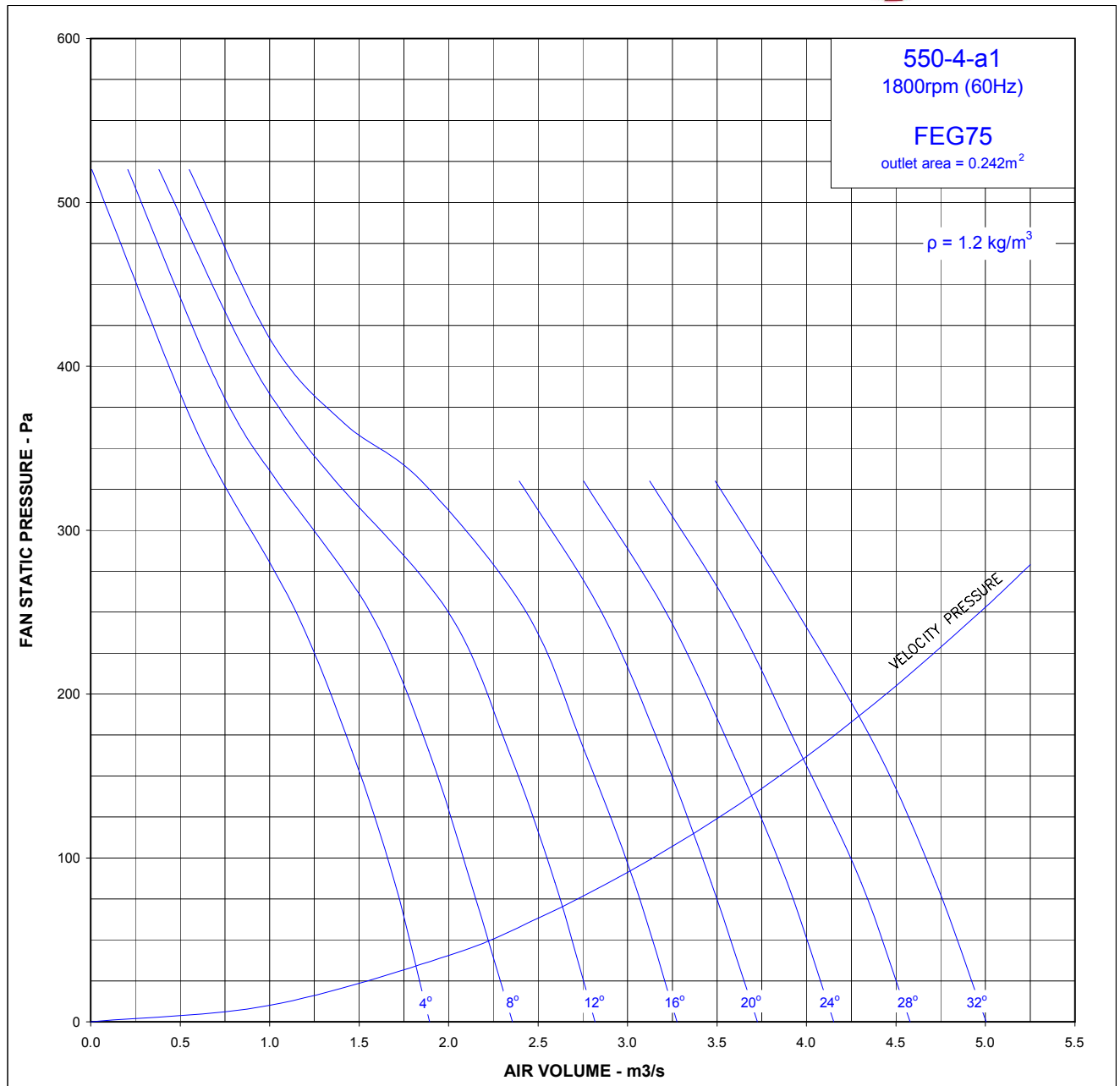


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	35	75	105	140	155	175	220			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	1.229	1.103	0.936	0.744	0.476	0.368	0.251	0.008	0.152	59	72	70	72	76	73	66	57	49	80	56
8°	1.532	1.381	1.228	1.015	0.676	0.537	0.392	0.135	0.229	60	73	71	73	75	72	65	57	50	80	55
12°	1.832	1.686	1.518	1.299	0.889	0.724	0.542	0.248	0.293	63	75	72	74	74	70	64	56	50	80	54
16°	2.129	1.974	1.793	1.582	1.201	0.923	0.657	0.358	0.370	66	76	73	74	72	69	63	56	50	80	53
20°	2.424	2.256	2.073	1.855	1.554	1.313	-	-	0.397	69	77	74	75	71	67	61	56	51	81	53
24°	2.699	2.530	2.328	2.089	1.791	1.582	-	-	0.488	66	78	75	76	72	68	62	57	53	82	53
28°	2.976	2.798	2.574	2.328	2.030	1.798	-	-	0.584	65	79	76	76	73	69	63	58	54	83	54
32°	3.251	3.067	2.858	2.566	2.265	1.942	-	-	0.677	66	80	76	77	74	70	63	59	56	84	55



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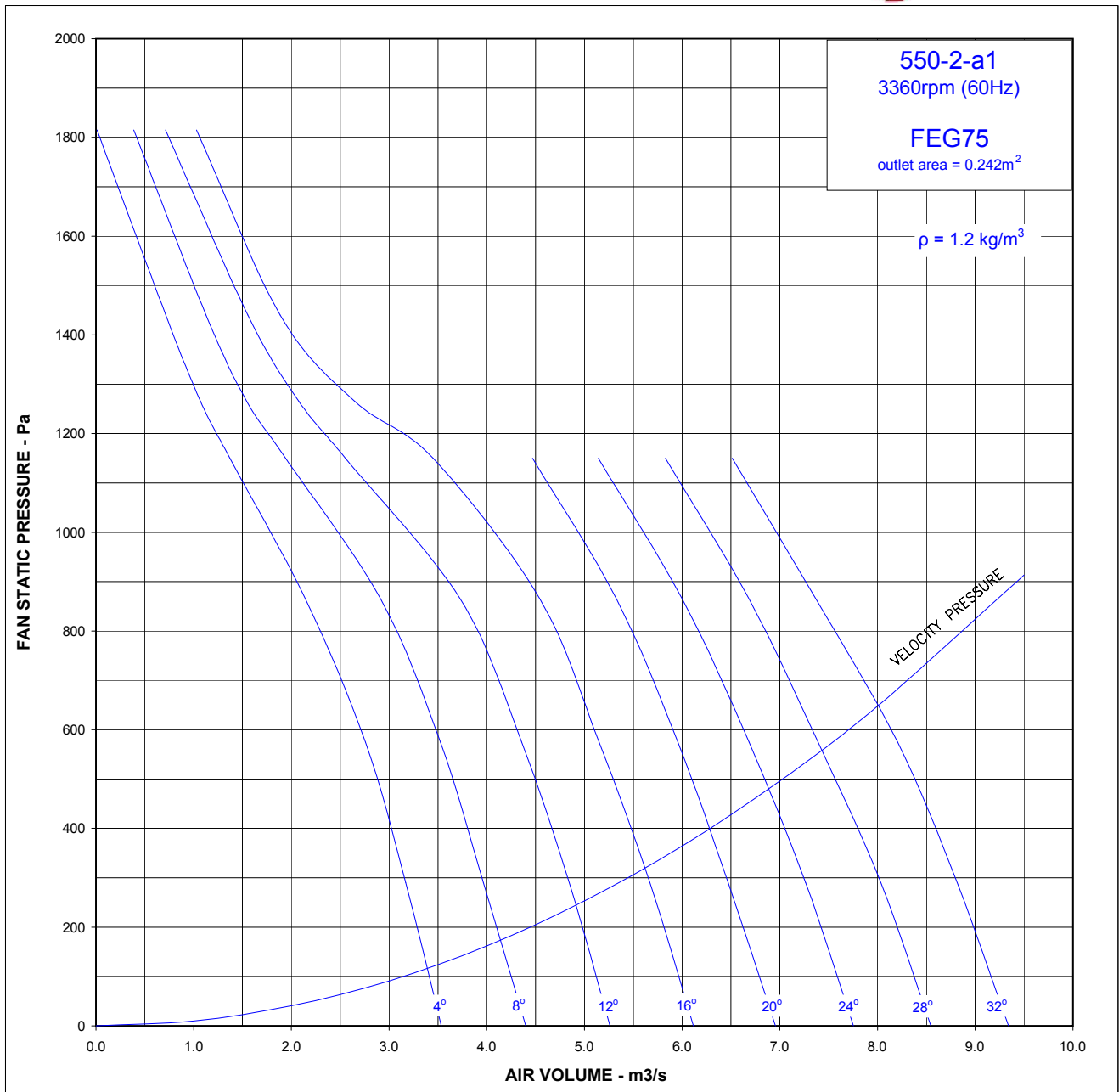


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	85	165	250	330	365	415	520			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	1.89	1.70	1.46	1.15	0.73	0.57	0.38	0.01	0.55	59	82	80	80	84	85	80	72	63	90	67
8°	2.36	2.12	1.89	1.56	1.04	0.83	0.60	0.21	0.83	60	83	81	81	83	83	79	71	63	90	66
12°	2.82	2.59	2.33	2.00	1.37	1.11	0.83	0.38	1.07	63	84	82	82	83	82	77	70	63	90	65
16°	3.28	3.04	2.76	2.43	1.85	1.42	1.010	0.551	1.35	66	85	83	83	83	81	76	69	63	90	65
20°	3.73	3.47	3.19	2.85	2.39	2.08	-	-	1.43	69	86	84	84	83	79	75	69	63	91	64
24°	4.15	3.89	3.58	3.21	2.76	2.43	-	-	1.78	66	87	85	85	84	80	75	69	65	92	65
28°	4.58	4.30	3.96	3.58	3.12	2.767	-	-	2.13	65	88	86	85	85	81	76	70	66	93	66
32°	5.00	4.72	4.40	3.95	3.49	3.127	-	-	2.48	66	89	87	86	85	82	76	71	67	93	66



Airtrade System certifies that the model 550-X-a1 shown herein is licensed to bear the 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.

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 *Performance ratings do not include the effects of appurtenances (accessories)
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 *Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	290	575	865	1150	1265	1440	1815			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	3.54	3.17	2.76	2.14	1.37	1.07	0.72	0.01	3.55	59	93	96	93	93	97	98	93	84	104	82
8°	4.40	3.96	3.53	2.91	1.94	1.54	1.13	0.39	5.43	60	94	97	94	95	97	97	92	84	104	81
12°	5.26	4.84	4.36	3.73	2.55	2.08	1.56	0.71	6.95	63	95	98	95	96	97	96	90	83	104	81
16°	6.12	5.67	5.15	4.54	3.45	2.65	1.886	1.028	8.77	66	96	99	96	97	96	94	89	82	105	80
20°	6.96	6.47	5.96	5.33	4.47	3.88	-	-	9.33	69	97	100	97	98	96	93	88	82	105	80
24°	7.75	7.26	6.69	6.00	5.14	4.54	-	-	11.55	66	98	101	98	99	97	94	88	82	106	81
28°	8.55	8.04	7.39	6.69	5.83	5.165	-	-	13.82	65	99	93	99	99	98	95	89	83	106	82
32°	9.34	8.82	8.21	7.37	6.51	5.837	-	-	16.10	66	100	103	100	100	99	96	89	84	108	82



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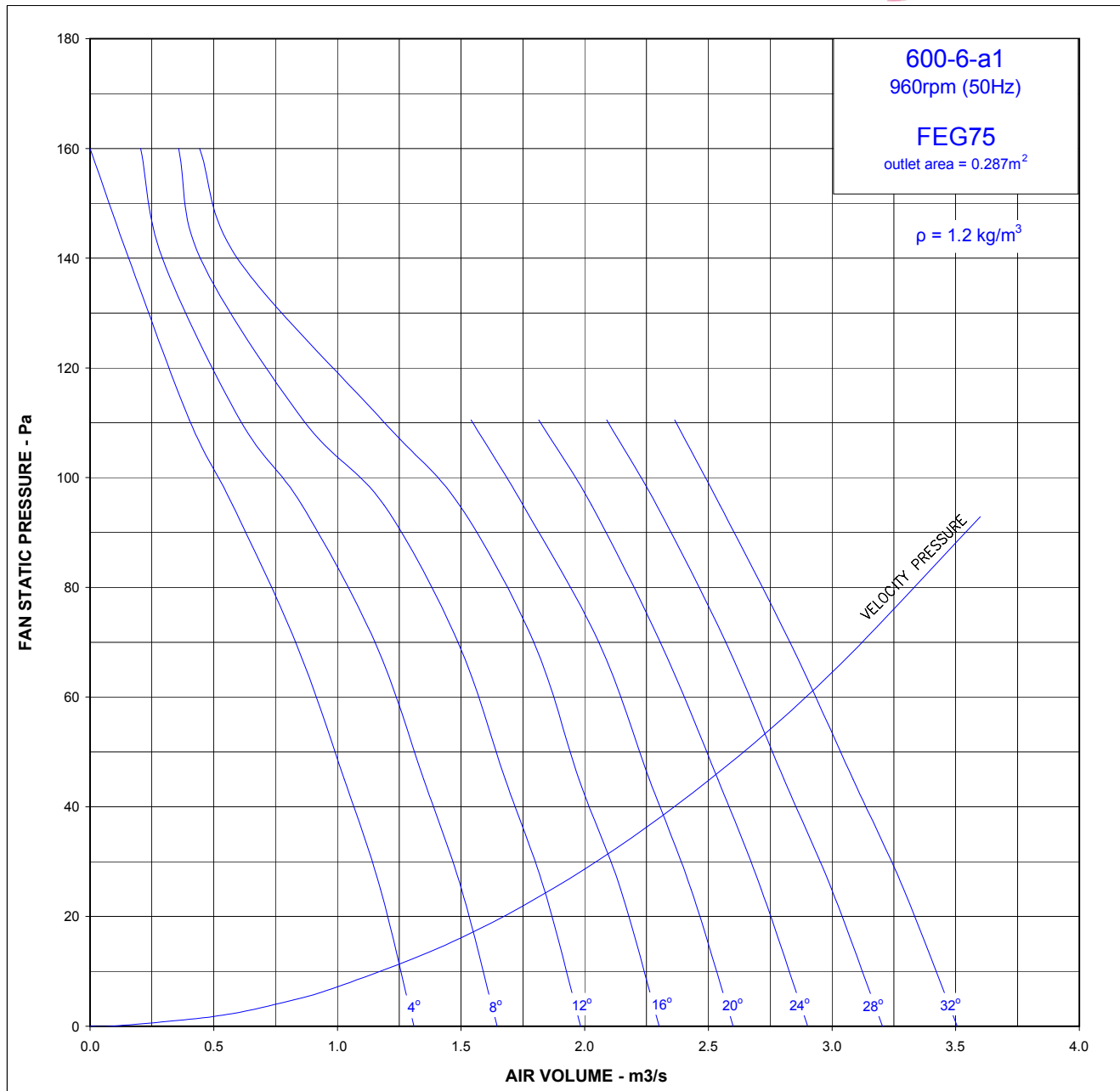
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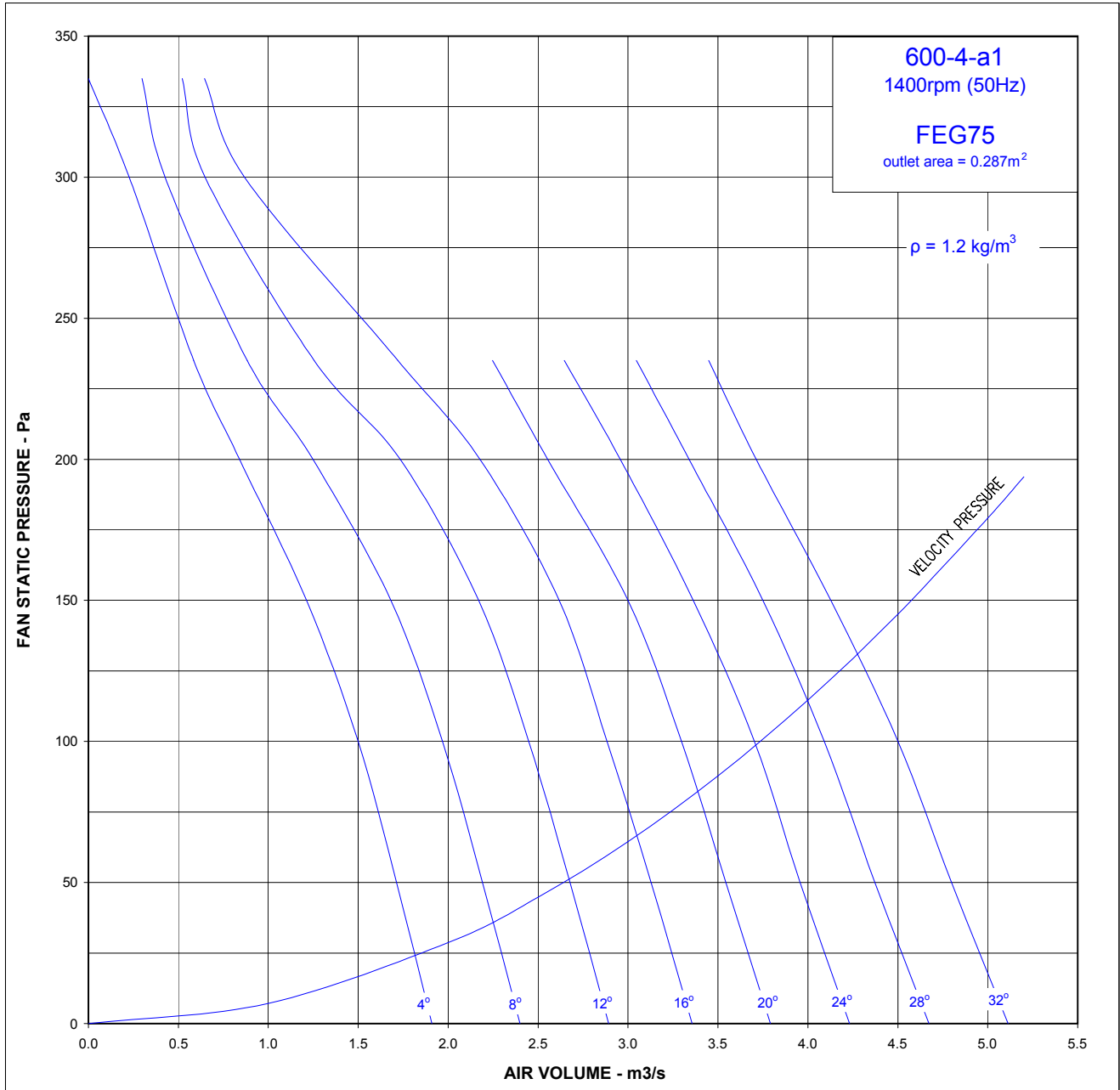


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	25	45	70	95	110	140	160			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	1.31	1.17	1.03	0.83	0.58	0.40	0.16	0.00	0.12	60	71	66	71	75	71	63	55	47	79	55
8°	1.65	1.50	1.35	1.15	0.86	0.61	0.29	0.20	0.18	63	72	67	71	74	70	63	55	48	79	54
12°	1.98	1.84	1.68	1.49	1.19	0.86	0.45	0.36	0.23	68	73	68	72	73	69	62	55	48	79	53
16°	2.30	2.14	1.98	1.79	1.49	1.18	0.595	0.443	0.28	71	73	69	73	72	68	62	56	49	79	52
20°	2.60	2.43	2.26	2.06	1.75	1.54	-	-	0.31	72	74	71	73	71	66	62	56	50	79	52
24°	2.90	2.71	2.54	2.31	2.03	1.81	-	-	0.40	66	75	71	74	72	67	62	57	52	80	52
28°	3.20	3.00	2.81	2.57	2.29	2.089	-	-	0.49	65	77	72	74	73	68	63	59	54	81	53
32°	3.51	3.29	3.09	2.83	2.55	2.364	-	-	0.57	66	79	73	74	73	69	64	60	56	82	54



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 *Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	50	100	150	200	235	300	335			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	1.91	1.71	1.50	1.21	0.84	0.59	0.23	0.00	0.36	60	82	77	75	82	83	76	67	59	88	65
8°	2.40	2.19	1.97	1.68	1.25	0.88	0.43	0.30	0.56	63	82	78	76	82	82	75	67	60	88	64
12°	2.89	2.68	2.45	2.17	1.73	1.26	0.65	0.52	0.72	68	82	79	78	82	80	74	67	60	88	63
16°	3.36	3.13	2.88	2.62	2.18	1.72	0.868	0.646	0.88	71	82	80	79	82	78	74	68	61	88	63
20°	3.79	3.54	3.30	3.00	2.55	2.25	-	-	0.96	72	83	82	80	82	77	73	68	62	88	62
24°	4.23	3.96	3.70	3.36	2.96	2.65	-	-	1.24	66	84	83	80	82	78	73	68	63	89	63
28°	4.67	4.37	4.09	3.75	3.34	3.047	-	-	1.51	65	86	84	81	83	79	74	69	65	90	63
32°	5.11	4.80	4.50	4.13	3.71	3.448	-	-	1.78	66	88	86	82	83	80	75	70	66	92	64



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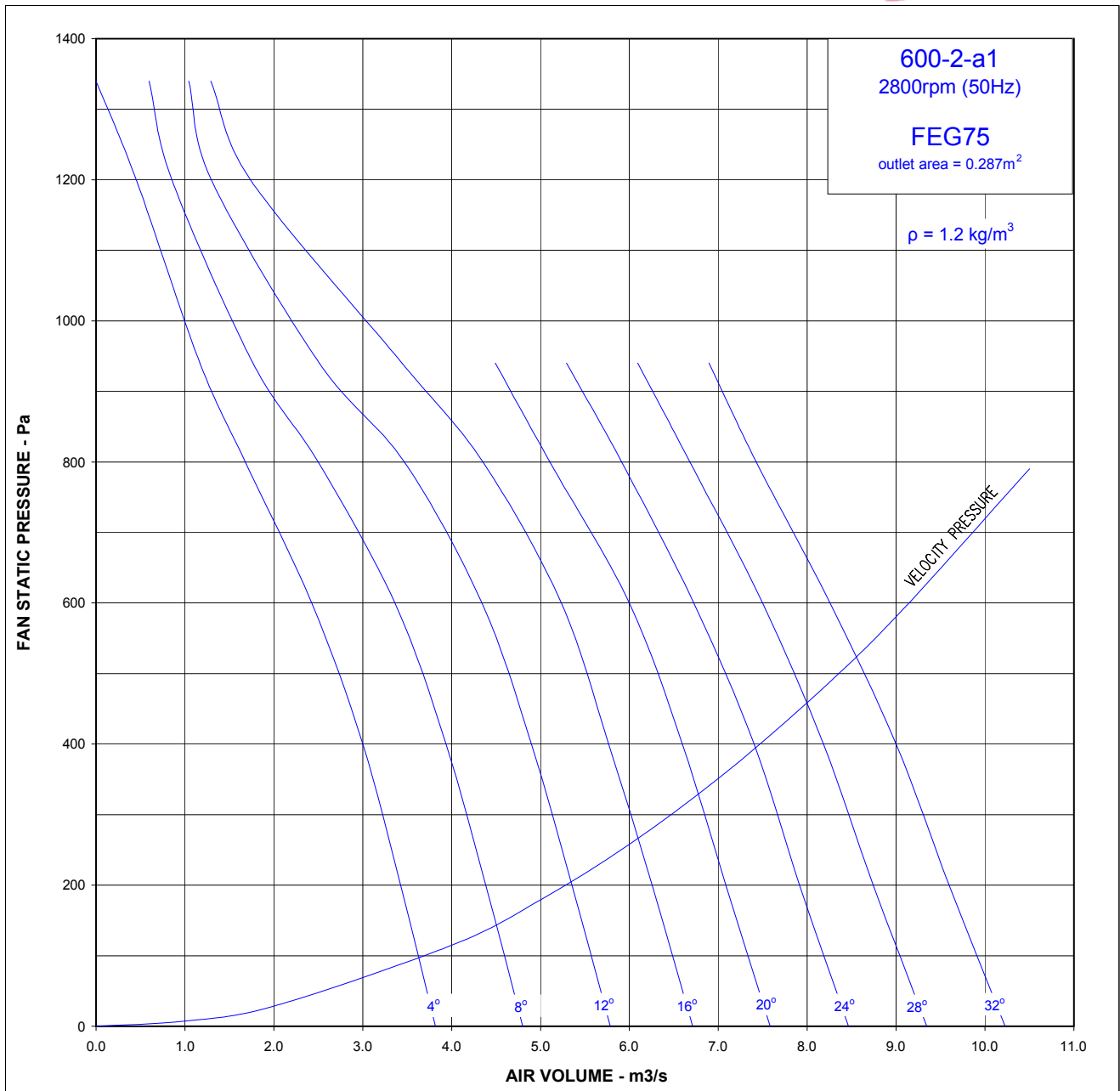
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	200	400	600	800	940	1200	1340			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	3.82	3.43	3.00	2.43	1.68	1.17	0.45	0.00	2.89	60	94	97	93	90	97	99	91	82	104	82
8°	4.80	4.38	3.94	3.36	2.50	1.77	0.85	0.60	4.50	63	94	97	94	91	97	97	90	82	104	81
12°	5.78	5.35	4.90	4.34	3.47	2.51	1.30	1.04	5.79	68	94	97	95	93	97	95	90	83	103	80
16°	6.71	6.26	5.77	5.23	4.35	3.44	1.736	1.292	7.01	71	95	98	96	94	98	94	89	83	104	80
20°	7.58	7.09	6.60	6.00	5.11	4.49	-	-	7.72	72	95	98	97	95	98	92	88	83	104	80
24°	8.46	7.91	7.40	6.72	5.91	5.29	-	-	9.89	66	97	100	98	96	98	93	88	84	105	80
28°	9.35	8.74	8.18	7.50	6.68	6.094	-	-	12.06	65	98	101	100	96	98	94	89	84	106	81
32°	10.23	9.60	9.00	8.26	7.43	6.896	-	-	14.24	66	100	103	101	97	98	95	90	85	108	82



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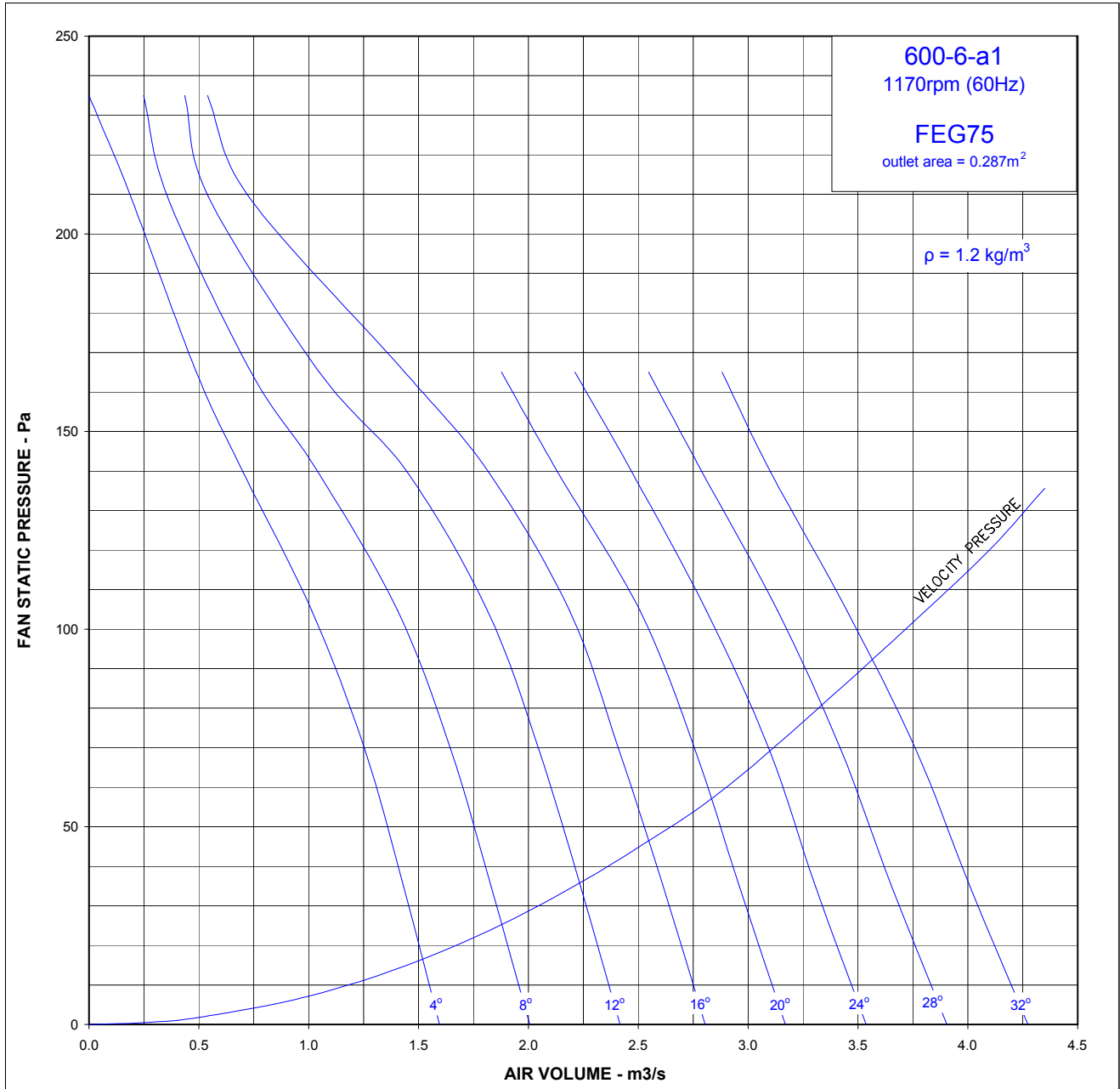
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	35	70	105	140	165	210	235			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	1.60	1.43	1.25	1.01	0.70	0.49	0.19	0.00	0.21	60	77	72	73	79	78	70	61	53	84	60
8°	2.01	1.83	1.64	1.40	1.04	0.74	0.36	0.25	0.33	63	77	73	74	78	76	69	62	54	83	59
12°	2.42	2.24	2.05	1.81	1.45	1.05	0.54	0.44	0.42	68	78	74	75	78	75	69	62	55	84	58
16°	2.80	2.61	2.41	2.19	1.82	1.44	0.725	0.540	0.51	71	78	75	76	77	73	68	62	55	83	58
20°	3.17	2.96	2.76	2.51	2.13	1.88	-	-	0.56	72	78	76	77	77	72	67	62	56	84	57
24°	3.54	3.31	3.09	2.81	2.47	2.21	-	-	0.72	66	80	77	77	77	73	68	63	58	84	58
28°	3.91	3.65	3.42	3.13	2.79	2.546	-	-	0.88	65	82	78	78	78	74	69	64	60	86	58
32°	4.27	4.01	3.76	3.45	3.10	2.882	-	-	1.04	66	83	80	78	78	75	70	65	61	87	59



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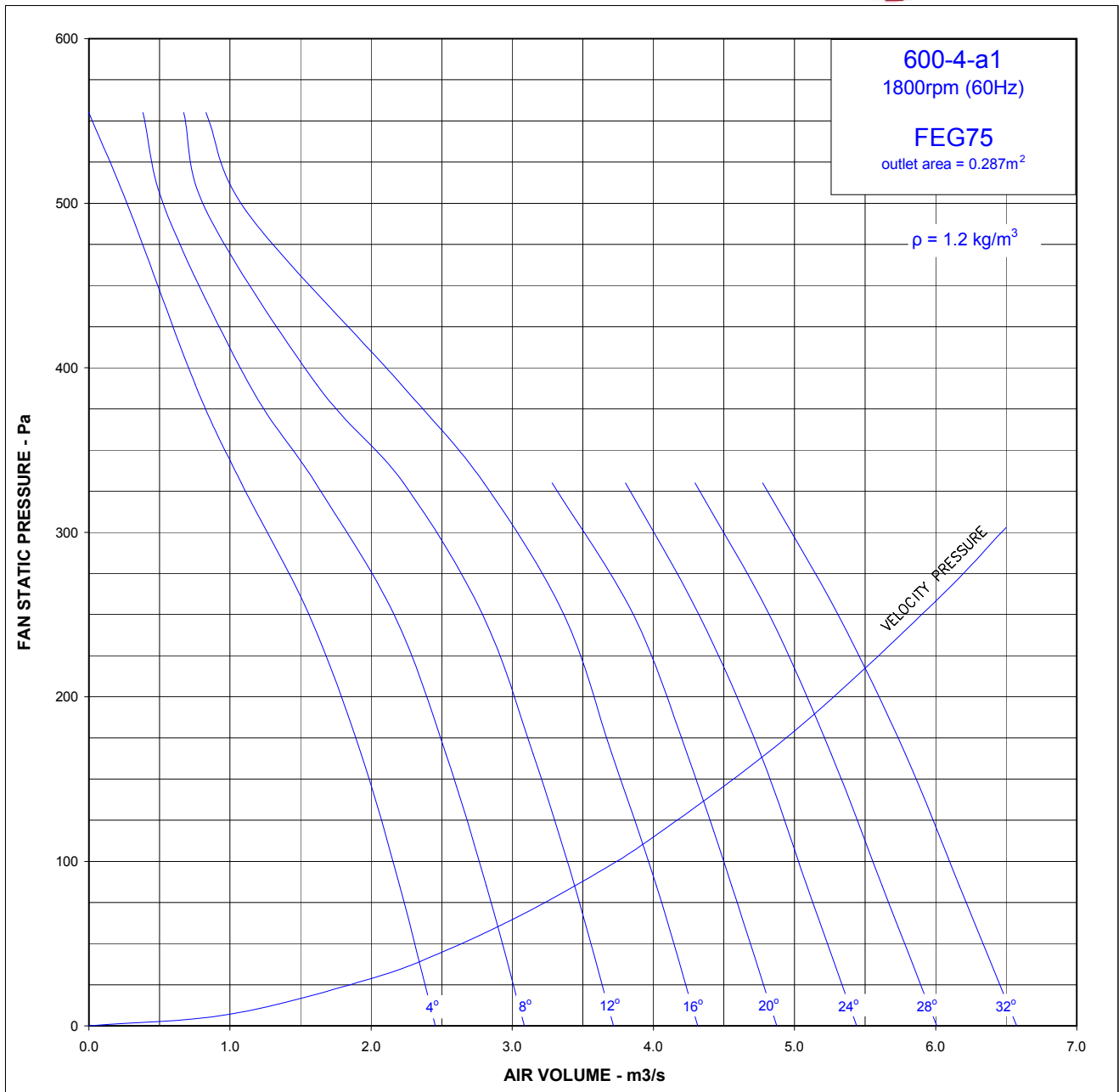
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	85	165	250	330	390	495	555			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBA)
4°	2.45	2.20	1.93	1.56	1.08	0.75	0.29	0.00	0.77	60	86	84	80	85	88	84	76	68	93	70
8°	3.09	2.82	2.53	2.16	1.61	1.14	0.55	0.38	1.20	63	86	85	81	86	87	83	76	68	93	70
12°	3.72	3.44	3.15	2.79	2.23	1.61	0.83	0.67	1.54	68	86	86	82	86	86	82	75	68	93	69
16°	4.31	4.02	3.71	3.36	2.80	2.21	1.116	0.831	1.86	71	87	87	83	86	85	81	75	69	93	68
20°	4.88	4.56	4.24	3.86	3.28	2.89	-	-	2.05	72	87	87	84	87	84	80	75	69	93	68
24°	5.44	5.09	4.76	4.32	3.80	3.40	-	-	2.63	66	89	89	85	87	85	80	76	71	95	69
28°	6.01	5.62	5.26	4.82	4.29	3.918	-	-	3.20	65	90	90	85	88	86	81	76	72	95	69
32°	6.57	6.17	5.79	5.31	4.77	4.433	-	-	3.78	66	92	92	86	88	86	82	77	73	97	70



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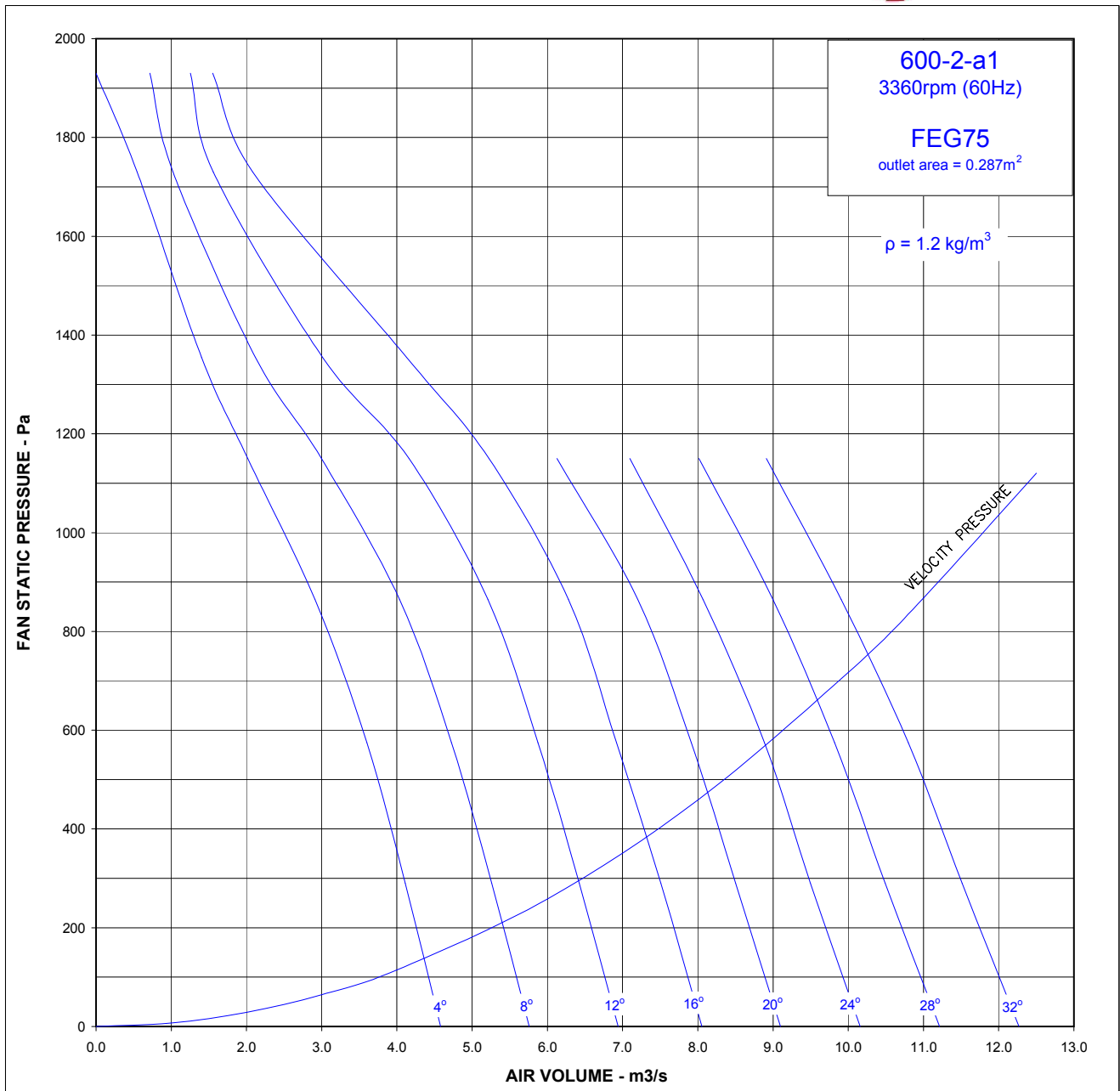
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	290	575	865	1150	1355	1730	1930			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q conductivity (dBa)
4°	4.58	4.11	3.60	2.91	2.02	1.40	0.54	0.00	4.99	60	97	100	97	94	99	102	97	89	107	85
8°	5.76	5.26	4.72	4.03	3.00	2.12	1.02	0.72	7.78	63	97	100	98	95	100	101	96	88	107	85
12°	6.94	6.42	5.88	5.21	4.16	3.01	1.56	1.25	10.00	68	97	100	99	96	100	100	95	88	107	84
16°	8.05	7.51	6.92	6.28	5.22	4.13	2.08	1.55	12.11	71	98	101	100	97	100	98	94	88	107	84
20°	9.10	8.50	7.91	7.20	6.13	5.39	-	-	13.34	72	98	101	101	98	101	97	93	88	108	84
24°	10.16	9.50	8.88	8.07	7.10	6.35	-	-	17.10	66	99	102	102	99	101	98	93	89	108	84
28°	11.22	10.49	9.82	9.00	8.02	7.313	-	-	20.84	65	101	104	104	99	101	99	94	90	110	85
32°	12.27	11.52	10.80	9.91	8.91	8.275	-	-	24.60	66	103	106	105	100	101	100	95	90	111	86



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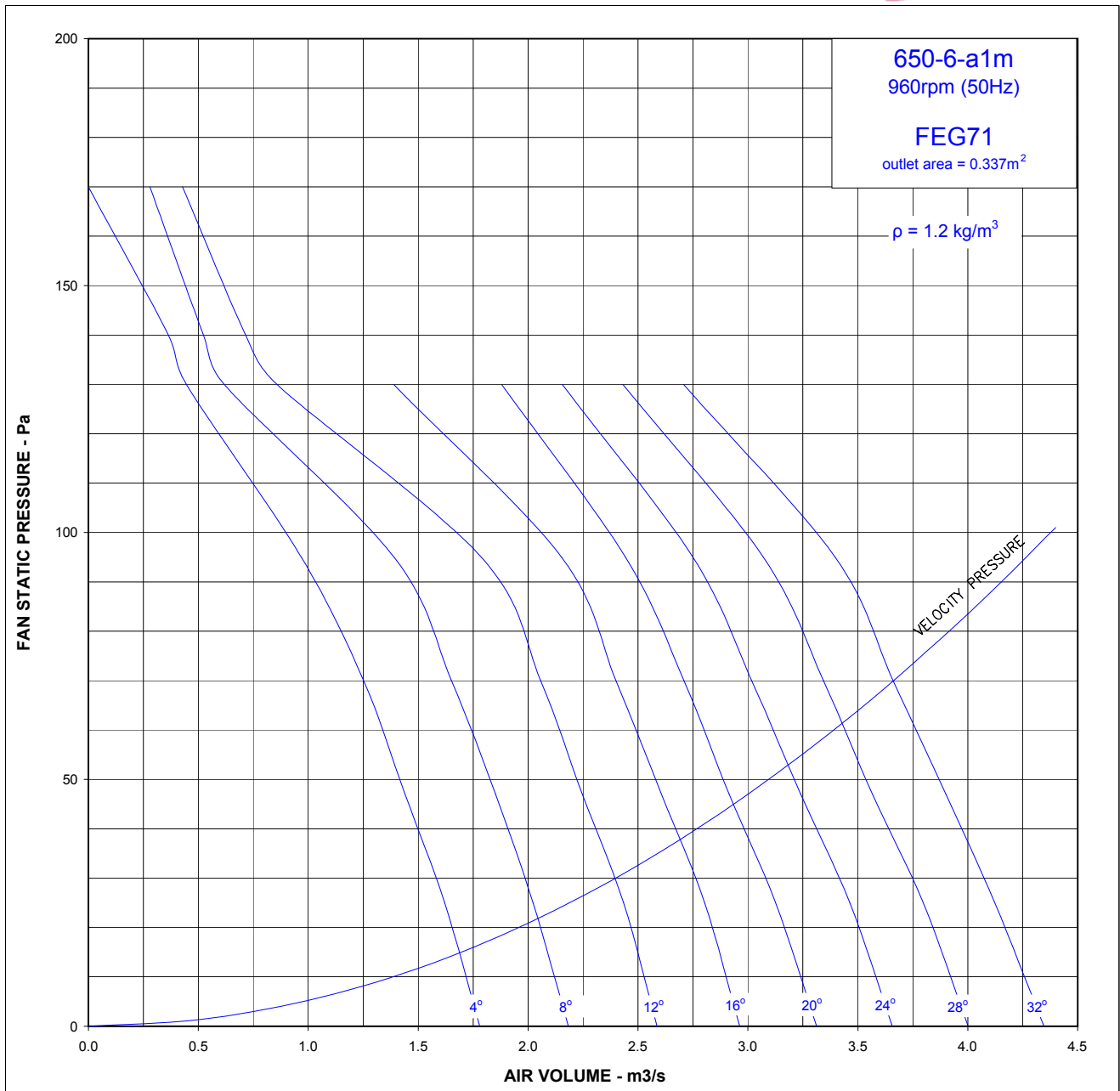
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	25	47	70	95	130	140	170			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	1.78	1.62	1.44	1.25	0.97	0.45	0.36	0.00	0.17	62	69	65	72	75	70	62	53	44	78	54
8°	2.18	2.02	1.85	1.65	1.39	0.62	0.52	0.28	0.28	61	70	66	72	74	69	62	53	45	78	53
12°	2.59	2.43	2.25	2.06	1.79	0.86	0.71	0.43	0.37	65	71	67	72	72	67	61	54	46	77	52
16°	2.96	2.80	2.61	2.40	2.15	1.39	-	-	0.41	66	72	68	72	71	66	60	54	47	77	51
20°	3.31	3.13	2.91	2.71	2.44	1.88	-	-	0.47	66	73	69	72	70	65	60	54	48	78	50
24°	3.66	3.46	3.24	3.02	2.75	2.15	-	-	0.59	63	75	70	72	71	66	61	56	51	79	51
28°	4.00	3.80	3.57	3.34	3.07	2.430	-	-	0.71	62	76	70	73	73	67	62	58	54	80	53
32°	4.35	4.12	3.90	3.66	3.40	2.706	-	-	0.84	63	77	71	74	74	68	63	59	56	81	54



Airtrade System certifies that the model 650-X-a1m shown herein is licensed to bear the AMCA Seal.

