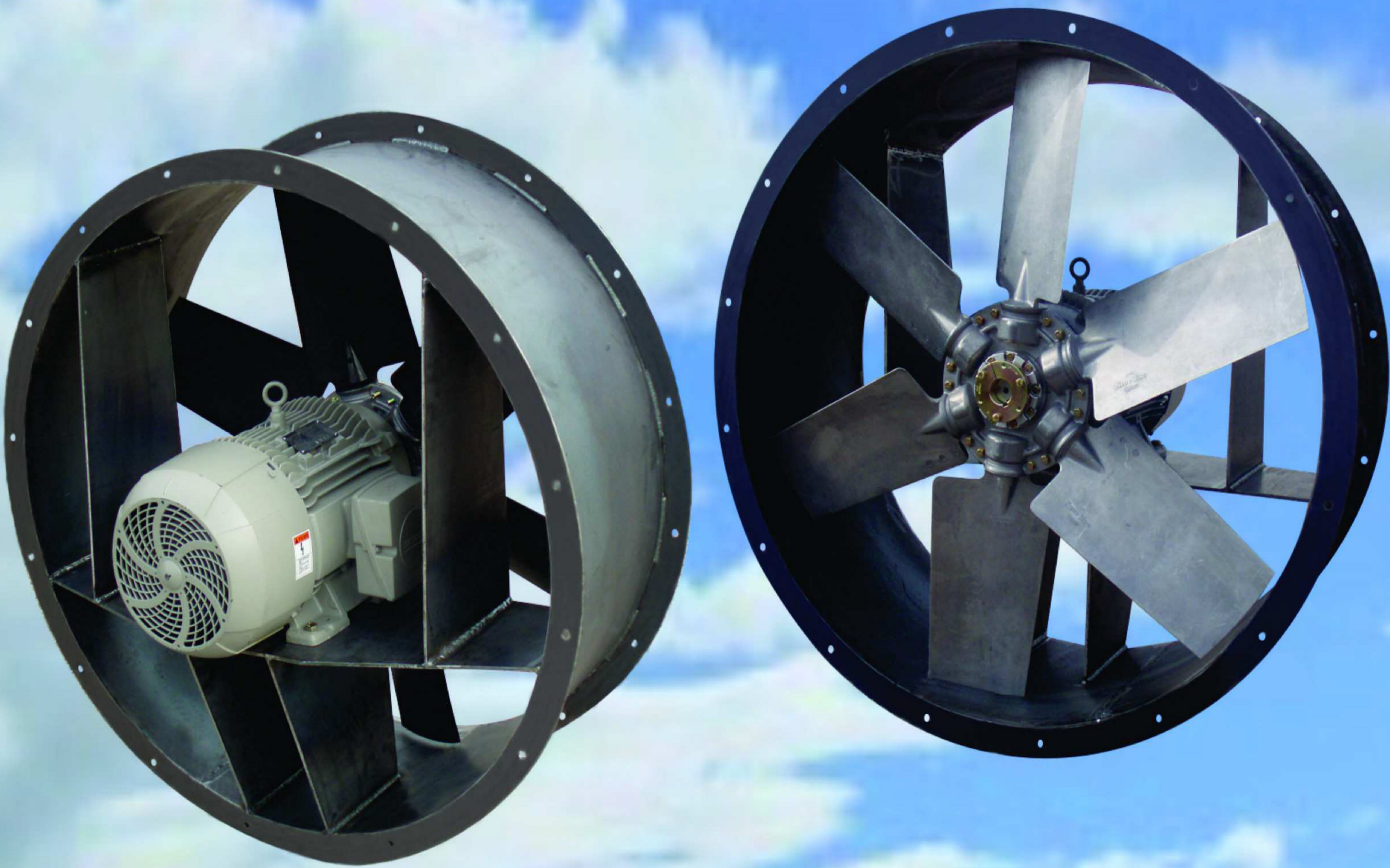




TWPI/A

AERO VENTILADORES TUBO AXIALES ATC
ACOPLAMIENTO DIRECTO
HELICE EN ANGULO VARIABLE



AERO EXTRACTOR – INYECTOR TUBULAR

ACOPLAMIENTO DIRECTO DE ALTA EFICIENCIA

HELICE DE ANGULO VARIABLE DE 42" Y 48" DE DIÁMETRO

La serie TWP/A de Aero Extractores – Inyectores Tubulares Mca. ATC de acoplamiento directo, ha sido específicamente desarrollada para aplicaciones industriales, en donde la combinación de cantidades de alabes en una hélice con ángulo de inclinación variable y diferentes revoluciones por minuto del motor (polos) permite obtener la gama de ventiladores mas eficientes con el rango mas completo de caudales-presiones en el mercado.

Características principales:

- Carcaza tubular fabricada en placa de acero rolado en caliente, totalmente soldada, con acabado en pintura poliéster en polvo horneada.
- Hélice de aluminio inyectado o polipropileno reforzado con fibra de vidrio de 42" y 48" de diámetro en 3 y 6 alabes con ángulo de inclinación variable, balanceada dinámicamente, anti-chispa, altamente resistente a la corrosión.
- Accionado por acoplamiento directo a los motores eléctricos trifásicos de alta eficiencia en 4 y 6 polos, totalmente cerrados con ventilación exterior, diseñados bajo especificaciones NEMA con protección IP55 y aislamiento clase F.



Aplicaciones:

Presurización en procesos industriales, ventilación en minas, túneles, chimeneas, estacionamientos subterráneos, cabinas de pintura, torres de enfriamiento, etc.

NOMENCLATURA:

TWP / A - 4 - 48 - 6 / 23°

1 2 3 4 5 6

1. Modelo
2. Tipo de Hélice
P: Plástico
A: Aluminio
3. No. De Polos del Motor

4. Diámetro de hélice en pulgadas
5. No. de alabes de la hélice
6. Grado de inclinación de las alabes.



ATC INDUSTRIAL DIRECT DRIVE TUBE AXIAL FANS

HIGH EFFICIENCY VARIABLE PITCH BLADES
42" AND 48" DIAMETERS

The TWP/A series are heavy duty tubular supply and exhaust fans designed for industrial applications, where the combination of the quantities of blades, variable pitch angles and different motor RPM generates a wide range of top performance fans with high air volumes and pressure in today's market.

Construction Features:

- The fan casing is made of heavy gauge all welded steel construction with a corrosion resistant electrostatically applied polyester powder coating finish.
- The high performance non spark die cast aluminum or polypropylene reinforced fiberglass fan blades are available in 42" and 48" diameters with 3 and 6 blades in adjustable pitch angles.
- All heavy duty motors are totally enclosed fan cooled (TEFC) and are manufactured in cast aluminum or cast iron with IP55 protection and class F insulation in 4 and 6 poles.

Applications:

Pressurization in industrial processes, ventilation in mining industries, tunnels, chimneys, indoor parking lots, painting booths, cooling towers, etc.

NOMENCLATURE:

1. Model
2. Type of Fan Blade
P: Plastic
A: Aluminum
3. No. of motor poles

TWP / A - 4 - 48 - 6 / 23°

1
2
3
4
5
6

4. Fan blade diameter in inches
5. No. of blades
6. Pitch degree angle.

ESPECIFICACIONES TÉCNICAS (PERFORMANCE DATA)