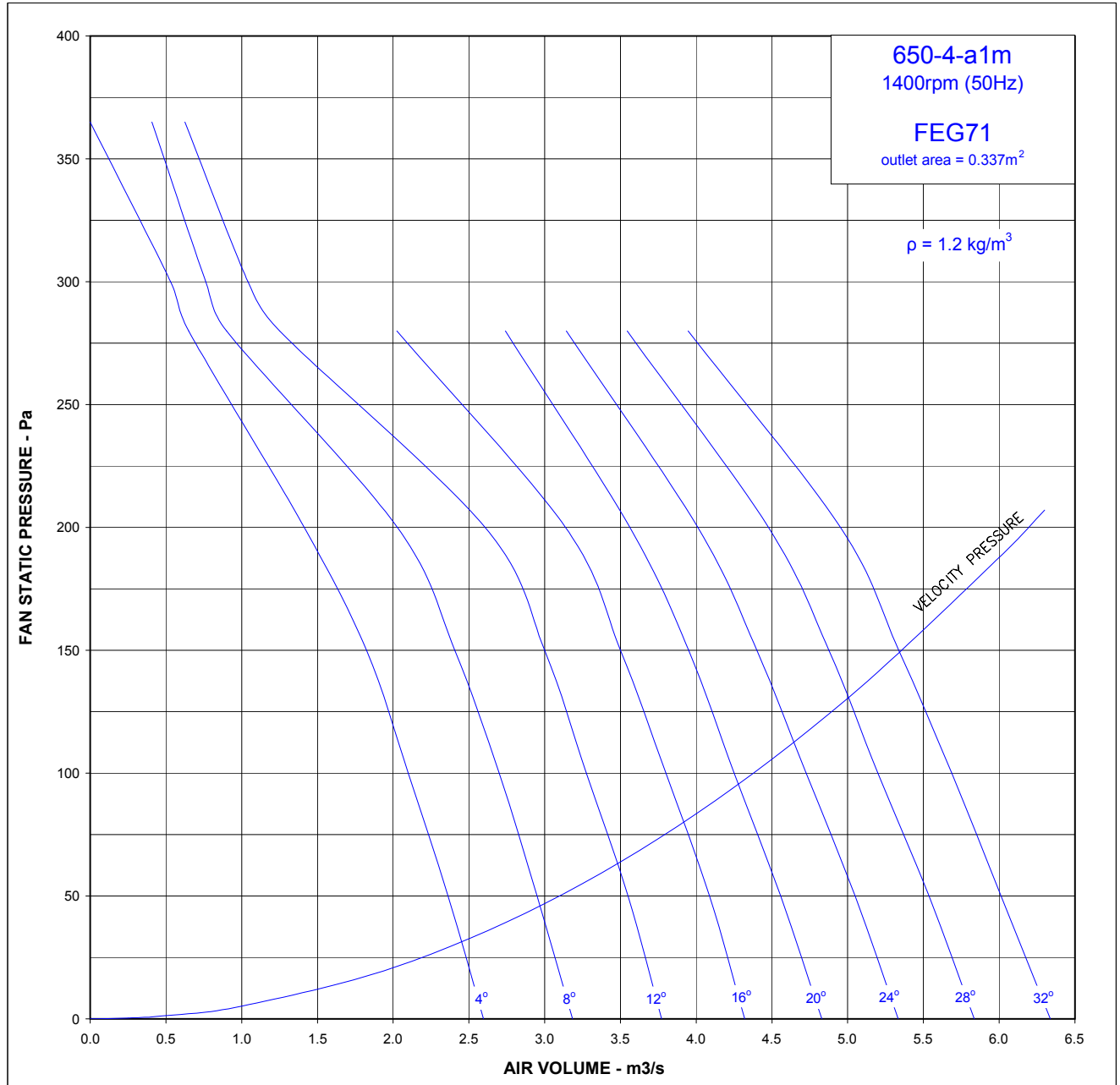
The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

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

*The AMCA Certified Ratings Seal applies to air performance and the Fan Efficiency Grade ratings only.

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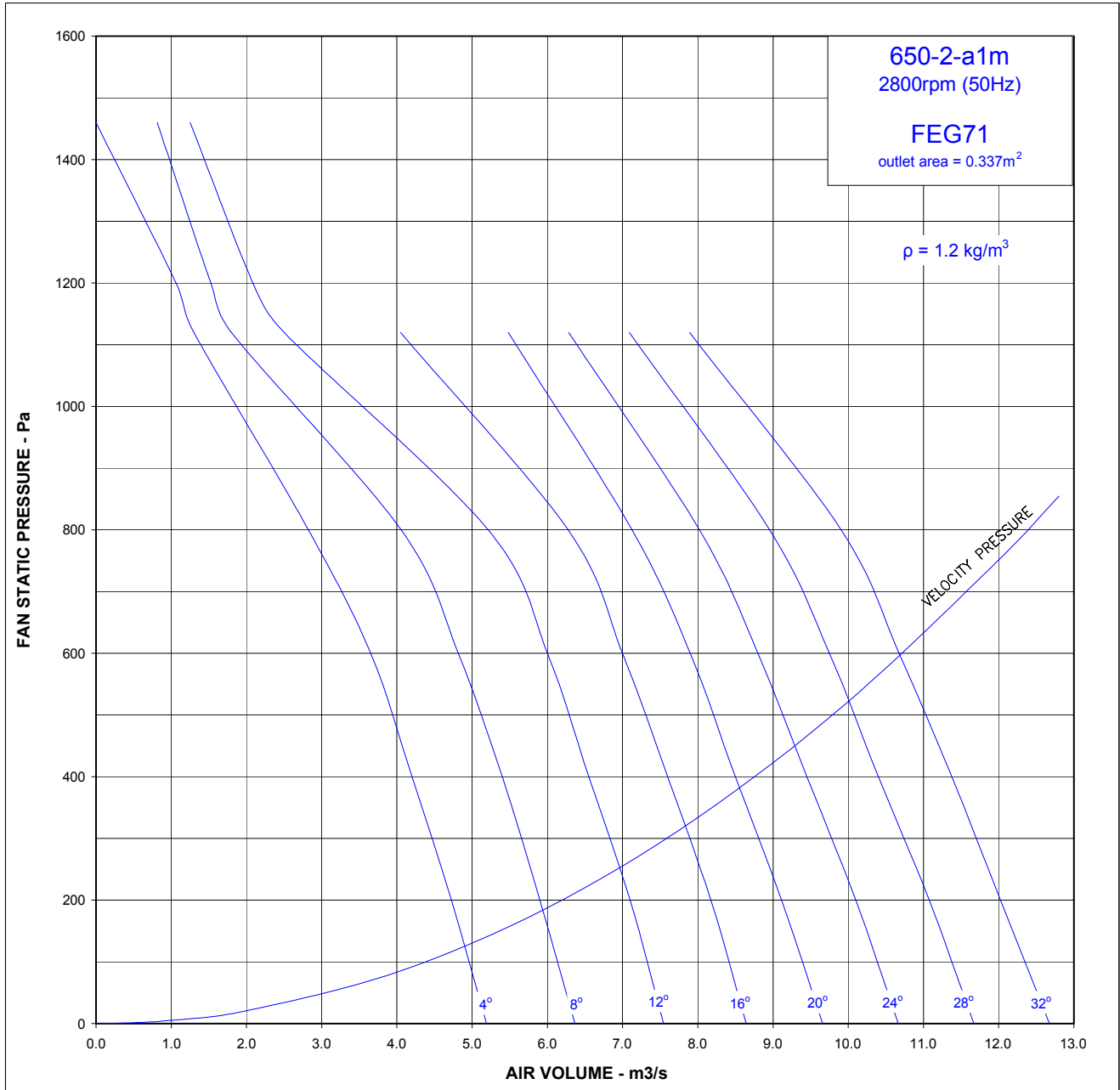


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	50	100	150	200	280	300	365			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.60	2.36	2.10	1.83	1.41	0.65	0.53	0.00	0.54	62	79	76	75	84	82	75	66	57	88	65
8°	3.18	2.95	2.70	2.41	2.03	0.90	0.76	0.41	0.88	61	80	77	76	82	81	74	66	58	87	64
12°	3.77	3.55	3.28	3.00	2.61	1.25	1.04	0.63	1.15	65	82	78	77	82	79	73	66	58	87	62
16°	4.32	4.09	3.80	3.50	3.14	2.02	-	-	1.27	66	84	78	78	81	77	72	66	59	88	61
20°	4.83	4.56	4.25	3.95	3.56	2.74	-	-	1.46	66	85	79	79	80	76	71	66	50	88	60
24°	5.33	5.05	4.73	4.40	4.01	3.14	-	-	1.83	63	86	80	79	81	77	71	67	62	89	62
28°	5.84	5.54	5.20	4.88	4.48	3.54	-	-	2.21	62	87	82	79	82	79	72	68	64	90	63
32°	6.34	6.01	5.69	5.34	4.95	3.95	-	-	2.59	63	87	83	80	83	81	73	69	66	91	64



Airtrade System certifies that the model 650-X-a1m shown herein is licensed to bear the 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.

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 *Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	200	400	600	800	1120	1200	1460			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	5.19	4.73	4.20	3.65	2.83	1.30	1.06	0.00	4.31	62	91	94	91	90	99	97	90	81	103	82
8°	6.37	5.90	5.40	4.82	4.06	1.80	1.53	0.82	7.00	61	92	95	92	91	98	96	89	81	103	81
12°	7.54	7.10	6.55	6.00	5.21	2.50	2.09	1.25	9.17	65	94	97	93	92	97	94	88	81	103	80
16°	8.64	8.18	7.60	7.00	6.28	4.05	-	-	10.14	66	96	99	93	93	96	92	87	81	103	79
20°	9.66	9.12	8.50	7.90	7.13	5.48	-	-	11.72	66	97	100	94	94	95	91	86	81	104	78
24°	10.67	10.10	9.45	8.80	8.02	6.28	-	-	14.61	63	98	101	95	94	96	92	86	82	105	79
28°	11.67	11.08	10.40	9.75	8.95	7.09	-	-	17.68	62	99	102	97	95	97	94	87	83	106	80
32°	12.68	12.03	11.38	10.68	9.91	7.89	-	-	20.76	63	99	103	98	95	98	96	88	84	107	81



Airtrade System certifies that the model 650-X-a1m shown herein is licensed to bear the AMCA Seal.

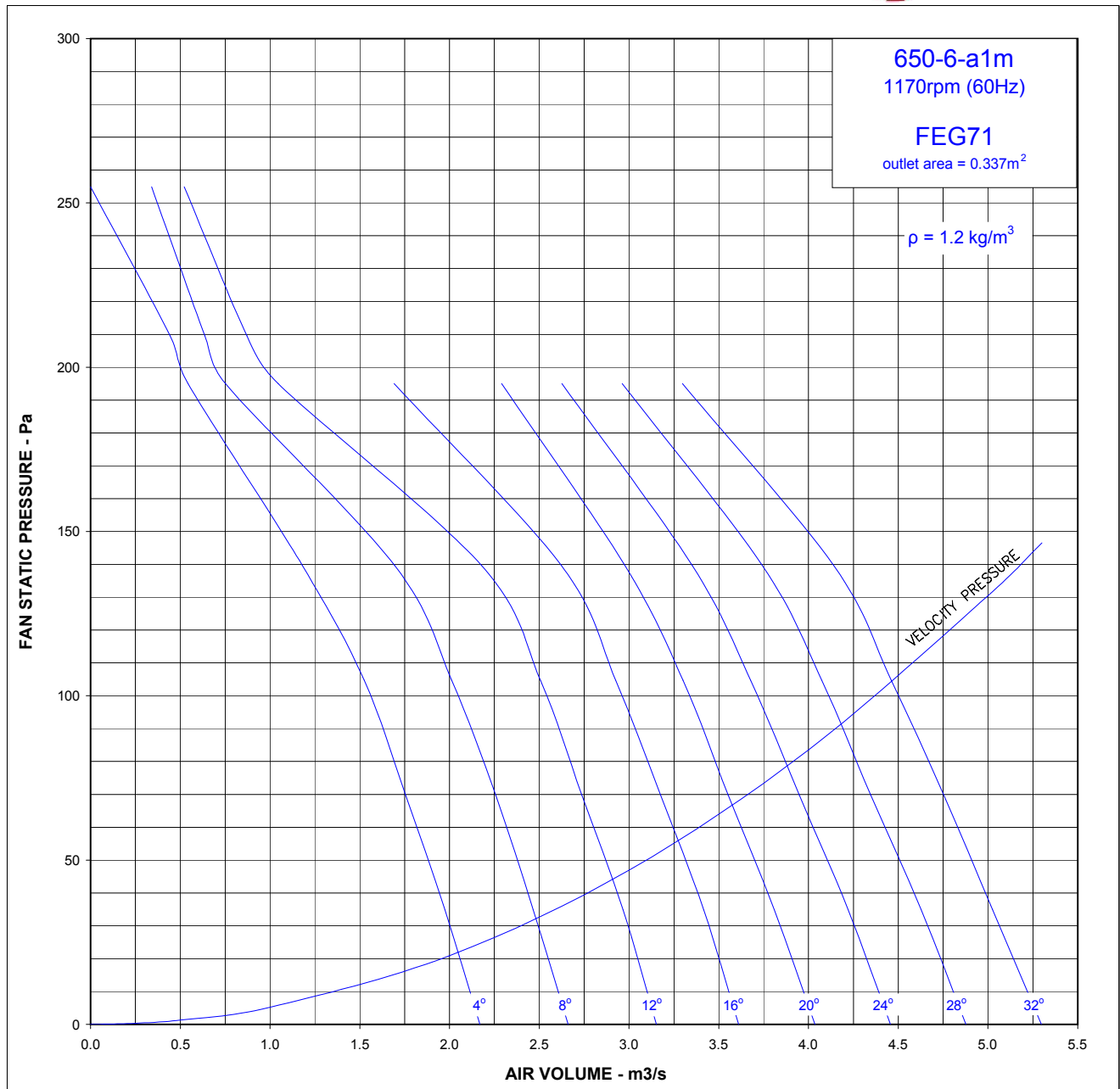
The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

*Performance certified is for installation type D - Ducted inlet, Ducted outlet

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*The AMCA Certified Ratings Seal applies to air performance and the Fan Efficiency Grade ratings only.

*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	35	70	105	140	195	210	255			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.17	1.97	1.76	1.53	1.18	0.54	0.44	0.00	0.31	62	74	71	73	80	77	69	60	51	83	60
8°	2.66	2.47	2.26	2.01	1.69	0.75	0.64	0.34	0.51	61	76	72	74	79	75	68	60	52	83	59
12°	3.15	2.97	2.74	2.51	2.18	1.04	0.87	0.52	0.67	65	77	73	74	77	73	67	60	53	82	57
16°	3.61	3.42	3.18	2.93	2.62	1.69	-	-	0.74	66	78	74	75	76	72	66	60	53	83	56
20°	4.04	3.81	3.55	3.30	2.98	2.29	-	-	0.86	66	80	74	75	75	70	65	60	54	83	55
24°	4.46	4.22	3.95	3.68	3.35	2.63	-	-	1.07	63	81	75	76	76	72	66	62	57	84	57
28°	4.88	4.63	4.35	4.07	3.74	2.96	-	-	1.29	62	82	76	76	78	73	67	63	59	85	58
32°	5.30	5.02	4.75	4.46	4.14	3.30	-	-	1.51	63	82	77	77	79	75	68	65	62	86	59



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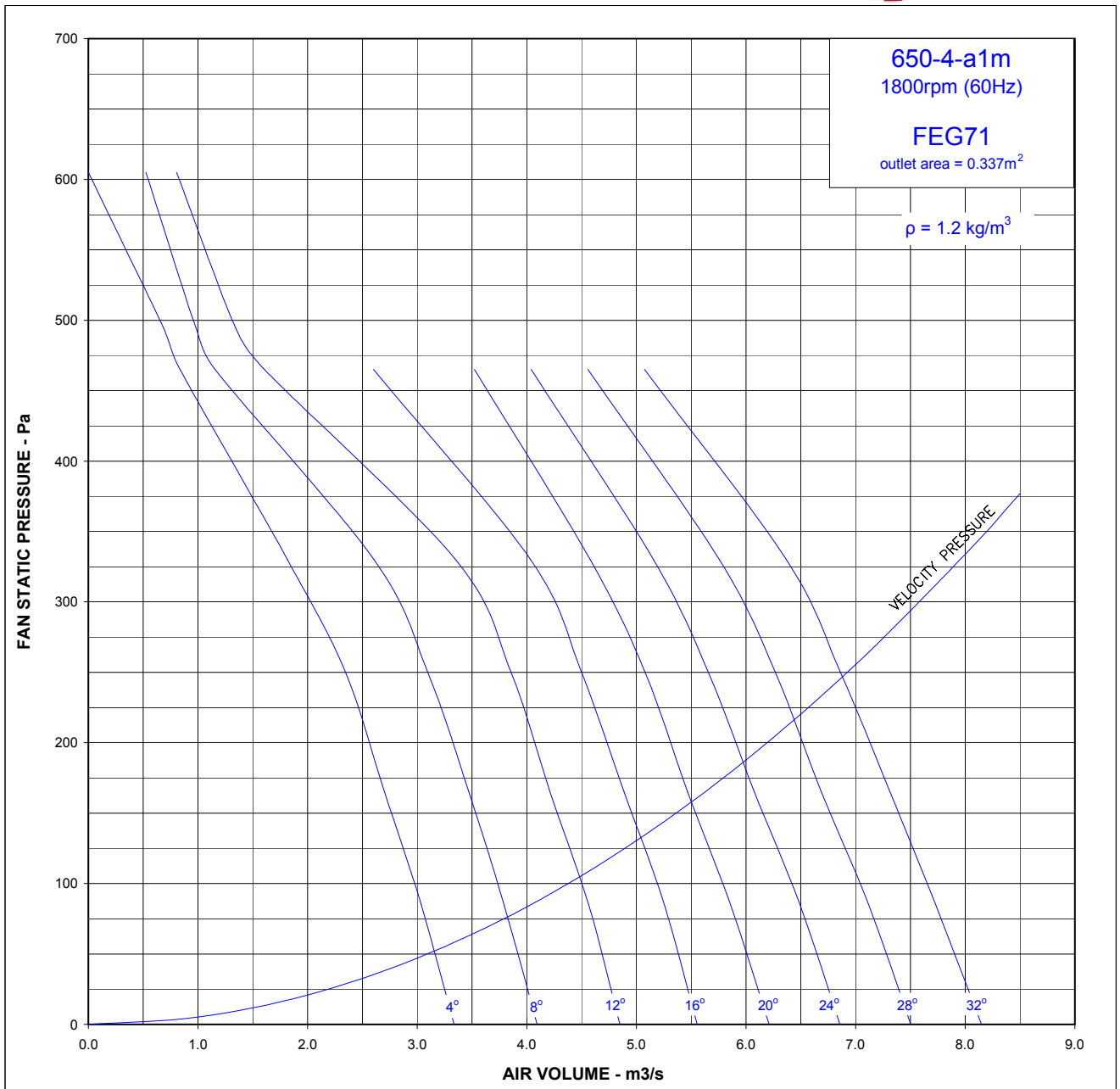
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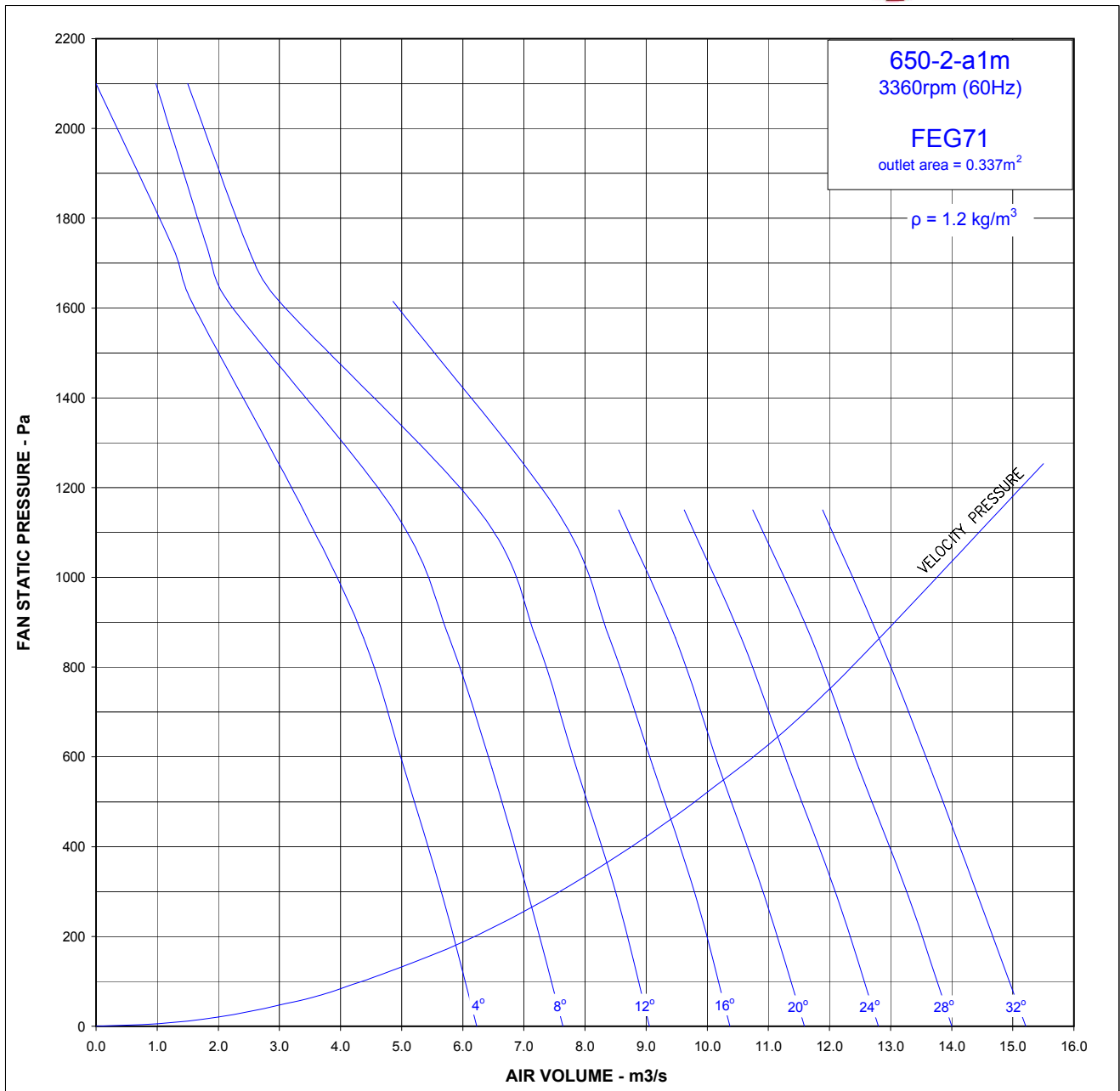


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	85	165	250	330	465	495	605			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	3.34	3.04	2.70	2.35	1.82	0.84	0.68	0.00	1.15	62	83	83	79	86	88	83	75	66	92	70
8°	4.09	3.79	3.47	3.10	2.61	1.16	0.98	0.52	1.86	61	85	84	80	86	87	82	74	66	92	69
12°	4.85	4.56	4.21	3.86	3.35	1.61	1.34	0.80	2.44	65	86	85	81	86	86	81	74	67	93	68
16°	5.56	5.26	4.89	4.50	4.03	2.60	-	-	2.69	66	88	86	82	85	84	79	73	67	93	67
20°	6.21	5.86	5.46	5.08	4.58	3.52	-	-	3.12	66	90	87	83	85	83	78	73	67	94	66
24°	6.86	6.49	6.08	5.66	5.16	4.04	-	-	3.88	63	90	88	83	86	84	79	74	69	94	68
28°	7.50	7.12	6.69	6.27	5.76	4.56	-	-	4.70	62	91	89	84	87	86	80	75	71	95	69
32°	8.15	7.73	7.31	6.86	6.37	5.07	-	-	5.52	63	92	90	84	88	87	81	76	73	96	70



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 *Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	290	575	865	1150	1615	1730	2100			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	6.23	5.67	5.04	4.38	3.39	1.56	1.27	0.00	7.5	62	94	97	96	93	100	102	96	88	106	85
8°	7.64	7.08	6.48	5.78	4.87	2.16	1.83	0.98	12.1	61	96	99	97	94	100	100	95	87	106	84
12°	9.05	8.52	7.86	7.20	6.26	3.00	2.50	1.50	15.8	65	97	100	98	95	100	99	94	87	107	83
16°	10.37	9.81	9.12	8.40	7.53	4.86	-	-	17.5	66	99	102	99	96	99	97	92	86	107	83
20°	11.59	10.94	10.20	9.48	8.55	6.58	-	-	20.2	66	100	103	99	97	99	96	91	86	108	82
24°	12.80	12.12	11.34	10.56	9.63	7.54	-	-	25.2	63	101	104	101	97	100	97	92	87	109	83
28°	14.00	13.29	12.48	11.70	10.75	8.51	-	-	30.6	62	102	105	102	98	101	99	93	88	110	84
32°	15.21	14.43	13.65	12.81	11.89	9.47	-	-	35.9	63	103	106	103	98	101	101	94	89	111	85



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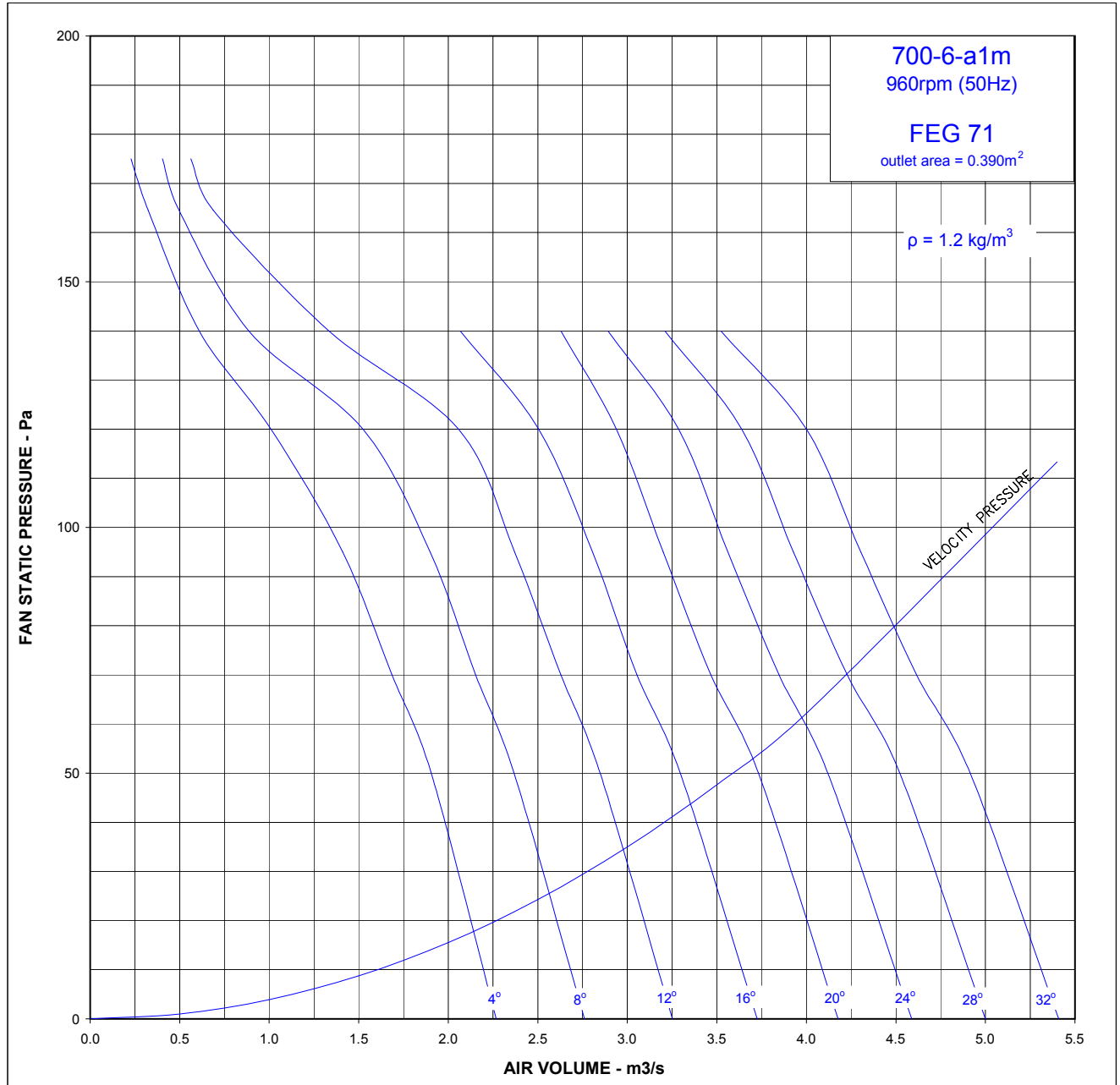
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*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m ³ /s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	50	70	95	120	140	165	175			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.27	1.90	1.69	1.41	1.01	0.61	0.32	0.23	0.26	60	71	71	75	78	77	72	62	51	83	63
8°	2.76	2.37	2.15	1.90	1.52	0.89	0.50	0.40	0.39	63	73	71	75	78	75	70	62	52	82	62
12°	3.25	2.85	2.63	2.37	2.06	1.33	0.69	0.56	0.49	67	74	72	75	78	74	68	61	53	82	61
16°	3.72	3.30	3.05	2.81	2.50	2.07	-	-	0.54	69	75	72	75	77	72	66	60	53	82	60
20°	4.18	3.73	3.47	3.20	2.94	2.63	-	-	0.67	69	76	73	75	77	71	64	59	54	82	59
24°	4.59	4.12	3.85	3.56	3.29	2.89	-	-	0.83	64	78	74	76	77	72	65	60	56	83	60
28°	5.00	4.52	4.23	3.93	3.64	3.210	-	-	0.98	63	80	75	77	78	72	66	61	57	84	60
32°	5.41	4.91	4.62	4.30	4.00	3.523	-	-	1.15	63	82	76	78	78	73	67	62	59	85	61



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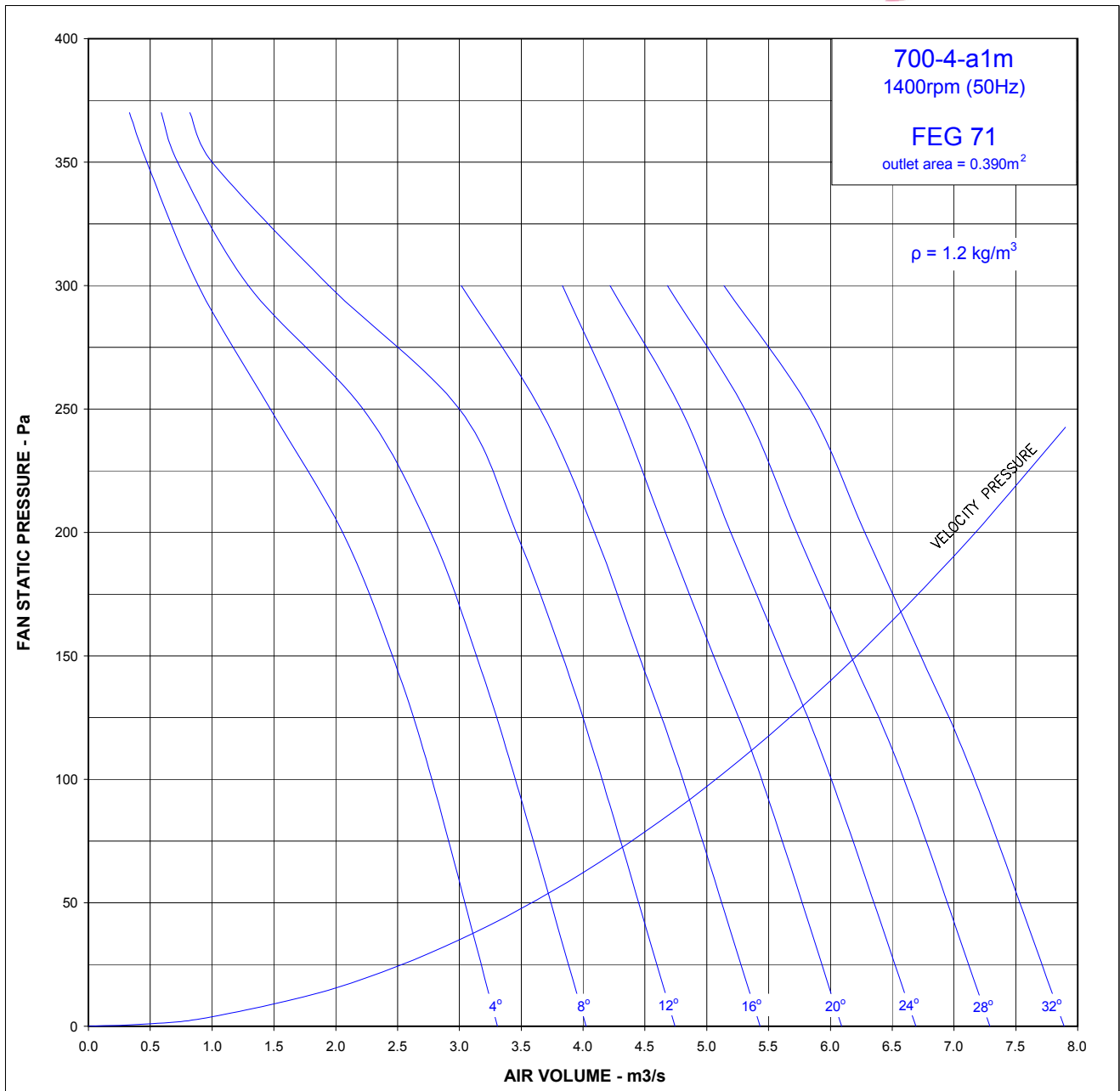
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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	100	150	200	250	300	350	370			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	3.31	2.78	2.46	2.06	1.47	0.89	0.47	0.33	0.80	60	82	78	80	85	87	83	77	66	91	70
8°	4.03	3.45	3.14	2.77	2.22	1.29	0.72	0.59	1.20	63	84	79	81	85	87	81	75	65	92	69
12°	4.74	4.15	3.83	3.46	3.00	1.94	1.00	0.82	1.51	67	85	80	81	84	86	79	73	65	91	68
16°	5.43	4.81	4.45	4.09	3.65	3.01	-	-	1.68	69	87	81	82	84	86	77	71	65	92	67
20°	6.09	5.44	5.06	4.67	4.29	3.83	-	-	2.09	69	88	82	82	84	85	75	70	65	92	67
24°	6.69	6.01	5.61	5.19	4.79	4.22	-	-	2.57	64	91	83	83	85	85	76	70	66	94	67
28°	7.29	6.59	6.17	5.73	5.31	4.68	-	-	3.05	63	93	85	84	86	85	77	71	68	95	68
32°	7.89	7.17	6.73	6.28	5.83	5.14	-	-	3.56	63	95	86	85	87	85	78	72	69	97	68



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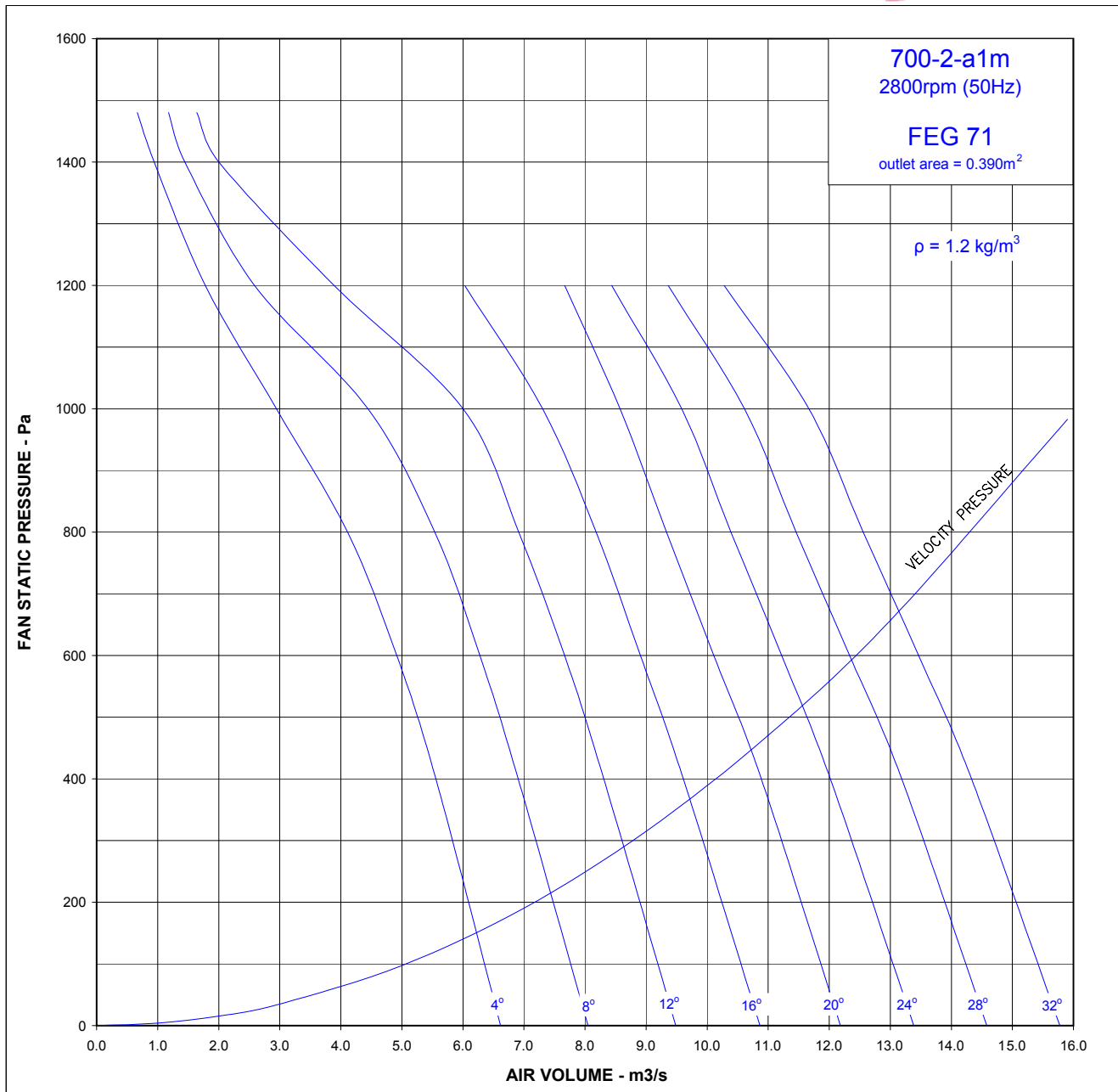
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	400	600	800	1000	1200	1400	1480			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	6.62	5.56	4.92	4.11	2.94	1.78	0.94	0.67	6.39	60	95	97	93	95	100	102	98	92	107	86
8°	8.05	6.91	6.28	5.54	4.44	2.58	1.44	1.18	9.63	63	96	99	94	96	100	102	96	90	107	85
12°	9.49	8.31	7.67	6.92	6.00	3.89	2.00	1.64	12.09	67	98	100	95	96	99	101	94	88	107	85
16°	10.86	9.61	8.91	8.18	7.31	6.03	-	-	13.40	69	99	102	96	97	99	101	92	86	107	84
20°	12.18	10.89	10.11	9.33	8.57	7.67	-	-	16.71	69	101	103	97	97	99	100	90	85	108	84
24°	13.38	12.02	11.22	10.39	9.58	8.43	-	-	20.52	64	103	106	98	98	100	100	91	86	110	84
28°	14.58	13.19	12.33	11.46	10.61	9.36	-	-	24.40	63	105	108	100	99	101	100	92	86	111	85
32°	15.78	14.33	13.46	12.56	11.67	10.28	-	-	28.44	63	108	110	101	101	102	100	93	87	113	86



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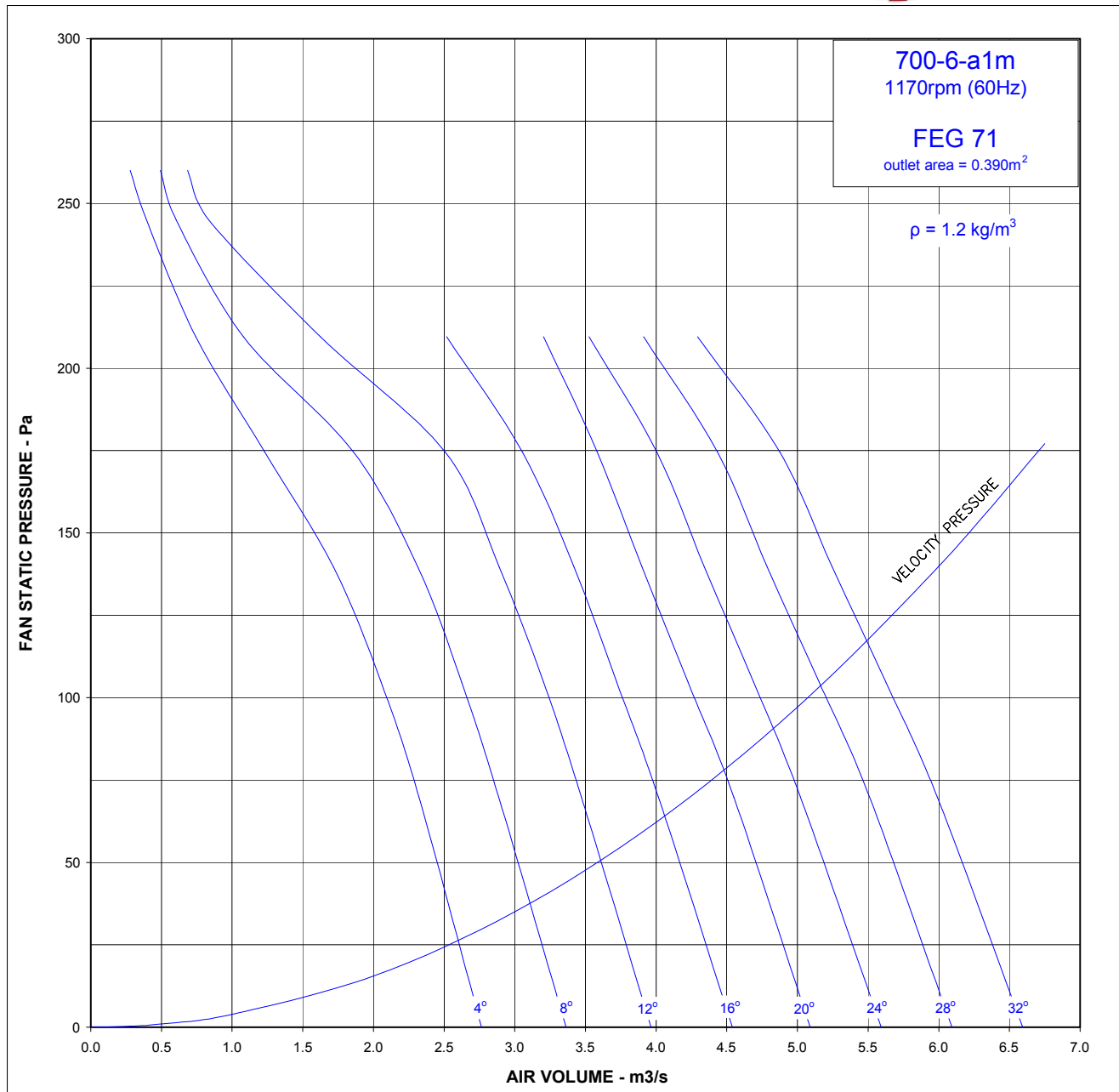
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	70	105	140	175	210	245	260			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.76	2.32	2.05	1.72	1.23	0.74	0.39	0.28	0.47	60	77	74	77	82	82	78	70	59	87	65
8°	3.36	2.89	2.62	2.31	1.86	1.08	0.60	0.49	0.70	63	79	75	78	81	81	75	69	59	87	64
12°	3.96	3.47	3.20	2.89	2.51	1.62	0.84	0.69	0.88	67	80	76	78	81	80	73	67	59	87	63
16°	4.54	4.02	3.72	3.42	3.05	2.52	-	-	0.98	69	81	77	78	81	79	71	66	59	87	62
20°	5.09	4.55	4.22	3.90	3.58	3.20	-	-	1.22	69	83	78	79	80	78	69	64	59	87	61
24°	5.59	5.02	4.69	4.34	4.00	3.52	-	-	1.50	64	85	79	80	81	79	70	65	61	89	62
28°	6.09	5.51	5.15	4.79	4.43	3.91	-	-	1.78	63	87	80	81	82	79	72	67	63	90	63
32°	6.59	5.99	5.63	5.25	4.87	4.29	-	-	2.08	63	89	81	82	83	79	73	68	65	91	63



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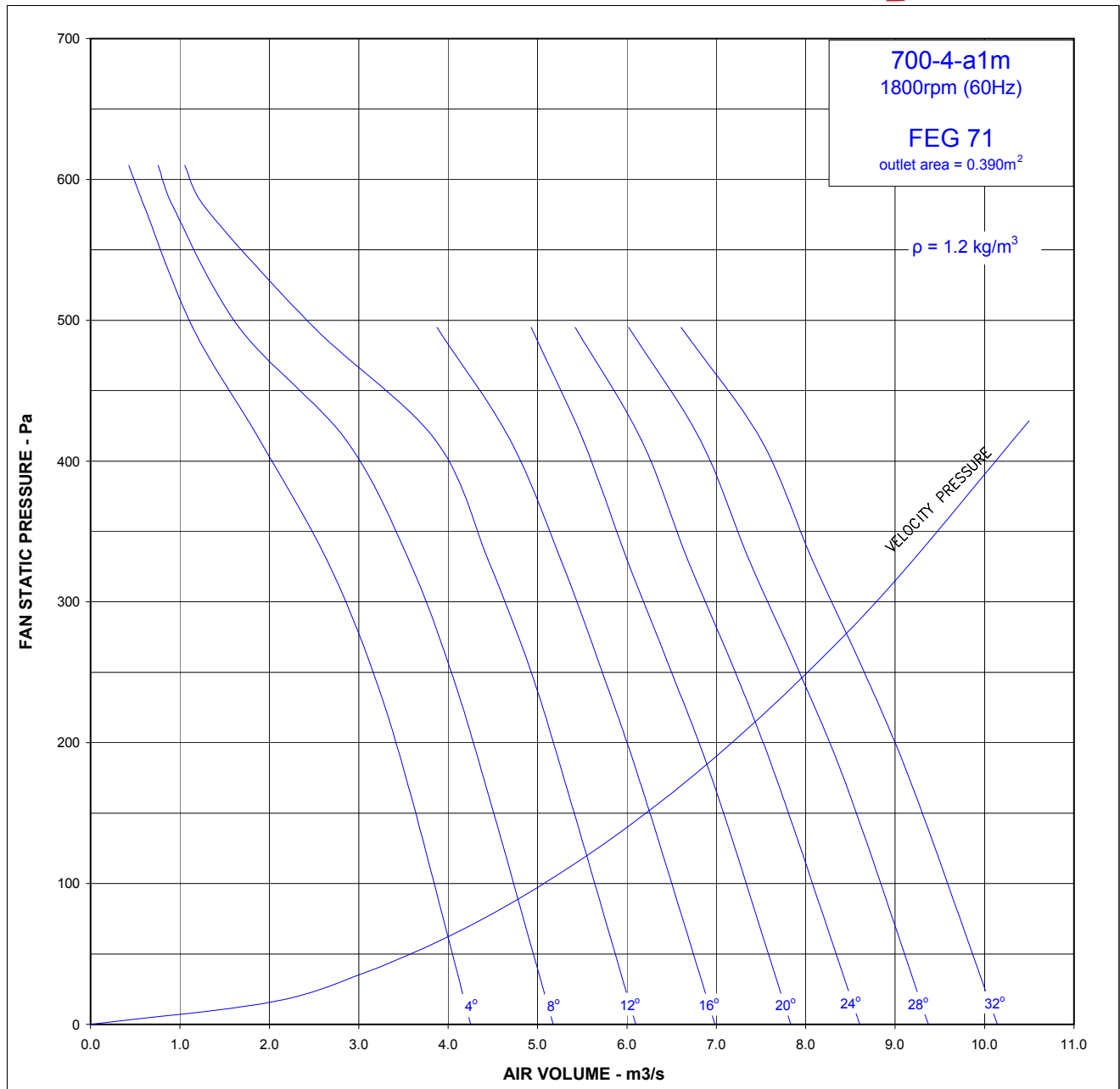
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	165	250	330	415	495	580	610			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	4.25	3.57	3.16	2.64	1.89	1.14	0.61	0.43	1.70	60	87	85	84	89	92	90	84	75	97	75
8°	5.18	4.44	4.04	3.56	2.86	1.66	0.93	0.76	2.56	63	88	86	85	89	91	89	83	74	96	74
12°	6.10	5.34	4.93	4.45	3.86	2.50	1.29	1.06	3.21	67	90	87	85	89	91	87	81	73	97	73
16°	6.98	6.18	5.73	5.26	4.70	3.88	-	-	3.56	69	91	89	86	89	91	85	79	73	97	73
20°	7.83	7.00	6.50	6.00	5.51	4.93	-	-	4.44	69	93	90	86	89	90	84	77	72	97	72
24°	8.60	7.72	7.21	6.68	6.16	5.42	-	-	5.45	64	95	91	88	90	91	85	78	73	99	73
28°	9.37	8.48	7.93	7.36	6.82	6.02	-	-	6.48	63	97	93	89	91	91	85	79	74	100	74
32°	10.14	9.21	8.65	8.07	7.50	6.61	-	-	7.56	63	99	95	90	92	91	86	80	76	102	74



Airtrade System certifies that the model 700-X-a1m shown herein is licensed to bear the AMCA Seal.

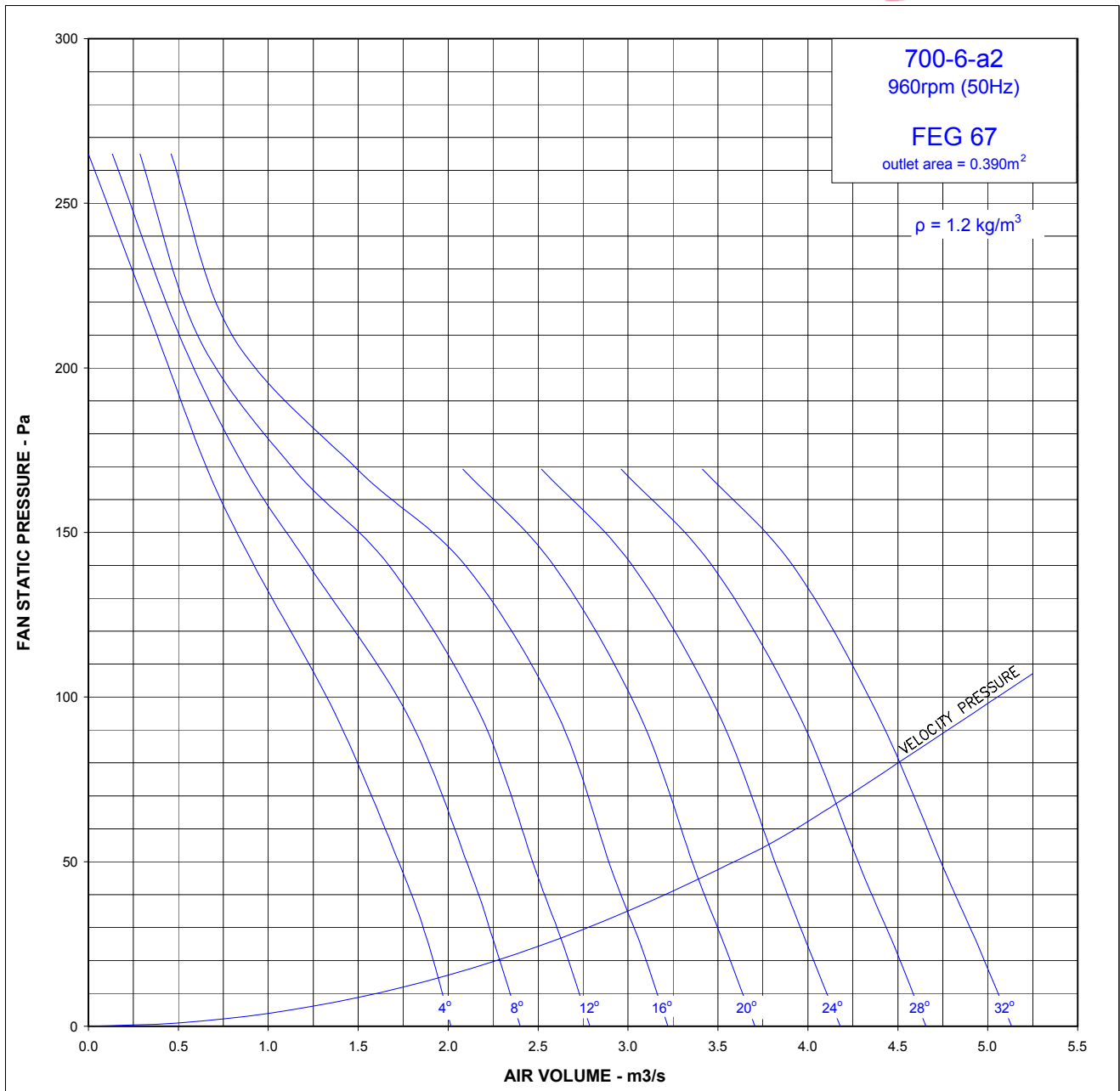
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*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	24	47	95	140	169	210	265			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.01	1.90	1.75	1.37	0.92	0.66	0.38	0.00	0.35	53	76	74	76	79	75	67	60	54	83	62
8°	2.40	2.26	2.12	1.77	1.23	0.87	0.50	0.13	0.47	55	77	73	76	87	74	66	59	53	88	60
12°	2.79	2.64	2.49	2.18	1.67	1.14	0.61	0.29	0.57	59	77	73	75	76	72	65	59	53	82	59
16°	3.22	3.07	2.91	2.61	2.09	1.49	0.798	0.459	0.62	62	78	73	75	75	71	64	58	53	82	58
20°	3.70	3.54	3.38	3.06	2.59	2.08	-	-	0.71	64	79	73	74	74	69	63	58	53	82	57
24°	4.18	4.00	3.84	3.50	3.02	2.52	-	-	0.71	60	80	74	76	75	70	64	59	55	83	58
28°	4.66	4.48	4.30	3.95	3.47	2.962	-	-	1.12	60	82	75	77	77	71	65	60	57	85	60
32°	5.13	4.95	4.76	4.39	3.92	3.413	-	-	1.33	59	83	76	78	78	73	66	62	59	86	61



Airtrade System certifies that the model 700-X-a2 shown herein is licensed to bear the AMCA Seal.

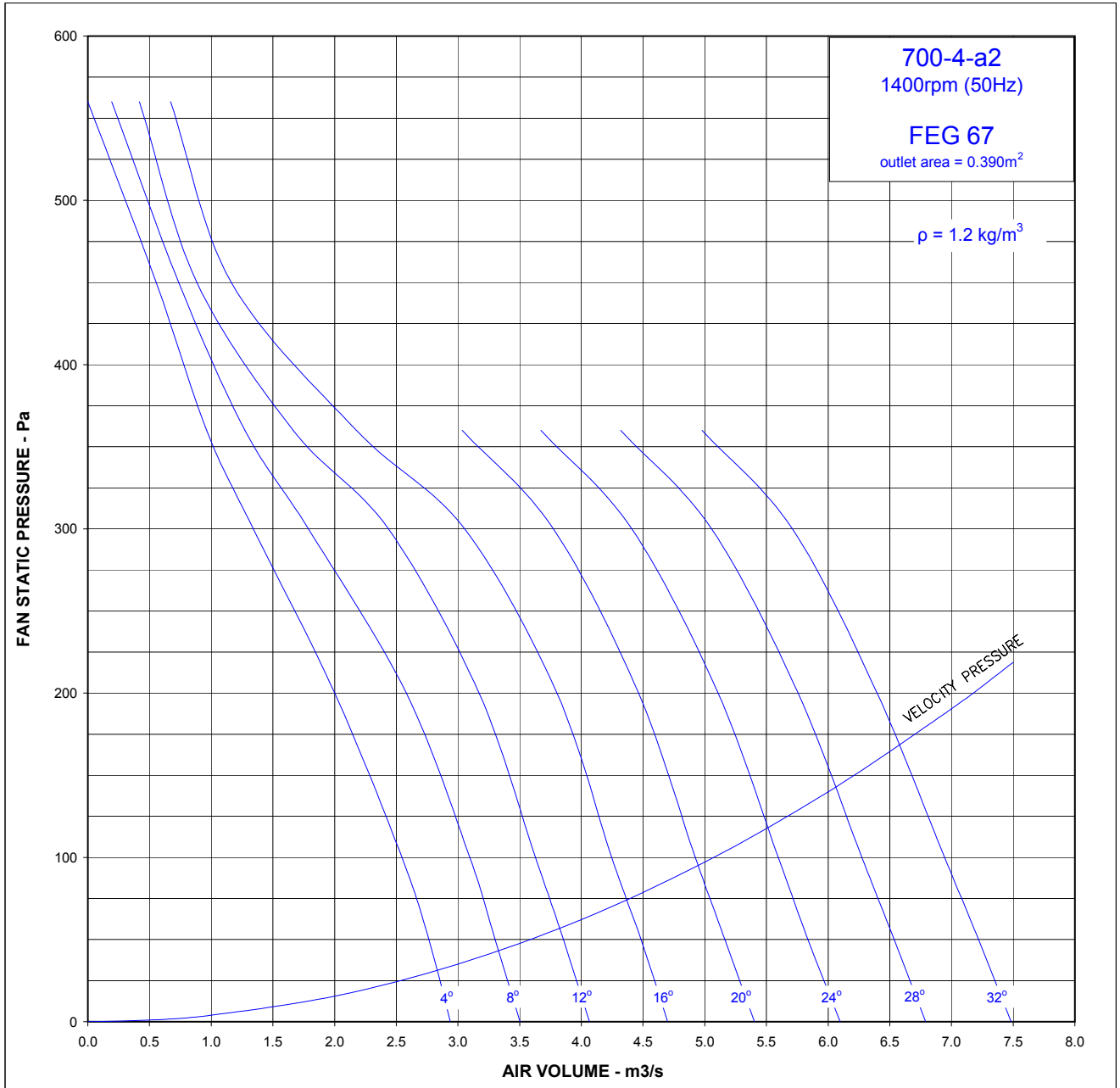
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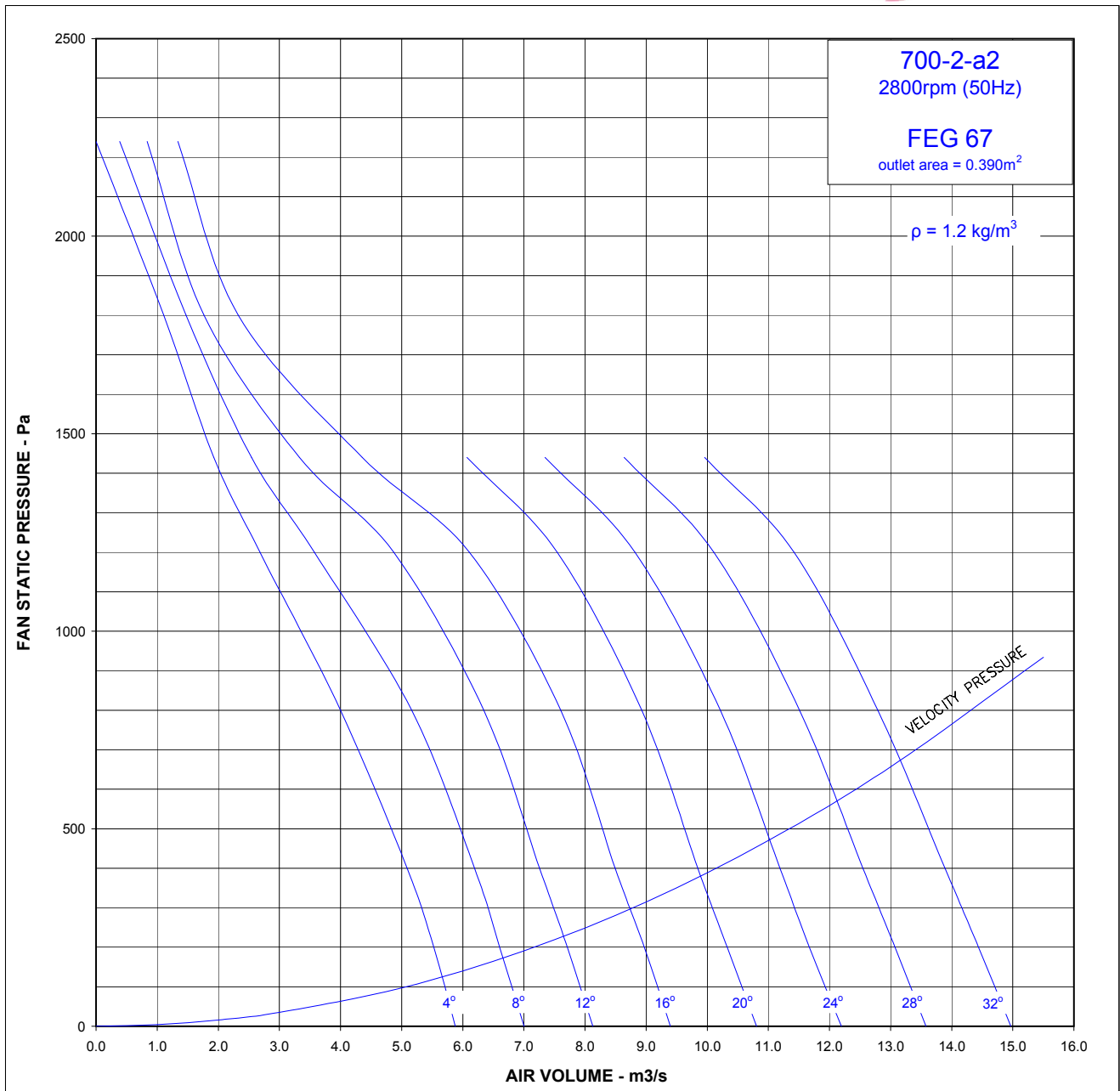


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	50	100	200	300	360	450	560			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.94	2.76	2.55	2.00	1.34	0.96	0.55	0.00	1.10	53	86	83	83	86	87	80	71	65	93	69
8°	3.50	3.30	3.10	2.58	1.79	1.27	0.74	0.19	1.47	55	88	83	83	85	85	79	71	65	92	68
12°	4.07	3.86	3.63	3.17	2.44	1.66	0.88	0.42	1.76	59	89	83	82	84	84	77	70	64	92	66
16°	4.70	4.48	4.25	3.80	3.06	2.18	1.164	0.670	1.93	62	90	83	82	84	82	76	69	64	93	65
20°	5.40	5.16	4.92	4.46	3.77	3.04	-	-	2.19	64	91	84	82	83	81	75	69	64	93	64
24°	6.10	5.84	5.60	5.11	4.41	3.67	-	-	2.20	60	93	85	83	84	82	75	70	65	95	65
28°	6.79	6.54	6.27	5.76	5.06	4.32	-	-	3.48	60	94	87	84	86	84	76	71	67	96	67
32°	7.48	7.22	6.95	6.40	5.71	4.98	-	-	4.12	59	95	88	86	87	85	77	71	68	97	68



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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	200	400	800	1200	1440	1800	2240			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	5.88	5.53	5.09	4.00	2.68	1.93	1.11	0.00	8.80	53	99	101	98	98	101	102	95	86	108	86
8°	7.00	6.60	6.19	5.16	3.57	2.55	1.47	0.39	11.75	55	100	103	98	98	100	101	94	86	108	85
12°	8.13	7.71	7.26	6.34	4.87	3.33	1.77	0.84	14.11	59	101	104	98	98	99	99	92	85	108	83
16°	9.40	8.97	8.49	7.60	6.11	4.36	2.33	1.34	15.42	62	103	105	98	97	99	97	91	84	109	83
20°	10.81	10.33	9.85	8.93	7.55	6.07	-	-	17.50	64	104	107	99	97	98	96	90	84	110	82
24°	12.19	11.67	11.19	10.22	8.82	7.34	-	-	17.58	60	105	108	100	98	99	97	91	85	111	83
28°	13.58	13.07	12.55	11.51	10.11	8.64	-	-	27.84	60	106	109	102	99	101	99	91	86	112	85
32°	14.97	14.44	13.89	12.79	11.42	9.96	-	-	32.97	59	108	110	103	101	102	100	92	87	113	86



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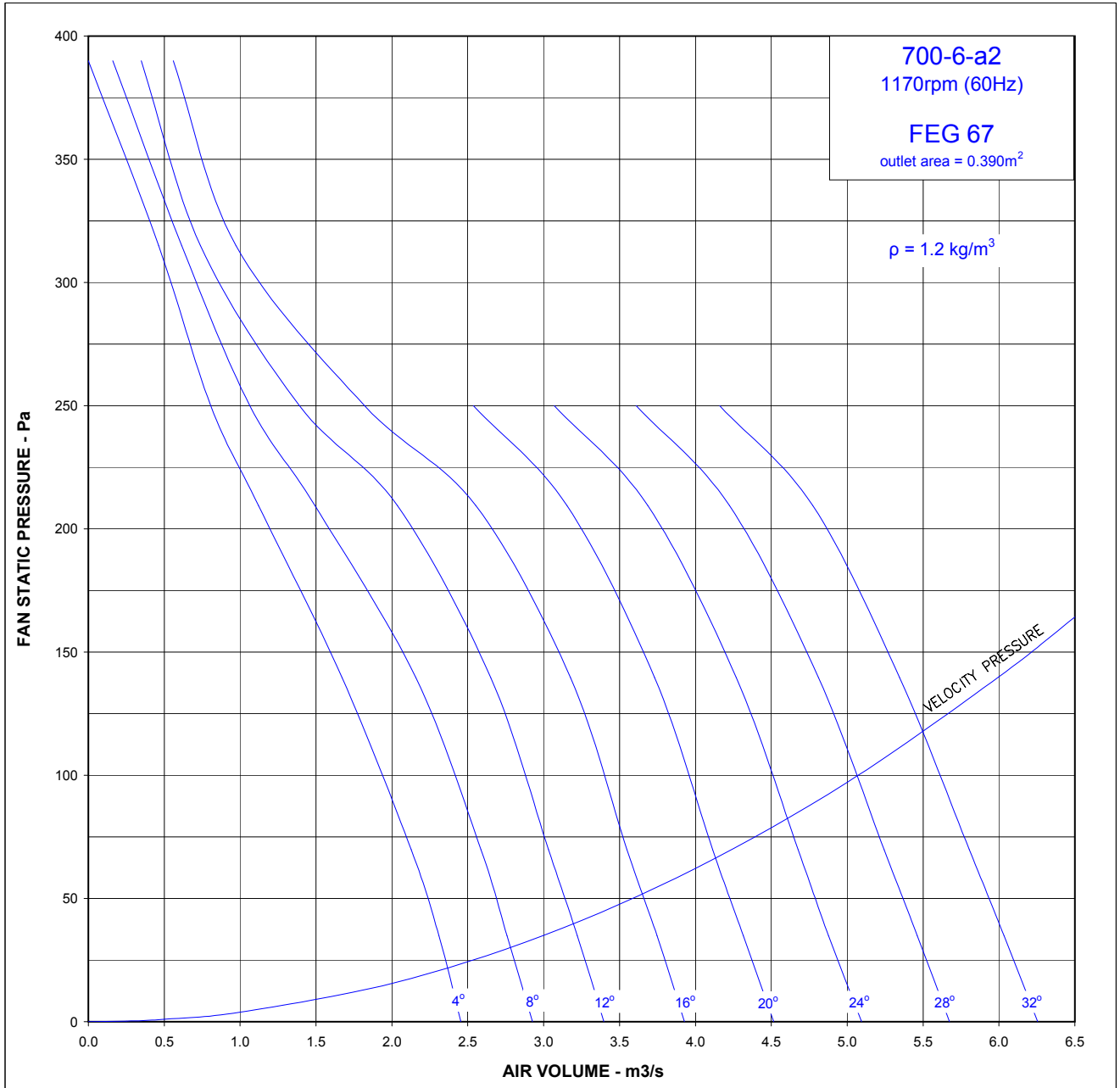
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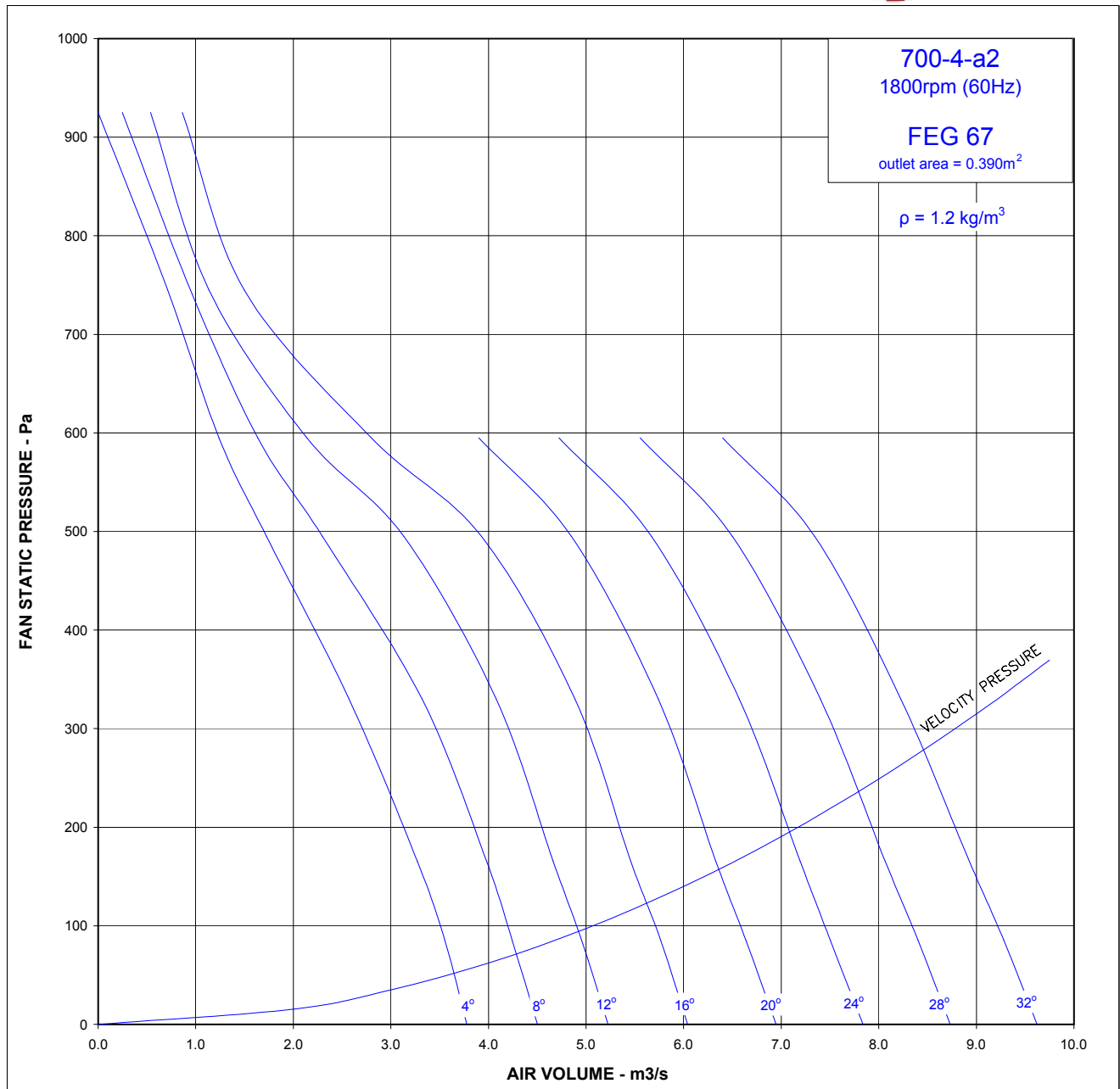


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	35	70	140	210	250	315	390			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.46	2.31	2.13	1.67	1.12	0.81	0.46	0.00	0.64	53	81	78	80	82	81	74	66	60	88	64
8°	2.93	2.76	2.59	2.16	1.49	1.06	0.62	0.16	0.86	55	82	78	79	81	80	73	65	59	87	63
12°	3.40	3.22	3.03	2.65	2.04	1.39	0.74	0.35	1.03	59	83	78	79	80	78	71	65	59	87	61
16°	3.93	3.75	3.55	3.18	2.55	1.82	0.973	0.560	1.13	62	84	78	79	79	77	70	64	59	87	60
20°	4.52	4.32	4.11	3.73	3.15	2.54	-	-	1.28	64	85	79	78	78	75	69	63	58	88	59
24°	5.10	4.88	4.68	4.27	3.69	3.07	-	-	1.28	60	87	80	80	80	76	70	65	60	89	60
28°	5.67	5.46	5.24	4.81	4.22	3.61	-	-	2.03	60	88	81	81	81	78	71	66	62	90	62
32°	6.25	6.03	5.80	5.35	4.77	4.16	-	-	2.41	59	89	83	82	83	79	72	67	64	92	63



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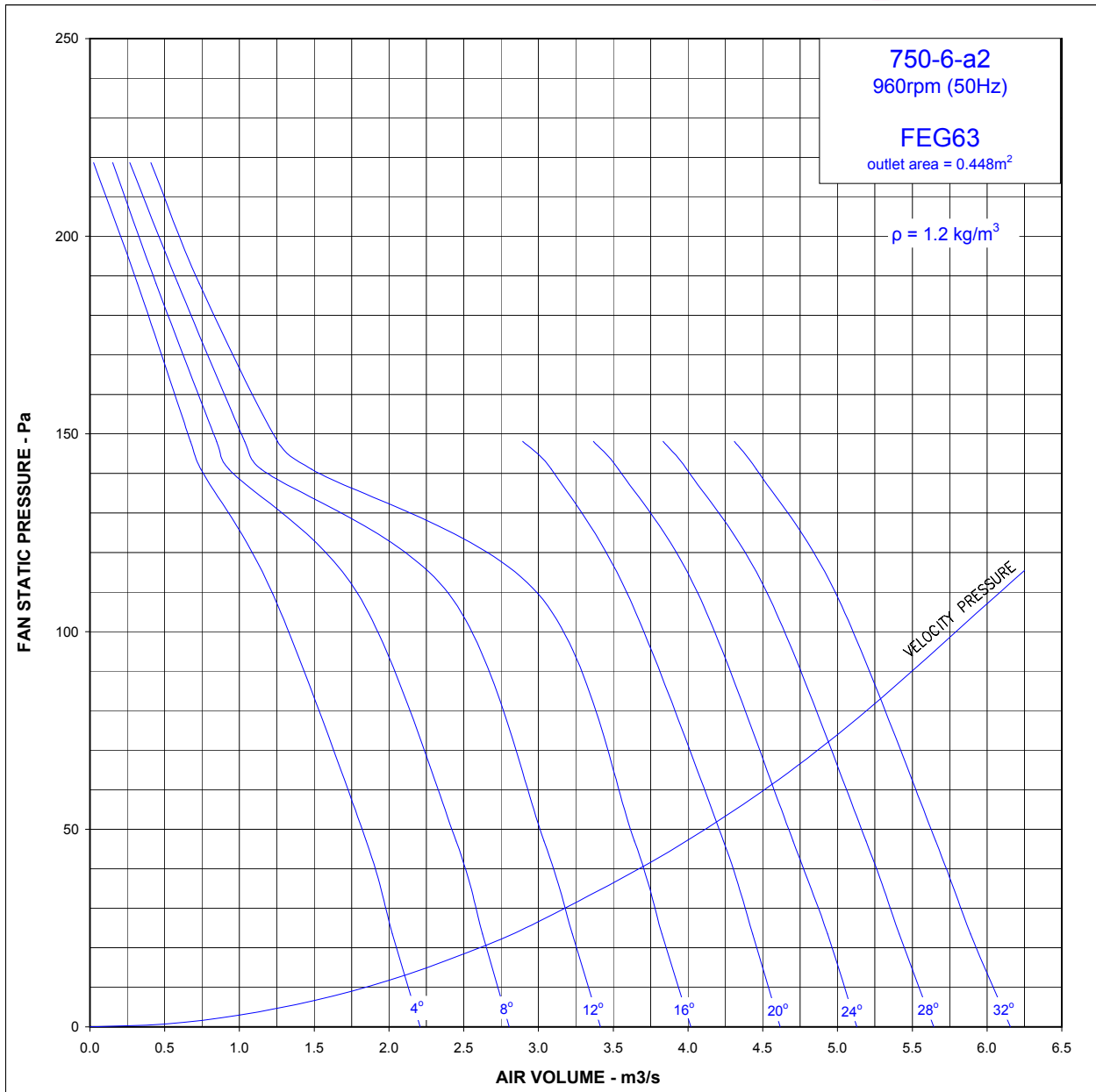


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	85	165	330	495	595	745	925			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	3.78	3.55	3.27	2.57	1.73	1.24	0.71	0.00	2.34	53	91	89	87	90	92	88	80	73	98	74
8°	4.50	4.24	3.98	3.32	2.30	1.64	0.95	0.25	3.12	55	92	90	87	90	91	87	79	72	98	73
12°	5.23	4.96	4.66	4.08	3.13	2.14	1.14	0.54	3.75	59	93	91	87	89	89	85	78	72	98	72
16°	6.04	5.77	5.46	4.89	3.93	2.80	1.497	0.861	4.10	62	95	91	87	89	88	84	77	71	98	71
20°	6.95	6.64	6.33	5.74	4.85	3.90	-	-	4.65	64	96	92	86	88	87	82	76	71	99	70
24°	7.84	7.50	7.19	6.57	5.67	4.72	-	-	4.67	60	97	93	88	89	88	83	77	72	100	72
28°	8.73	8.40	8.07	7.40	6.50	5.55	-	-	7.40	60	98	95	89	91	90	85	78	74	101	73
32°	9.62	9.28	8.93	8.22	7.34	6.40	-	-	8.76	59	99	96	90	92	91	86	79	75	102	74



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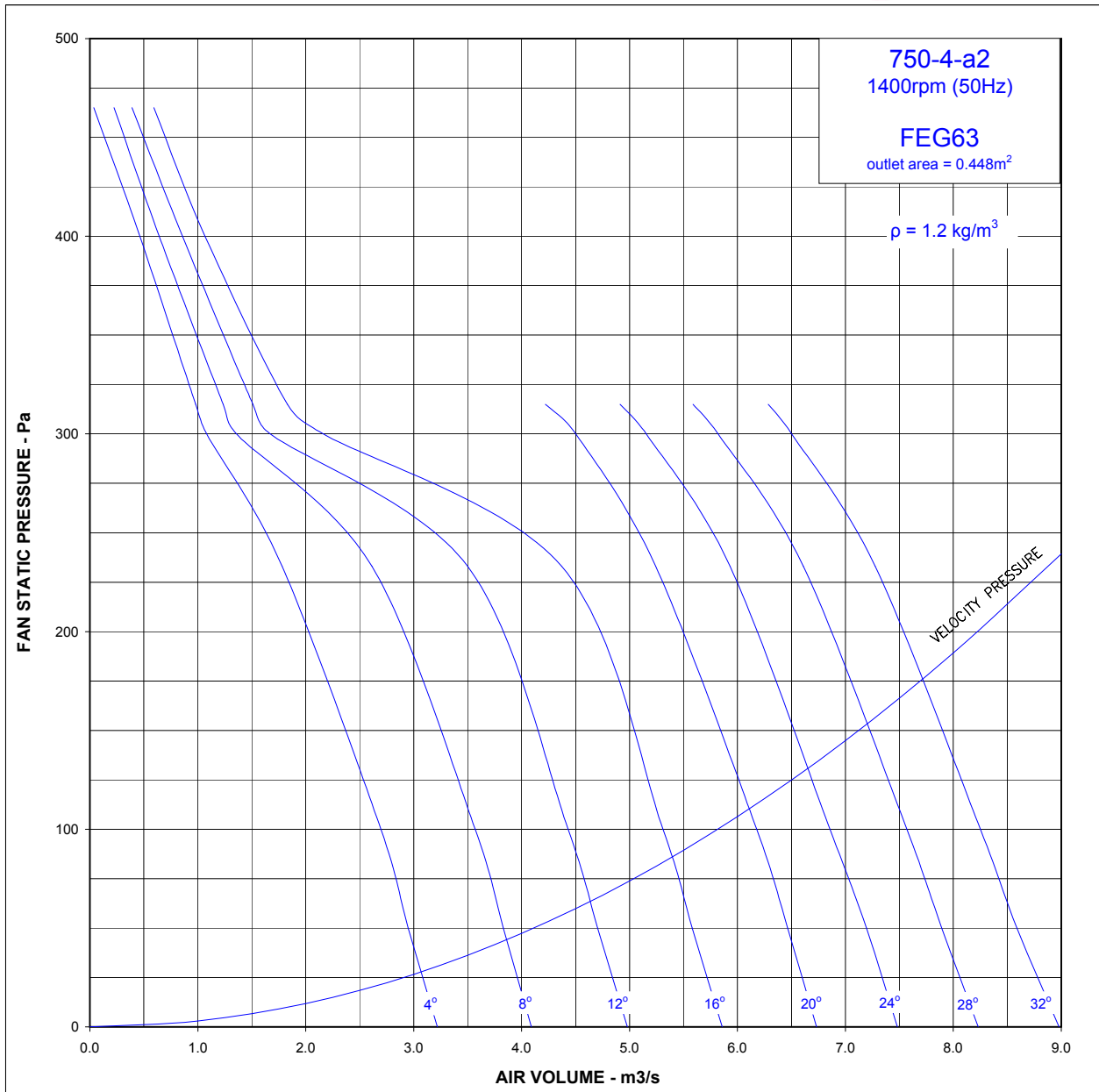


PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	24	47	110	141	148	188	219			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.21	2.02	1.85	1.22	0.74	0.67	0.32	0.02	0.37	44	81	73	73	82	82	72	58	42	87	67
8°	2.80	2.63	2.45	1.79	0.93	0.85	0.44	0.15	0.55	46	81	75	75	82	81	70	57	43	87	66
12°	3.41	3.23	3.04	2.40	1.15	1.04	0.59	0.27	0.71	50	81	76	76	82	80	69	57	44	87	65
16°	4.02	3.83	3.64	3.00	1.48	1.25	0.73	0.41	0.87	55	81	78	77	82	79	68	57	46	87	65
20°	4.62	4.43	4.24	3.59	3.09	2.89	-	-	0.93	62	84	79	78	82	78	67	57	47	88	65
24°	5.13	4.934	4.70	4.07	3.53	3.37	-	-	1.15	60	83	80	80	82	76	67	59	51	88	64
28°	5.64	5.41	5.19	4.53	3.99	3.832	-	-	1.37	60	84	82	81	81	75	67	60	54	88	63
32°	6.16	5.89	5.66	4.99	4.46	4.31	-	-	1.59	62	86	83	83	80	74	67	62	58	90	63



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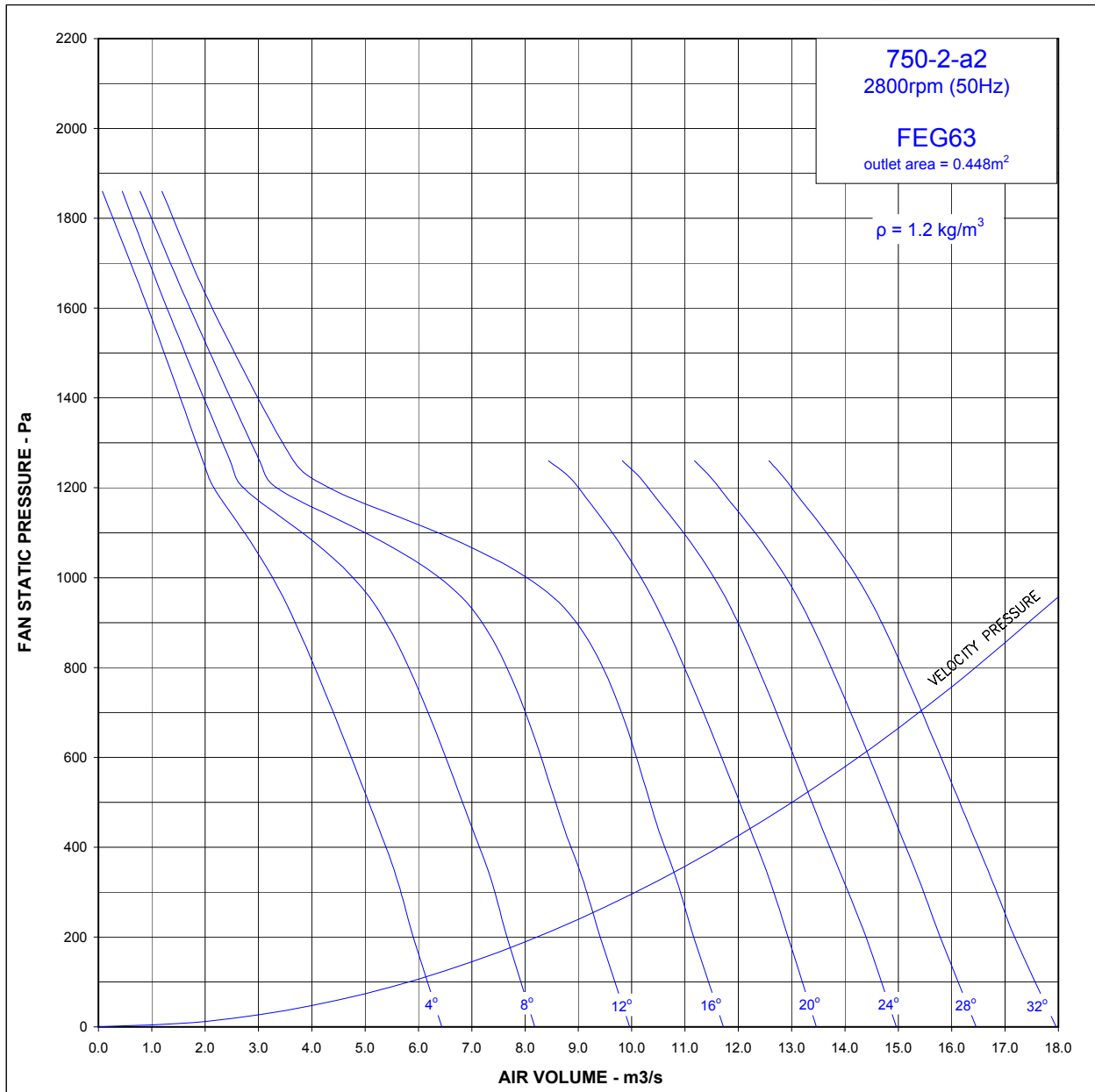