MODELO (MODEL)	CAUDAL@ 0" C.A.		POTENCIA	VELOCIDAD MOTOR	AMPERAJE MAX		NIVEL SONORO *	PESO APROX. **	
	VOLUME@ 0" W.G.		POWER (HP)	MOTOR SPEED (RPM)	MAX CURRENT (A)			ESTIMATED WEIGHT **	LB
	CFM	M ³ /HR			220V	440V	SOUND PRESSURE LEVEL dB (A) *		
TWP/A-4-42-3/21°	29,800	50,630	7.5	1725	23	11.5	78	385	175
TWP/A-4-42-3/24°	34,500	58,616	10	1725	28	14	81	392	178
TWP/A-4-42-3/29°	42,700	72,547	15	1725	42	21	85	498	226
TWP/A-4-42-3/33°	47,800	81,212	20	1725	54	27	88	531	241
TWP/A-4-42-6/20°	29,400	49,951	10	1725	28	14	77	409	186
TWP/A-4-42-6/25°	38,200	64,902	15	1725	42	21	83	515	234
TWP/A-4-42-6/29°	45,100	76,625	20	1725	54	27	87	548	249
TWP/A-4-42-6/31°	48,500	82,402	25	1725	64	32	89	691	314
TWP/A-4-42-6/34°	53,300	90,557	30	1725	78	39	90	735	334
TWP/A-4-48-3/22°	44,800	76,115	15	1725	42	21	82	553	251
TWP/A-4-48-3/25°	51,900	88,178	20	1725	54	27	85	586	266
TWP/A-4-48-3/27°	56,900	96,673	25	1725	64	32	87	729	331
TWP/A-4-48-3/30°	64,500	109,586	30	1725	78	39	90	773	351
TWP/A-4-48-3/34°	71,000	120,629	40	1725	104	52	92	883	401
TWP/A-4-48-3/37°	75,800	128,784	50	1725	126	63	93	905	411
TWP/A-4-48-6/20°	42,000	71,358	20	1725	54	27	80	603	274
TWP/A-4-48-6/23°	49,600	84,270	25	1725	64	32	84	746	339
TWP/A-4-48-6/25°	54,800	93,105	30	1725	78	39	86	790	359
TWP/A-4-48-6/29°	65,000	110,435	40	1725	104	52	90	900	409
TWP/A-4-48-6/32°	72,400	123,008	50	1725	126	63	92	922	419
TWP/A-6-42-3/20°	18,800	31,941	2	1150	7	3.5	68	321	146
TWP/A-6-42-3/24°	23,000	39,077	3	1150	9	4.5	72	354	161
TWP/A-6-42-3/30°	29,600	50,290	5	1150	14	7	77	395	180
TWP/A-6-42-3/36°	34,100	57,936	7.5	1150	20	10	81	489	222
TWP/A-6-42-6/20°	19,600	33,300	3	1150	9	4.5	69	371	169
TWP/A-6-42-6/26°	26,600	45,193	5	1150	14	7	75	412	187
TWP/A-6-42-6/31°	32,300	54,878	7.5	1150	20	10	80	506	230
TWP/A-6-42-6/35°	36,600	62,183	10	1150	28	14	82	540	245
TWP/A-6-48-3/20°	26,700	45,363	5	1150	14	7	71	450	205
TWP/A-6-48-3/23°	31,400	53,349	5	1150	14	7	74	450	205
TWP/A-6-48-3/27°	38,000	64,562	7.5	1150	20	10	78	544	247
TWP/A-6-48-3/31°	44,100	74,926	10	1150	28	14	81	578	263
TWP/A-6-48-3/37°	50,600	85,969	15	1150	40	20	84	608	276
TWP/A-6-48-6/23°	33,100	56,237	7.5	1150	20	10	75	561	255
TWP/A-6-48-6/27°	39,900	67,790	10	1150	28	14	79	595	270
TWP/A-6-48-6/32°	48,300	82,062	15	1150	40	20	84	625	284
TWP/A-6-48-6/36°	54,700	92,935	20	1150	52	26	86	768	349
TWP/A-6-48-6/39°	59,600	101,260	25	1150	64	32	88	865	393
TWP/A-6-48-6/42°	64,300	109,246	30	1150	78	39	90	933	424

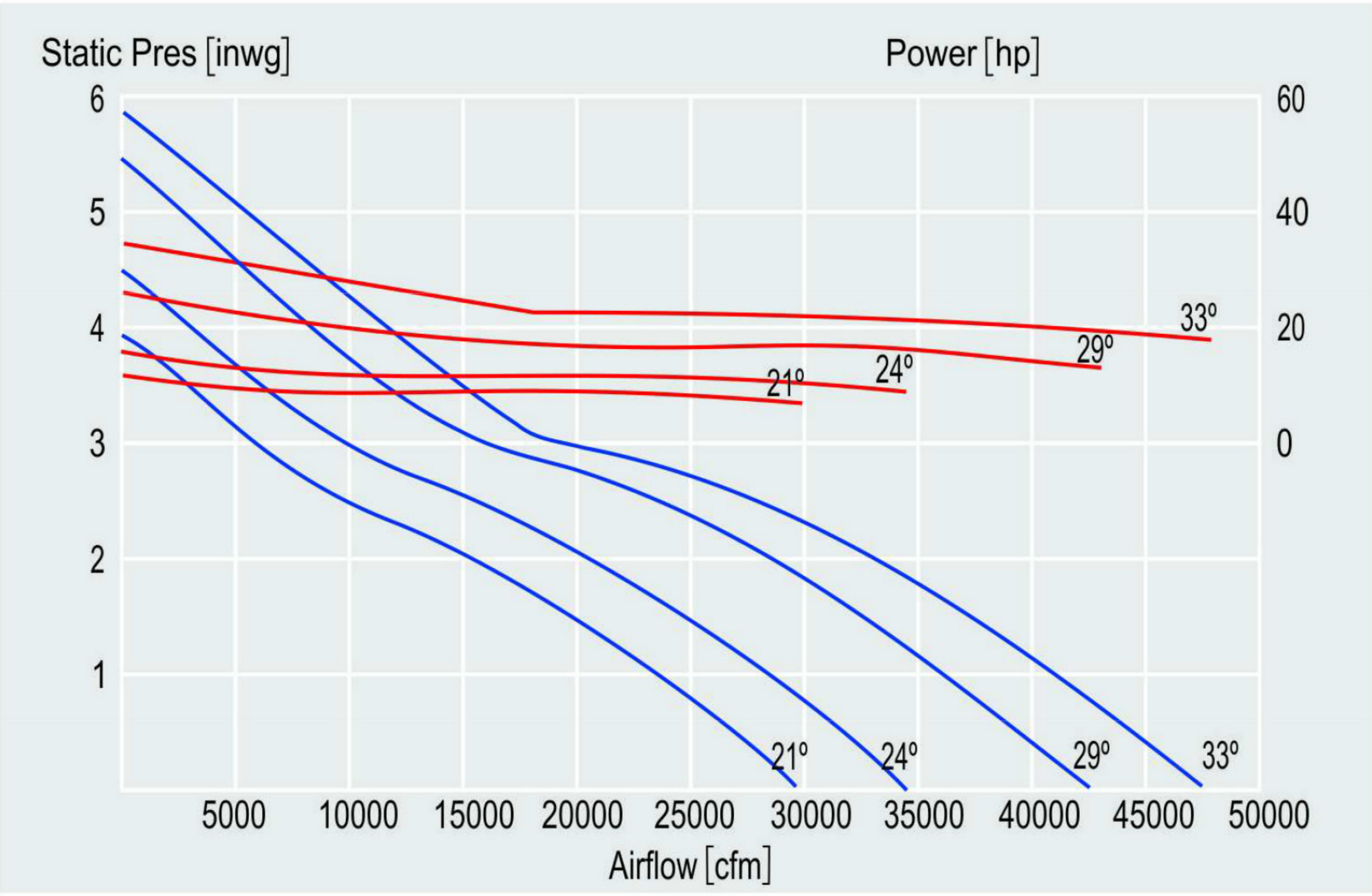
* Nivel Sonoro calculado a 1.5 mt. (5 pies) de la fuente en un campo hemisférico libre según AMCA standar 301.

* Sound Pressure measured in a free field with 1/2 spherical propagation at a distance of 1.5 meter (5 feet) from the source according to AMCA Standard 301.

** El peso indicado en la tabla superior es para ventiladores con hélice de aluminio; para hélice de plástico en 3 y 6 alabes, reduzca el peso en 13Lb (6 Kg) y 16 Lb (7.4 Kg) respectivamente.

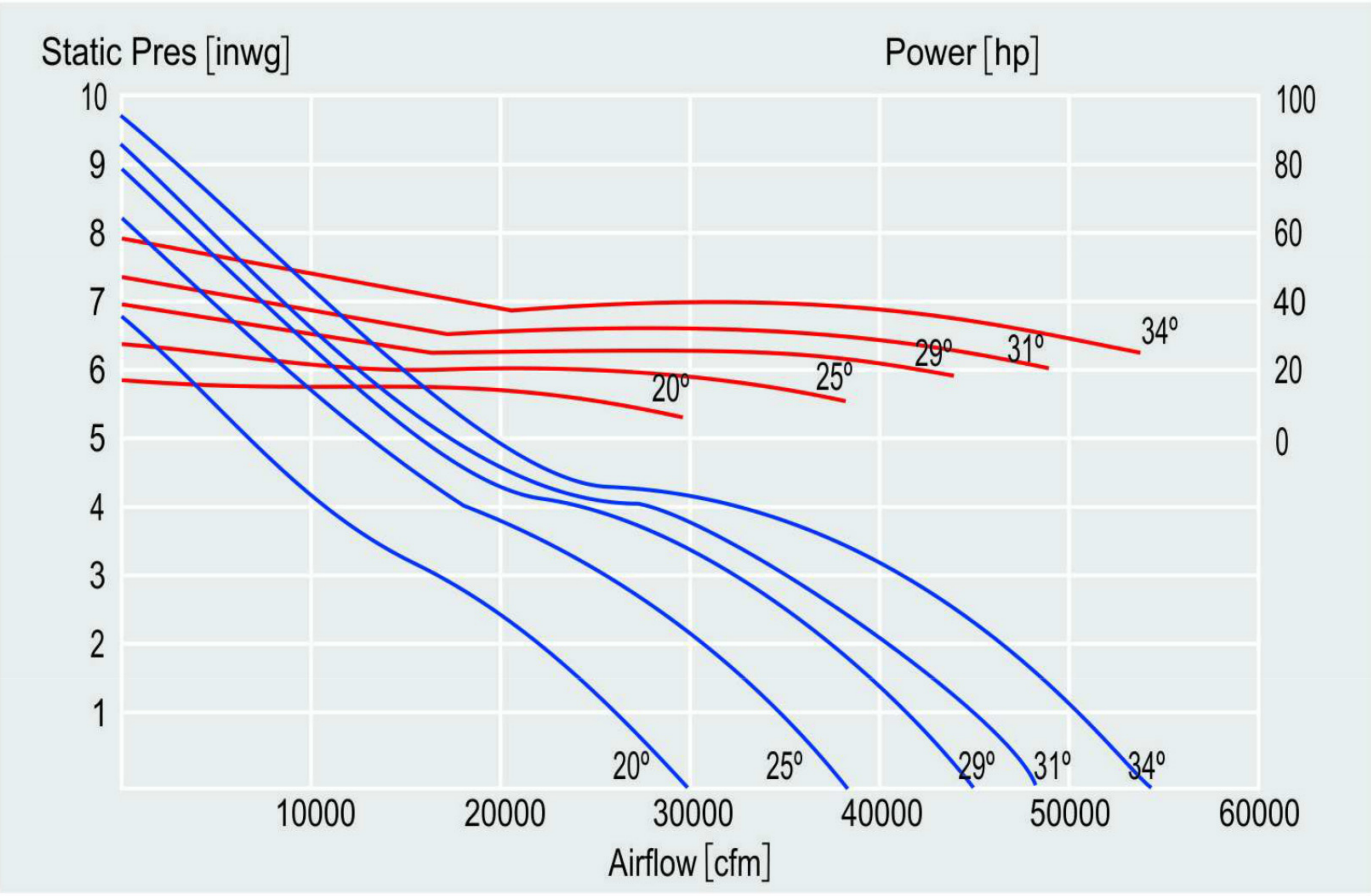
** The weight shown in the above table is for fans with aluminium blades; for 3 & 6 plastics blades, reduce the fan weight by 13Lb (6 Kg) and 16 Lb (7.4 Kg) respectively.