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	50	100	233	300	315	400	465			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	3.220	2.950	2.696	1.782	1.082	0.980	0.464	0.036	1.15	44	94	86	82	82	96	86	74	58	99	76
8°	4.090	3.830	3.571	2.614	1.357	1.235	0.643	0.223	1.70	46	94	86	84	83	95	84	74	59	98	75
12°	4.980	4.705	4.430	3.499	1.670	1.510	0.857	0.390	2.20	50	93	87	85	84	95	83	73	60	98	75
16°	5.860	5.580	5.310	4.370	2.160	1.830	1.065	0.594	2.70	55	93	87	87	85	94	81	72	60	98	74
20°	6.732	6.464	6.179	5.242	4.500	4.220	-	-	2.89	62	93	87	88	86	94	80	71	61	98	74
24°	7.481	7.196	6.857	5.931	5.154	4.911	-	-	3.57	60	94	89	89	87	91	79	71	63	98	72
28°	8.230	7.893	7.571	6.610	5.821	5.589	-	-	4.25	60	96	91	91	89	88	79	72	66	99	71
32°	8.979	8.589	8.250	7.277	6.500	6.286	-	-	4.92	62	97	92	92	90	86	79	72	68	100	71



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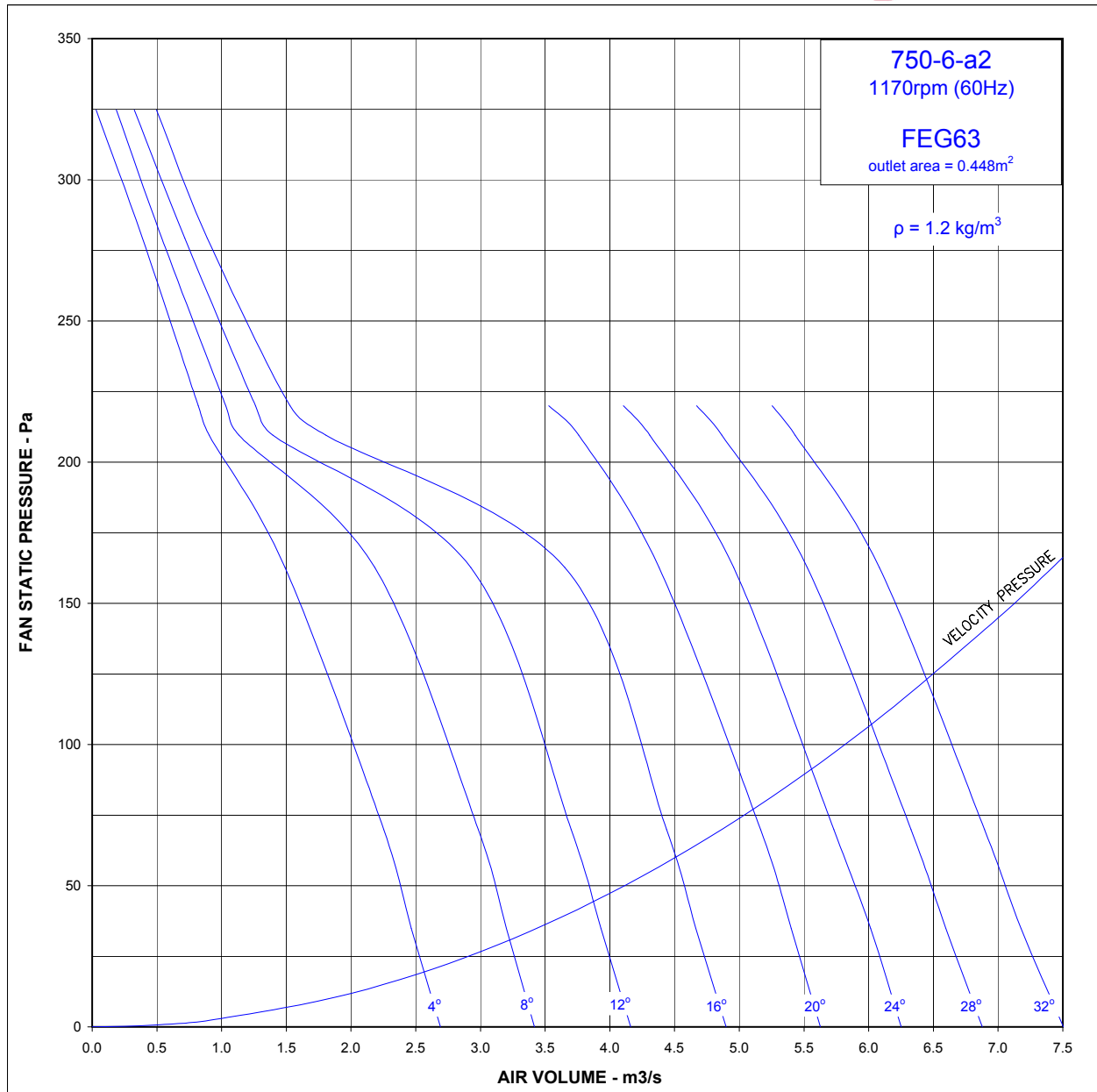


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	200	400	932	1200	1260	1600	1860			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	6.44	5.90	5.39	3.56	2.16	1.96	0.93	0.07	9.17	44	106	109	101	97	97	111	101	89	114	92
8°	8.18	7.66	7.14	5.23	2.71	2.47	1.29	0.45	13.58	46	106	109	101	99	98	110	99	89	114	91
12°	9.96	9.41	8.86	7.00	3.34	3.02	1.71	0.78	17.58	50	106	109	101	100	99	110	98	88	114	91
16°	11.72	11.16	10.62	8.74	4.32	3.66	2.13	1.19	21.58	55	106	108	102	102	100	109	96	87	114	91
20°	13.46	12.93	12.36	10.48	9.00	8.44	-	-	23.12	62	105	108	102	103	101	109	95	86	114	90
24°	14.96	14.39	13.71	11.86	10.31	9.82	-	-	28.55	60	107	109	104	105	102	106	95	86	114	89
28°	16.46	15.79	15.14	13.22	11.64	11.18	-	-	33.97	60	108	111	105	106	104	104	94	87	115	89
32°	17.96	17.18	16.50	14.55	13.00	12.57	-	-	39.39	62	109	112	107	107	105	101	94	87	116	89



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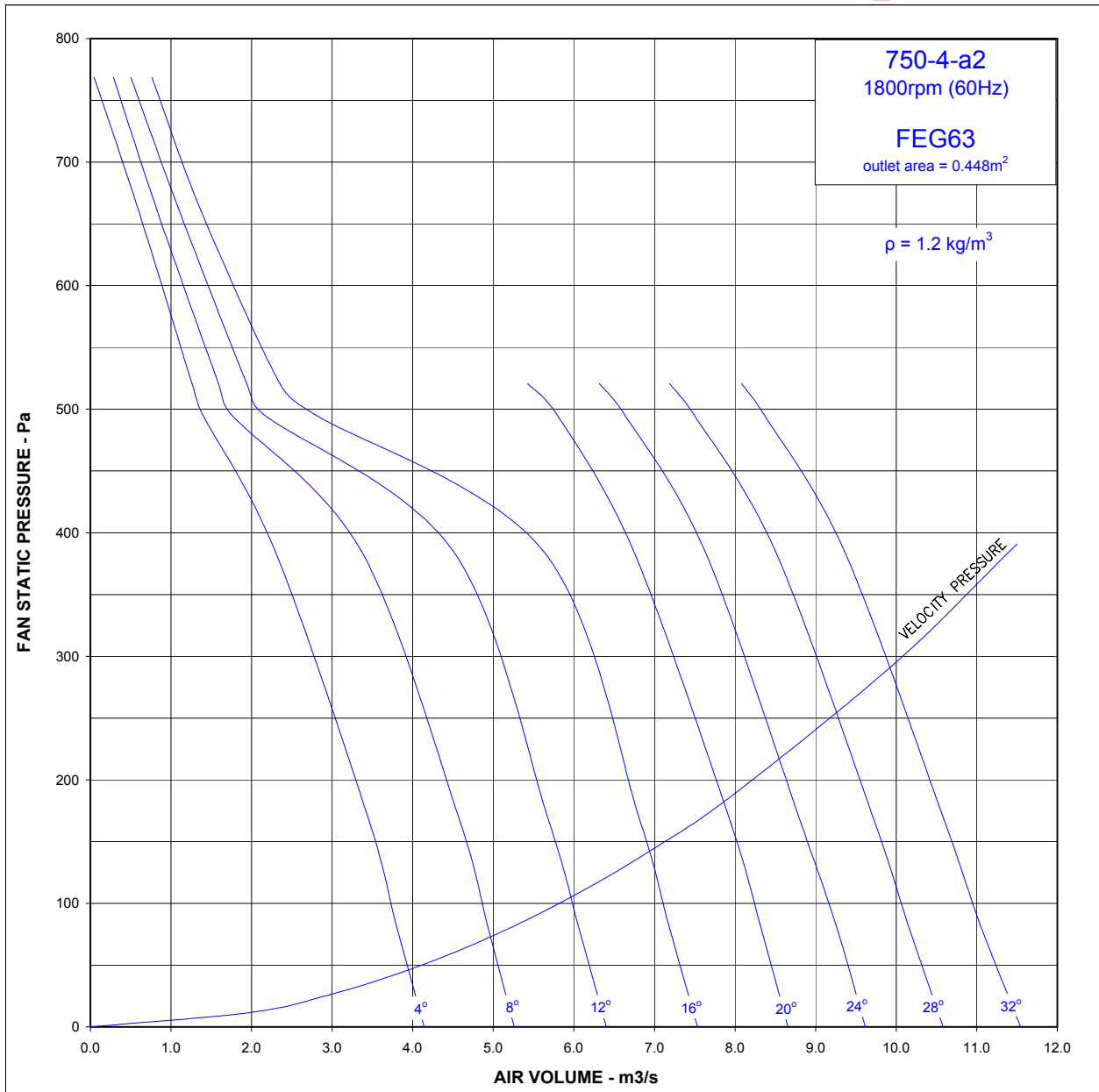


PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	35	70	163	210	220	279	325			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	2.69	2.47	2.25	1.49	0.90	0.82	0.39	0.03	0.67	44	88	80	78	82	89	79	66	50	93	70
8°	3.42	3.20	2.98	2.18	1.13	1.03	0.54	0.19	0.99	46	88	81	80	82	88	78	66	51	92	69
12°	4.16	3.93	3.70	2.92	1.40	1.26	0.72	0.33	1.28	50	88	81	81	83	88	76	65	52	92	68
16°	4.90	4.66	4.44	3.65	1.81	1.53	0.89	0.50	1.57	55	88	82	82	83	87	75	65	53	92	68
20°	5.63	5.40	5.16	4.38	3.76	3.53	-	-	1.69	62	88	83	84	84	86	74	64	54	92	67
24°	6.25	6.01	5.73	4.96	4.31	4.10	-	-	2.08	60	89	85	85	84	84	73	65	57	93	66
28°	6.88	6.60	6.33	5.52	4.86	4.67	-	-	2.48	60	90	86	86	85	82	73	66	60	94	66
32°	7.50	7.18	6.89	6.08	5.43	5.25	-	-	2.87	62	92	88	88	85	80	73	67	63	95	66



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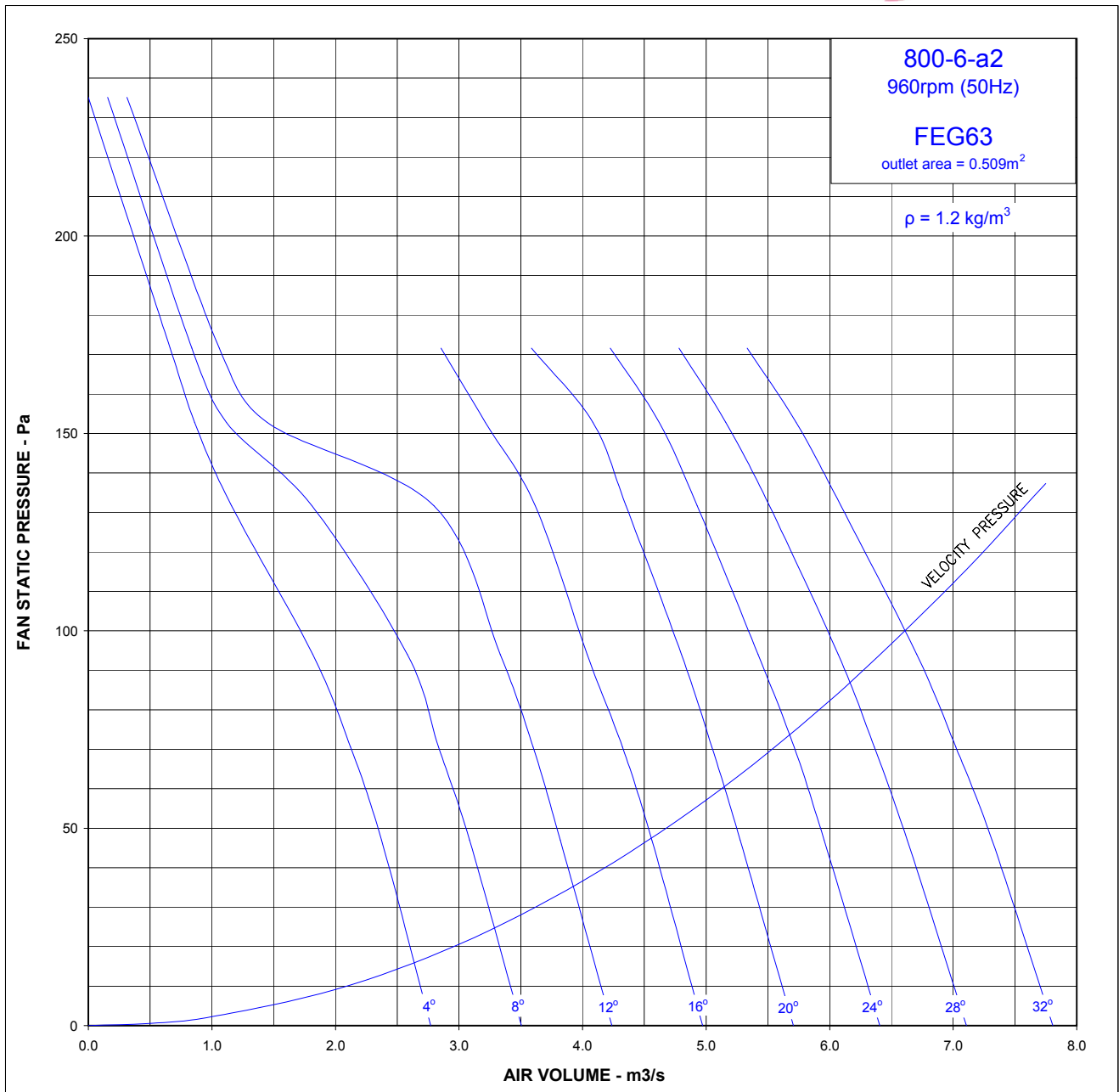


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	83	165	385	496	521	661	769			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	4.14	3.79	3.47	2.29	1.39	1.26	0.60	0.05	2.44	44	98	94	87	88	96	95	84	70	102	79
8°	5.26	4.92	4.59	3.36	1.74	1.59	0.83	0.29	3.61	46	98	94	88	89	96	94	83	70	102	78
12°	6.40	6.05	5.70	4.50	2.15	1.94	1.10	0.50	4.67	50	98	95	89	90	96	93	82	70	102	78
16°	7.53	7.17	6.83	5.62	2.78	2.35	1.37	0.76	5.73	55	98	95	91	91	96	91	81	70	102	78
20°	8.66	8.31	7.94	6.74	5.79	5.43	-	-	6.14	62	97	95	92	92	96	90	79	70	102	78
24°	9.62	9.25	8.82	7.63	6.63	6.31	-	-	7.58	60	99	96	94	93	95	89	80	72	103	77
28°	10.58	10.15	9.73	8.50	7.48	7.19	-	-	9.02	60	100	98	95	95	94	88	80	73	104	77
32°	11.54	11.04	10.61	9.36	8.36	8.08	-	-	10.47	62	101	99	96	96	93	87	80	75	105	77



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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	47	71	94	132	153	172	235			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dB(A))
4°	2.77	2.37	2.12	1.82	1.16	0.86	0.66	0.00	0.44	48	81	77	81	81	76	70	60	48	87	61
8°	3.50	3.09	2.83	2.58	1.81	1.12	0.84	0.16	0.69	48	82	78	81	80	75	69	61	50	87	60
12°	4.24	3.82	3.60	3.33	2.80	1.45	1.06	0.31	0.91	51	82	79	80	79	74	69	61	52	87	59
16°	4.97	4.56	4.32	4.04	3.62	3.21	2.85	-	1.08	56	83	79	80	78	73	68	62	54	87	58
20°	5.71	5.28	5.05	4.80	4.35	4.08	3.59	-	1.29	63	83	80	79	76	72	68	62	56	86	57
24°	6.41	5.95	5.71	5.42	4.93	4.62	4.22	-	1.64	59	84	81	81	78	73	68	64	59	88	59
28°	7.11	6.63	6.36	6.07	5.51	5.16	4.78	-	1.99	59	85	83	83	80	74	69	65	61	89	60
32°	7.81	7.31	7.02	6.70	6.09	5.73	5.33	-	2.33	62	87	84	84	81	75	70	66	63	91	62



Airtrade System certifies that the model 800-X-a2 shown herein is licensed to bear the AMCA Seal.

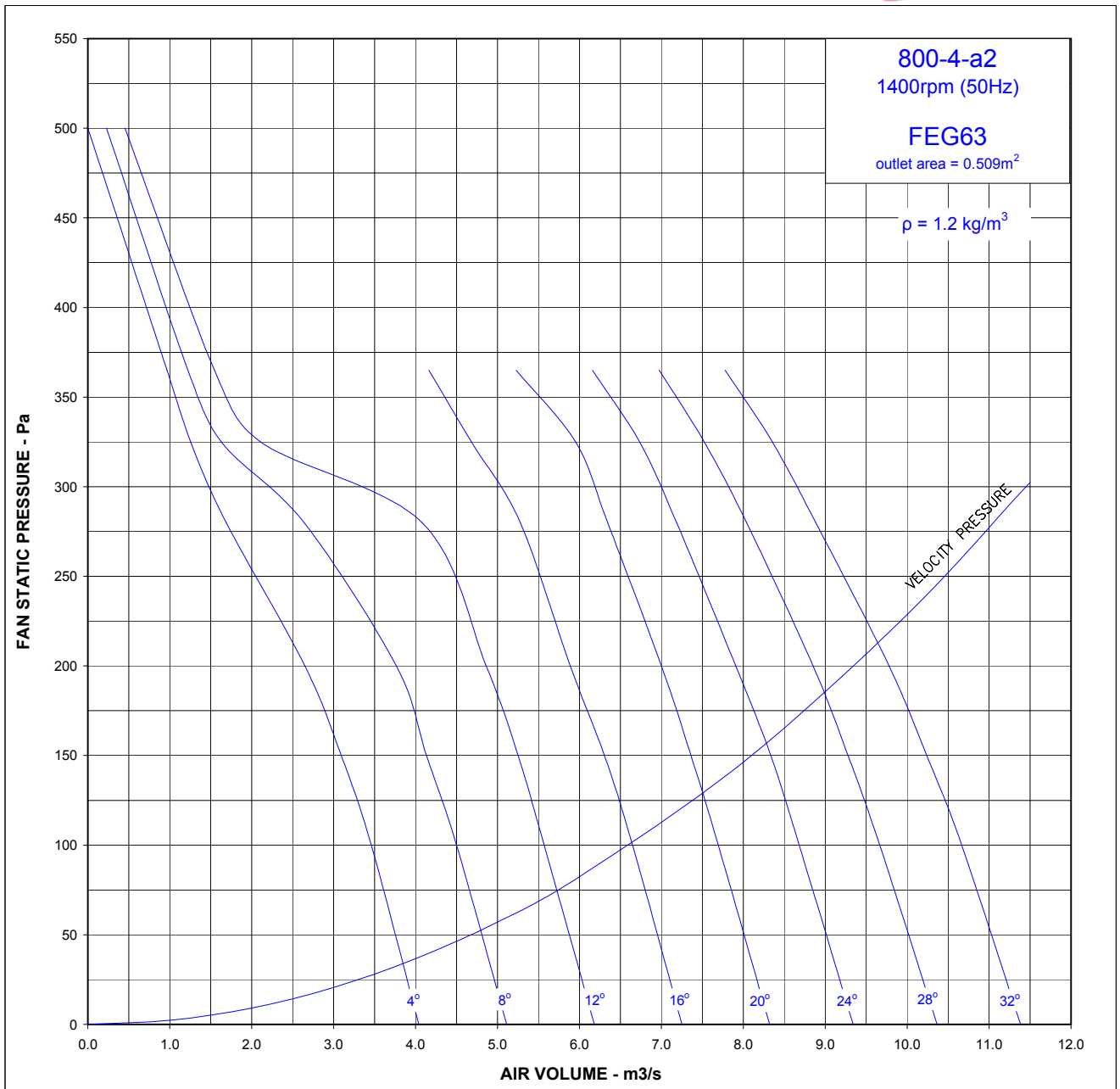
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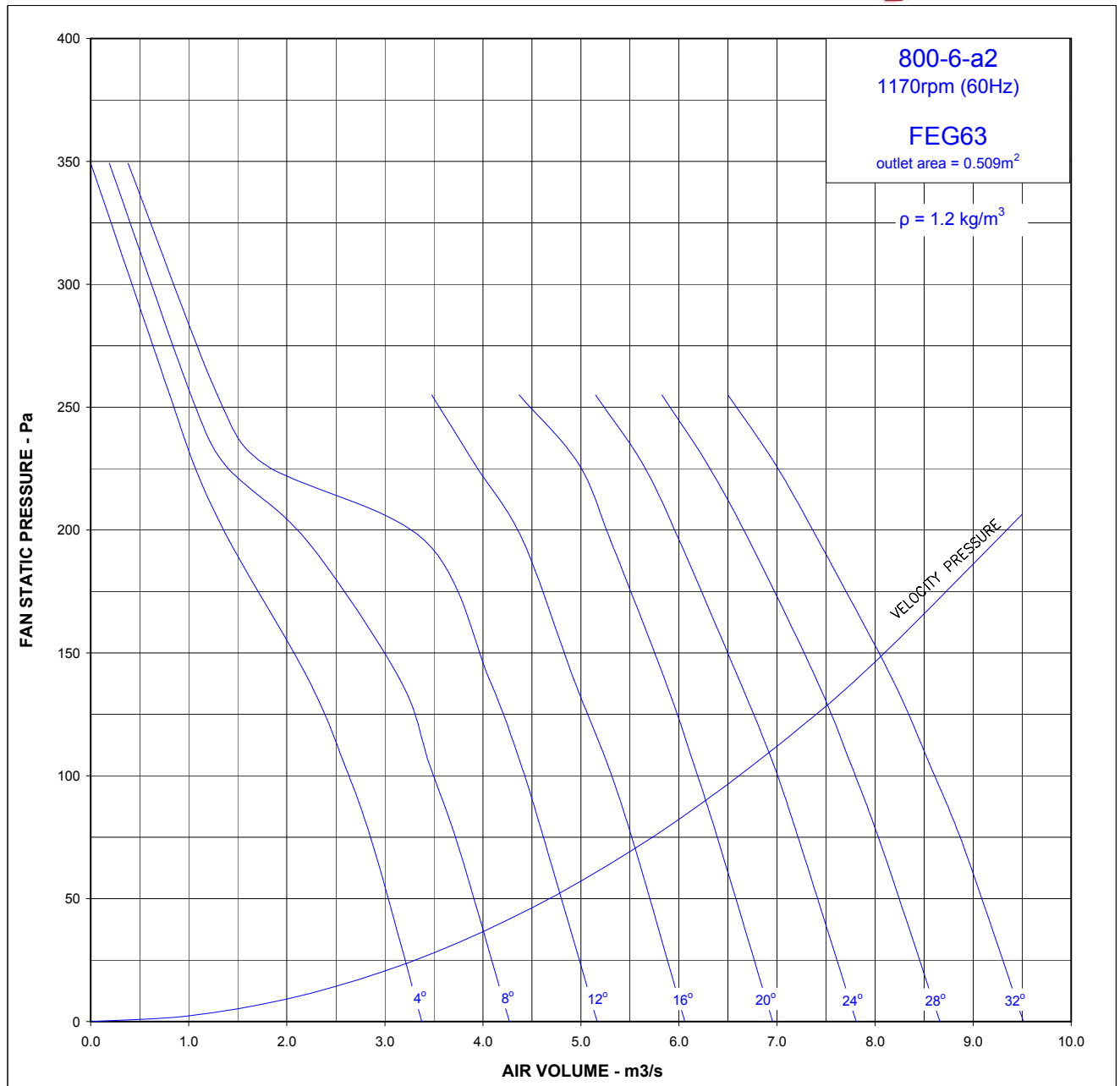


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	100	150	200	280	325	365	500			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	4.04	3.46	3.09	2.65	1.69	1.26	0.97	0.00	1.36	48	90	89	86	91	88	82	75	63	96	72
8°	5.11	4.50	4.13	3.77	2.64	1.63	1.22	0.23	2.14	48	91	89	87	90	87	81	75	64	96	71
12°	6.18	5.57	5.25	4.86	4.08	2.11	1.54	0.46	2.81	51	92	89	88	89	86	80	74	65	96	70
16°	7.25	6.65	6.31	5.89	5.28	4.68	4.16	-	3.34	56	93	89	89	87	84	79	74	67	96	69
20°	8.32	7.69	7.36	7.00	6.35	5.95	5.23	-	4.01	63	94	89	89	86	83	78	74	68	97	68
24°	9.34	8.68	8.33	7.91	7.19	6.74	6.16	-	5.09	59	95	90	91	88	84	79	75	70	98	69
28°	10.36	9.67	9.28	8.85	8.04	7.52	6.97	-	6.16	59	96	92	92	90	86	79	75	71	99	71
32°	11.39	10.67	10.24	9.78	8.88	8.35	7.78	-	7.24	62	97	93	93	92	87	80	76	73	101	72



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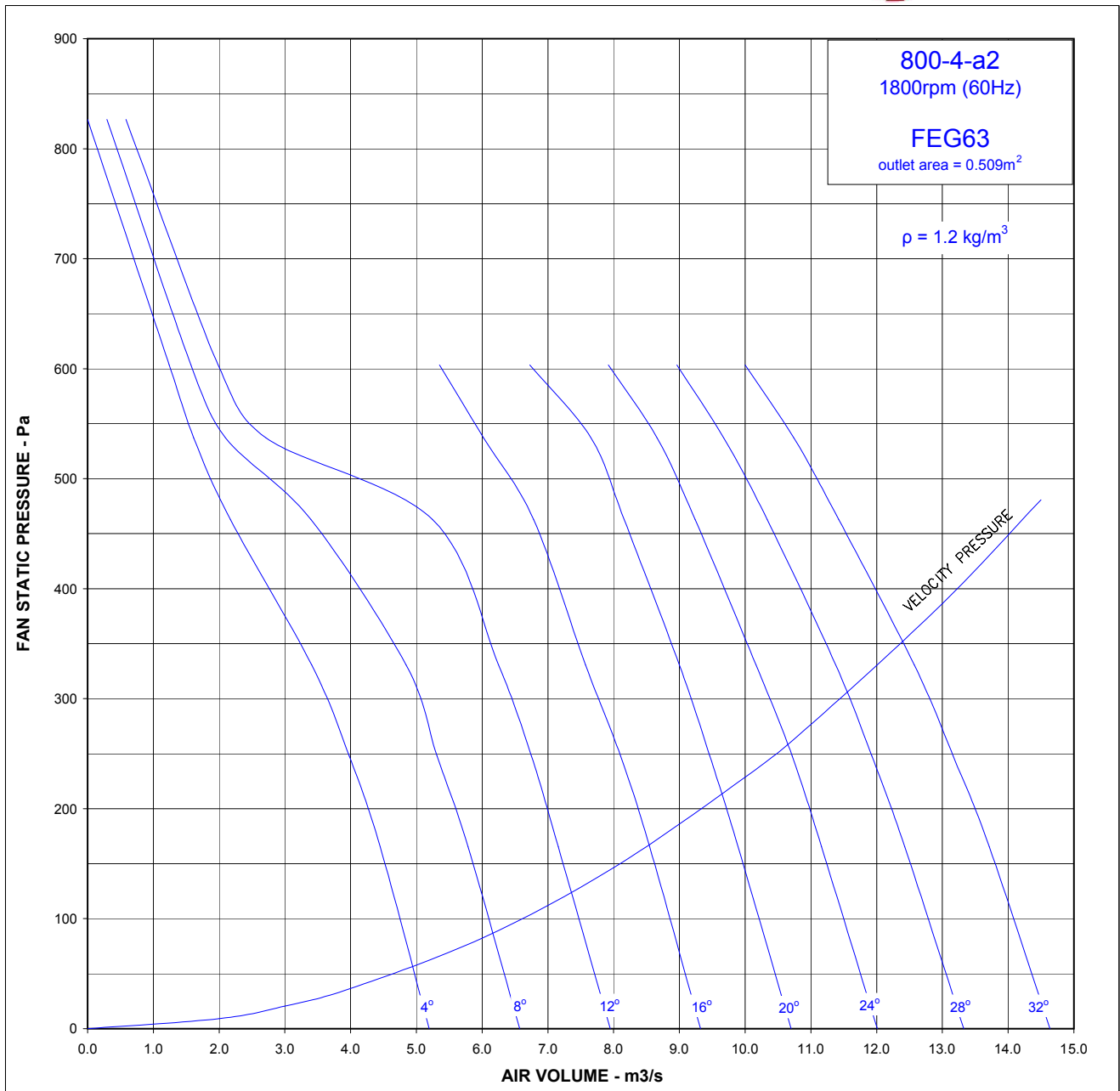


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	70	105	140	196	227	255	349			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	3.38	2.89	2.59	2.21	1.41	1.05	0.81	0.00	0.80	48	86	84	84	87	83	76	68	56	92	67
8°	4.27	3.76	3.45	3.15	2.21	1.36	1.02	0.19	1.25	48	87	84	84	85	81	75	68	57	92	66
12°	5.17	4.65	4.39	4.06	3.41	1.76	1.29	0.38	1.64	51	88	84	84	84	80	75	68	59	92	65
16°	6.06	5.56	5.27	4.92	4.41	3.91	3.48	-	1.95	56	88	84	84	83	79	74	68	61	92	64
20°	6.95	6.43	6.15	5.85	5.30	4.98	4.37	-	2.34	63	89	85	85	81	78	73	69	62	92	63
24°	7.81	7.26	6.96	6.61	6.00	5.63	5.15	-	2.97	59	90	86	86	83	79	74	69	64	93	64
28°	8.66	8.08	7.75	7.40	6.72	6.29	5.83	-	3.60	59	91	87	88	85	80	74	70	66	95	66
32°	9.51	8.91	8.56	8.17	7.42	6.98	6.50	-	4.22	62	92	89	89	87	81	75	71	68	96	67



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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	165	248	331	463	537	603	827			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	5.20	4.45	3.98	3.41	2.17	1.61	1.24	0.00	2.90	48	95	95	91	95	95	90	83	73	102	78
8°	6.57	5.79	5.31	4.84	3.40	2.10	1.57	0.29	4.54	48	96	95	92	95	93	89	82	73	102	77
12°	7.95	7.16	6.75	6.25	5.25	2.71	1.99	0.59	5.98	51	97	96	92	94	92	87	82	74	102	76
16°	9.32	8.55	8.11	7.57	6.78	6.02	5.352	-	7.11	56	98	96	93	93	91	86	81	75	102	75
20°	10.70	9.89	9.46	9.00	8.16	7.66	6.723	-	8.53	63	99	96	94	93	90	85	81	76	103	74
24°	12.01	11.16	10.71	10.16	9.24	8.66	7.920	-	10.81	59	100	98	95	95	91	86	82	77	104	76
28°	13.33	12.43	11.93	11.38	10.34	9.67	8.964	-	13.10	59	101	99	96	96	93	87	82	78	105	77
32°	14.64	13.71	13.16	12.57	11.42	10.74	10.000	-	15.38	62	102	100	98	98	94	88	83	80	106	78



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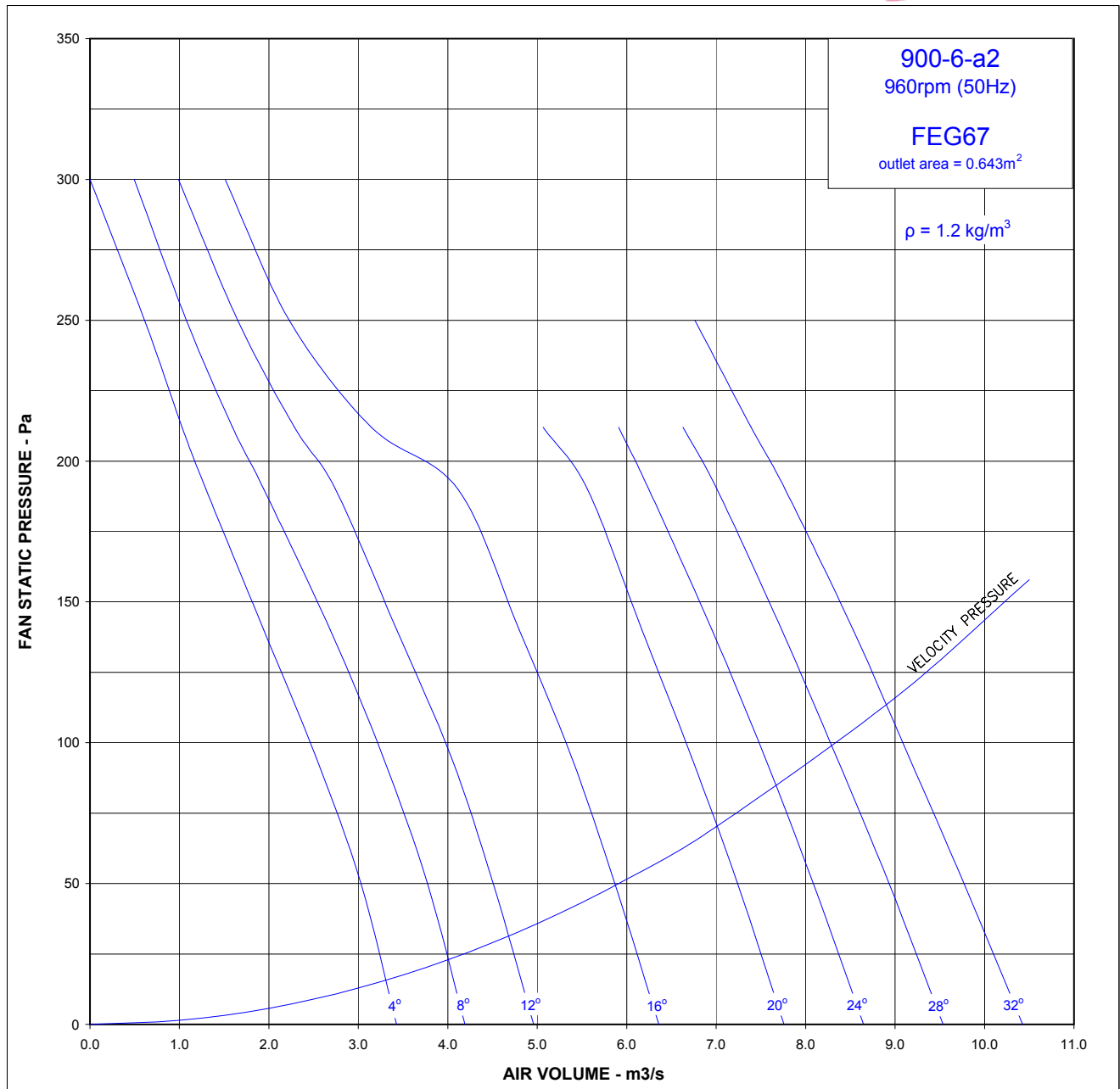
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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	50	95	140	190	212	250	300			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	3.43	3.03	2.52	1.94	1.30	1.03	0.61	0.00	0.62	52	78	80	83	84	80	75	65	50	89	64
8°	4.19	3.77	3.28	2.69	1.94	1.59	1.08	0.50	0.86	56	76	80	84	85	81	77	67	54	89	65
12°	4.96	4.51	4.04	3.43	2.74	2.29	1.65	0.99	0.98	61	75	79	85	86	83	79	70	58	90	67
16°	6.36	5.87	5.38	4.80	4.11	3.15	2.23	1.51	1.63	61	78	83	88	89	84	78	71	62	93	69
20°	7.76	7.24	6.72	6.17	5.56	5.07	-	-	1.97	66	81	87	92	91	85	78	72	66	96	71
24°	8.65	8.09	7.54	6.95	6.25	5.91	-	-	2.52	61	82	87	91	90	83	77	72	68	95	69
28°	9.54	8.93	8.34	7.73	7.01	6.63	-	-	3.09	59	84	87	90	88	82	76	72	69	94	68
32°	10.43	9.77	9.15	8.53	7.77	7.39	6.76	-	3.66	60	85	87	88	86	80	75	72	71	93	66



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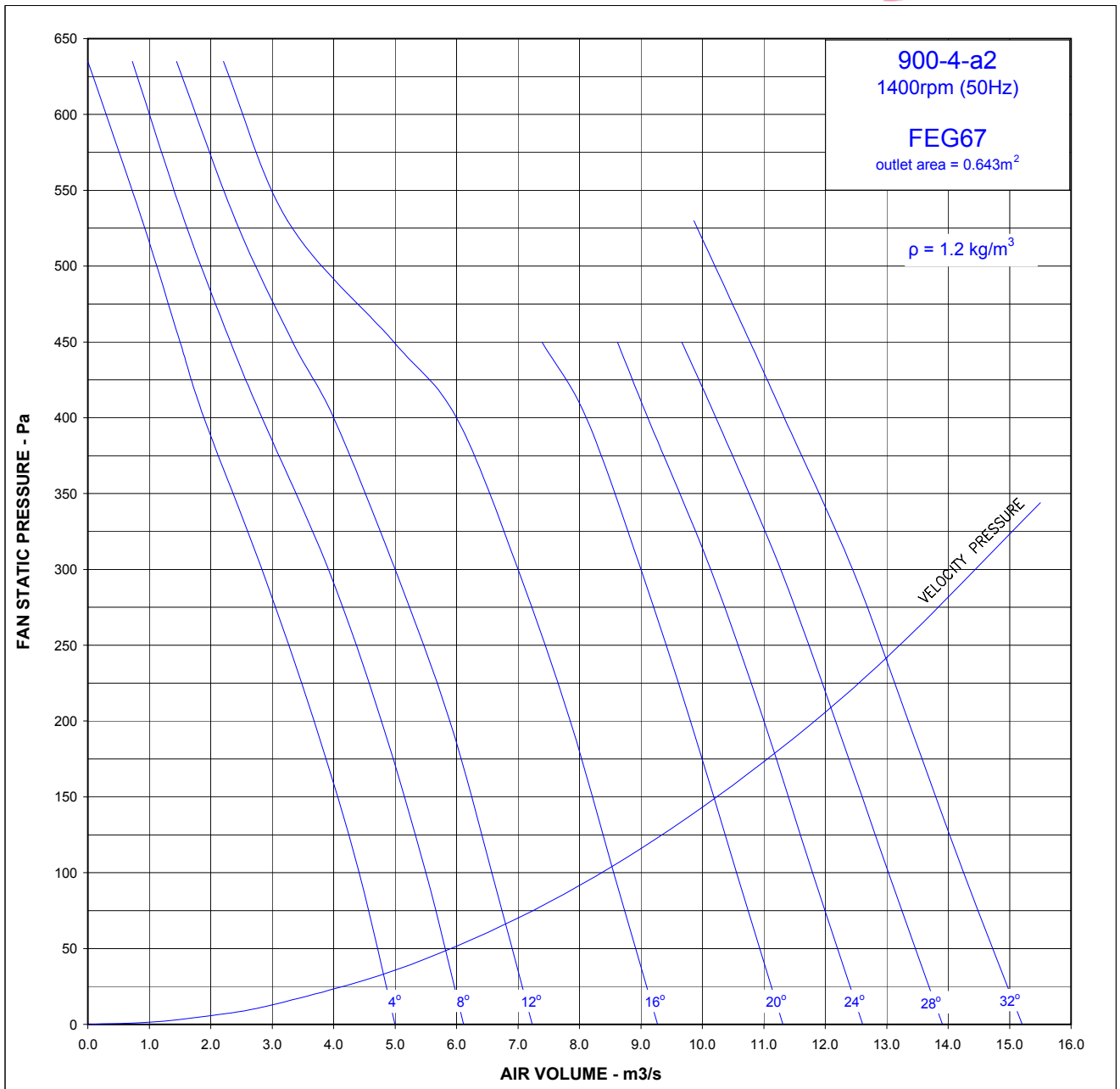
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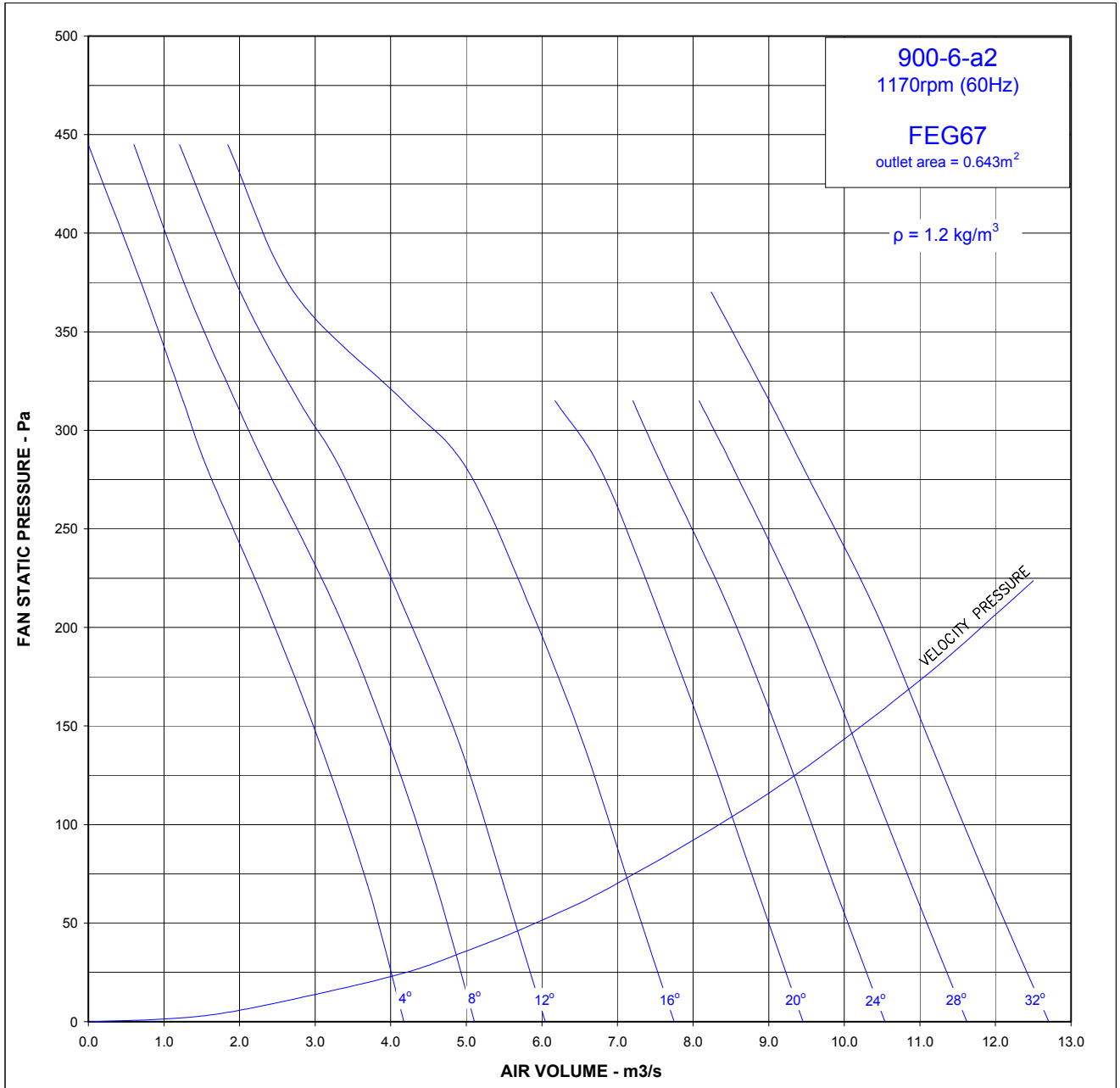