TWP/A-42 4 POLOS 3 ALABES



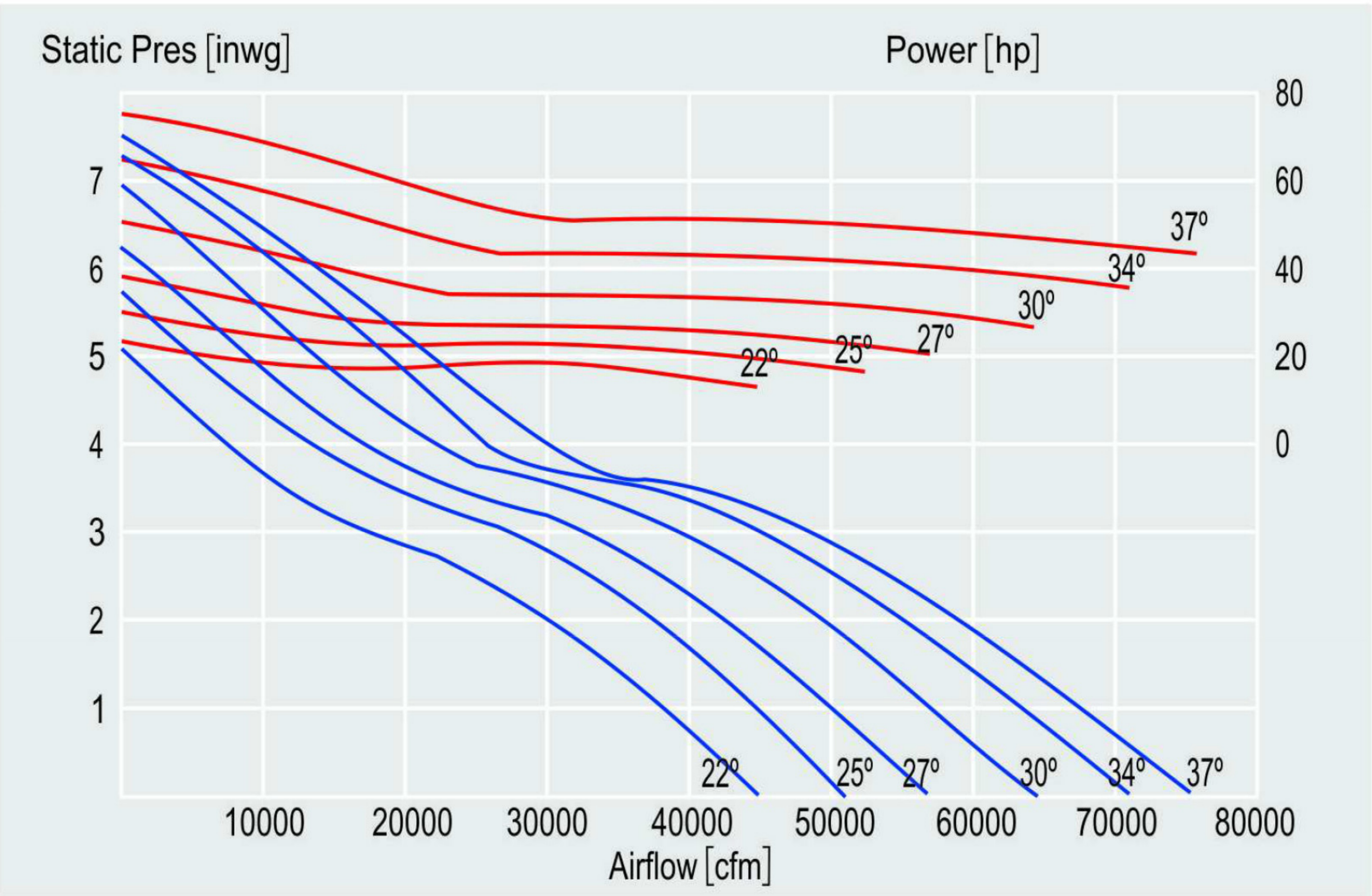
TWP/A-42 4 POLES 3 BLADES

TWP/A-42 4 POLOS 6 ALABES



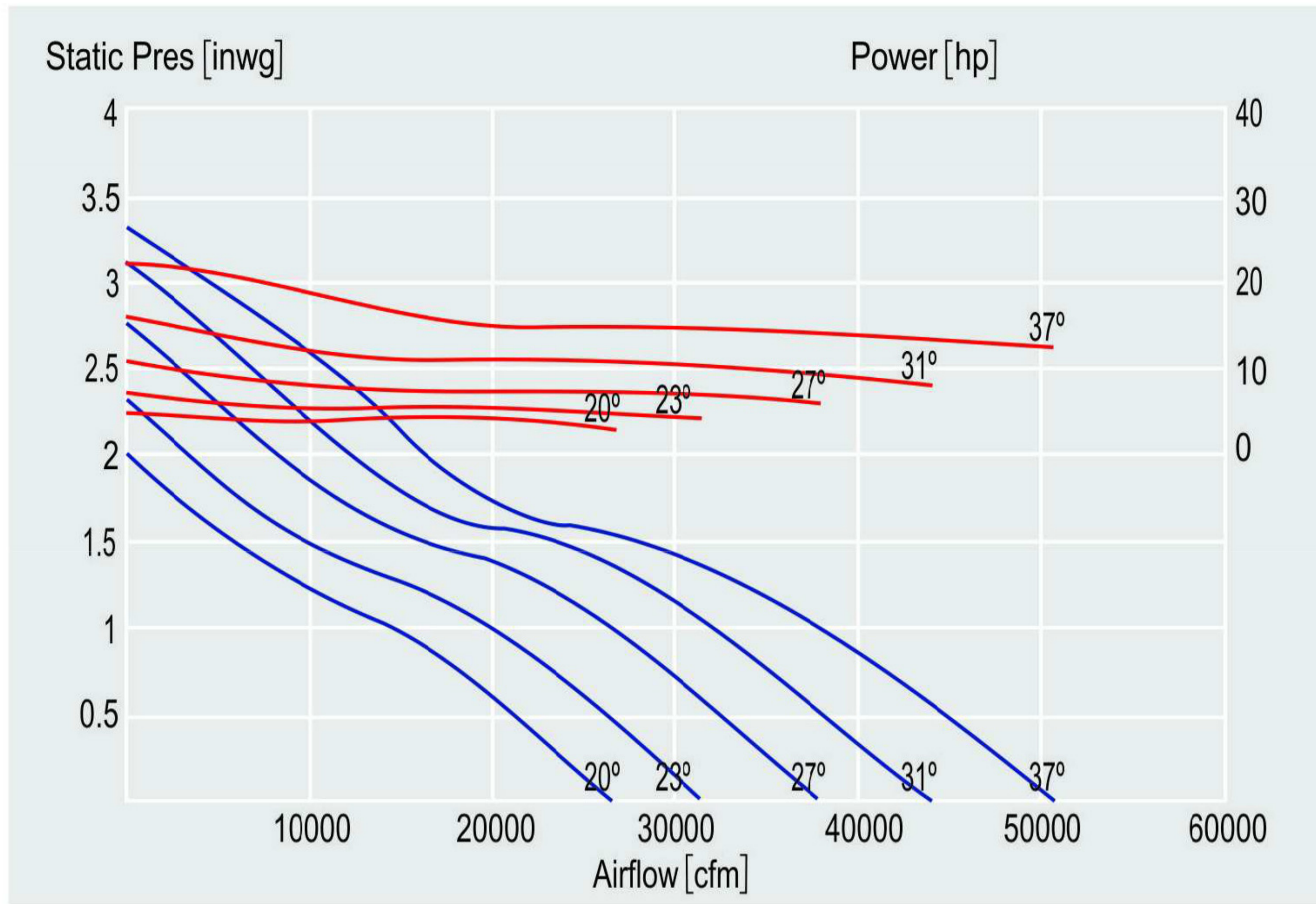
TWP/A-42 4 POLES 6 BLADES

TWP/A-48 4 POLOS 3 ALABES



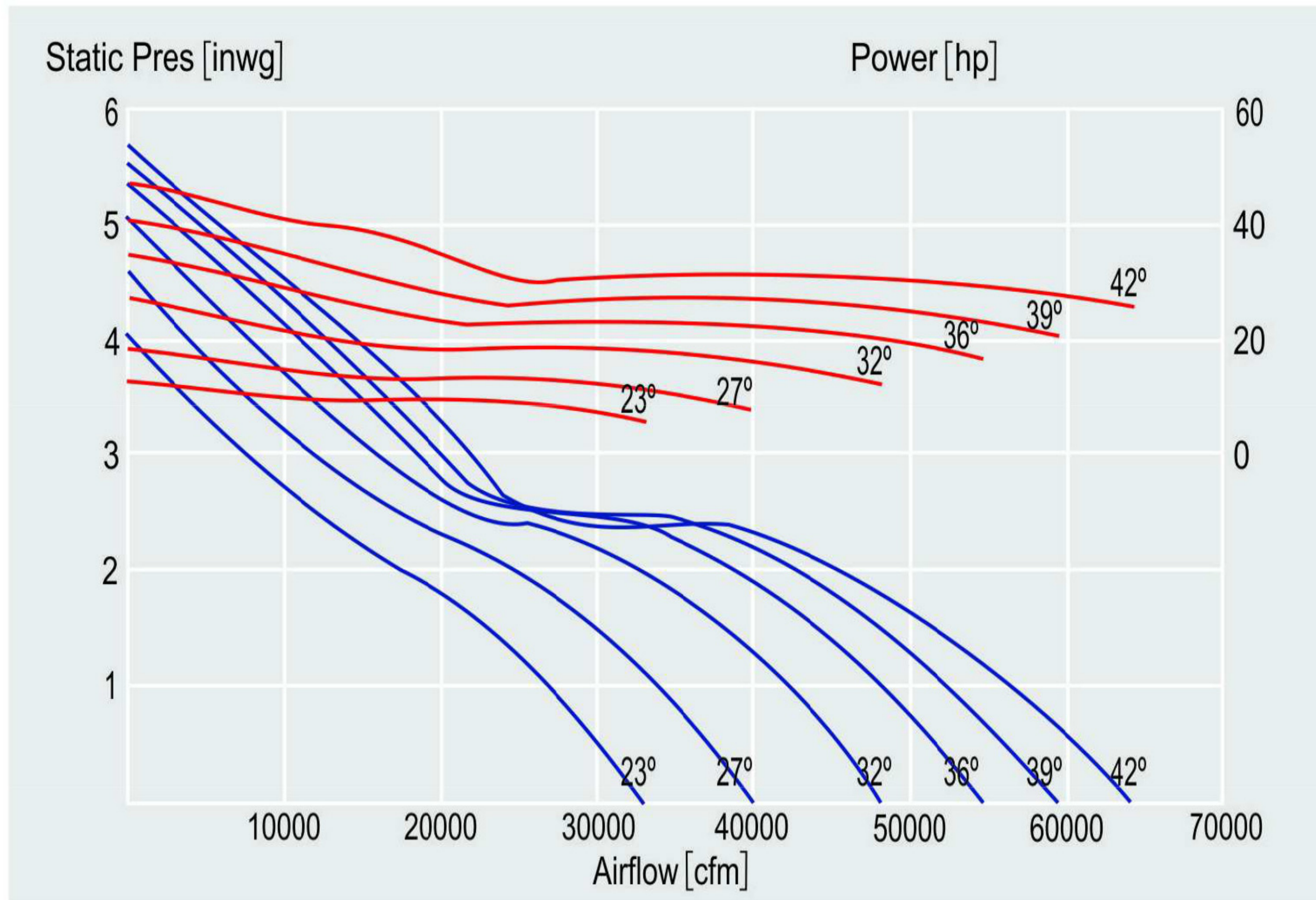
TWP/A-48 4 POLES 3 BLADES

**TWP/A-48
6 POLOS
3 ALABES**



**TWP/A-48
6 POLES
3 BLADES**

**TWP/A-48
6 POLOS
6 ALABES**



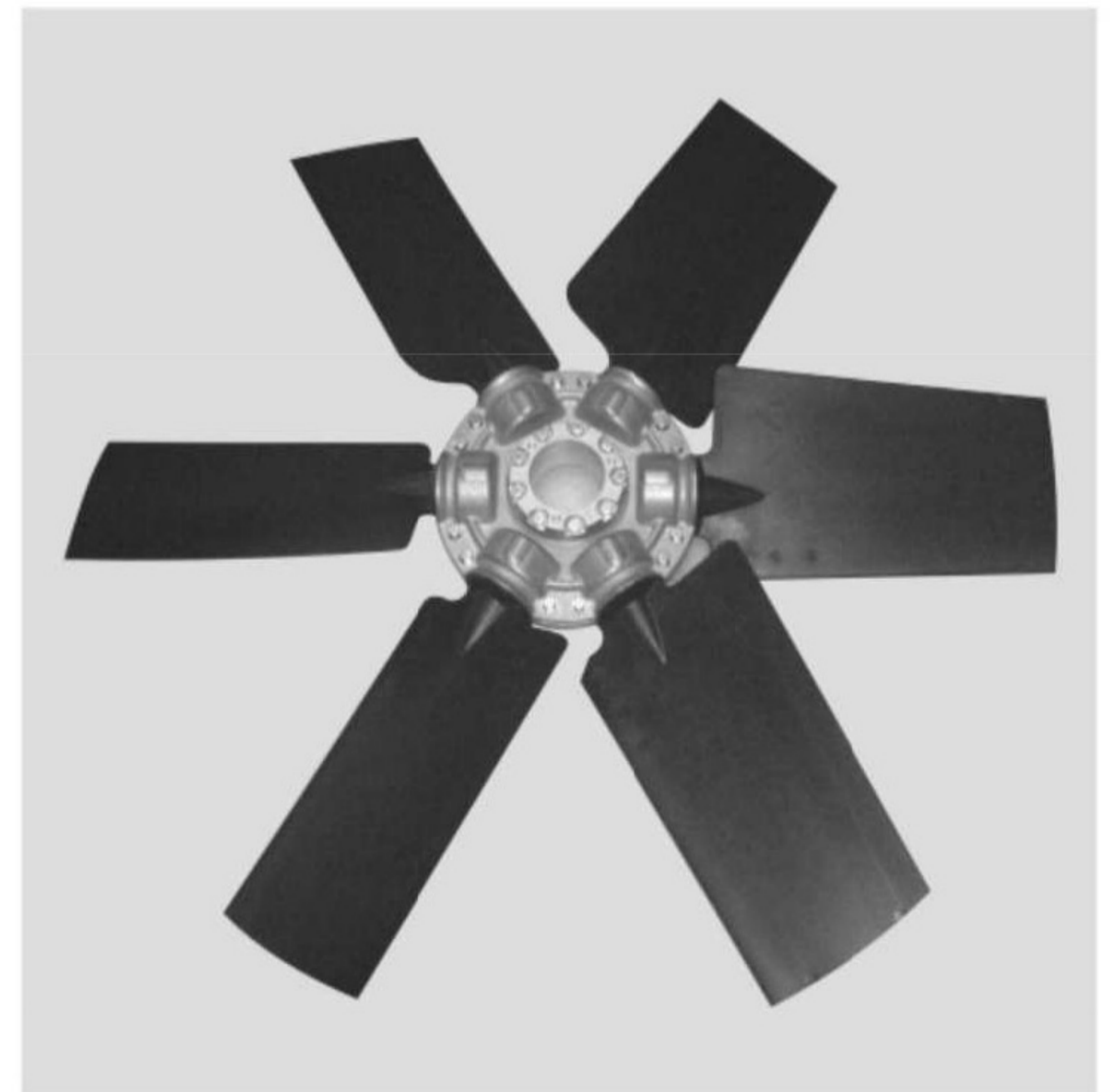
**TWP/A-48
6 POLES
6 BLADES**



**Hélice de Aluminio Inyectado
(Aluminum Fan Blade)**



**Cubo en Aluminio Inyectado
(Aluminum Hub Set)**



**Hélice en Plástico retozado
con Fibra de Vidrio
(PPG Fan Blade)**

ESPECIFICACIONES ACÚSTICAS (SOUND PRESSURE SPECIFICATIONS)

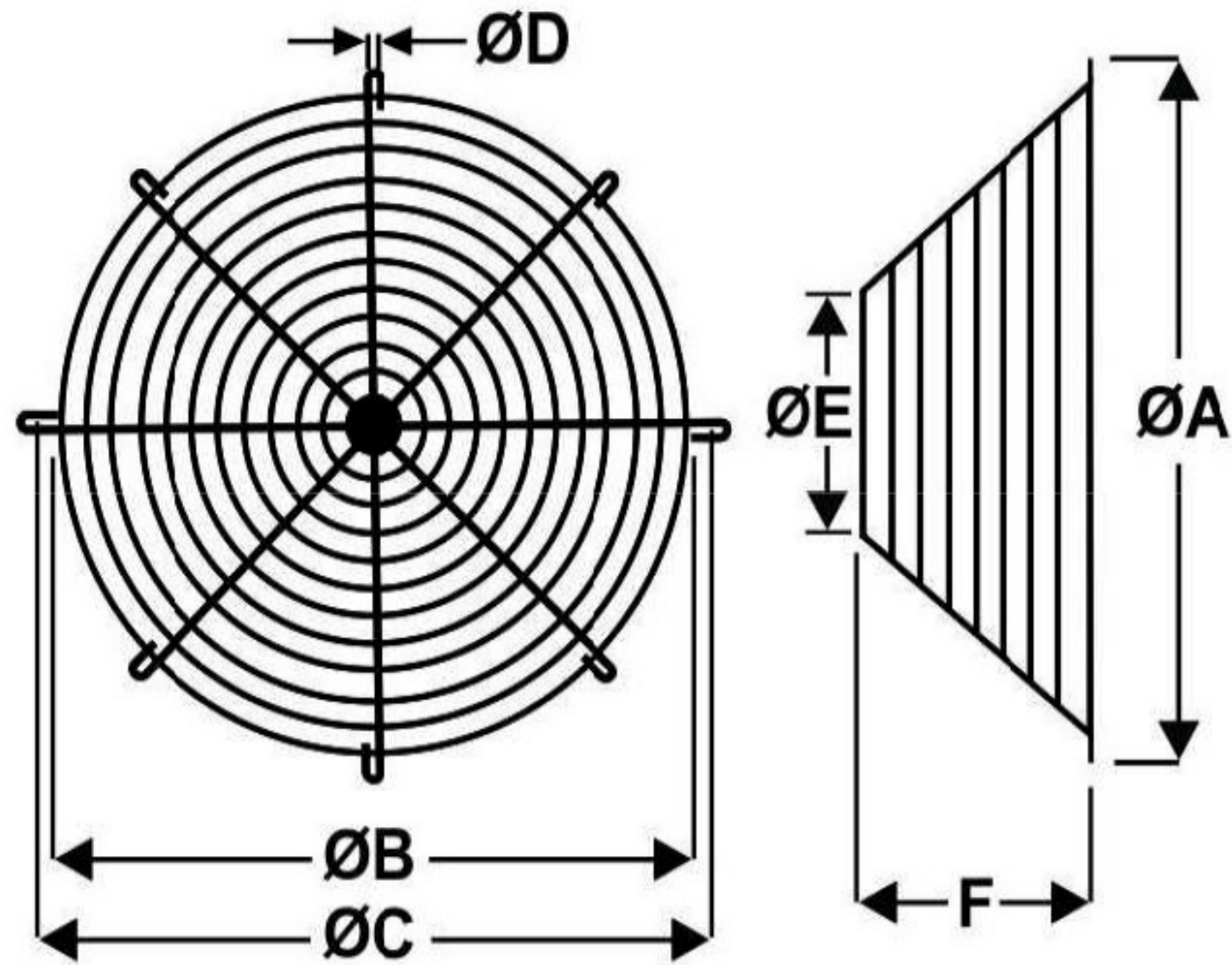
SPL dB (A)@ 0" W.G. (C.A.)	BANDA DE FRECUENCIA (FREQUENCY BAND) HZ								
MODELO (MODEL)	63	125	250	500	1K	2K	4K	8K	TOTAL
TWP/A-4-42-3/21°	53	58	67	72	73	71	68	63	78
TWP/A-4-42-3/24°	56	61	70	75	76	74	71	66	81
TWP/A-4-42-3/29°	60	65	74	79	80	78	75	70	85
TWP/A-4-42-3/33°	63	68	77	82	83	81	78	73	88
TWP/A-4-42-6/20°	45	62	65	70	71	69	66	61	77
TWP/A-4-42-6/25°	51	68	71	76	77	75	72	67	83
TWP/A-4-42-6/29°	55	72	75	80	81	79	76	71	87
TWP/A-4-42-6/31°	57	74	77	82	83	81	78	73	89
TWP/A-4-42-6/34°	58	75	78	83	84	82	79	74	90
TWP/A-4-48-3/22°	57	62	71	76	77	75	72	67	82