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	100	200	300	400	450	530	635			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	5.00	4.42	3.68	2.83	1.89	1.50	0.89	0.00	1.91	52	84	88	89	93	91	85	81	66	97	74
8°	6.11	5.50	4.78	3.92	2.83	2.32	1.57	0.72	2.67	56	83	86	89	94	92	87	83	69	98	76
12°	7.23	6.57	5.89	5.00	4.00	3.33	2.41	1.44	3.05	61	83	84	89	95	93	89	84	72	99	77
16°	9.27	8.56	7.85	7.00	6.00	4.98	3.25	2.21	5.06	61	85	87	93	99	95	89	84	75	102	79
20°	11.31	10.56	9.81	9.00	8.11	7.39	-	-	6.11	66	88	91	97	102	97	89	83	77	105	81
24°	12.61	11.79	11.00	10.14	9.11	8.62	-	-	7.82	61	90	91	97	100	95	88	82	78	103	80
28°	13.91	13.03	12.17	11.28	10.22	9.67	-	-	9.58	59	92	92	96	98	93	87	82	79	102	78
32°	15.20	14.25	13.35	12.44	11.33	10.78	9.86	-	11.35	60	94	93	96	97	91	86	81	80	102	76



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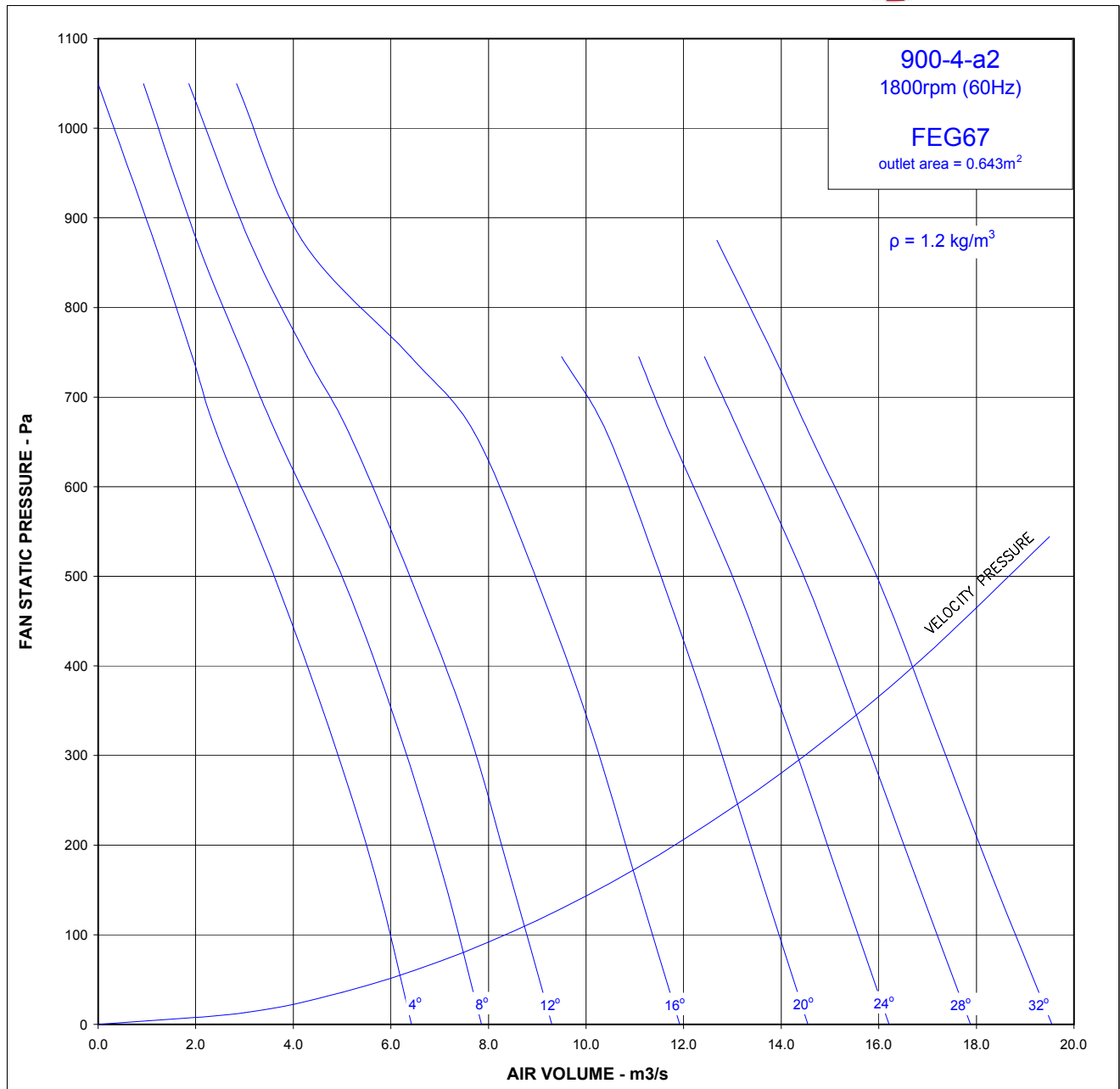


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	70	140	210	280	315	370	445			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	4.18	3.69	3.08	2.37	1.58	1.25	0.74	0.00	1.12	52	81	84	86	89	86	80	73	58	93	69
8°	5.11	4.60	3.99	3.27	2.37	1.94	1.31	0.60	1.56	56	80	83	87	90	87	82	75	62	94	71
12°	6.04	5.49	4.92	4.18	3.34	2.79	2.01	1.21	1.78	61	79	82	87	91	88	84	77	65	95	72
16°	7.75	7.15	6.56	5.85	5.01	4.16	2.72	1.84	2.96	61	82	86	91	94	90	84	78	69	98	74
20°	9.45	8.82	8.20	7.52	6.78	6.18	-	-	3.57	66	85	89	95	97	91	84	78	72	100	76
24°	10.54	9.86	9.19	8.47	7.61	7.20	-	-	4.56	61	86	89	94	95	89	83	77	73	99	75
28°	11.62	10.89	10.17	9.43	8.54	8.08	-	-	5.59	59	88	90	93	93	88	82	77	74	98	73
32°	12.71	11.91	11.16	10.40	9.47	9.01	8.24	-	6.62	60	90	90	92	91	86	80	77	76	97	71



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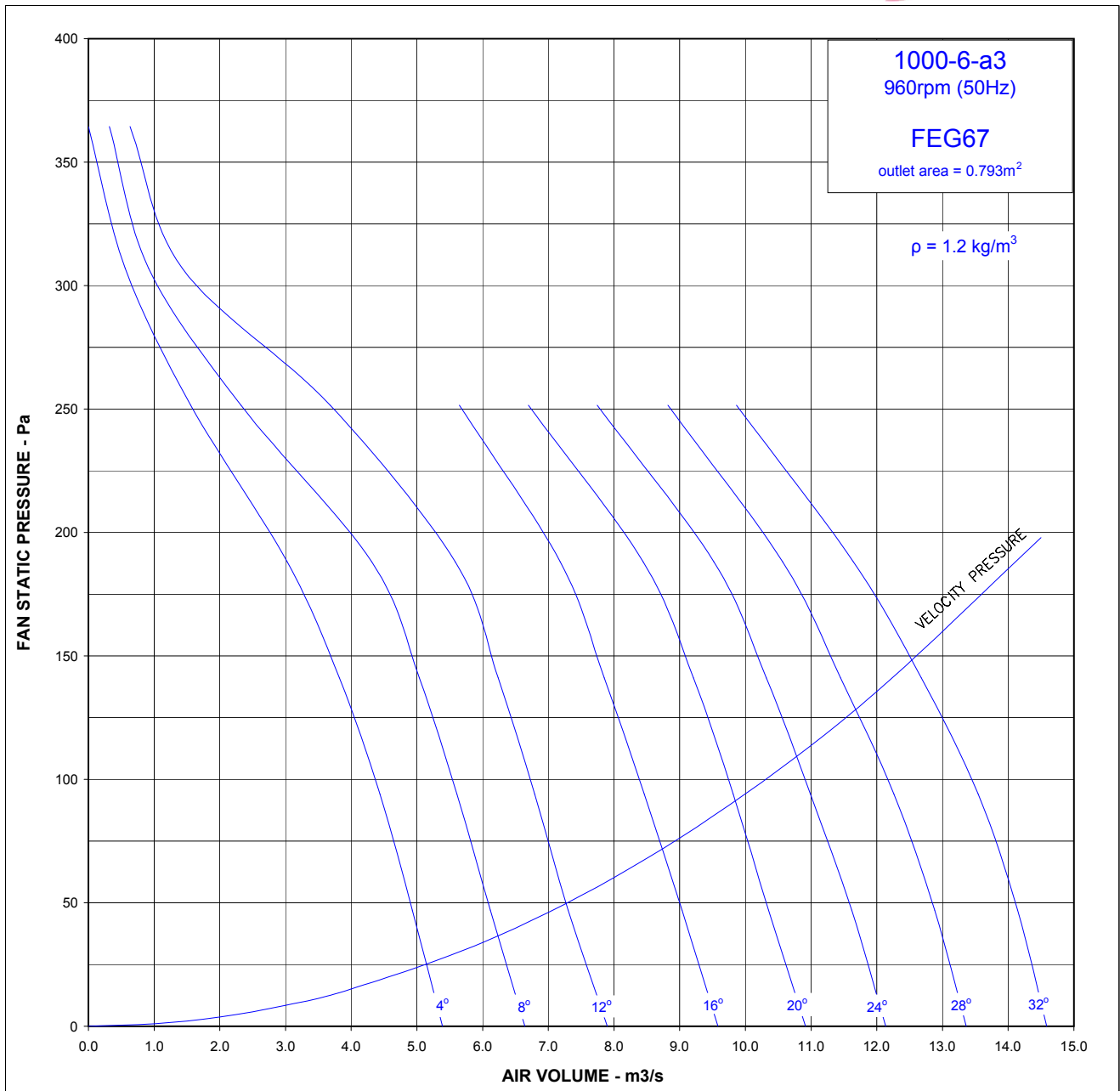


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	165	330	495	660	745	875	1050			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	6.42	5.68	4.73	3.64	2.43	1.93	1.14	0.00	4.07	52	88	92	93	97	97	93	88	77	102	80
8°	7.86	7.07	6.14	5.04	3.64	2.99	2.02	0.93	5.66	56	88	90	93	98	98	94	90	80	103	81
12°	9.30	8.45	7.57	6.43	5.14	4.29	3.09	1.86	6.49	61	87	89	94	99	99	96	92	82	104	82
16°	11.92	11.00	10.09	9.00	7.71	6.41	4.18	2.84	10.76	61	90	92	98	102	102	97	91	84	107	85
20°	14.55	13.57	12.61	11.57	10.43	9.50	-	-	12.98	66	92	95	102	106	104	98	91	85	110	87
24°	16.21	15.16	14.14	13.04	11.71	11.08	-	-	16.62	61	94	96	101	105	103	96	90	85	109	86
28°	17.88	16.75	15.64	14.50	13.14	12.43	-	-	20.37	59	96	98	101	103	101	95	89	85	108	84
32°	19.55	18.32	17.16	16.00	14.57	13.86	12.68	-	24.12	60	98	99	100	102	99	93	88	86	107	83



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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	47	94	141	188	252	307	364			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	5.39	4.93	4.44	3.82	3.02	1.56	0.56	0.00	1.09	58	83	87	87	87	86	84	74	61	94	70
8°	6.64	6.12	5.61	5.04	4.31	2.32	0.92	0.32	1.69	55	86	89	89	88	86	83	74	63	95	70
12°	7.90	7.30	6.79	6.24	5.58	3.68	1.43	0.63	2.08	62	88	91	91	88	85	82	74	64	96	70
16°	9.58	9.03	8.46	7.85	7.18	5.65	-	-	2.86	62	90	93	93	89	85	81	74	65	98	70
20°	10.91	10.35	9.82	9.21	8.44	6.70	-	-	3.54	65	92	95	95	90	84	80	74	66	100	71
24°	12.14	11.62	10.99	10.32	9.52	7.74	-	-	4.53	60	93	96	96	91	86	81	75	68	101	72
28°	13.36	12.88	12.26	11.45	10.57	8.82	-	-	5.51	59	95	97	97	93	87	81	76	69	102	73
32°	14.58	14.14	13.54	12.68	11.64	9.87	-	-	6.50	61	96	98	98	94	88	82	76	70	103	75



Airtrade System certifies that the model 1000-X-a3 shown herein is licensed to bear the AMCA Seal.

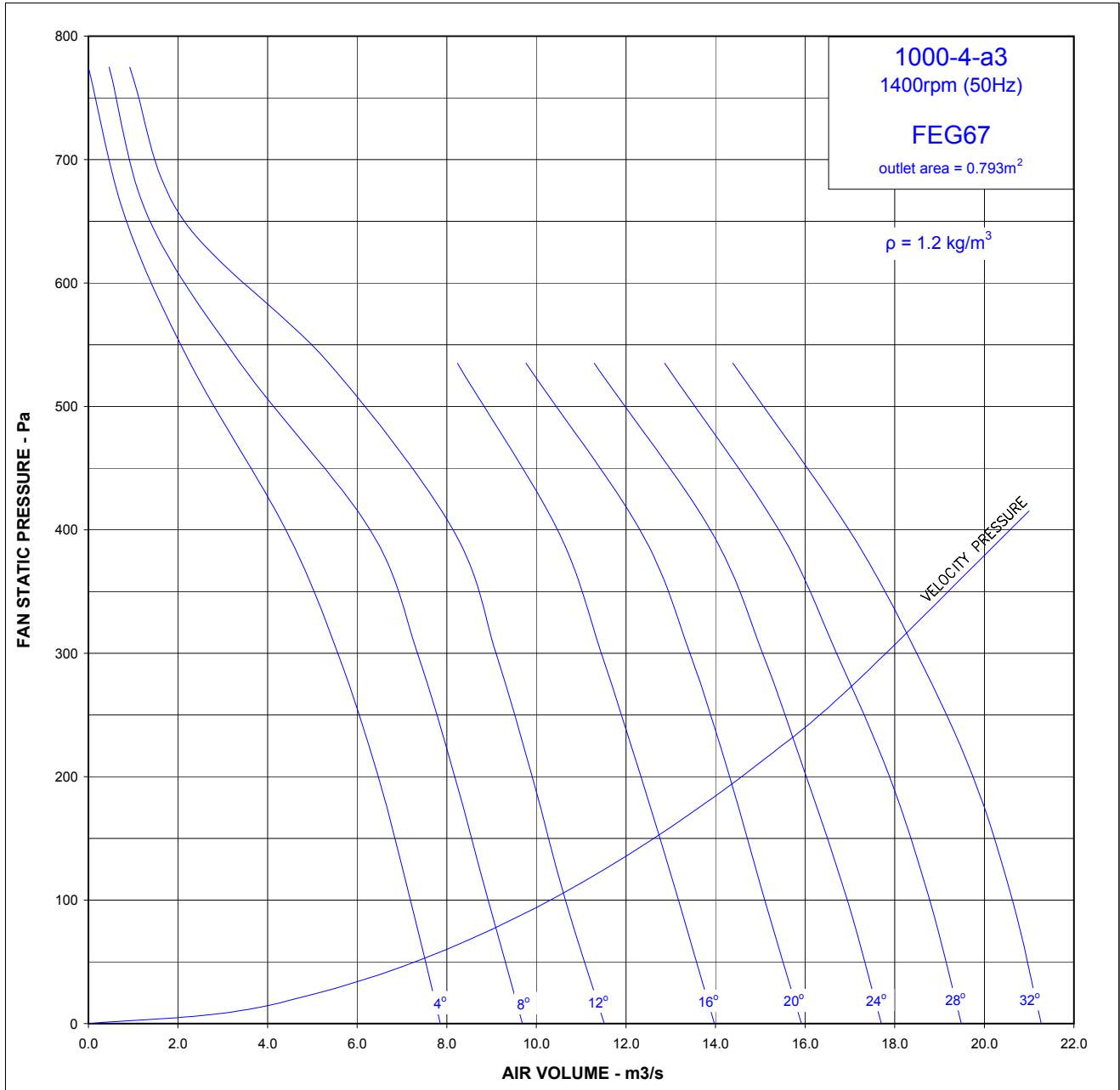
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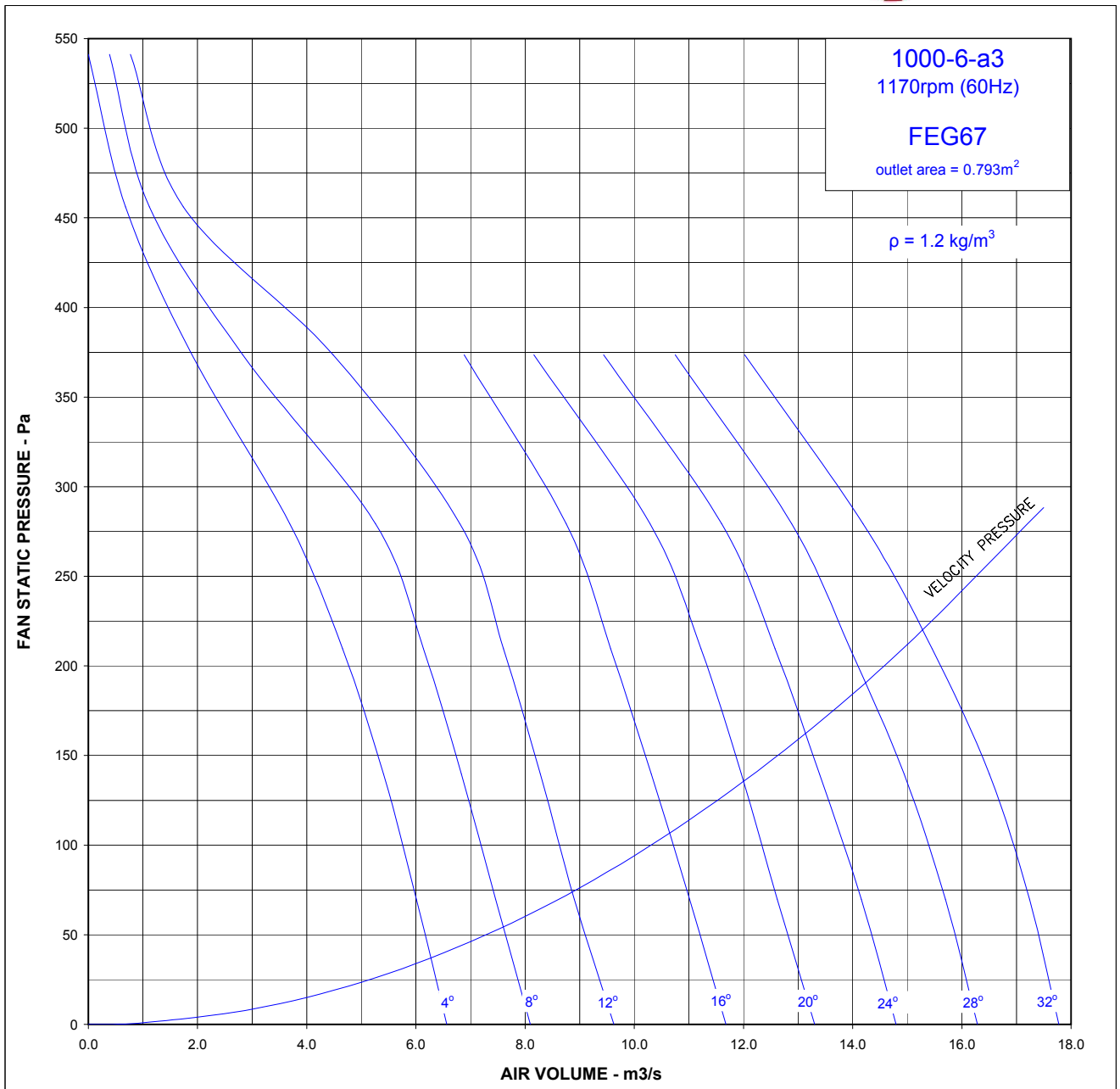


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	100	200	300	400	535	653	775			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	7.86	7.19	6.47	5.57	4.41	2.27	0.82	0.00	3.39	58	92	92	97	94	95	94	90	77	102	79
8°	9.69	8.92	8.18	7.35	6.29	3.39	1.34	0.46	5.24	55	94	94	99	96	95	93	89	77	104	80
12°	11.52	10.65	9.91	9.10	8.14	5.37	2.08	0.92	6.45	62	97	96	101	98	96	92	88	78	105	80
16°	13.97	13.18	12.34	11.45	10.47	8.24	-	-	8.87	62	99	98	103	99	96	91	88	78	107	81
20°	15.92	15.10	14.31	13.43	12.31	9.77	-	-	10.97	65	101	100	105	101	96	90	87	79	109	82
24°	17.70	16.94	16.02	15.05	13.88	11.29	-	-	14.03	60	103	101	106	102	97	91	87	80	110	83
28°	19.49	18.78	17.88	16.70	15.41	12.86	-	-	17.10	59	104	102	106	104	99	92	88	81	111	84
32°	21.27	20.63	19.75	18.49	16.98	14.39	-	-	20.17	61	106	103	107	105	100	93	88	82	112	85



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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	70	140	210	279	374	456	541			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	6.57	6.01	5.41	4.65	3.69	1.90	0.68	0.00	1.98	58	88	89	92	91	91	89	82	69	98	75
8°	8.10	7.46	6.83	6.14	5.26	2.83	1.12	0.39	3.05	55	90	91	94	92	91	88	82	70	99	75
12°	9.62	8.90	8.28	7.60	6.80	4.48	1.74	0.77	3.77	62	92	93	96	93	91	87	82	71	101	75
16°	11.68	11.01	10.31	9.57	8.75	6.88	-	-	5.18	62	95	95	98	95	91	86	81	72	102	76
20°	13.30	12.62	11.96	11.22	10.29	8.16	-	-	6.40	65	97	97	100	96	91	85	81	73	104	77
24°	14.79	14.16	13.39	12.58	11.60	9.44	-	-	8.19	60	98	98	101	97	92	86	81	74	105	78
28°	16.28	15.70	14.94	13.95	12.88	10.75	-	-	9.98	59	100	100	102	98	93	87	82	75	106	79
32°	17.77	17.24	16.50	15.45	14.19	12.02	-	-	11.77	61	101	101	103	100	94	88	82	76	108	80



Airtrade System certifies that the model 1000-X-a3 shown herein is licensed to bear the AMCA Seal.

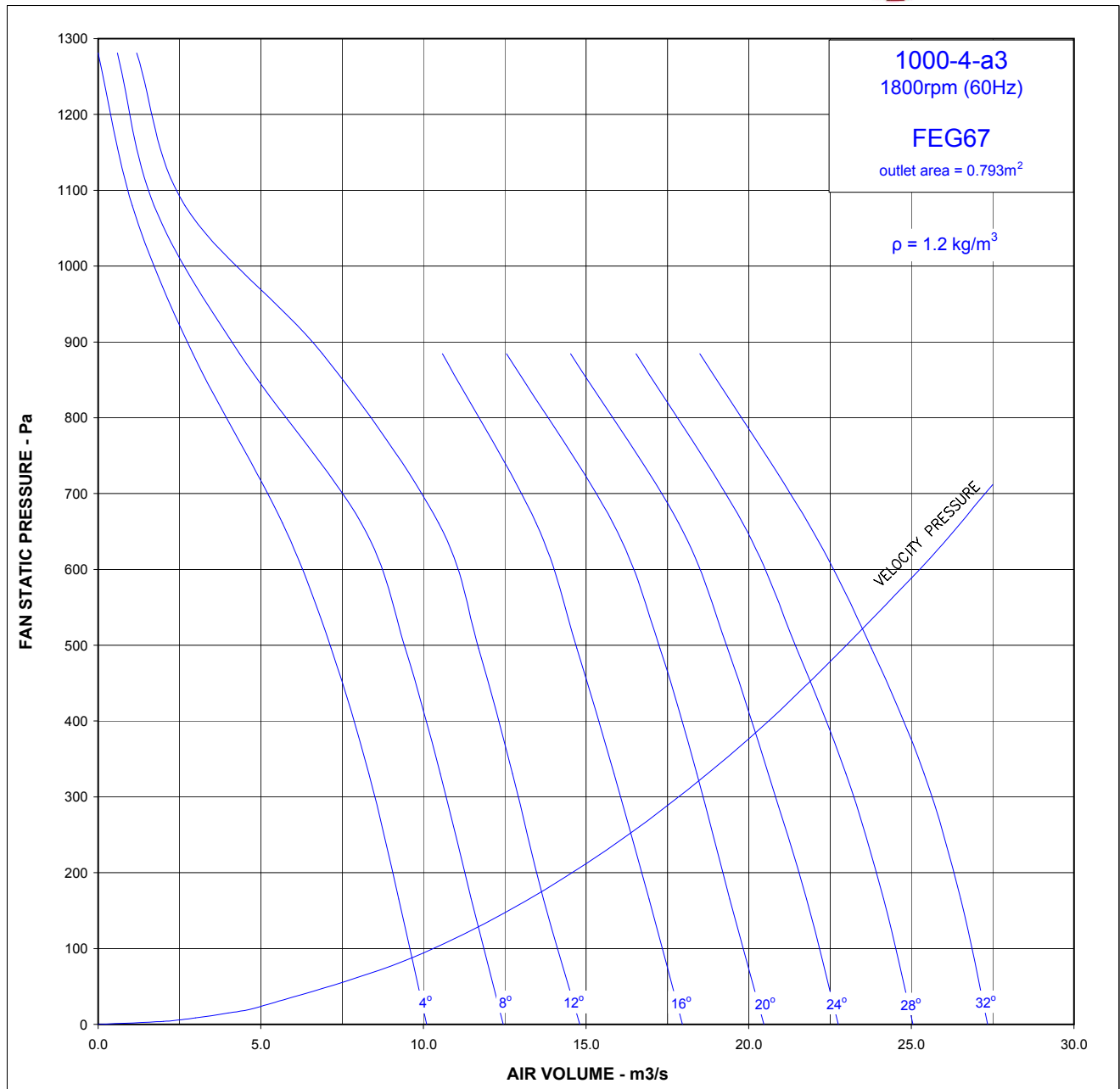
The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

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*The AMCA Certified Ratings Seal applies to air performance and the Fan Efficiency Grade ratings only.

*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	165	331	496	661	884	1079	1281			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	10.10	9.24	8.32	7.16	5.67	2.92	1.05	0.00	7.20	58	97	97	101	101	100	100	97	87	108	85
8°	12.45	11.47	10.51	9.44	8.09	4.35	1.72	0.59	11.09	55	99	99	103	103	101	99	96	87	109	86
12°	14.81	13.69	12.74	11.70	10.47	6.90	2.67	1.19	13.71	62	101	101	105	104	102	99	95	87	110	86
16°	17.96	16.94	15.86	14.72	13.46	10.59	-	-	18.86	62	103	104	107	106	102	98	94	87	112	87
20°	20.46	19.41	18.40	17.27	15.83	12.56	-	-	23.31	65	105	106	109	108	103	98	93	87	114	88
24°	22.76	21.78	20.60	19.35	17.85	14.52	-	-	29.83	60	107	107	110	109	105	99	94	88	115	89
28°	25.05	24.15	22.99	21.47	19.82	16.54	-	-	36.34	59	109	108	111	110	106	100	95	89	116	90
32°	27.35	26.52	25.39	23.78	21.83	18.50	-	-	42.86	61	110	110	111	111	107	101	95	90	117	92



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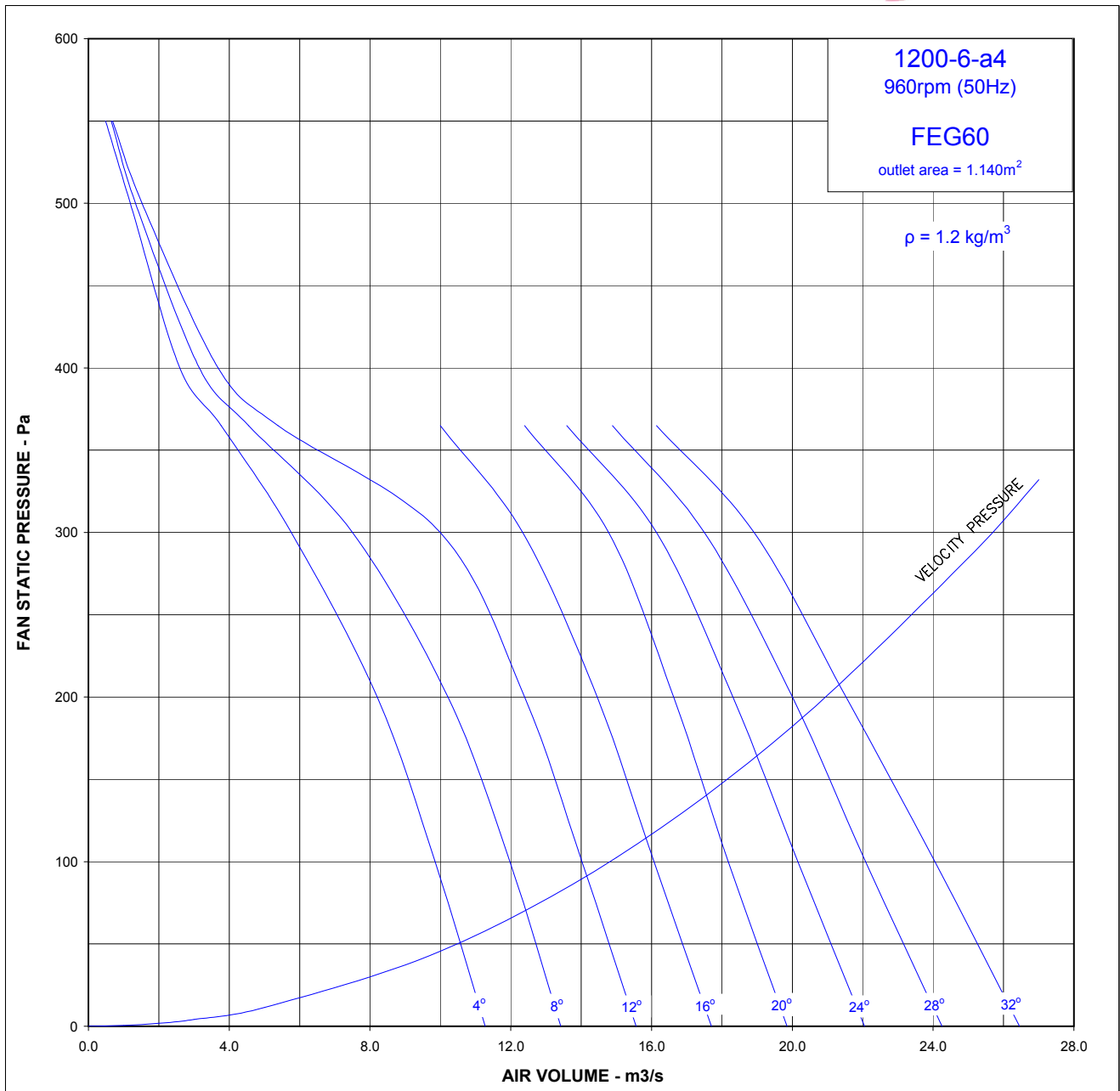
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*The AMCA Certified Ratings Seal applies to air performance and the Fan Efficiency Grade ratings only.

*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	100	200	300	365	400	500	550			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	11.27	9.85	8.21	5.76	3.77	2.60	1.19	0.49	4.04	52	91	96	101	97	93	88	77	75	104	78
8°	13.42	11.97	10.22	7.50	4.55	3.15	1.34	0.65	5.55	49	91	96	100	97	93	88	78	77	103	78
12°	15.56	14.03	12.39	10.00	5.39	3.69	1.52	0.69	7.06	50	91	96	99	97	93	88	80	78	103	77
16°	17.70	16.07	14.46	12.34	10.00	-	-	-	8.57	54	91	95	97	96	93	88	81	80	102	77
20°	19.85	18.18	16.63	14.78	12.39	-	-	-	10.07	58	91	95	96	96	93	88	82	81	102	77
24°	22.05	20.156	18.32	16.14	13.59	-	-	-	12.38	54	94	96	97	97	94	88	82	81	103	78
28°	24.25	22.08	20.00	17.50	14.89	-	-	-	14.72	52	96	97	99	99	94	88	82	82	104	79
32°	26.45	24.05	21.52	18.91	16.14	-	-	-	17.22	53	99	98	100	100	95	88	82	82	106	80



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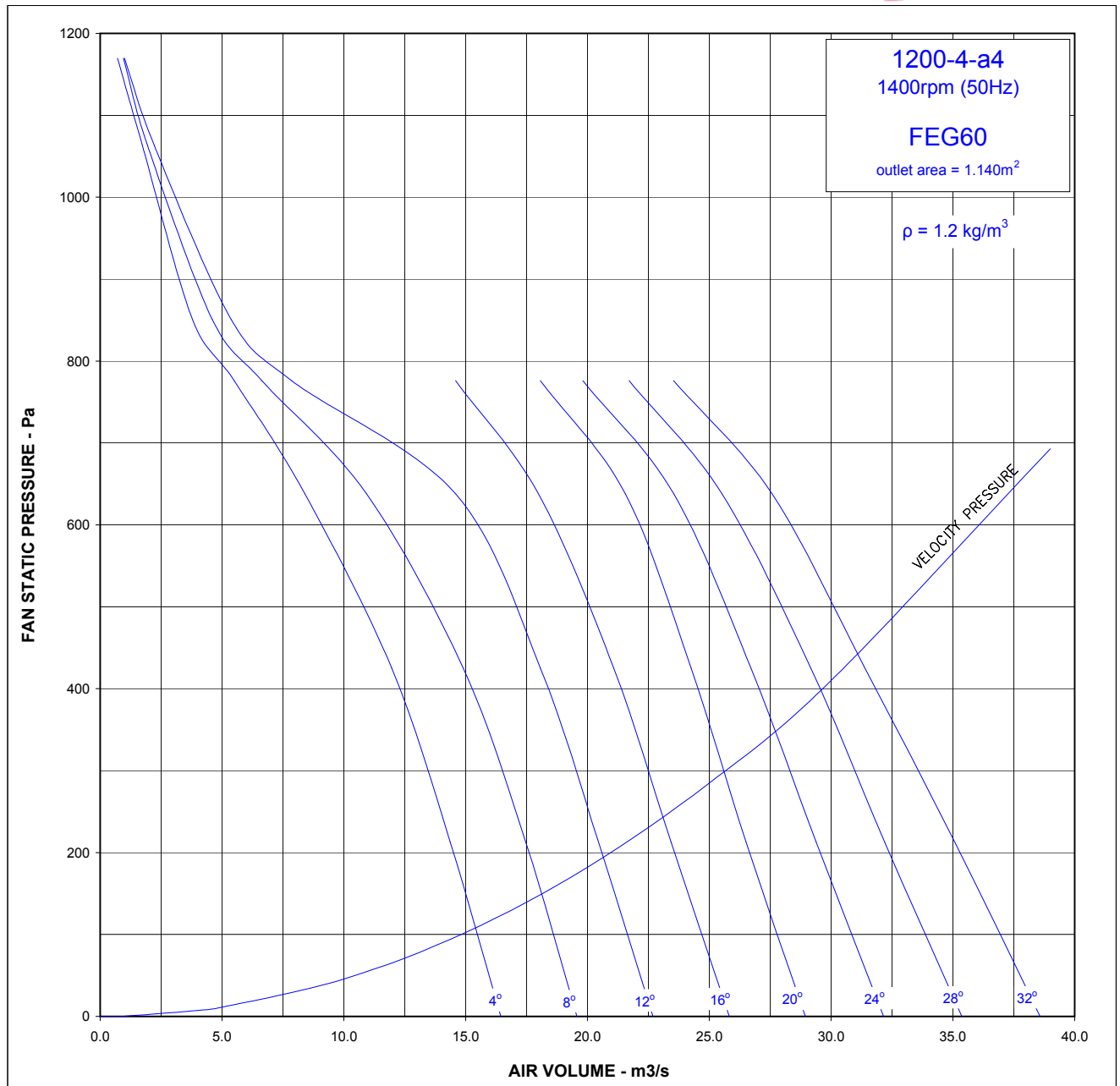
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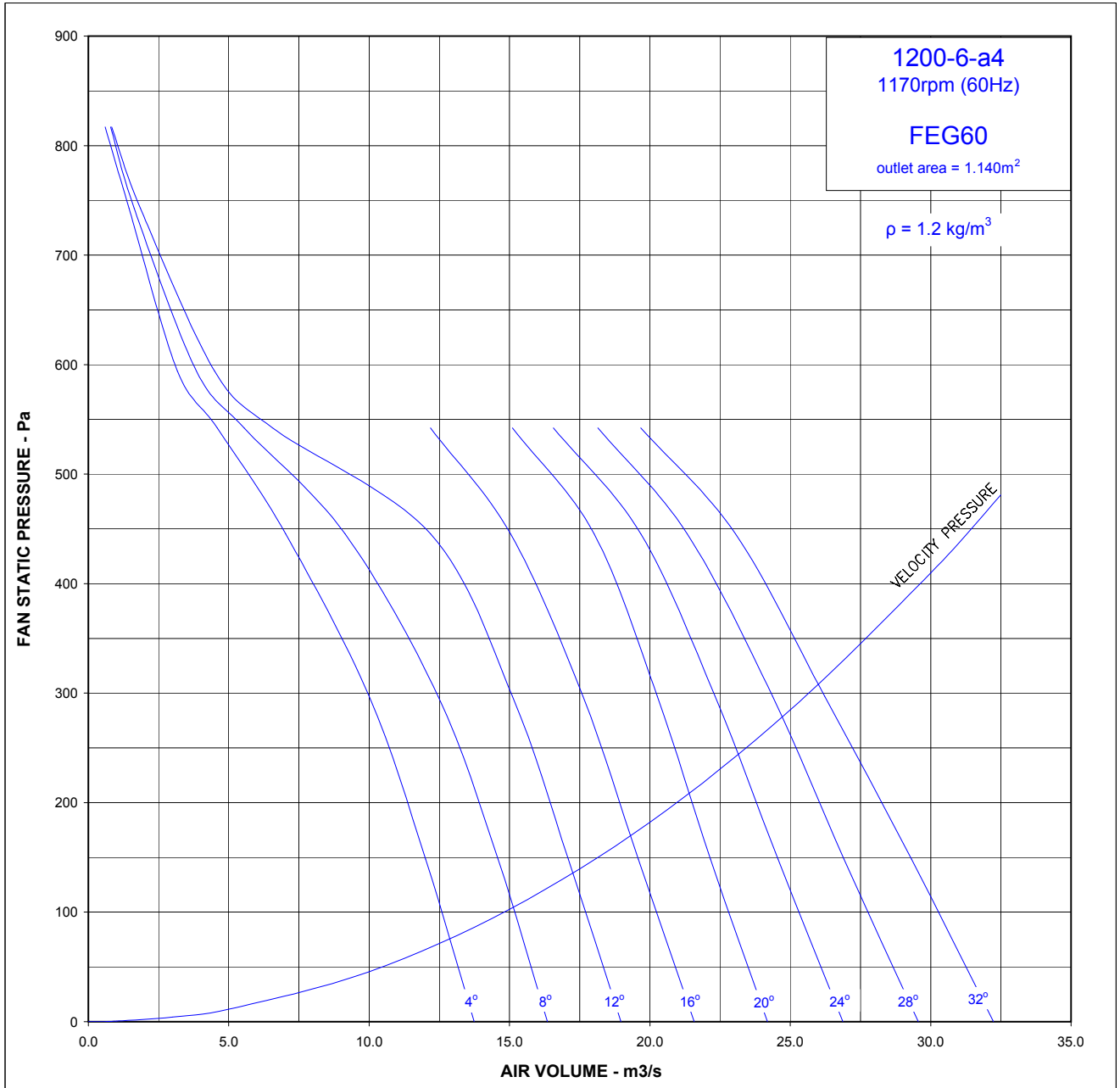


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	213	425	638	776	851	1063	1170			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	16.44	14.37	11.97	8.40	5.50	3.79	1.73	0.71	12.54	52	98	101	108	107	103	99	91	84	112	88
8°	19.57	17.46	14.90	10.94	6.63	4.60	1.95	0.95	17.21	49	98	101	106	107	103	99	92	86	111	87
12°	22.69	20.45	18.07	14.58	7.85	5.38	2.22	1.00	21.89	50	98	101	105	106	103	99	92	87	111	87
16°	25.82	23.43	21.08	17.99	14.58	-	-	-	26.57	54	98	101	104	105	103	99	93	88	110	87
20°	28.94	26.51	24.25	21.56	18.07	-	-	-	31.25	58	98	101	103	104	103	99	93	90	110	86
24°	32.15	29.39	26.71	23.54	19.81	-	-	-	38.40	54	100	103	104	106	104	99	93	90	111	87
28°	35.37	32.20	29.17	25.52	21.72	-	-	-	45.67	52	103	105	105	107	105	100	93	90	112	88
32°	38.58	35.08	31.39	27.58	23.54	-	-	-	53.40	53	106	107	107	108	106	100	93	90	114	89



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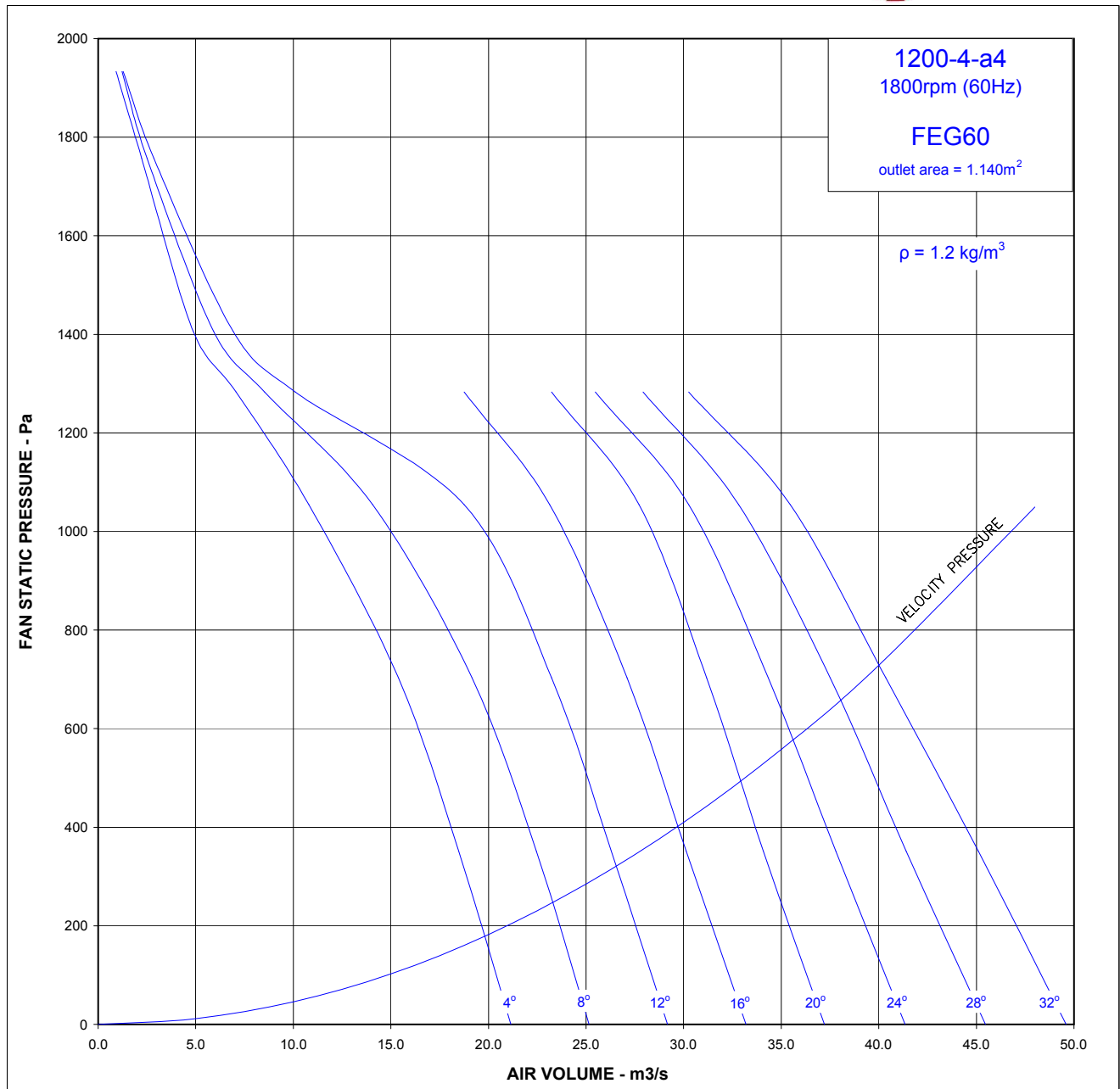


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	149	297	446	542	594	743	817			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	13.74	12.01	10.00	7.02	4.59	3.17	1.45	0.60	7.32	52	95	100	104	102	98	93	85	79	108	83
8°	16.35	14.59	12.45	9.14	5.54	3.84	1.63	0.79	10.05	49	95	99	102	102	98	93	86	80	107	83
12°	18.97	17.09	15.10	12.19	6.56	4.49	1.85	0.83	12.78	50	95	99	101	101	98	93	87	82	107	82
16°	21.58	19.58	17.62	15.04	12.19	-	-	-	15.51	54	95	98	100	101	98	93	88	83	106	82
20°	24.19	22.15	20.27	18.02	15.10	-	-	-	18.24	58	95	97	99	100	98	94	89	85	106	82
24°	26.87	24.57	22.32	19.67	16.56	-	-	-	22.41	54	97	99	100	101	99	94	89	85	107	83
28°	29.56	26.91	24.38	21.33	18.15	-	-	-	26.66	52	99	101	102	102	100	94	89	85	108	83
32°	32.24	29.32	26.23	23.05	19.67	-	-	-	31.17	53	102	102	103	104	100	94	89	85	110	84



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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	352	703	1055	1283	1406	1758	1934			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	21.14	18.47	15.39	10.80	7.07	4.87	2.23	0.92	26.64	52	102	105	112	113	110	106	99	92	117	94
8°	25.16	22.45	19.16	14.06	8.53	5.91	2.51	1.22	36.59	49	102	105	111	112	110	106	100	93	117	94
12°	29.18	26.30	23.23	18.75	10.10	6.92	2.85	1.28	46.53	50	102	105	109	111	109	106	100	94	116	93
16°	33.20	30.13	27.11	23.13	18.75	-	-	-	56.47	54	102	105	108	110	109	106	101	95	115	93
20°	37.21	34.08	31.18	27.72	23.23	-	-	-	66.41	58	102	105	107	109	109	106	101	97	115	92
24°	41.34	37.79	34.34	30.26	25.48	-	-	-	81.61	54	105	107	108	110	110	106	101	97	116	93
28°	45.47	41.40	37.50	32.81	27.92	-	-	-	97.06	52	107	110	110	112	111	107	101	97	118	94
32°	49.60	45.10	40.35	35.46	30.26	-	-	-	113.49	53	110	112	111	113	112	108	101	97	119	95



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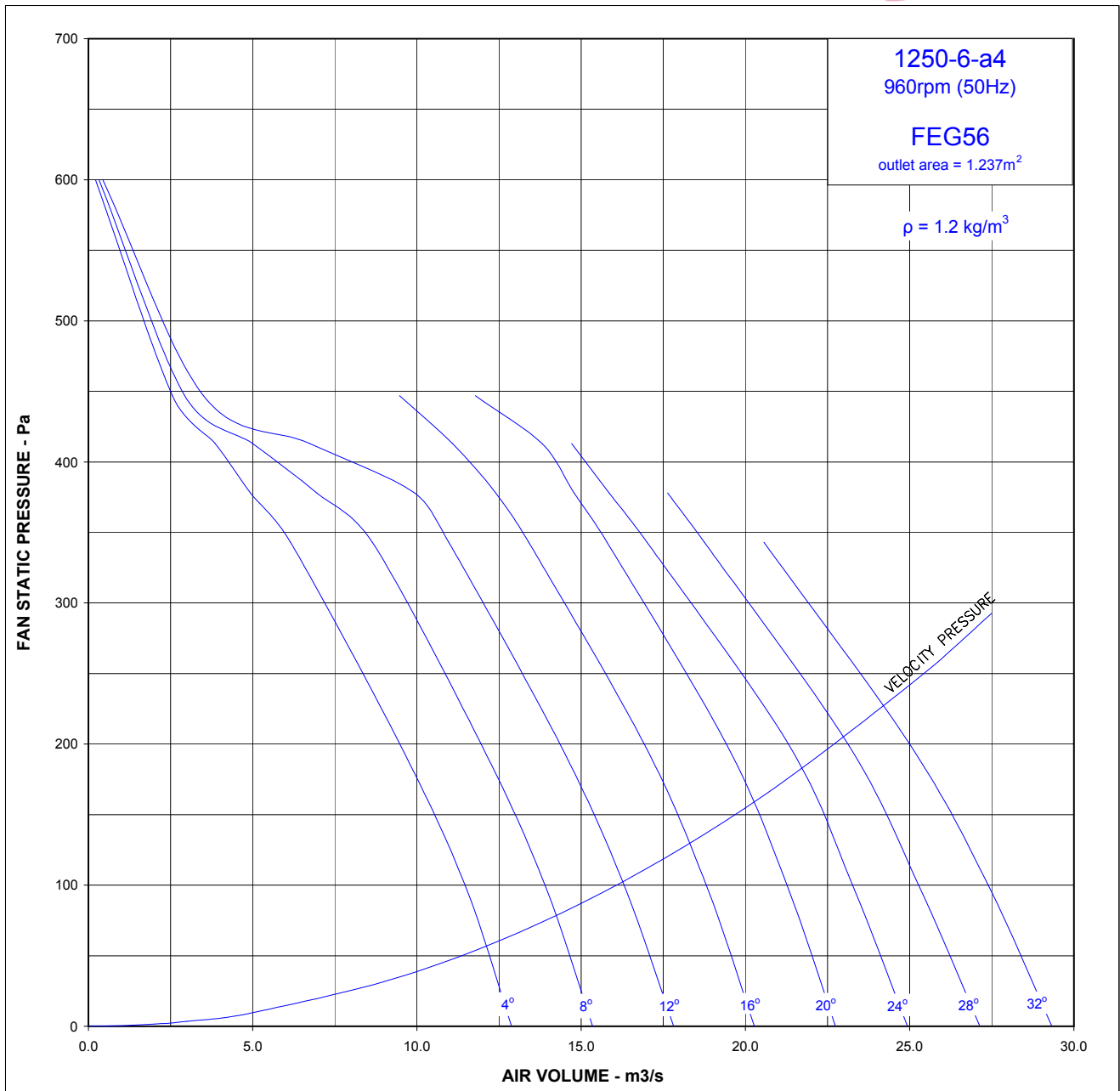
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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	100	200	343	378	413	447	600			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	12.88	11.47	9.48	6.15	4.93	3.86	2.56	0.22	5.29	46	94	96	99	100	96	91	79	76	105	80
8°	15.35	13.90	11.96	8.64	6.96	5.00	2.93	0.33	7.18	46	95	97	99	100	96	91	80	77	105	80
12°	17.81	16.30	14.35	10.97	9.93	6.74	3.50	0.44	9.08	48	96	98	100	100	96	91	81	79	105	80
16°	20.28	18.80	16.92	13.40	12.40	11.09	9.47	-	10.97	50	96	99	100	100	96	91	81	80	106	80
20°	22.74	21.27	19.42	15.78	14.78	13.80	11.78	-	12.86	55	97	100	100	100	96	91	82	81	106	80
24°	24.94	23.261	21.30	17.00	15.85	14.71	-	-	15.73	52	98	101	101	101	97	91	82	81	107	81
28°	27.13	25.27	23.12	18.75	17.64	-	-	-	18.78	50	100	102	103	102	97	90	82	81	108	82
32°	29.33	27.39	25.00	20.56	-	-	-	-	21.88	51	101	103	104	103	98	90	82	81	109	83



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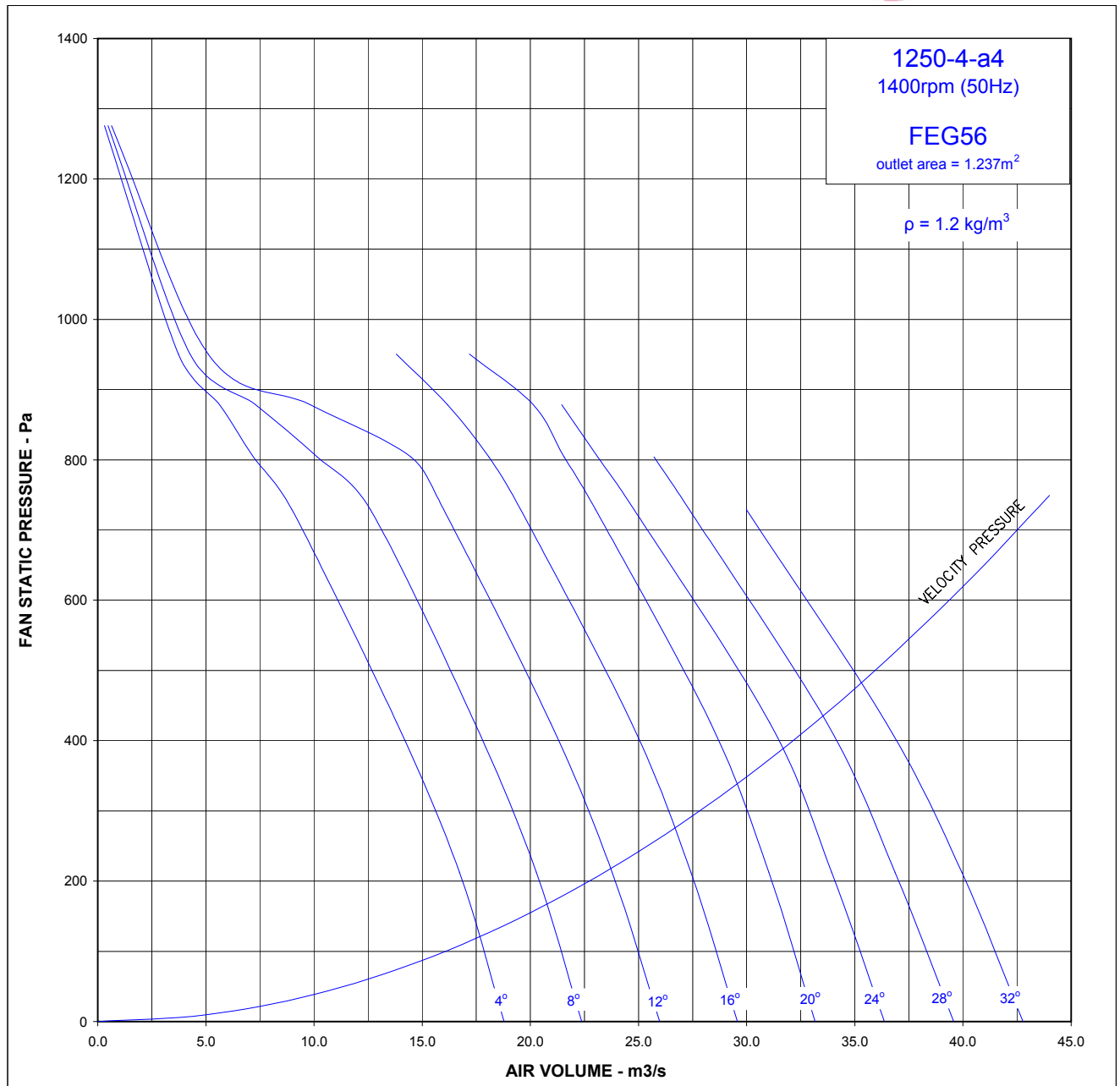
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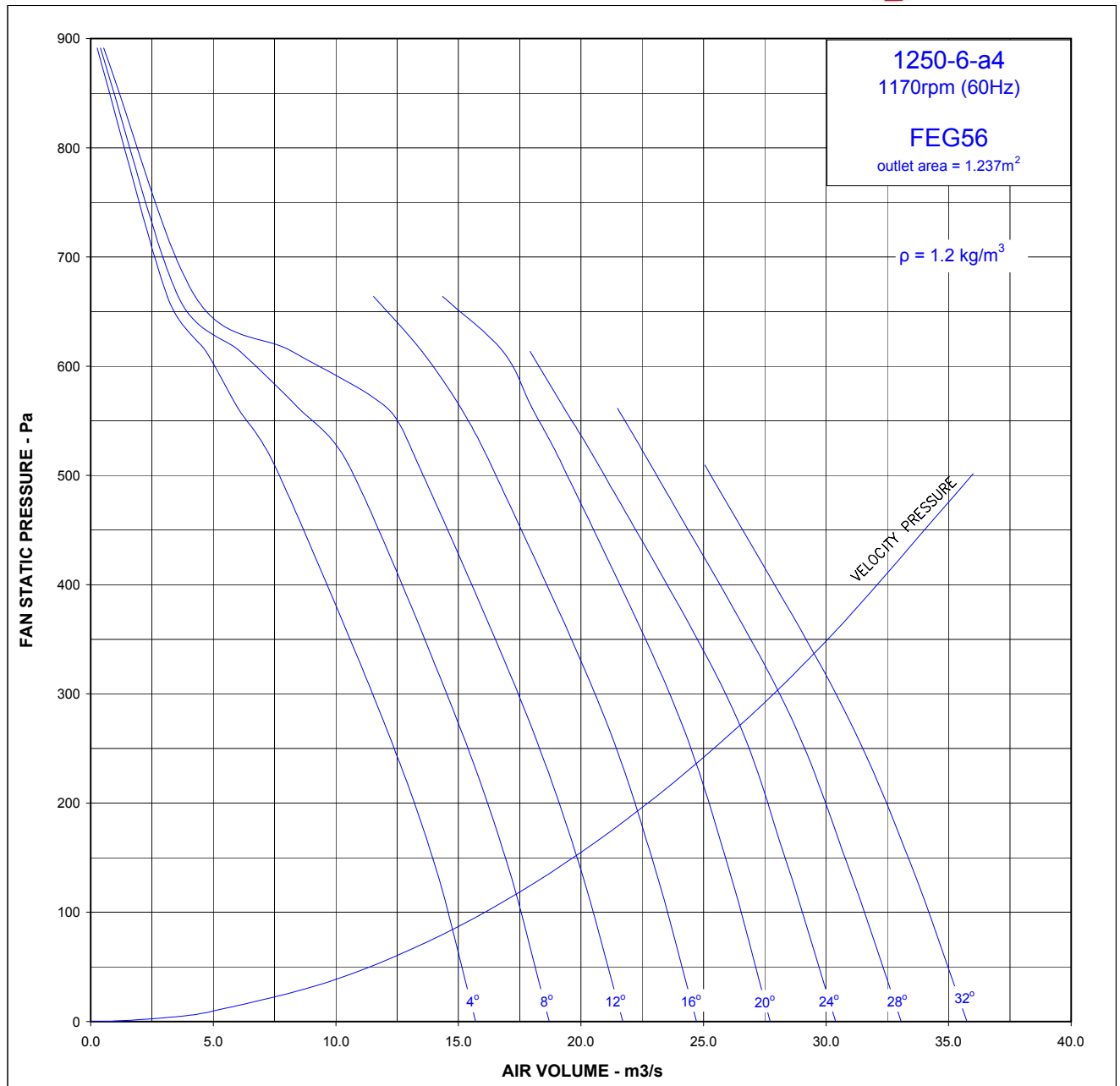


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	213	425	729	804	878	951	1276			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	18.78	16.72	13.82	8.97	7.19	5.63	3.73	0.32	16.41	52	101	103	106	108	106	102	94	86	113	89
8°	22.38	20.27	17.44	12.60	10.15	7.29	4.27	0.48	22.28	49	101	104	106	108	106	102	94	87	113	90
12°	25.97	23.78	20.93	16.00	14.48	9.83	5.10	0.63	28.15	50	102	105	106	108	106	102	94	88	113	90
16°	29.57	27.42	24.68	19.54	18.08	16.17	13.81	-	34.02	54	103	106	106	108	106	102	95	89	114	90
20°	33.16	31.02	28.33	23.02	21.56	20.13	17.18	-	39.88	58	104	107	107	108	106	102	95	90	114	90
24°	36.37	33.92	31.07	24.79	23.11	21.45	-	-	48.79	54	105	108	108	109	107	102	95	90	115	91
28°	39.57	36.86	33.72	27.34	25.72	-	-	-	58.24	52	106	109	109	111	108	102	95	90	116	92
32°	42.77	39.94	36.46	29.99	-	-	-	-	67.85	53	108	110	111	112	109	103	95	90	117	92



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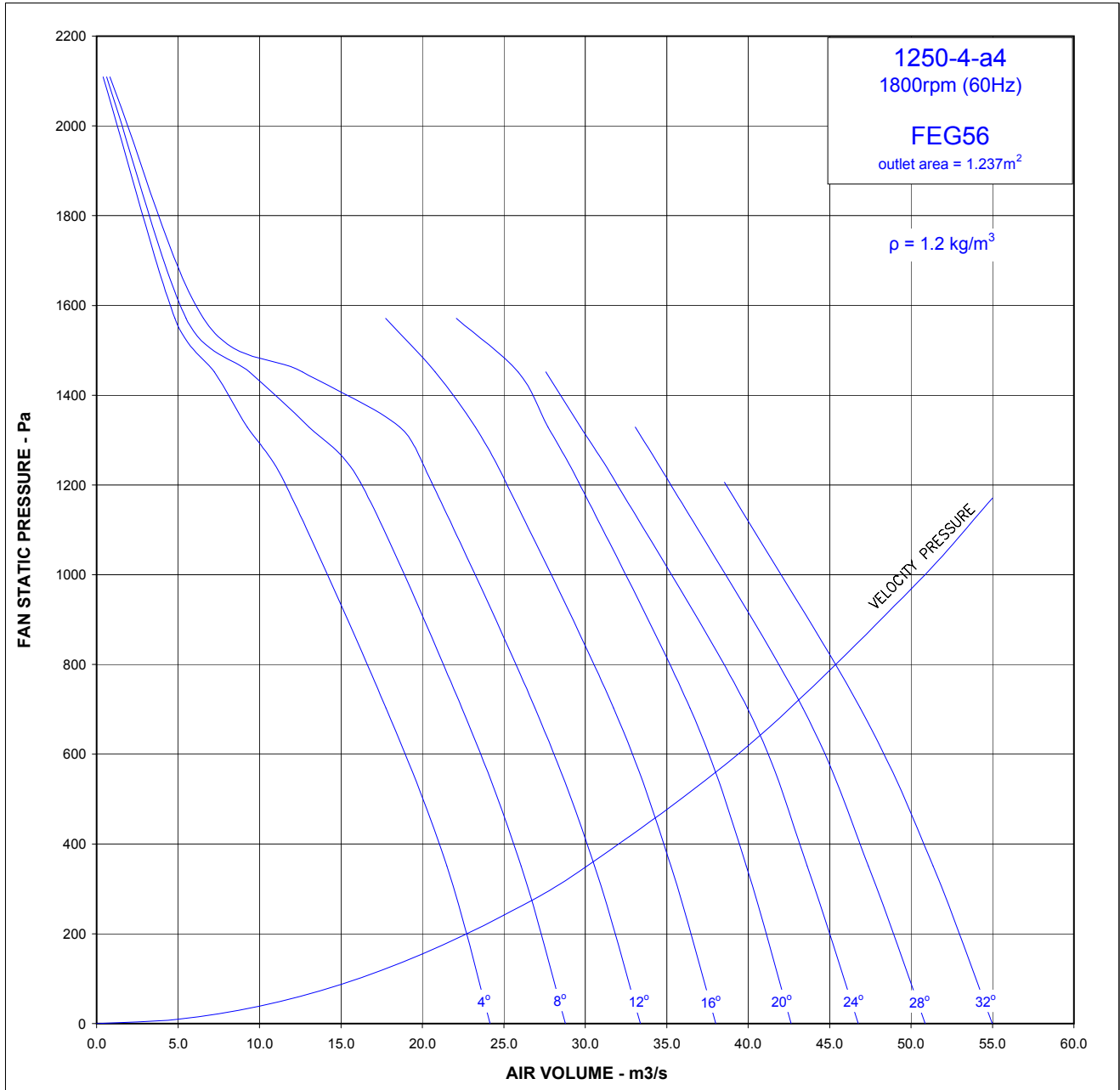


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	149	297	509	561	613	664	891			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	15.70	13.98	11.55	7.50	6.01	4.70	3.12	0.26	9.58	46	97	100	102	104	101	97	87	81	109	85
8°	18.70	16.94	14.57	10.53	8.48	6.09	3.57	0.40	13.00	46	98	101	103	104	101	97	87	82	109	85
12°	21.71	19.87	17.49	13.37	12.10	8.21	4.27	0.53	16.43	48	99	102	103	104	101	97	88	83	109	85
16°	24.71	22.92	20.63	16.33	15.11	13.51	11.54	-	19.86	50	100	103	103	104	101	97	88	84	110	85
20°	27.71	25.92	23.67	19.24	18.02	16.82	14.36	-	23.28	55	100	103	103	104	101	97	89	86	110	85
24°	30.39	28.35	25.96	20.72	19.32	17.93	-	-	28.48	52	102	105	105	105	102	97	89	86	111	86
28°	33.07	30.80	28.18	22.85	21.49	-	-	-	33.99	50	103	106	106	107	103	97	89	86	112	87
32°	35.74	33.38	30.47	25.06	-	-	-	-	39.60	51	104	107	107	108	104	97	89	86	113	88



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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	352	703	1206	1329	1452	1571	2109			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	24.15	21.50	17.77	11.53	9.24	7.24	4.80	0.41	34.88	52	105	108	110	113	113	109	104	92	118	96
8°	28.77	26.07	22.42	16.20	13.04	9.38	5.49	0.61	47.35	49	106	109	110	113	113	109	104	93	119	96
12°	33.40	30.57	26.91	20.57	18.62	12.64	6.56	0.82	59.82	50	106	109	110	113	113	109	104	94	119	96
16°	38.02	35.26	31.73	25.13	23.25	20.79	17.75	-	72.30	54	107	110	111	113	113	109	104	95	119	96
20°	42.64	39.88	36.42	29.59	27.72	25.88	22.09	-	84.77	58	108	111	111	114	113	109	104	96	119	96
24°	46.76	43.61	39.95	31.88	29.72	27.58	-	-	103.70	54	109	112	112	115	114	110	104	96	120	97
28°	50.87	47.39	43.35	35.16	33.07	-	-	-	123.77	52	111	114	114	116	115	110	103	96	122	98
32°	54.99	51.36	46.88	38.56	-	-	-	-	144.21	53	112	115	115	118	116	111	103	96	123	99



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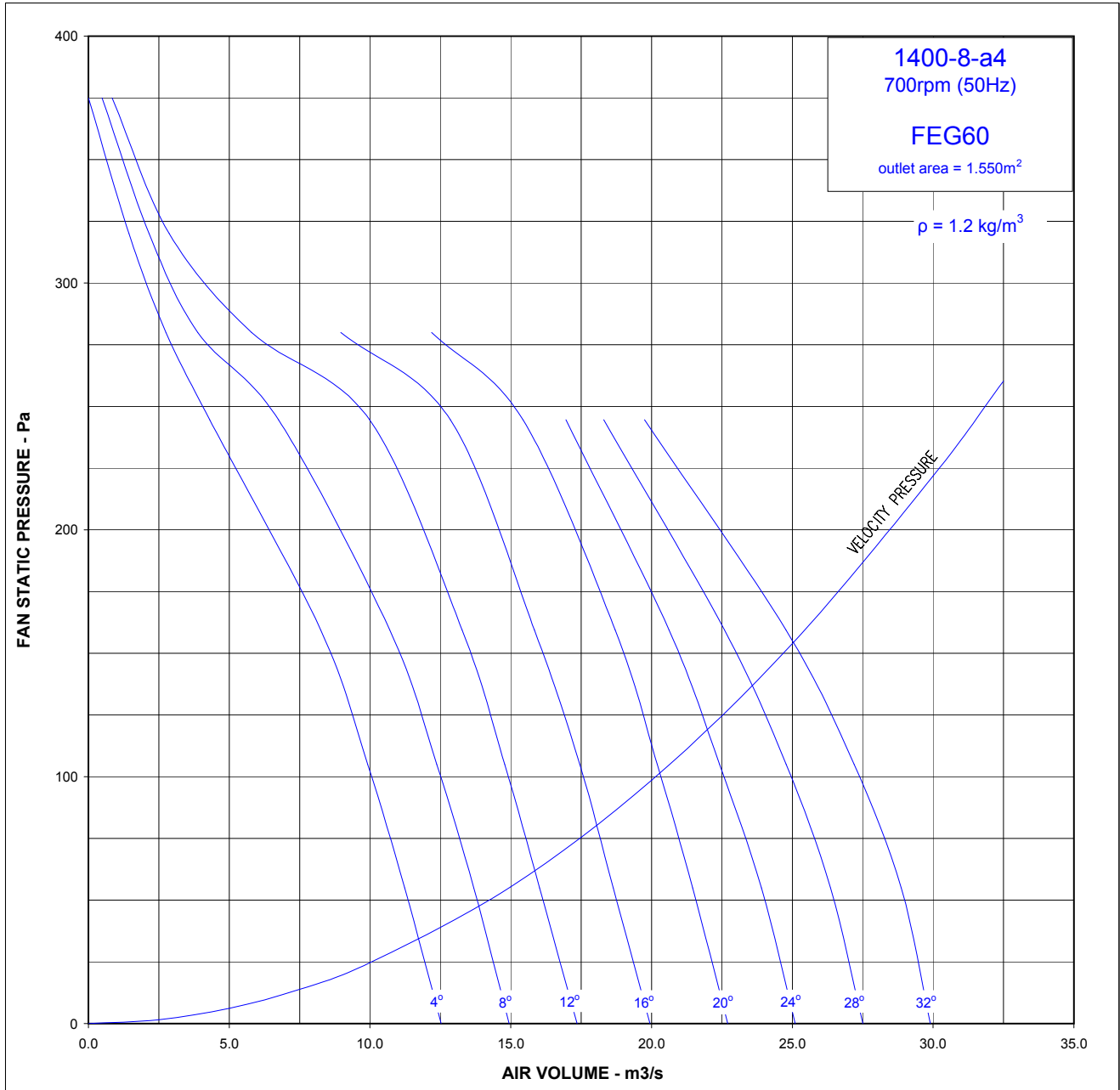
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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	55	105	160	245	280	320	375			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	12.52	11.24	9.92	8.25	4.30	2.75	1.43	0.00	3.22	46	83	89	95	95	91	86	79	75	99	75
8°	14.94	13.69	12.37	10.70	6.75	3.89	2.15	0.48	4.20	49	85	89	93	93	91	85	79	75	98	74
12°	17.36	16.02	14.79	13.27	9.98	5.80	2.87	0.84	5.19	54	87	88	92	92	90	85	79	76	98	73
16°	19.94	18.64	17.45	15.84	12.85	8.96	-	-	6.50	56	89	88	91	91	89	84	79	77	97	72
20°	22.70	21.46	20.20	18.71	15.44	12.19	-	-	8.12	58	91	88	89	90	88	83	79	77	97	72
24°	25.10	23.91	22.41	20.62	16.96	-	-	-	10.18	54	93	89	90	90	88	83	79	78	98	72
28°	27.50	26.36	24.78	22.59	18.30	-	-	-	12.49	52	94	91	92	91	88	83	79	78	99	73
32°	29.90	28.87	27.19	24.77	19.75	-	-	-	14.98	52	96	92	93	92	89	84	80	78	100	73



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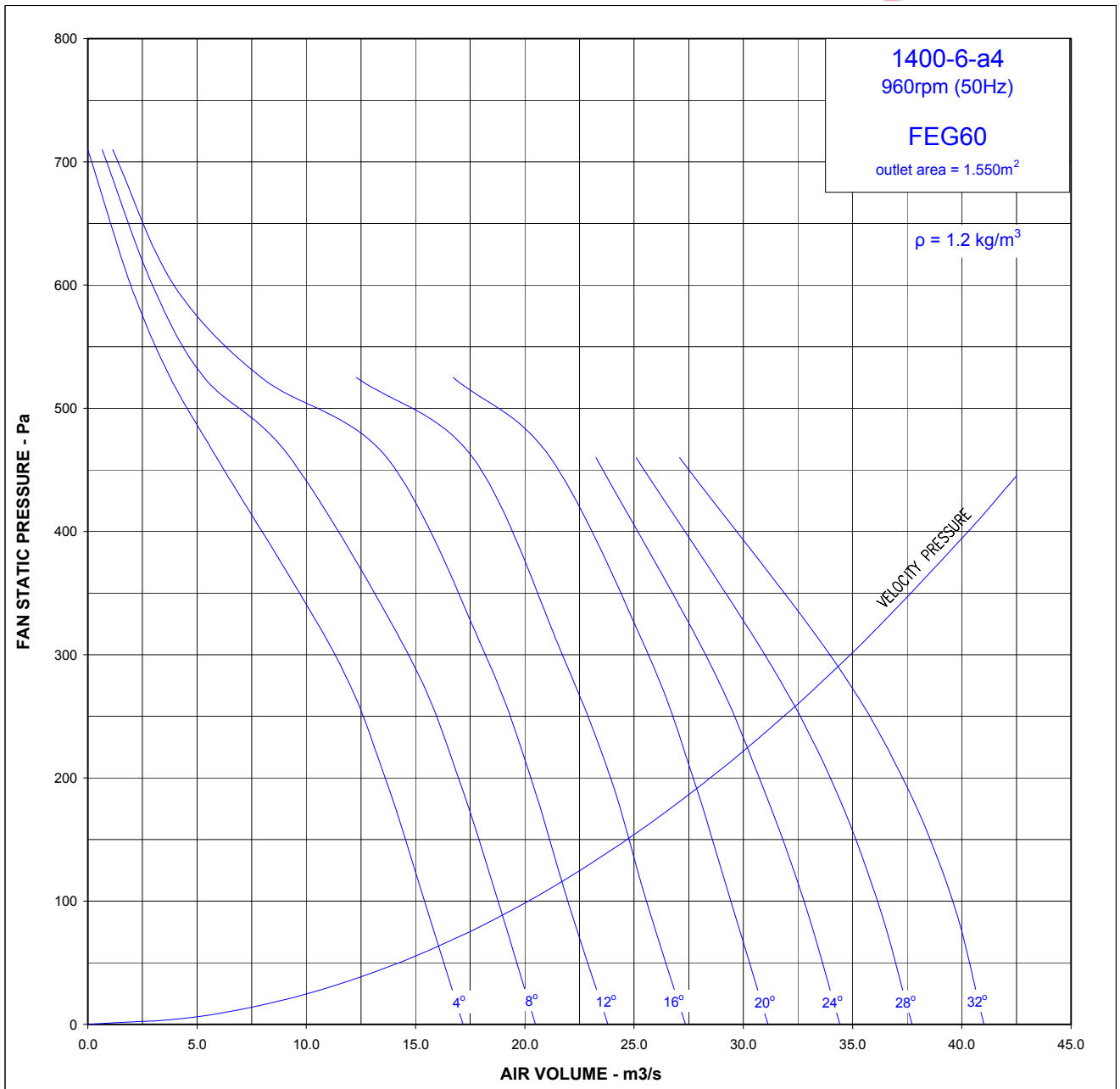
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*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	100	200	300	400	525	600	710			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	17.17	15.41	13.61	11.31	5.90	3.77	1.97	0.00	8.31	46	88	92	100	103	99	97	87	83	107	84
8°	20.49	18.77	16.97	14.67	9.26	5.33	2.95	0.66	10.84	49	91	92	99	101	98	96	87	83	106	83
12°	23.81	21.97	20.28	18.20	13.69	7.95	3.93	1.15	13.38	54	95	93	98	100	97	95	87	84	105	81
16°	27.35	25.57	23.93	21.72	17.62	12.29	-	-	16.77	56	98	93	97	98	97	94	87	84	104	80
20°	31.13	29.43	27.71	25.66	21.17	16.72	-	-	20.95	58	101	93	95	97	96	93	87	85	105	79
24°	34.43	32.79	30.74	28.28	23.26	-	-	-	26.27	54	103	95	97	98	96	93	87	85	106	80
28°	37.72	36.15	33.98	30.98	25.09	-	-	-	32.23	52	104	97	98	98	97	93	87	85	107	80
32°	41.01	39.59	37.30	33.97	27.08	-	-	-	38.63	52	106	99	100	99	98	93	87	85	109	81



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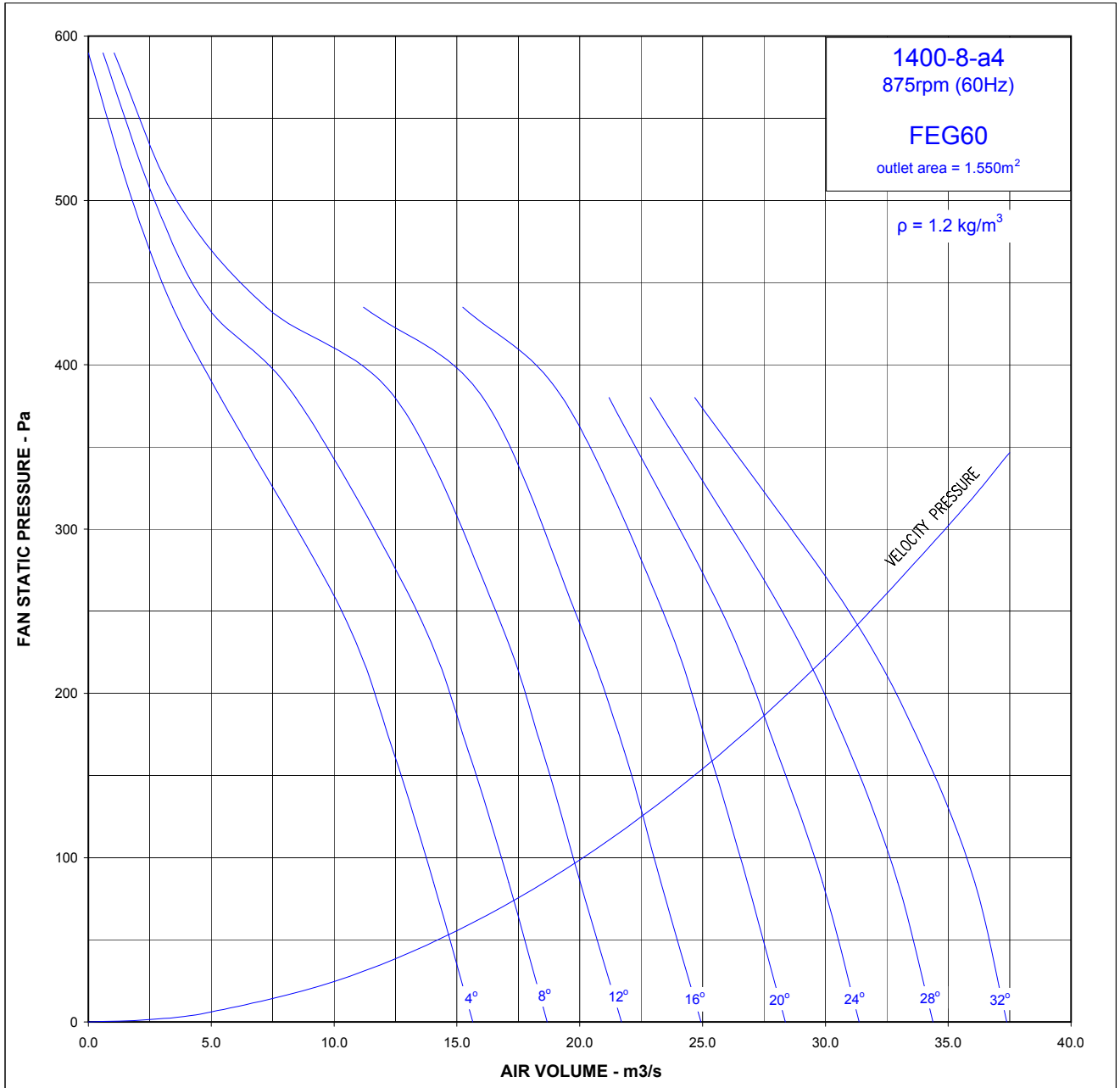
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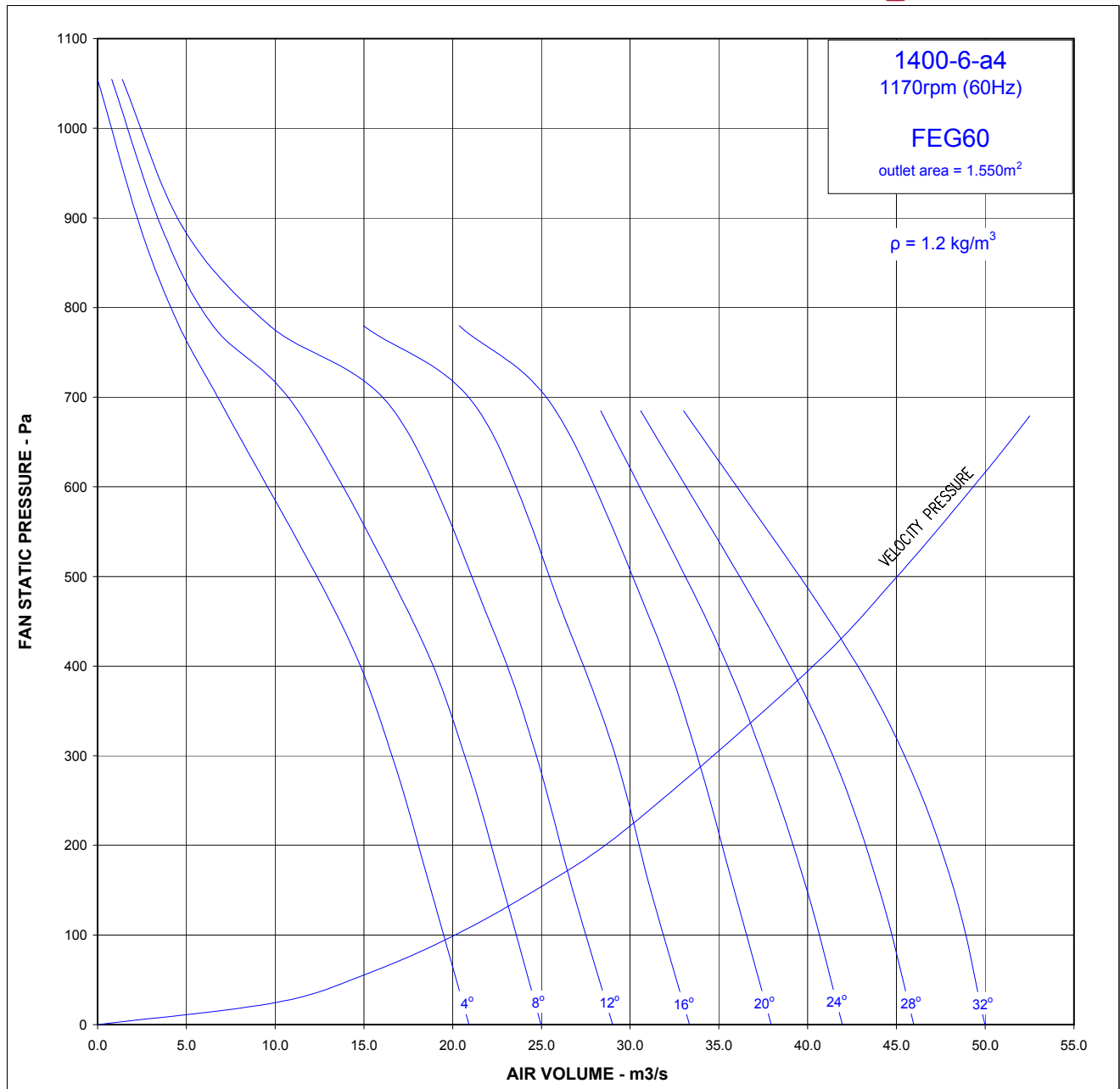


PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	85	165	250	380	435	500	590			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	15.65	14.05	12.40	10.31	5.38	3.44	1.79	0.00	6.29	46	87	91	98	100	97	94	84	80	104	81
8°	18.68	17.11	15.46	13.37	8.44	4.86	2.69	0.60	8.21	49	89	91	97	99	96	93	84	81	103	80
12°	21.70	20.02	18.48	16.59	12.48	7.25	3.59	1.05	10.13	54	92	91	96	98	95	92	84	81	103	79
16°	24.93	23.30	21.81	19.80	16.06	11.20	-	-	12.70	56	95	92	95	96	94	91	84	82	102	78
20°	28.38	26.82	25.25	23.38	19.30	15.24	-	-	15.86	58	98	92	94	95	93	90	84	83	102	77
24°	31.38	29.88	28.02	25.78	21.20	-	-	-	19.89	54	100	93	95	95	94	90	84	83	103	77
28°	34.38	32.95	30.98	28.24	22.87	-	-	-	24.40	52	101	95	96	96	94	90	85	83	105	78
32°	37.38	36.08	33.99	30.96	24.68	-	-	-	29.25	52	103	97	97	97	95	90	85	83	106	79



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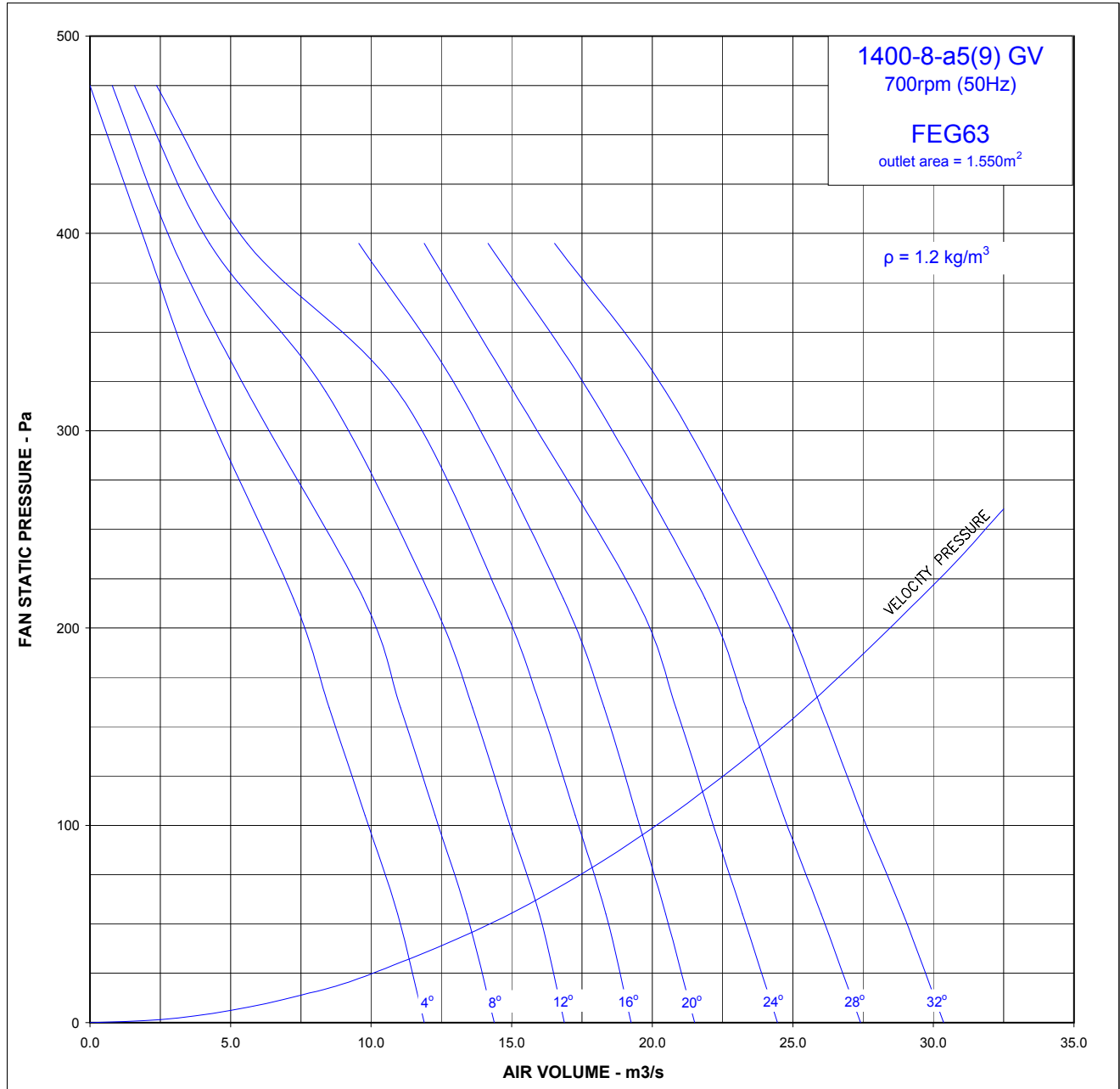
PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	150	300	445	685	780	890	1055			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	20.93	18.78	16.58	13.79	7.19	4.59	2.40	0.00	15.04	46	91	95	102	106	104	102	94	88	110	88
8°	24.97	22.88	20.68	17.88	11.29	6.49	3.60	0.80	19.62	49	95	96	101	105	103	101	94	89	110	87
12°	29.01	26.77	24.72	22.18	16.68	9.69	4.79	1.40	24.23	54	98	98	101	104	102	100	93	89	109	86
16°	33.34	31.16	29.17	26.47	21.48	14.98	-	-	30.37	56	101	99	100	102	101	99	93	89	109	85
20°	37.94	35.86	33.77	31.27	25.80	20.38	-	-	37.92	58	105	100	99	101	100	98	93	90	109	84
24°	41.96	39.96	37.46	34.47	28.34	-	-	-	47.55	54	106	102	101	102	101	98	93	90	110	85
28°	45.97	44.06	41.42	37.76	30.58	-	-	-	58.34	52	108	104	102	103	102	98	93	90	111	85
32°	49.98	48.25	45.45	41.40	33.00	-	-	-	69.94	52	109	105	104	103	102	98	93	90	113	86