TWP/A-4-48-3/25°	60	65	74	79	80	78	75	70	85
TWP/A-4-48-3/27°	62	67	76	81	82	80	77	72	87
TWP/A-4-48-3/30°	65	70	79	84	85	83	80	75	90
TWP/A-4-48-3/34°	67	72	81	86	87	85	82	77	92
TWP/A-4-48-3/37°	68	73	82	87	88	86	83	78	93
TWP/A-4-48-6/20°	48	65	68	73	74	72	69	64	80
TWP/A-4-48-6/23°	52	69	72	77	78	76	73	68	84
TWP/A-4-48-6/25°	54	71	74	79	80	78	75	70	86
TWP/A-4-48-6/29°	58	75	78	83	84	82	79	74	90
TWP/A-4-48-6/32°	60	77	80	85	86	84	81	76	92
TWP/A-6-42-3/20°	43	48	57	62	63	61	58	53	68
TWP/A-6-42-3/24°	47	52	61	66	67	65	62	57	72
TWP/A-6-42-3/30°	52	57	66	71	72	70	67	62	77
TWP/A-6-42-3/36°	56	61	70	75	76	74	71	66	81
TWP/A-6-42-6/20°	37	54	57	62	63	61	58	53	69
TWP/A-6-42-6/26°	43	60	63	68	69	67	64	59	75
TWP/A-6-42-6/31°	48	65	68	73	74	72	69	64	80
TWP/A-6-42-6/35°	50	67	70	75	76	74	71	66	82
TWP/A-6-48-3/20°	46	51	60	65	66	64	61	56	71
TWP/A-6-48-3/23°	49	54	63	68	69	67	64	59	74
TWP/A-6-48-3/27°	53	58	67	72	73	71	68	63	78
TWP/A-6-48-3/31°	56	61	70	75	76	74	71	66	81
TWP/A-6-48-3/37°	59	64	73	78	79	77	74	69	84
TWP/A-6-48-6/23°	43	60	63	68	69	67	64	59	75
TWP/A-6-48-6/27°	47	64	67	72	73	71	68	63	79
TWP/A-6-48-6/32°	52	69	72	77	78	76	73	68	84
TWP/A-6-48-6/36°	54	71	74	79	80	78	75	70	86
TWP/A-6-48-6/39°	56	73	76	81	82	80	77	72	88
TWP/A-6-48-6/42°	58	75	78	83	84	82	79	74	90

PRESIÓN SONORA (SOUND PRESSURE) dB (A)

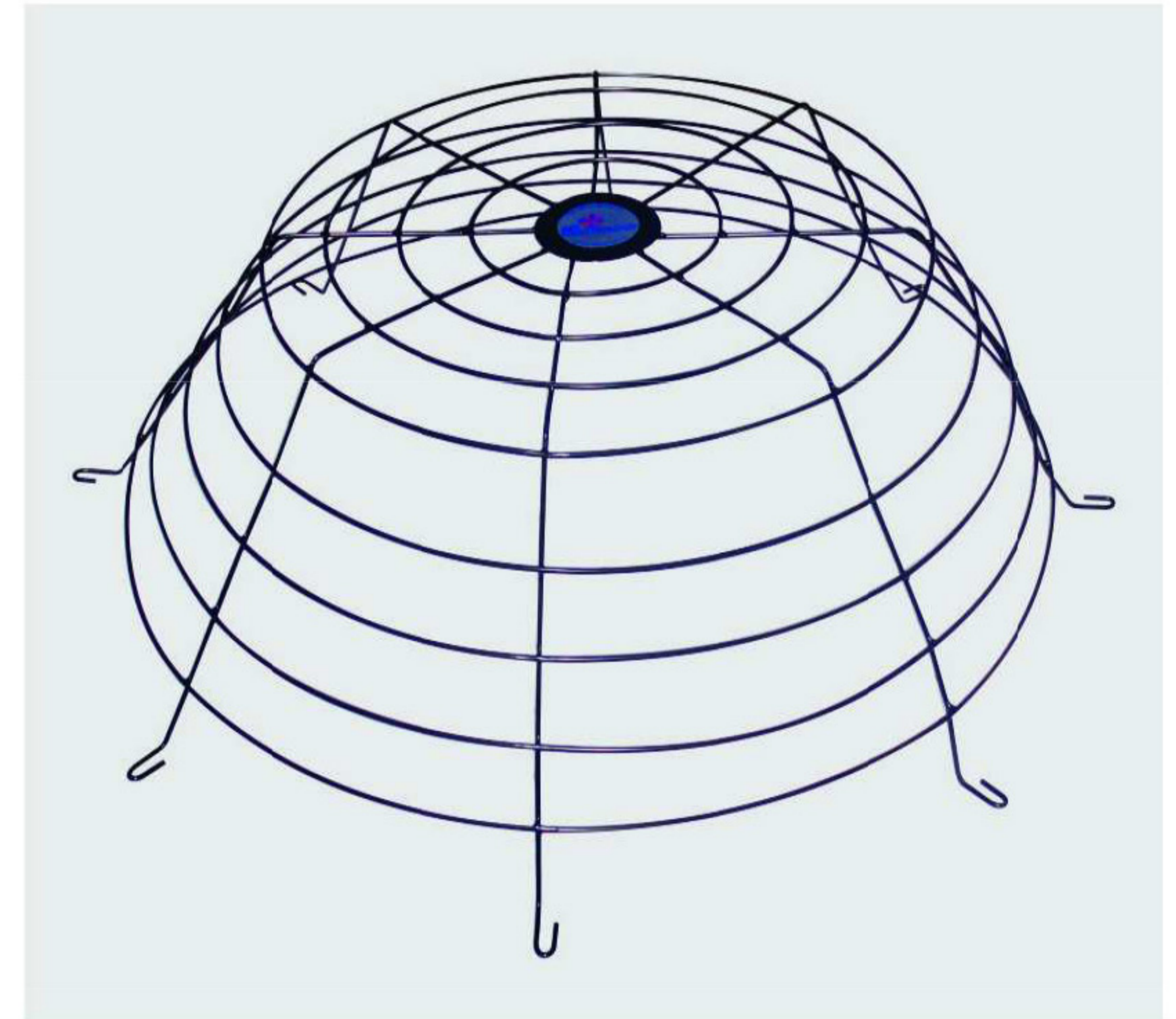
Espectro de presión Sonora en dB (A) por banda de frecuencia en Hz.
Sound Pressure Spectrum [SPL dB (A)] per Frequency Band (Hz).

TWPI/A

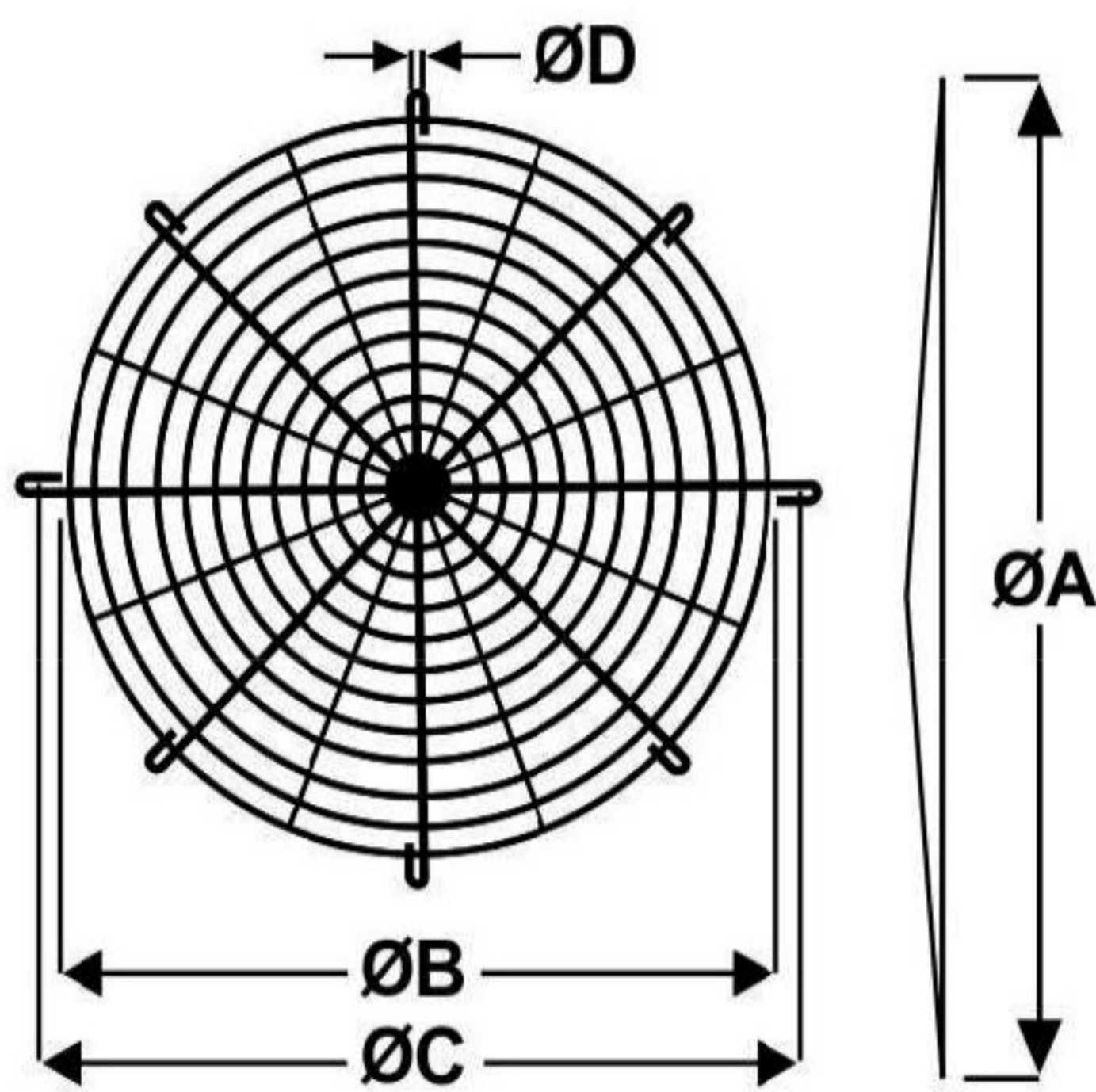
REJILLA DE PROTECCION EN SUCCION (INLET GUARD)