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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	55	105	160	215	320	395	475			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	11.89	10.94	9.78	8.51	7.23	3.89	1.98	0.00	3.60	45	84	90	96	96	92	87	80	76	100	76
8°	14.38	13.40	12.27	11.05	9.72	5.59	2.92	0.79	4.60	50	86	90	94	94	92	86	80	76	99	75
12°	16.87	15.98	14.83	13.61	12.15	8.39	4.25	1.58	5.64	55	88	89	93	93	91	86	80	77	99	74
16°	19.24	18.35	17.26	16.04	14.58	10.94	5.59	2.37	6.81	58	90	89	92	92	90	85	80	78	98	73
20°	21.50	20.48	19.44	18.29	16.83	13.13	9.56	-	8.13	60	92	89	90	91	89	84	80	78	98	73
24°	24.46	23.21	22.06	20.84	19.42	15.07	11.89	-	10.32	58	94	90	91	91	89	84	80	79	99	73
28°	27.41	26.01	24.67	23.33	21.88	17.74	14.16	-	12.81	58	95	92	93	92	89	84	80	79	100	74
32°	30.37	28.92	27.47	26.01	24.43	20.48	16.53	-	15.32	60	97	93	94	93	90	85	81	79	101	74



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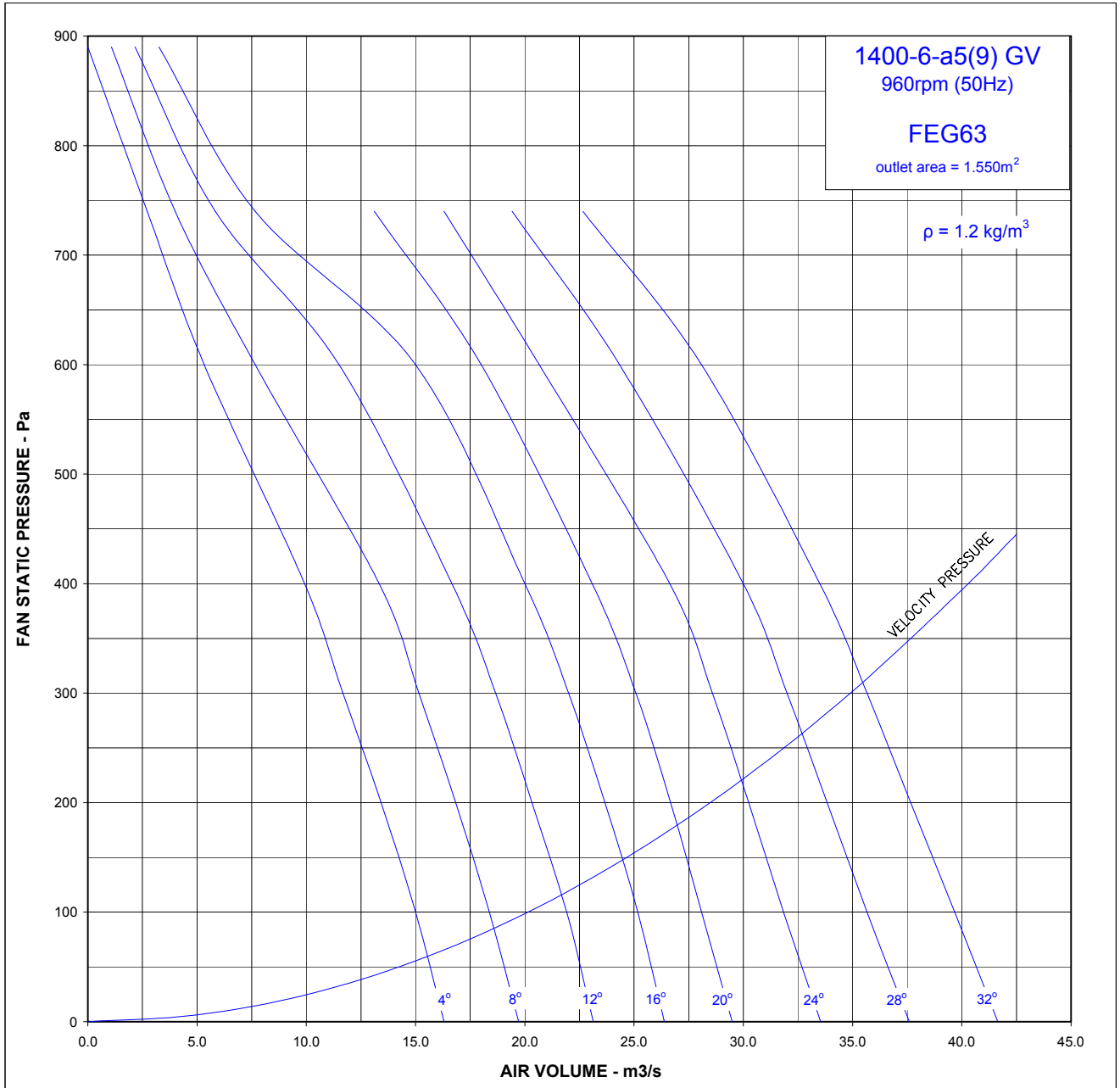
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	100	200	300	400	600	740	890			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	16.31	15.00	13.42	11.67	9.92	5.33	2.72	0.00	9.30	45	89	93	101	104	100	98	88	84	108	84
8°	19.72	18.38	16.83	15.15	13.33	7.67	4.00	1.08	11.87	50	92	93	100	102	99	97	88	84	107	84
12°	23.13	21.92	20.33	18.67	16.67	11.50	5.83	2.17	14.54	55	96	94	99	101	98	96	88	85	106	82
16°	26.39	25.17	23.67	22.00	20.00	15.00	7.67	3.25	17.58	58	99	94	98	99	98	95	88	85	105	81
20°	29.49	28.08	26.67	25.08	23.08	18.00	13.12	-	20.97	60	102	94	96	98	97	94	88	86	106	80
24°	33.54	31.83	30.25	28.58	26.63	20.67	16.30	-	26.62	58	104	96	98	99	97	94	88	86	107	81
28°	37.59	35.67	33.83	32.00	30.00	24.33	19.42	-	33.04	58	105	98	99	99	98	94	88	86	108	81
32°	41.65	39.67	37.67	35.67	33.50	28.08	22.67	-	39.52	60	107	100	101	100	99	94	88	86	110	82



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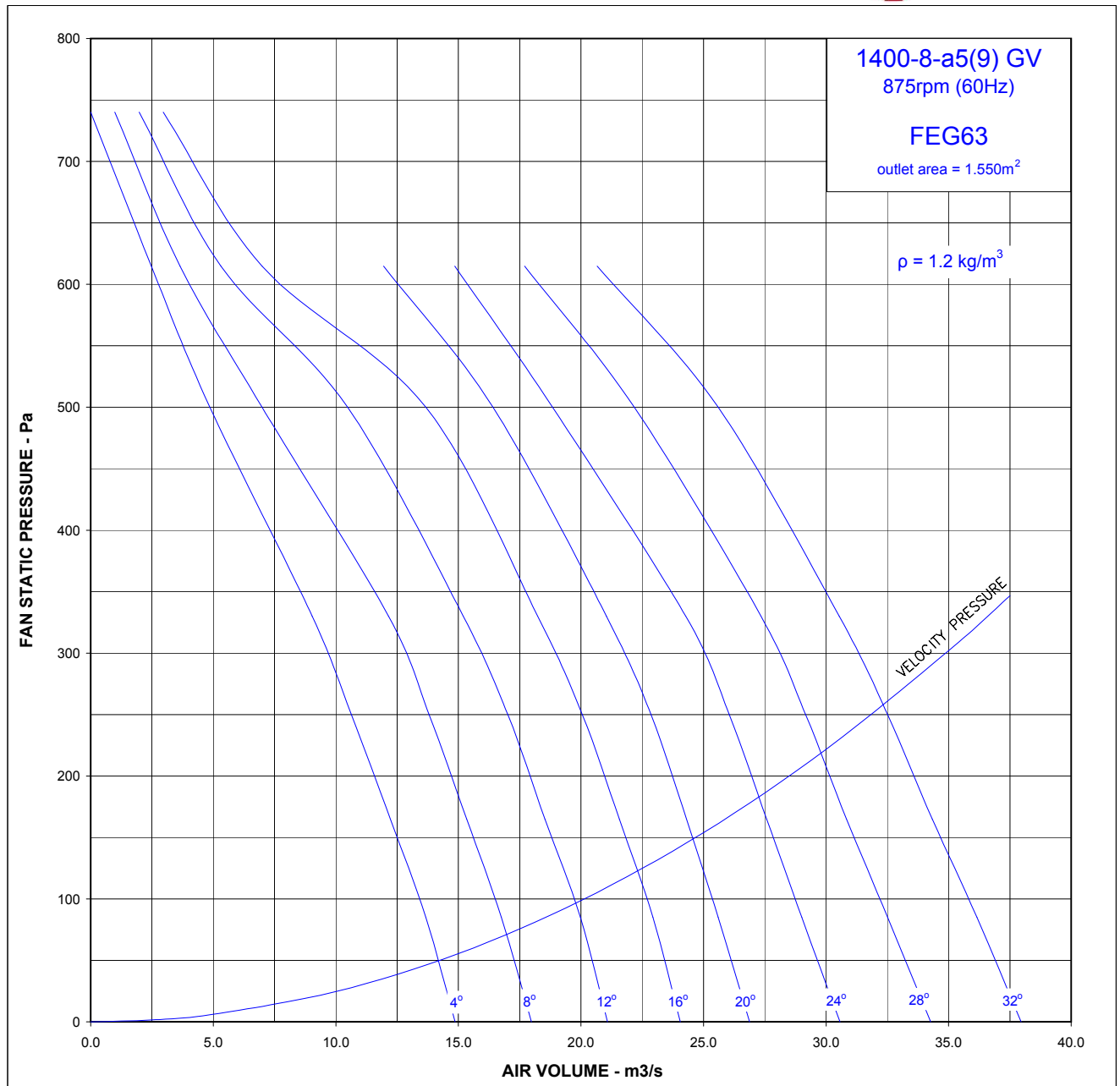
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	85	165	250	330	500	615	740			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	14.86	13.67	12.23	10.63	9.04	4.86	2.48	0.00	7.04	45	88	92	99	101	98	95	85	81	105	82
8°	17.97	16.76	15.34	13.81	12.15	6.99	3.65	0.99	8.99	50	90	92	98	100	97	94	85	82	104	81
12°	21.09	19.98	18.53	17.01	15.19	10.48	5.32	1.97	11.01	55	93	92	97	99	96	93	85	82	104	80
16°	24.05	22.94	21.57	20.05	18.23	13.67	6.99	2.96	13.31	58	96	93	96	97	95	92	85	83	103	79
20°	26.88	25.60	24.31	22.86	21.04	16.41	11.95	-	15.88	60	99	93	95	96	94	91	85	84	103	78
24°	30.57	29.01	27.57	26.05	24.27	18.84	14.86	-	20.16	58	101	94	96	96	95	91	85	84	104	78
28°	34.27	32.51	30.84	29.17	27.34	22.18	17.70	-	25.02	58	102	96	97	97	95	91	86	84	106	79
32°	37.96	36.15	34.33	32.51	30.53	25.60	20.66	-	29.92	60	104	98	98	98	96	91	86	84	107	80



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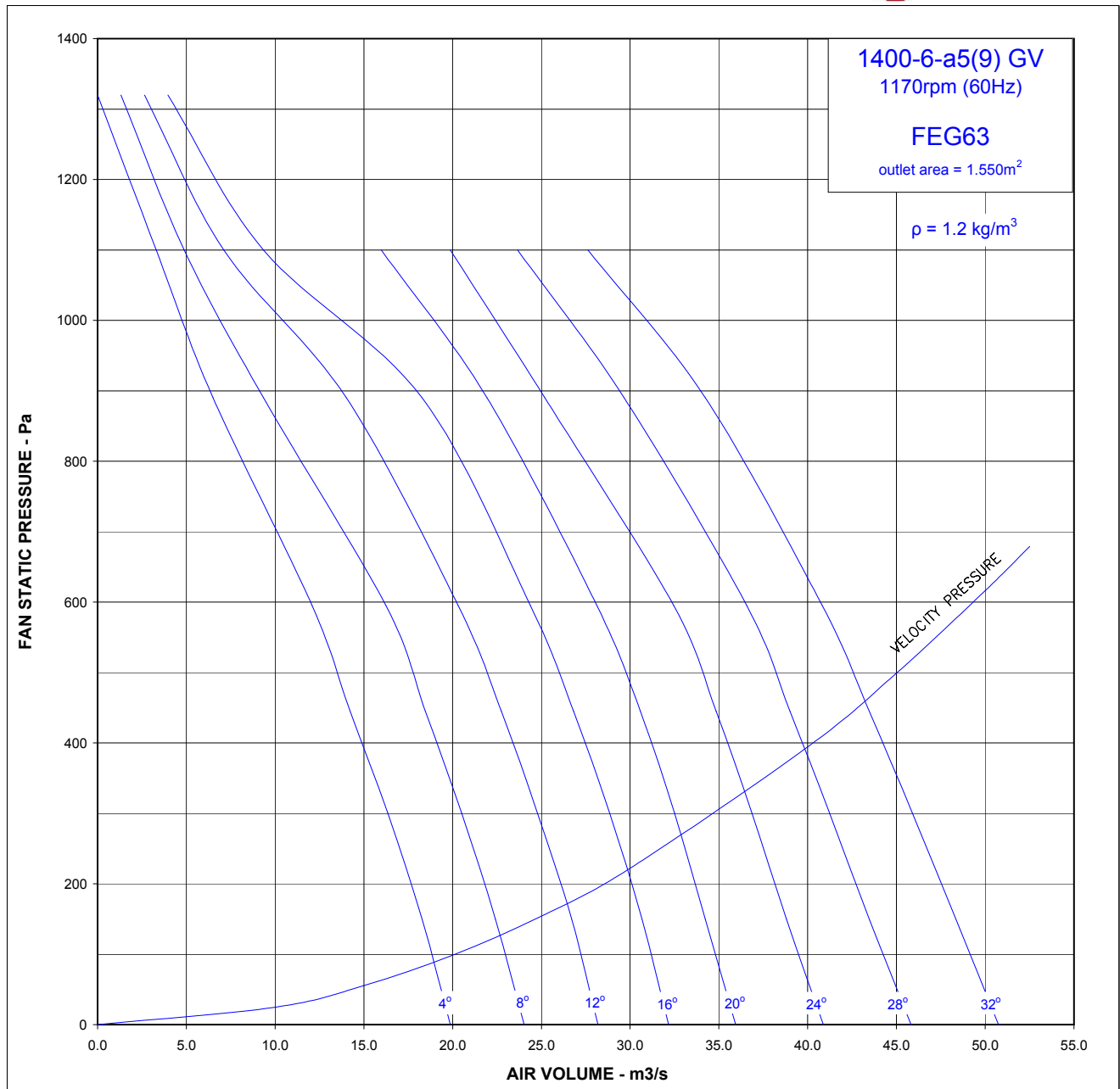
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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	150	300	445	595	890	1100	1320			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	19.87	18.28	16.35	14.22	12.09	6.50	3.31	0.00	16.83	45	92	96	103	107	105	103	95	89	111	89
8°	24.03	22.40	20.52	18.46	16.25	9.34	4.88	1.32	21.49	50	96	97	102	106	104	102	95	90	111	88
12°	28.19	26.71	24.78	22.75	20.31	14.02	7.11	2.64	26.33	55	99	99	102	105	103	101	94	90	110	87
16°	32.16	30.67	28.84	26.81	24.38	18.28	9.34	3.96	31.82	58	102	100	101	103	102	100	94	90	110	86
20°	35.94	34.23	32.50	30.57	28.13	21.94	15.99	-	37.97	60	106	101	100	102	101	99	94	91	110	85
24°	40.88	38.80	36.87	34.84	32.46	25.19	19.87	-	48.19	58	107	103	102	103	102	99	94	91	111	86
28°	45.82	43.47	41.23	39.00	36.56	29.66	23.66	-	59.82	58	109	105	103	104	103	99	94	91	112	86
32°	50.75	48.34	45.91	43.47	40.83	34.23	27.63	-	71.54	60	110	106	105	104	103	99	94	91	114	87



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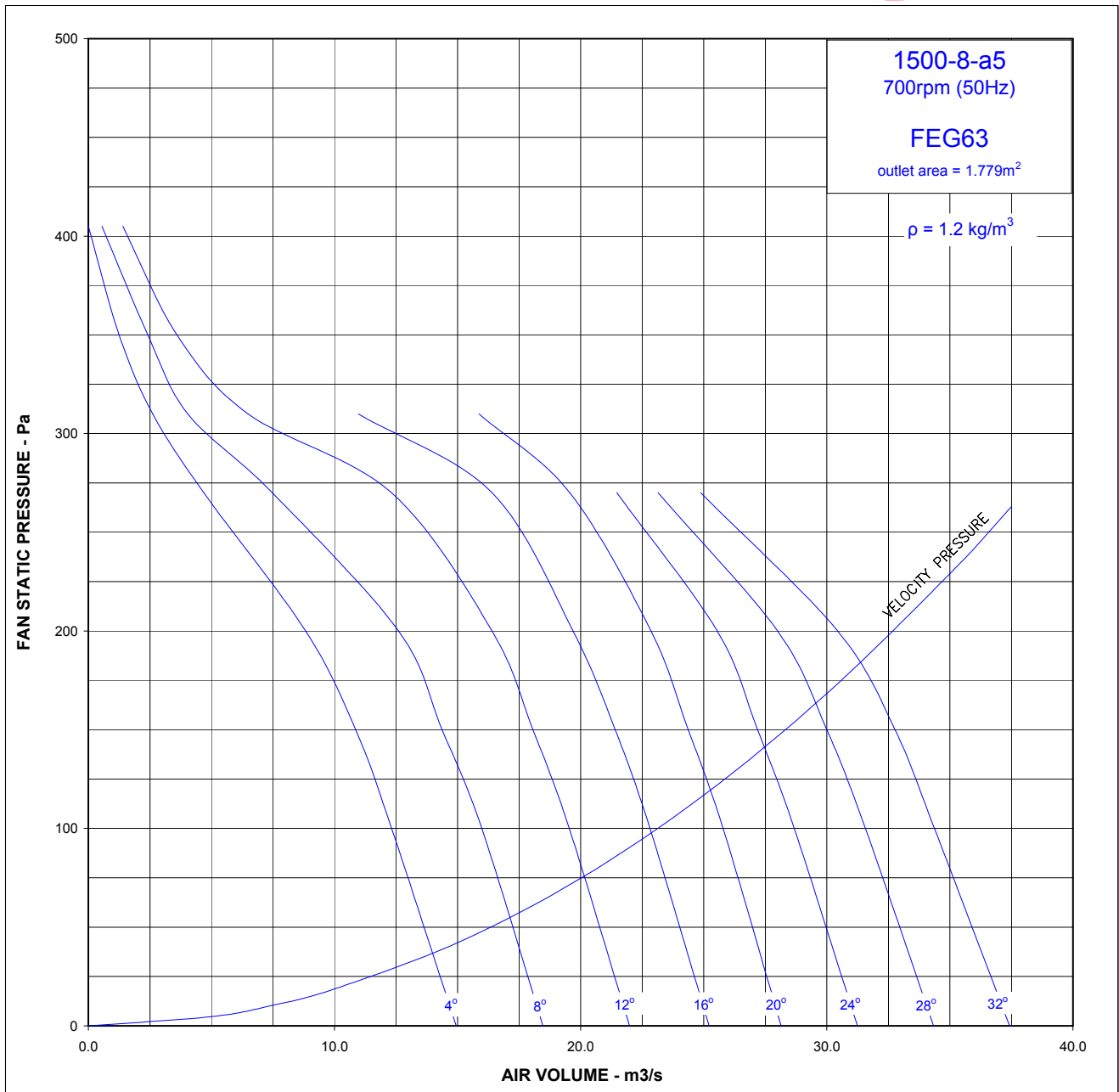
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	100	150	200	270	310	350	405			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	14.94	12.32	10.86	8.83	4.69	2.61	1.25	0.00	4.73	41	88	91	94	96	92	89	78	75	100	77
8°	18.47	15.99	14.37	12.60	7.47	4.04	2.42	0.55	6.08	48	90	92	93	94	91	88	78	76	100	75
12°	21.99	19.53	18.06	16.41	12.32	6.49	3.59	1.41	7.48	56	92	93	92	93	90	86	79	77	99	74
16°	25.22	22.81	21.41	19.69	16.41	10.97	-	-	9.38	58	94	94	91	91	89	85	80	78	100	73
20°	28.15	25.78	24.38	22.86	19.55	15.87	-	-	11.80	59	97	95	90	89	88	84	80	79	100	72
24°	31.24	28.67	27.19	25.55	21.47	-	-	-	14.73	56	100	97	92	90	88	84	80	80	103	73
28°	34.34	31.56	30.00	28.00	23.15	-	-	-	17.89	55	103	100	93	92	89	84	81	80	105	74
32°	37.43	34.38	32.77	30.44	24.87	-	-	-	21.23	55	106	102	94	93	90	84	81	81	108	75



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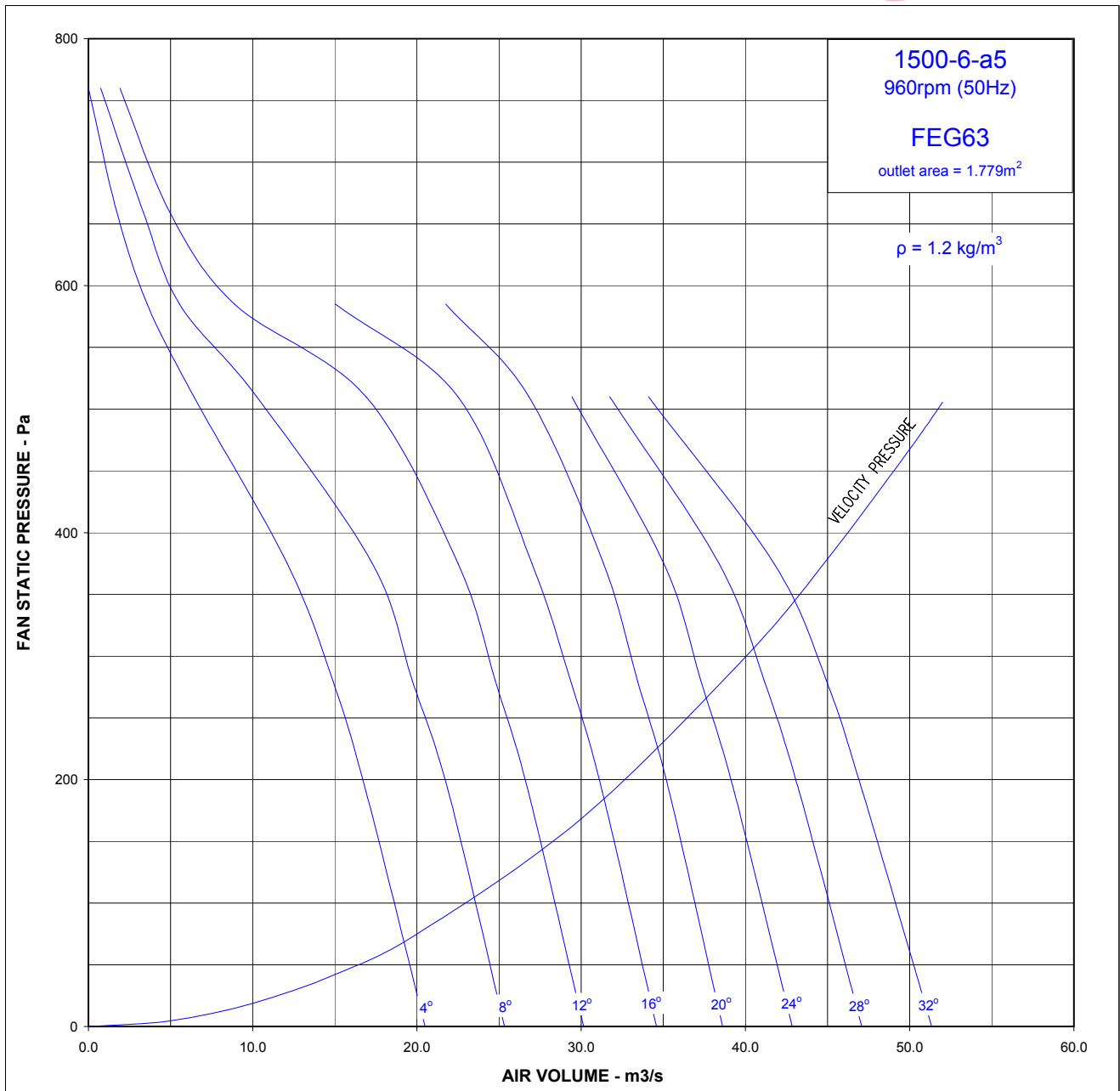
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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	190	280	375	510	585	660	760			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	20.49	16.90	14.89	12.11	6.43	3.58	1.71	0.00	12.20	41	93	96	100	102	101	98	89	83	107	84
8°	25.33	21.92	19.71	17.28	10.24	5.54	3.32	0.75	15.68	48	95	98	99	101	99	97	89	84	107	83
12°	30.16	26.79	24.77	22.50	16.90	8.90	4.93	1.93	19.29	56	98	101	99	100	98	95	89	85	107	82
16°	34.58	31.29	29.36	27.00	22.50	15.04	-	-	24.19	58	100	103	99	98	97	94	89	86	107	81
20°	38.61	35.36	33.43	31.35	26.82	21.76	-	-	30.45	59	102	105	99	97	95	92	89	87	108	80
24°	42.85	39.32	37.29	35.04	29.44	-	-	-	38.00	56	105	108	101	98	96	93	89	87	111	81
28°	47.09	43.29	41.14	38.40	31.74	-	-	-	46.15	55	108	111	103	99	97	93	89	87	114	82
32°	51.34	47.14	44.94	41.75	34.11	-	-	-	54.75	55	111	114	104	100	98	94	89	88	117	84



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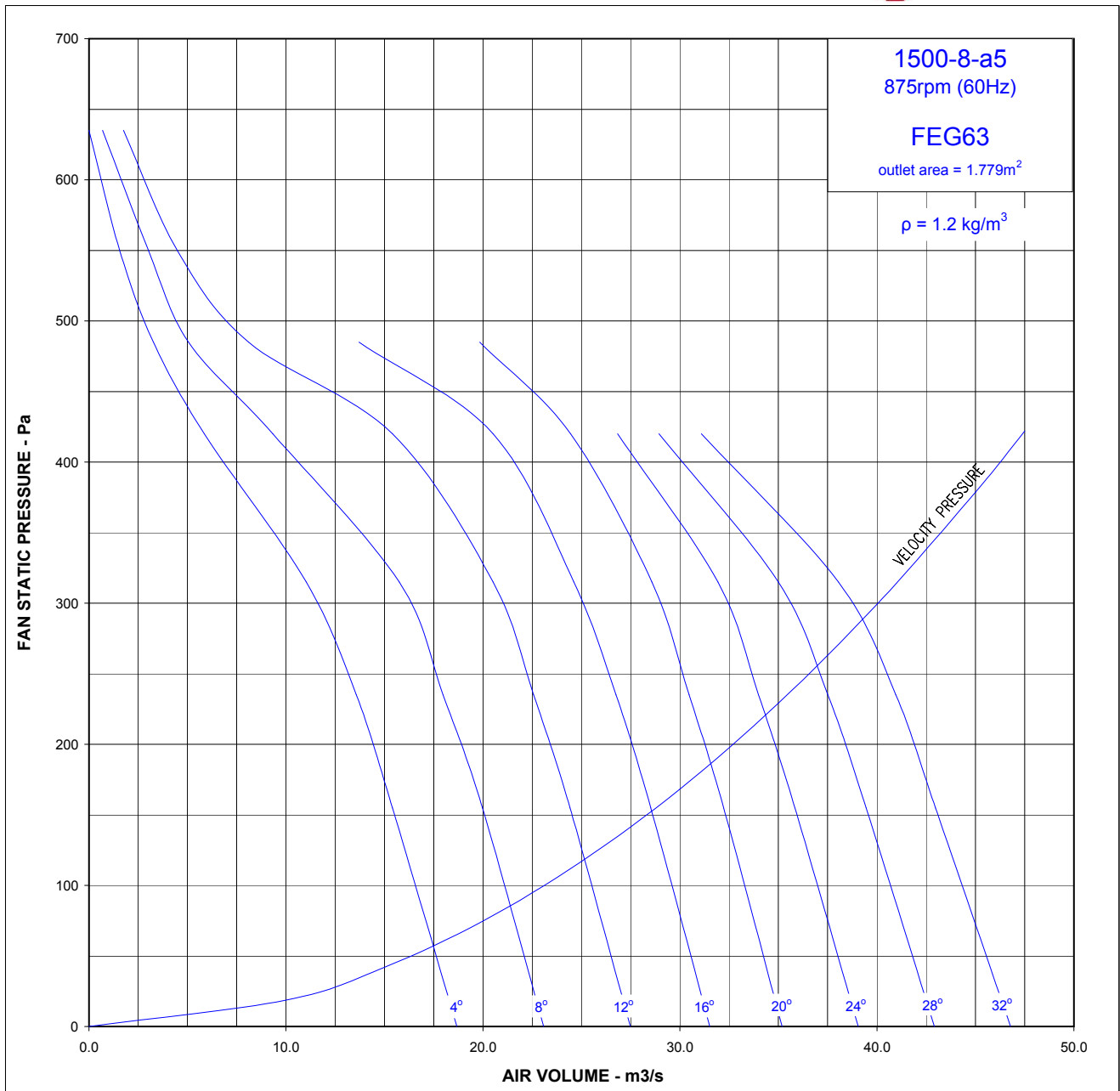
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*The AMCA Certified Ratings Seal applies to air performance and the Fan Efficiency Grade ratings only.

*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	155	235	315	420	485	550	635			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	18.68	15.40	13.57	11.04	5.86	3.27	1.56	0.00	9.24	41	91	94	98	100	98	95	86	81	105	82
8°	23.08	19.98	17.97	15.75	9.34	5.05	3.03	0.68	11.87	48	94	96	98	99	97	94	86	82	104	81
12°	27.49	24.41	22.58	20.51	15.40	8.11	4.49	1.76	14.61	56	96	98	97	97	96	92	86	83	104	80
16°	31.52	28.52	26.76	24.61	20.51	13.71	-	-	18.32	58	98	100	97	96	94	91	86	84	105	78
20°	35.19	32.23	30.47	28.57	24.44	19.83	-	-	23.05	59	101	102	97	94	93	90	86	84	106	78
24°	39.06	35.84	33.98	31.93	26.83	-	-	-	28.77	56	104	105	98	96	94	90	86	85	109	79
28°	42.92	39.45	37.50	35.00	28.93	-	-	-	34.95	55	107	108	100	97	95	91	87	85	111	80
32°	46.79	42.97	40.96	38.05	31.09	-	-	-	41.46	55	110	111	102	98	95	91	87	86	114	81



Airtrade System certifies that the model 1500-X-a5 shown herein is licensed to bear the AMCA Seal.

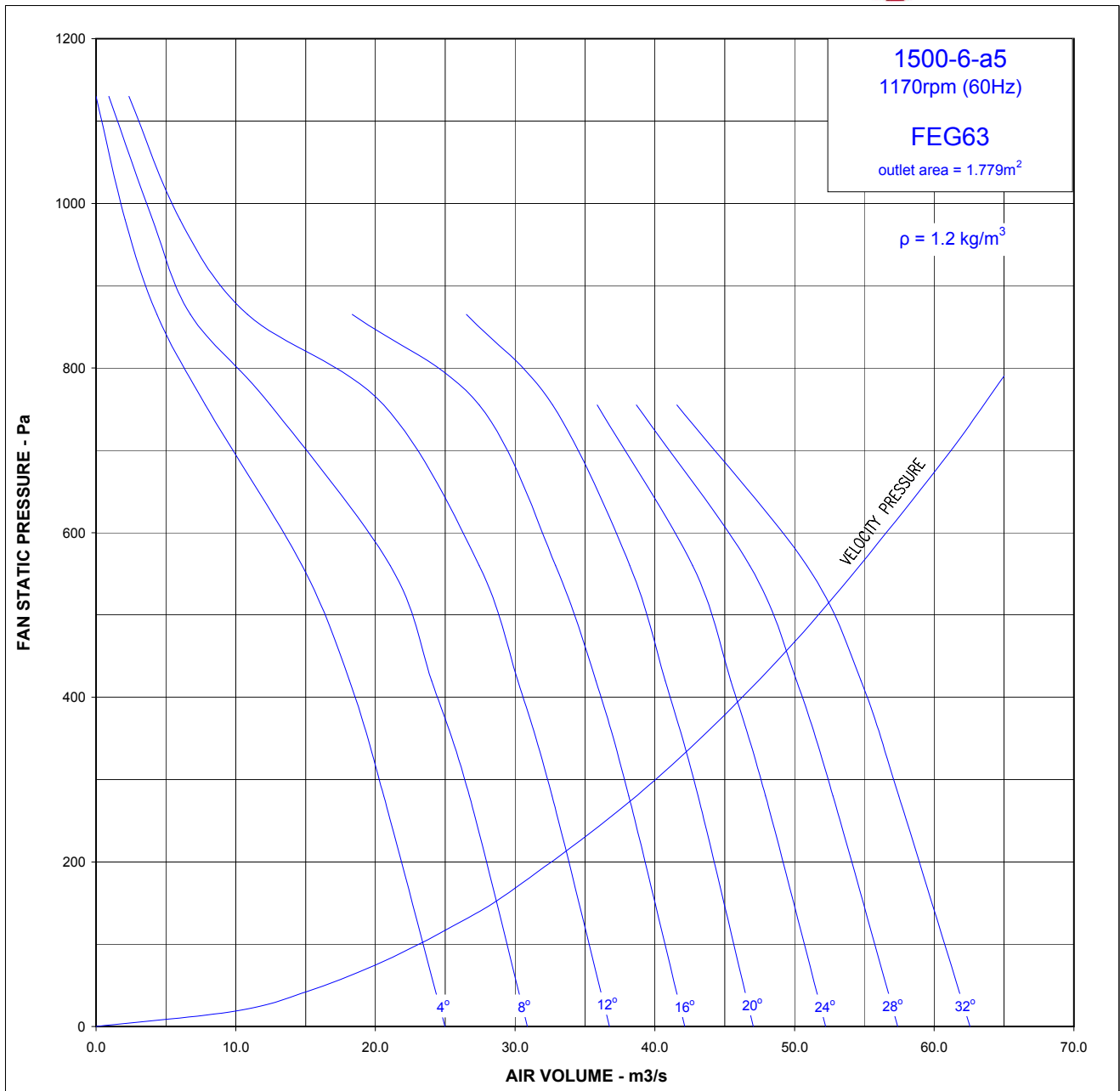
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*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	280	420	560	755	865	980	1130			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	24.98	20.59	18.15	14.76	7.83	4.37	2.09	0.00	22.09	41	96	99	103	106	106	103	97	88	111	89
8°	30.87	26.72	24.02	21.06	12.48	6.76	4.05	0.91	28.38	48	99	102	103	105	105	102	97	89	111	88
12°	36.75	32.64	30.19	27.42	20.59	10.84	6.01	2.35	34.92	56	101	104	104	104	103	100	96	90	111	87
16°	42.15	38.13	35.78	32.91	27.42	18.33	-	-	43.79	58	103	106	104	102	101	99	95	90	111	86
20°	47.05	43.09	40.74	38.21	32.68	26.52	-	-	55.12	59	106	109	105	101	100	98	94	91	112	85
24°	52.22	47.92	45.44	42.70	35.88	-	-	-	68.79	56	109	112	107	102	101	98	94	91	115	86
28°	57.39	52.76	50.14	46.80	38.69	-	-	-	83.55	55	112	115	109	104	102	99	94	92	118	87
32°	62.56	57.46	54.77	50.88	41.57	-	-	-	99.11	55	115	118	111	105	103	99	95	92	120	89



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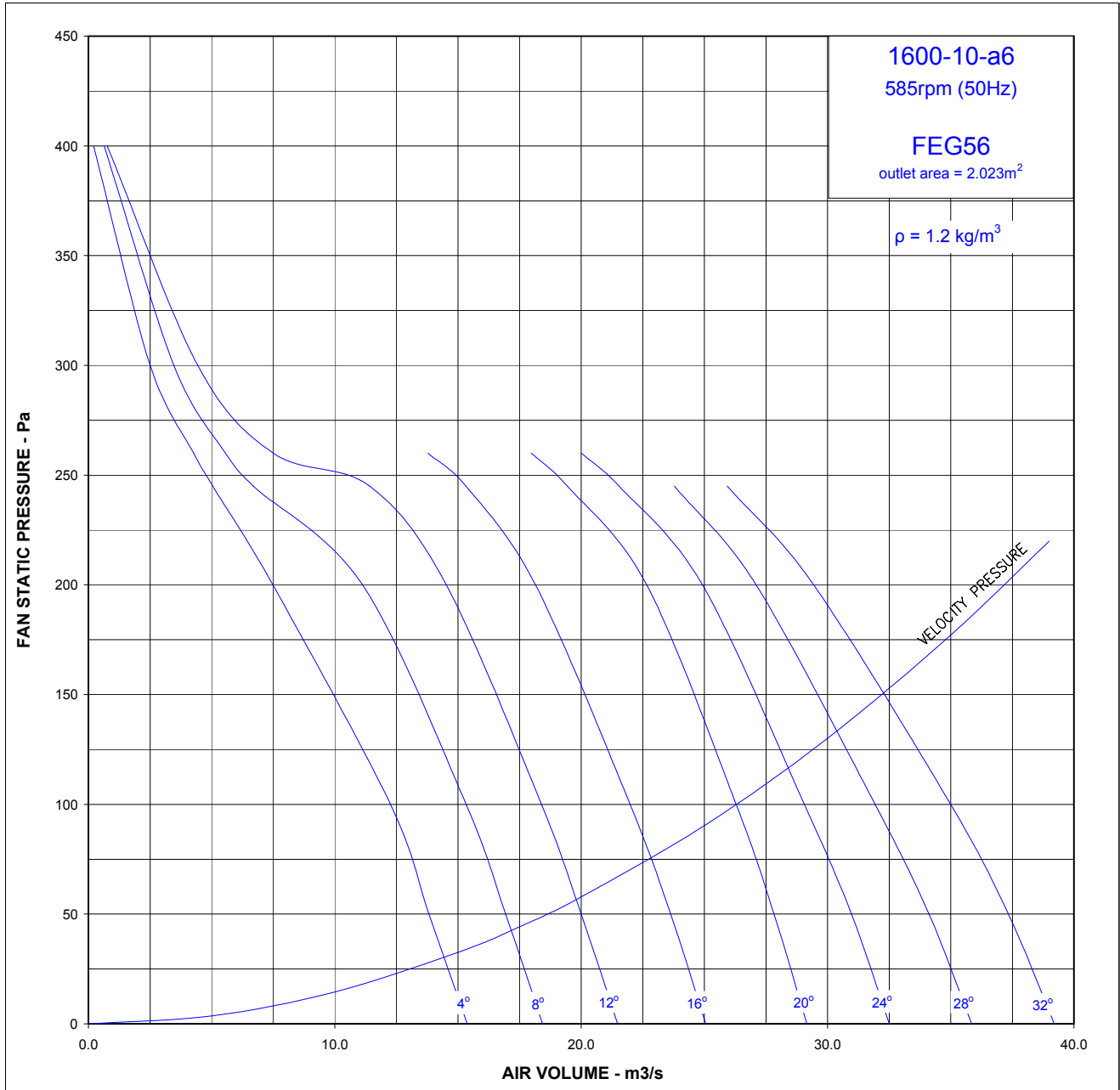
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*The AMCA Certified Ratings Seal applies to air performance and the Fan Efficiency Grade ratings only.