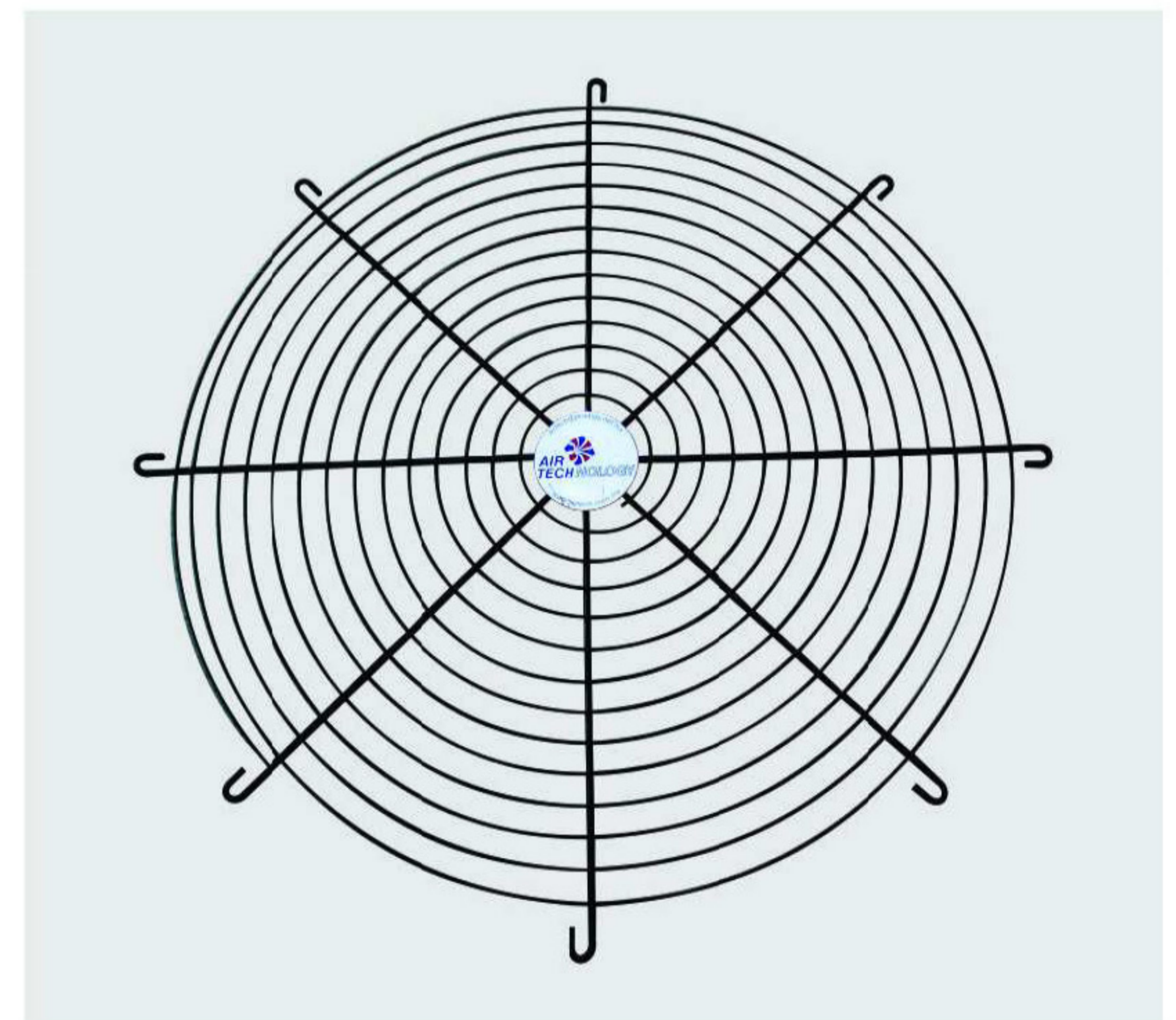
MODELO (MODEL)	PULGADAS (INCHES)						No. DE BARRENOS (HOLES)
	ØA	ØB	ØC	ØD	ØE	F	
TWP/A-42	47	43	45	1/2	25	13	8
TWP/A-48	53	49	51	1/2	31	15	8



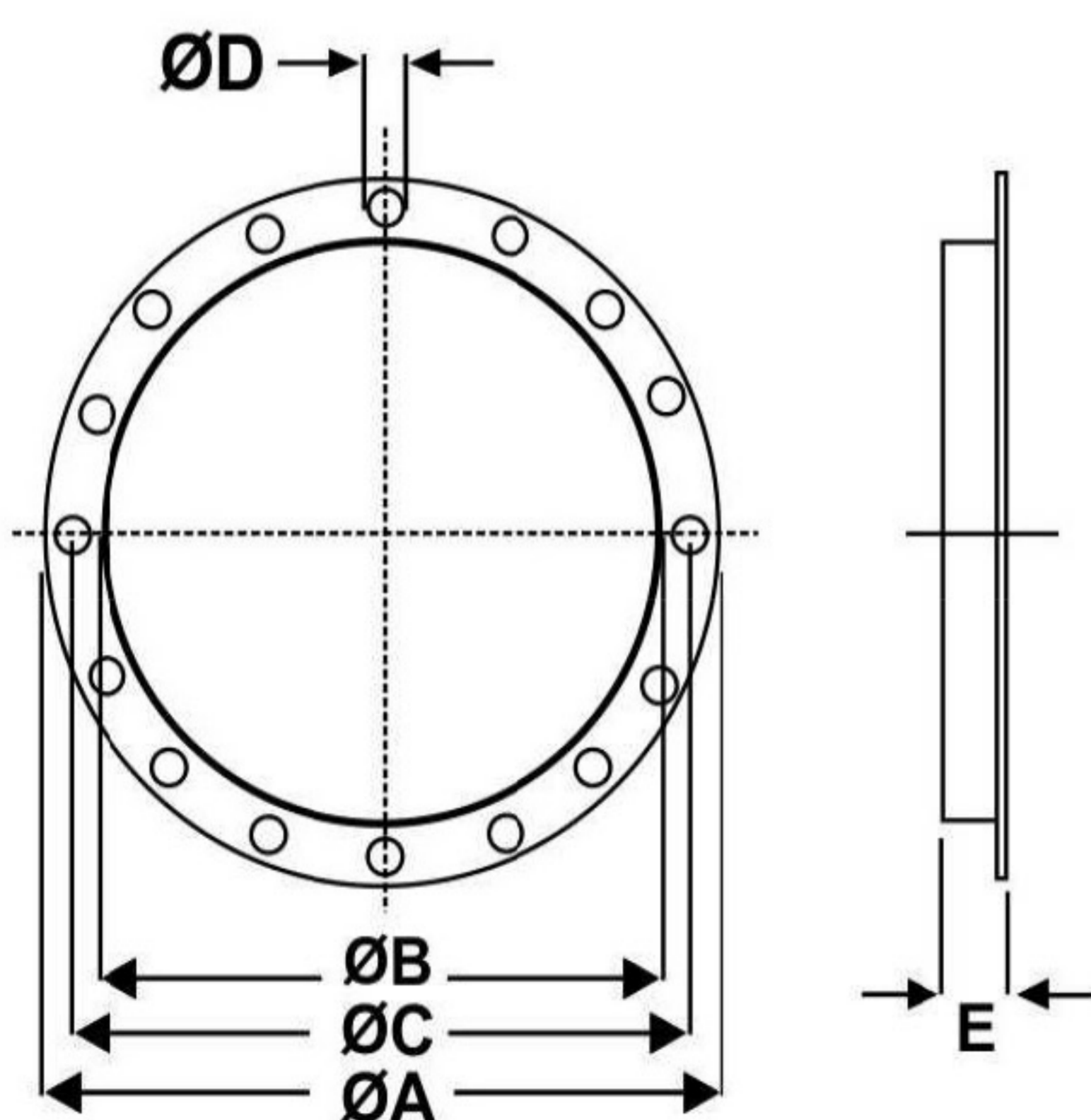
REJILLA DE PROTECCION EN DESCARGA (DISCHARGE GUARD)