*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	50	100	200	245	260	300	400			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	15.38	13.82	12.26	7.49	5.05	4.27	2.50	0.21	4.3	39	87	90	94	93	91	86	74	73	99	75
8°	18.43	16.94	15.33	11.13	6.69	5.57	3.47	0.65	5.5	45	90	90	94	92	90	85	75	74	99	74
12°	21.48	20.00	18.39	14.53	11.41	7.50	4.44	0.76	6.7	50	94	91	93	91	89	83	75	75	99	73
16°	25.05	23.63	21.98	18.15	15.32	13.79	-	-	8.6	52	98	92	92	90	88	82	76	75	100	72
20°	29.16	27.82	26.29	22.66	19.44	17.98	-	-	11.3	55	101	93	92	89	87	80	76	76	103	71
24°	32.51	30.97	29.07	24.92	21.53	20.01	-	-	13.9	52	102	96	94	92	89	83	78	78	104	73
28°	35.85	34.11	31.94	27.10	23.79	-	-	-	16.6	51	103	100	96	95	91	85	81	80	106	76
32°	39.20	37.34	35.00	29.44	25.93	-	-	-	19.7	51	104	103	99	98	93	87	83	82	108	78



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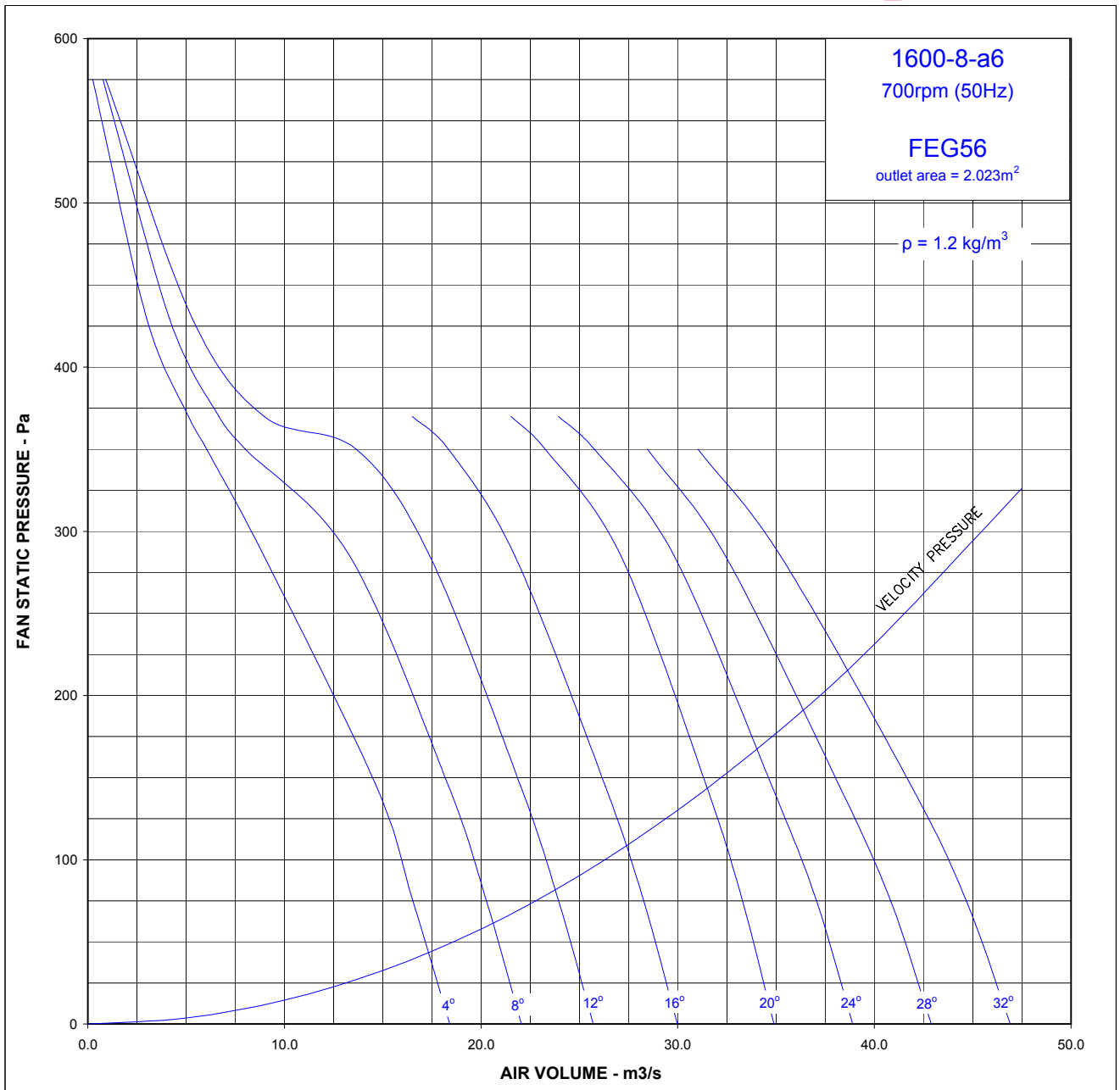
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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	75	145	285	350	370	430	575			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	18.40	16.53	14.67	8.96	6.04	5.11	2.99	0.25	7.4	39	90	93	97	98	96	91	81	78	103	79
8°	22.05	20.26	18.34	13.32	8.01	6.66	4.15	0.77	9.3	45	93	94	97	97	95	90	81	78	103	78
12°	25.70	23.93	22.00	17.38	13.65	8.97	5.31	0.91	11.5	50	97	95	97	96	94	89	81	79	103	77
16°	29.98	28.27	26.31	21.71	18.34	16.50	-	-	14.8	52	101	96	96	95	92	87	81	79	104	76
20°	34.89	33.29	31.46	27.12	23.26	21.52	-	-	19.4	55	105	96	96	94	91	86	81	80	106	76
24°	38.90	37.06	34.78	29.82	25.76	23.94	-	-	23.7	52	106	100	99	96	94	88	83	82	108	78
28°	42.90	40.82	38.21	32.42	28.47	-	-	-	28.5	51	107	103	101	99	96	91	86	84	110	80
32°	46.91	44.68	41.88	35.22	31.03	-	-	-	33.7	51	108	107	104	102	98	93	88	86	112	83



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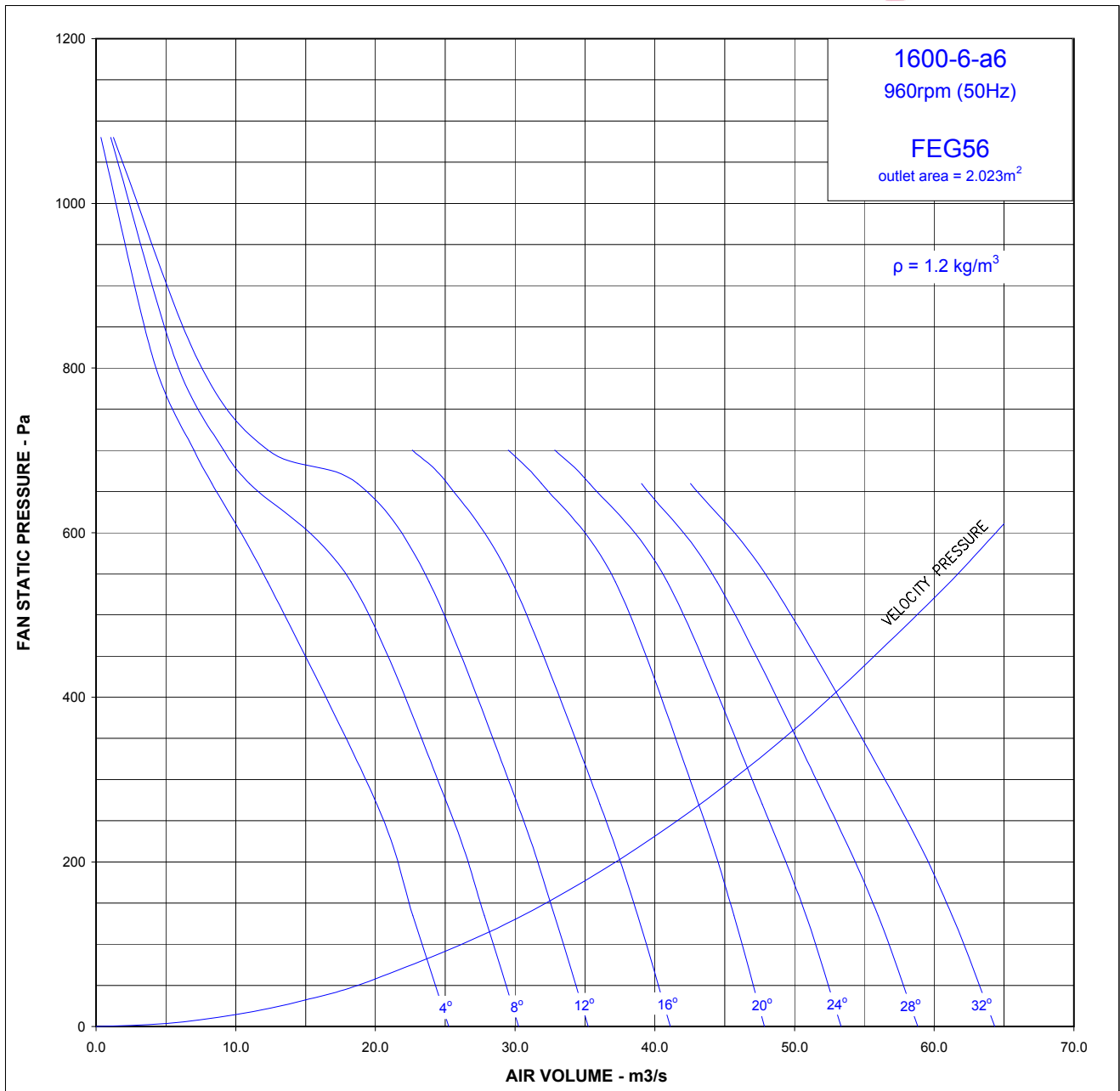
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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	135	270	540	660	700	810	1080			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	25.24	22.67	20.12	12.29	8.28	7.01	4.10	0.34	19.0	39	95	98	103	104	103	100	93	86	110	87
8°	30.25	27.79	25.16	18.26	10.99	9.13	5.69	1.06	24.1	45	99	100	102	104	102	99	92	86	109	86
12°	35.24	32.82	30.17	23.84	18.72	12.31	7.28	1.24	29.6	50	103	103	102	103	101	98	91	87	110	85
16°	41.11	38.78	36.08	29.78	25.15	22.63	-	-	38.2	52	107	105	102	102	100	97	91	87	111	84
20°	47.85	45.66	43.14	37.19	31.89	29.51	-	-	50.1	55	110	107	101	102	99	95	90	87	113	84
24°	53.34	50.82	47.70	40.89	35.33	32.83	-	-	61.2	52	111	109	104	104	102	98	92	90	115	86
28°	58.84	55.98	52.41	44.47	39.04	-	-	-	73.5	51	112	112	107	107	104	100	95	92	116	88
32°	64.33	61.27	57.44	48.30	42.55	-	-	-	87.0	51	113	114	109	110	107	102	97	94	118	91



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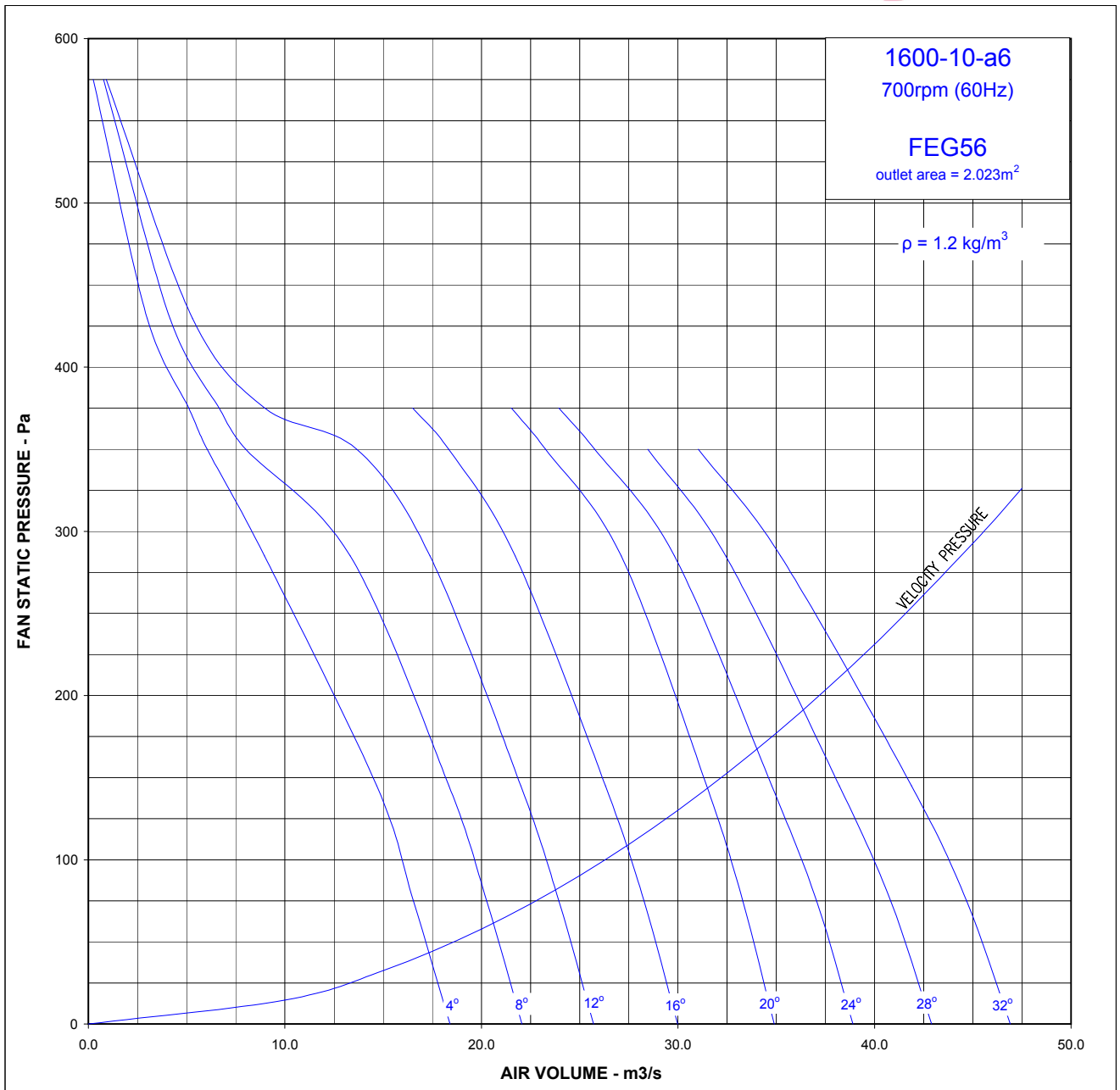
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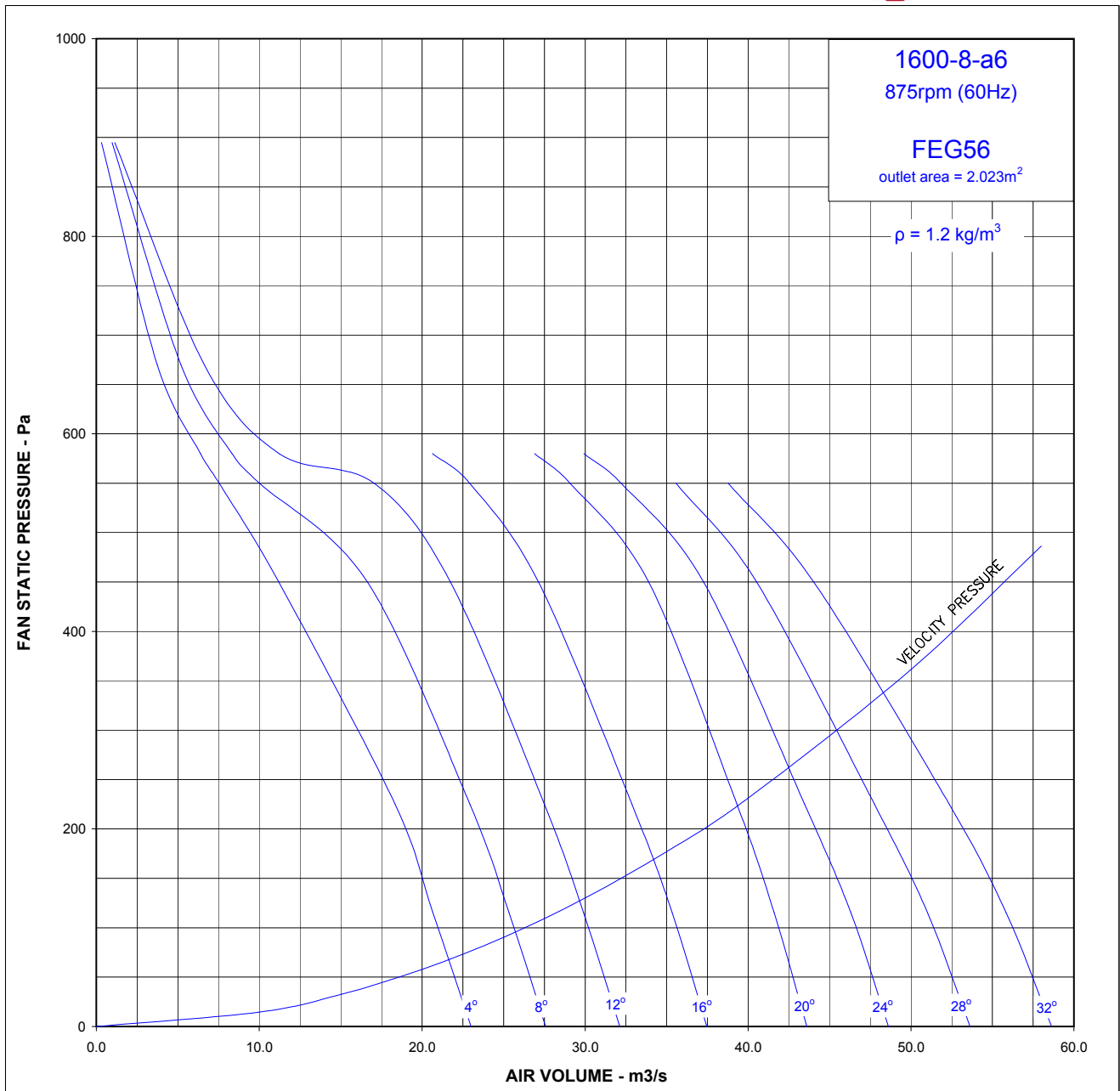


PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	75	145	285	350	375	430	575			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	18.40	16.53	14.67	8.96	6.04	5.11	2.99	0.25	7.4	39	90	93	97	98	96	91	81	78	103	79
8°	22.05	20.26	18.34	13.32	8.01	6.66	4.15	0.77	9.3	45	93	94	97	97	95	90	81	78	103	78
12°	25.70	23.93	22.00	17.38	13.65	8.97	5.31	0.91	11.5	50	97	95	96	96	93	89	81	79	103	77
16°	29.98	28.27	26.31	21.71	18.34	16.50	-	-	14.8	52	101	95	96	95	92	87	81	79	104	76
20°	34.89	33.29	31.46	27.12	23.26	21.52	-	-	19.4	55	104	96	96	94	91	86	81	80	106	76
24°	38.90	37.06	34.78	29.82	25.76	23.94	-	-	23.7	52	105	100	99	96	94	88	83	82	108	78
28°	42.90	40.82	38.21	32.42	28.47	-	-	-	28.5	51	106	103	101	99	96	91	86	84	110	80
32°	46.91	44.68	41.88	35.22	31.03	-	-	-	33.7	51	107	106	104	102	98	93	88	86	112	83



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PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	115	225	450	550	580	670	895			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	23.00	20.67	18.33	11.20	7.55	6.39	3.74	0.31	14.4	39	94	97	100	103	101	98	90	83	108	85
8°	27.57	25.33	22.93	16.65	10.01	8.32	5.19	0.96	18.2	45	97	99	100	102	100	97	89	83	107	84
12°	32.12	29.91	27.50	21.73	17.06	11.22	6.63	1.13	22.4	50	101	101	101	101	99	95	89	84	108	83
16°	37.47	35.34	32.88	27.14	22.92	20.63	-	-	28.9	52	105	103	101	100	98	94	88	84	109	82
20°	43.61	41.62	39.32	33.89	29.07	26.90	-	-	38.0	55	108	105	101	100	97	93	87	85	111	81
24°	48.62	46.32	43.47	37.27	32.21	29.93	-	-	46.4	52	109	107	104	102	99	95	90	87	113	84
28°	53.63	51.02	47.77	40.53	35.58	-	-	-	55.7	51	110	110	107	105	102	97	92	89	115	86
32°	58.63	55.85	52.35	44.03	38.78	-	-	-	65.8	51	111	112	110	107	104	100	94	91	117	89



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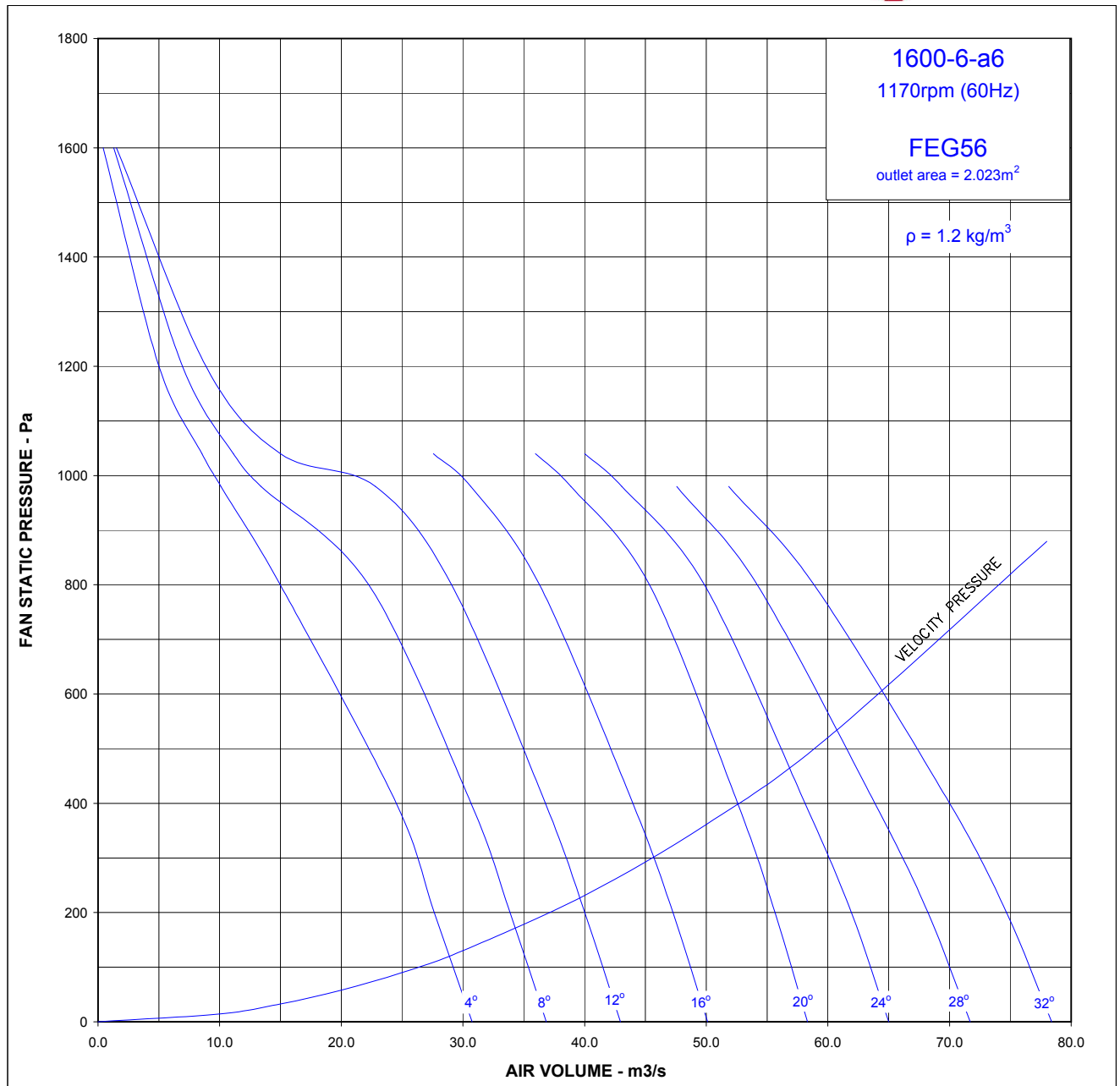
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	200	400	800	980	1040	1200	1600			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	30.76	27.63	24.52	14.97	10.10	8.55	5.00	0.42	34.4	39	99	102	105	110	108	106	101	89	114	92
8°	36.86	33.87	30.66	22.26	13.39	11.13	6.94	1.29	43.6	45	102	105	105	109	107	105	100	90	114	91
12°	42.95	40.00	36.77	29.06	22.82	15.00	8.87	1.52	53.5	50	106	109	106	108	106	104	98	90	115	90
16°	50.10	47.26	43.97	36.29	30.65	27.58	-	-	69.2	52	110	113	107	108	105	103	97	91	116	90
20°	58.32	55.65	52.58	45.32	38.87	35.97	-	-	90.8	55	113	116	108	107	104	102	95	91	119	89
24°	65.01	61.94	58.13	49.84	43.06	40.01	-	-	110.9	52	114	117	111	109	107	104	98	94	120	92
28°	71.71	68.23	63.87	54.19	47.58	-	-	-	133.1	51	115	118	114	112	110	106	100	96	122	94
32°	78.40	74.68	70.00	58.87	51.86	-	-	-	157.4	51	116	119	118	114	112	108	102	98	124	97



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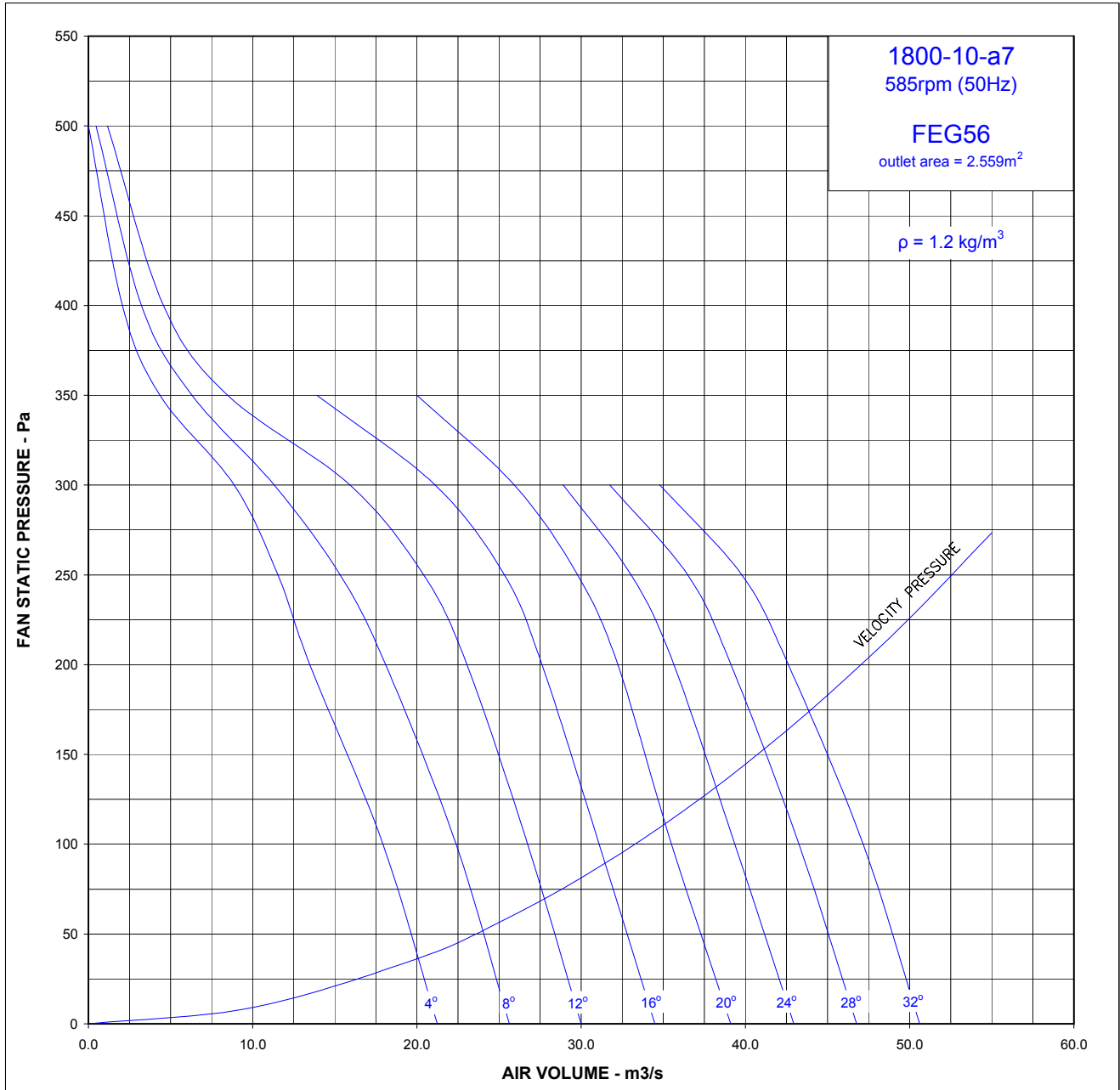
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*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	100	200	250	300	350	400	500			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	21.25	17.94	13.48	11.55	8.87	4.35	2.07	0.00	8.4	38	92	95	97	94	92	88	78	74	102	76
8°	25.62	22.39	18.09	15.33	11.30	6.30	3.24	0.46	10.4	40	95	98	97	94	92	89	79	75	103	76
12°	30.00	26.74	23.04	20.41	15.94	8.48	4.57	1.16	12.5	47	98	101	97	94	92	89	81	77	105	76
16°	34.49	31.09	27.61	25.33	21.12	13.91	-	-	15.3	51	101	104	97	93	92	90	82	78	107	77
20°	39.10	35.50	32.24	29.78	25.92	20.00	-	-	18.8	53	104	107	97	93	92	90	83	80	109	77
24°	42.94	39.35	35.65	33.04	28.91	-	-	-	23.3	50	105	108	98	93	92	89	83	80	110	78
28°	46.78	43.26	39.13	36.49	31.74	-	-	-	28.1	48	106	109	99	94	91	88	83	80	112	78
32°	50.61	47.17	42.61	39.78	34.78	-	-	-	33.2	48	108	111	100	94	91	87	82	79	113	79



Airtrade System certifies that the model 1800-X-a7 shown herein is licensed to bear the AMCA Seal.

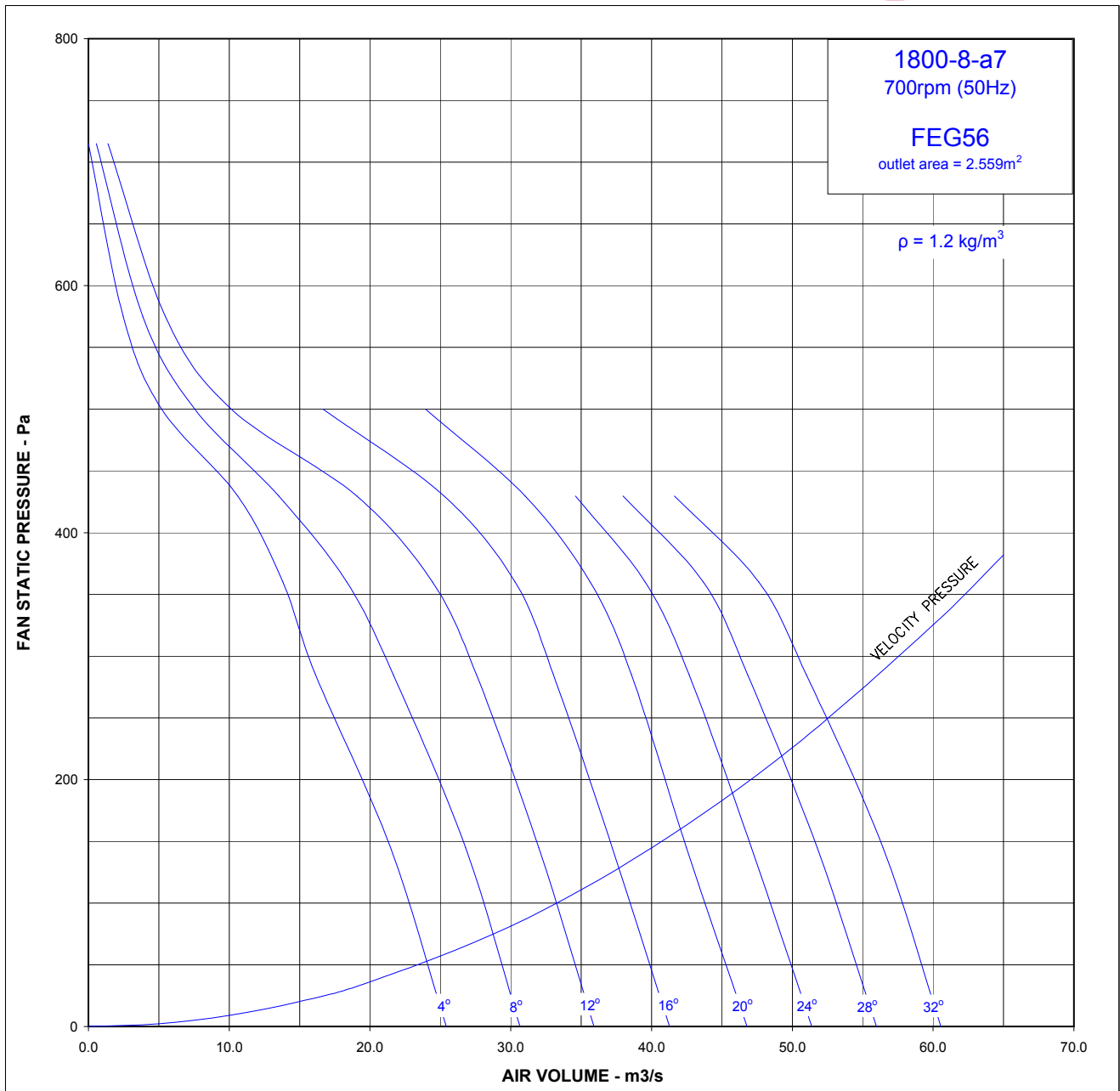
The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

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*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	145	285	360	430	500	575	715			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	25.42	21.46	16.13	13.82	10.61	5.20	2.47	0.00	14.3	38	95	98	101	99	96	93	84	79	106	81
8°	30.66	26.79	21.65	18.35	13.53	7.54	3.87	0.56	17.8	40	98	101	101	99	96	94	85	80	107	81
12°	35.90	32.00	27.57	24.43	19.07	10.14	5.46	1.39	21.5	47	101	104	102	98	96	94	87	82	108	81
16°	41.27	37.20	33.04	30.30	25.27	16.65	-	-	26.2	51	104	107	102	98	96	94	88	83	110	81
20°	46.79	42.48	38.58	35.64	31.02	23.93	-	-	32.2	53	107	110	103	98	96	95	89	85	113	82
24°	51.38	47.08	42.66	39.54	34.60	-	-	-	39.9	50	108	111	104	98	96	94	88	85	114	82
28°	55.97	51.77	46.82	43.66	37.98	-	-	-	48.1	48	109	113	105	99	96	93	88	84	115	83
32°	60.56	56.45	50.99	47.60	41.62	-	-	-	56.8	48	111	114	107	100	96	92	88	84	116	83



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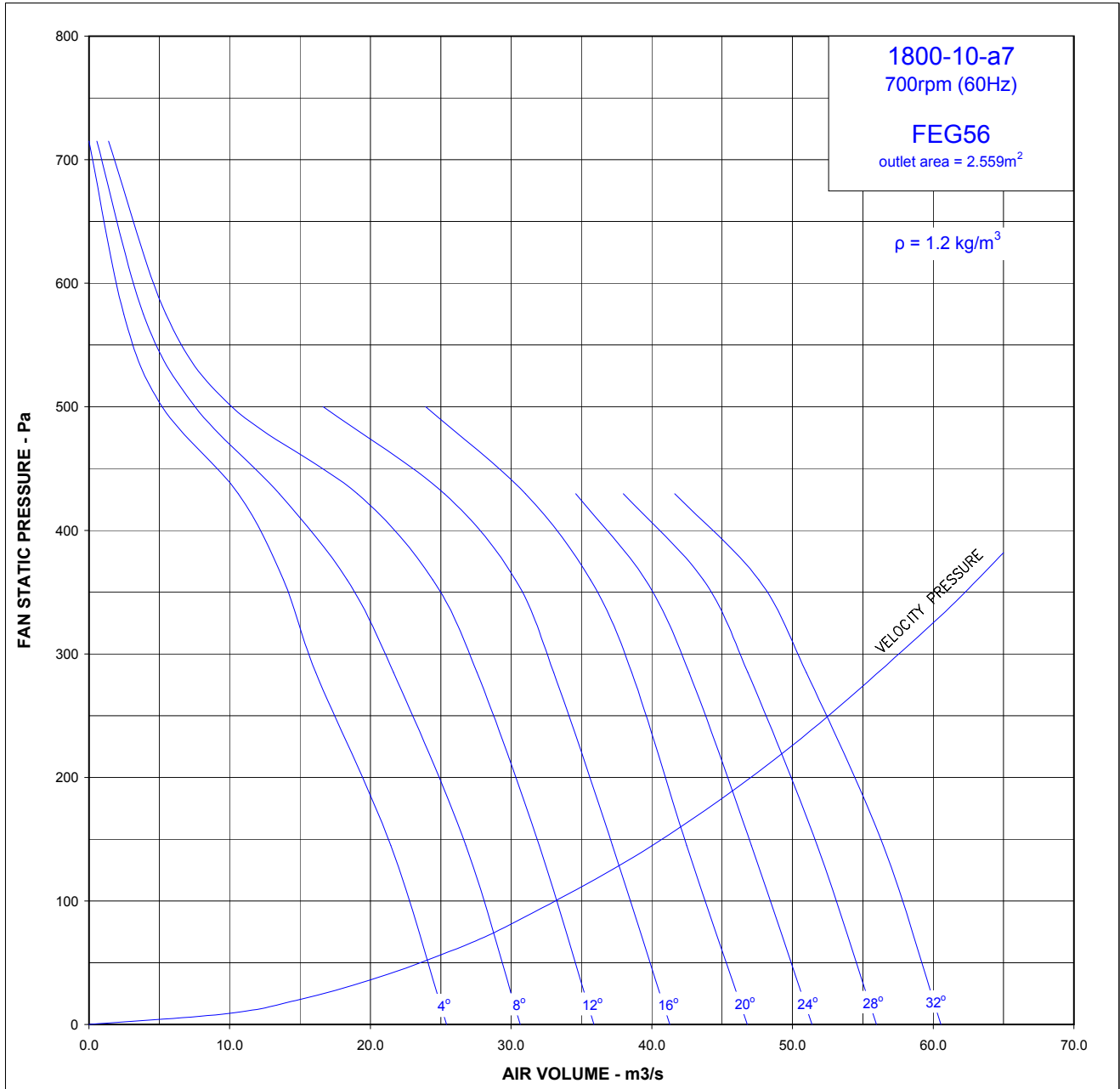
The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

*Performance certified for installation type D - Ducted inlet, Ducted outlet

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

*The AMCA Certified Ratings Seal applies to air performance and the Fan Efficiency Grade ratings only.

*Sound ratings shown are based on tests and procedures performed in accordance with AMCA Standard 300 and 301.



PITCH ANGLE	PERFORMANCE m3/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	145	285	360	430	500	575	715			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	25.42	21.46	16.13	13.82	10.61	5.20	2.47	0.00	14.3	38	95	98	101	99	96	93	84	79	106	81
8°	30.66	26.79	21.65	18.35	13.53	7.54	3.87	0.56	17.8	40	98	101	101	99	96	93	86	80	107	81
12°	35.90	32.00	27.57	24.43	19.07	10.14	5.46	1.39	21.5	47	101	104	102	98	96	94	87	82	108	81
16°	41.27	37.20	33.04	30.30	25.27	16.65	-	-	26.2	51	104	107	103	98	96	94	88	83	110	81
20°	46.79	42.48	38.58	35.64	31.02	23.93	-	-	32.2	53	107	110	103	98	96	95	89	85	113	82
24°	51.38	47.08	42.66	39.54	34.60	-	-	-	39.9	50	108	111	104	99	96	94	88	85	114	82
28°	55.97	51.77	46.82	43.66	37.98	-	-	-	48.1	48	109	113	106	99	96	93	88	84	115	83
32°	60.56	56.45	50.99	47.60	41.62	-	-	-	56.8	48	111	114	107	100	96	92	88	84	116	84



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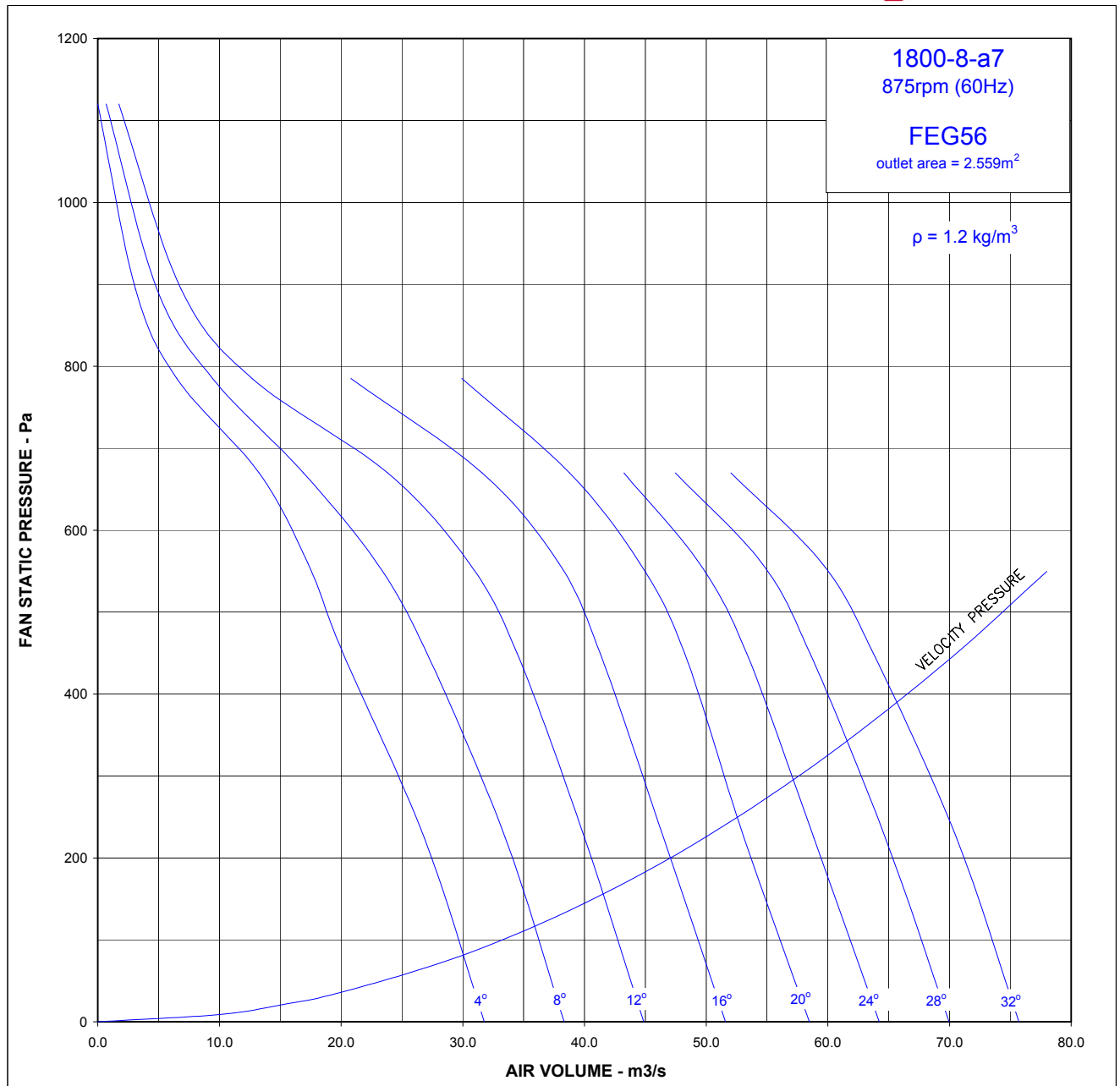
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PITCH ANGLE	PERFORMANCE m³/s @ STATIC Pa								Max kW	TOTAL EFF. (%)	SOUND POWER DATA (dB)									
	0	225	450	560	670	785	895	1120			63Hz	125Hz	250Hz	500Hz	1.0KHz	2.0KHz	4.0KHz	8.0KHz	Overall Sound Power Level (Lw)	Sound Pressure Level @3m Q1 Directivity (dBA)
4°	31.78	26.83	20.16	17.27	13.27	6.50	3.09	0.00	28.0	38	99	102	105	105	102	99	93	85	110	86
8°	38.33	33.49	27.06	22.93	16.91	9.43	4.84	0.69	34.8	40	102	105	106	105	102	99	93	86	112	86
12°	44.87	39.99	34.47	30.53	23.83	12.68	6.83	1.74	42.0	47	105	108	108	104	102	100	94	88	113	87
16°	51.59	46.50	41.30	37.88	31.58	20.81	-	-	51.1	51	108	111	110	104	101	100	95	89	115	87
20°	58.49	53.10	48.22	44.55	38.77	29.91	-	-	62.9	53	111	114	111	104	101	100	96	91	117	88
24°	64.23	58.85	53.33	49.42	43.25	-	-	-	77.9	50	112	115	113	105	101	99	95	90	119	89
28°	69.96	64.71	58.53	54.58	47.47	-	-	-	94.0	48	113	116	114	106	102	99	95	90	120	89
32°	75.70	70.56	63.73	59.50	52.03	-	-	-	111.0	48	115	118	115	107	102	98	94	90	121	90



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