MODELO (MODEL)	PULGADAS (INCHES)				No. DE BARRENOS (HOLES)
	ØA	ØB	ØC	ØD	
TWP/A-42	47	43	45	1/2	8
TWP/A-48	53	49	51	1/2	8



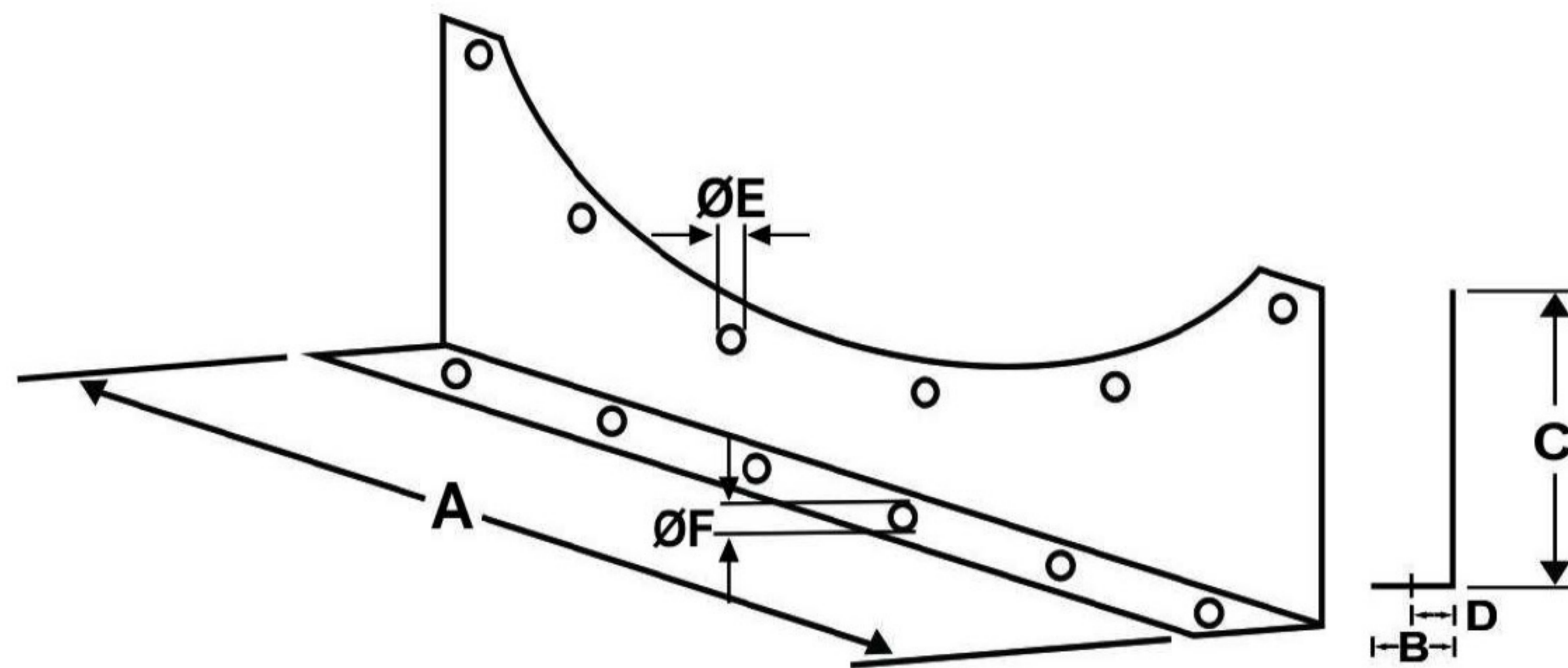
BRIDA PARA DUCTO (DUCT FLANGE)



MODELO (MODEL)	PULGADAS (INCHES)					No. DE BARRENOS (HOLES)
	ØA	ØB	ØC	ØD	E	
TWP/A-42	47	43	45	1/2	2 3/4	16
TWP/A-48	53	49	51	1/2	2 3/4	16



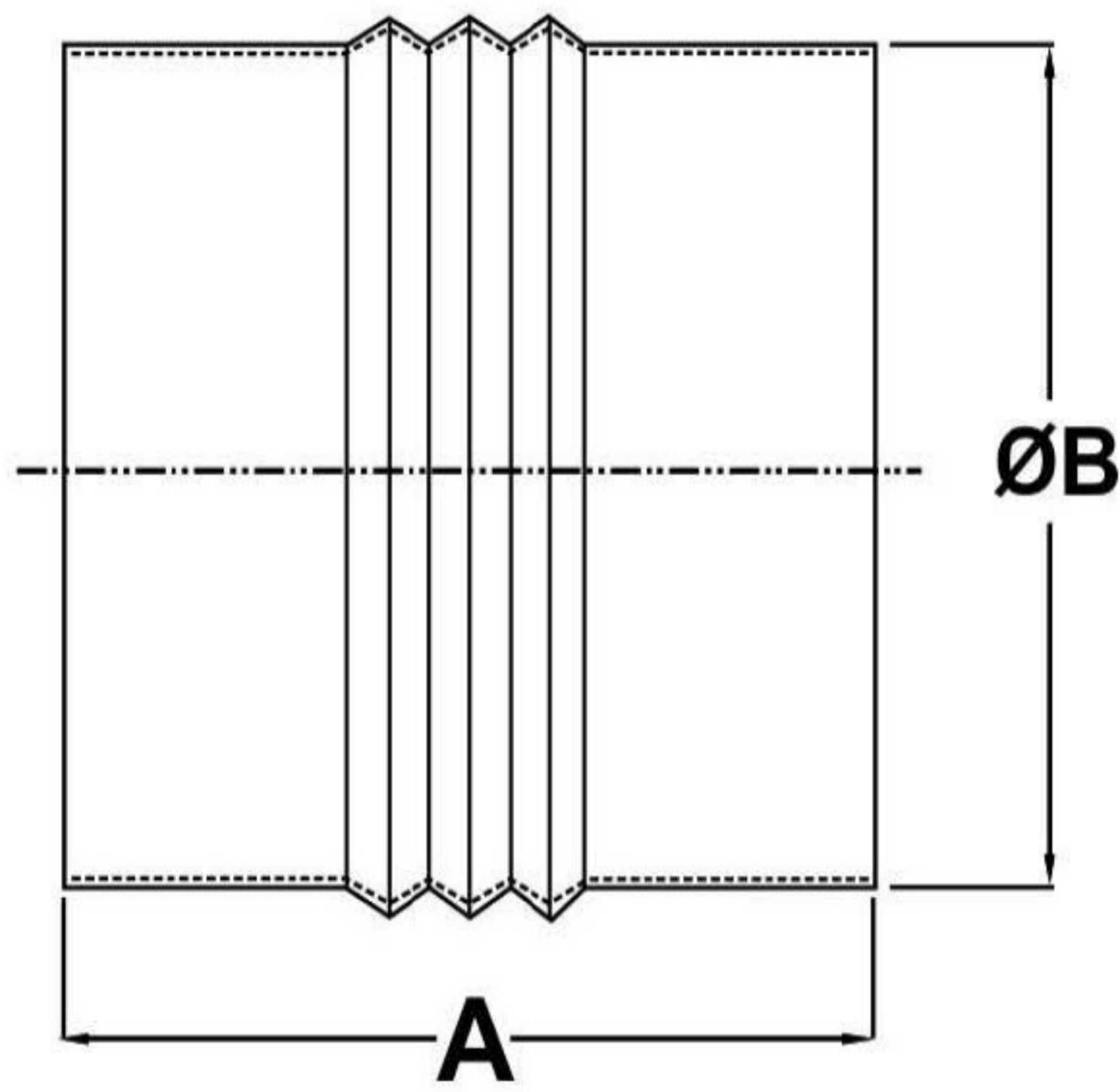
BASE O SOPORTE DEL VENTILADOR (FAN STAND)



MODELO (MODEL)	PULGADAS (INCHES)						No. DE BARRENOS (HOLES)
	A	B	C	D	ØE	ØF	
TWP/A-42	39 3/4	2 3/4	12 1/2	1 3/8	1/2	1/2	12
TWP/A-48	44 1/2	2 3/4	14 1/2	1 3/8	1/2	1/2	12



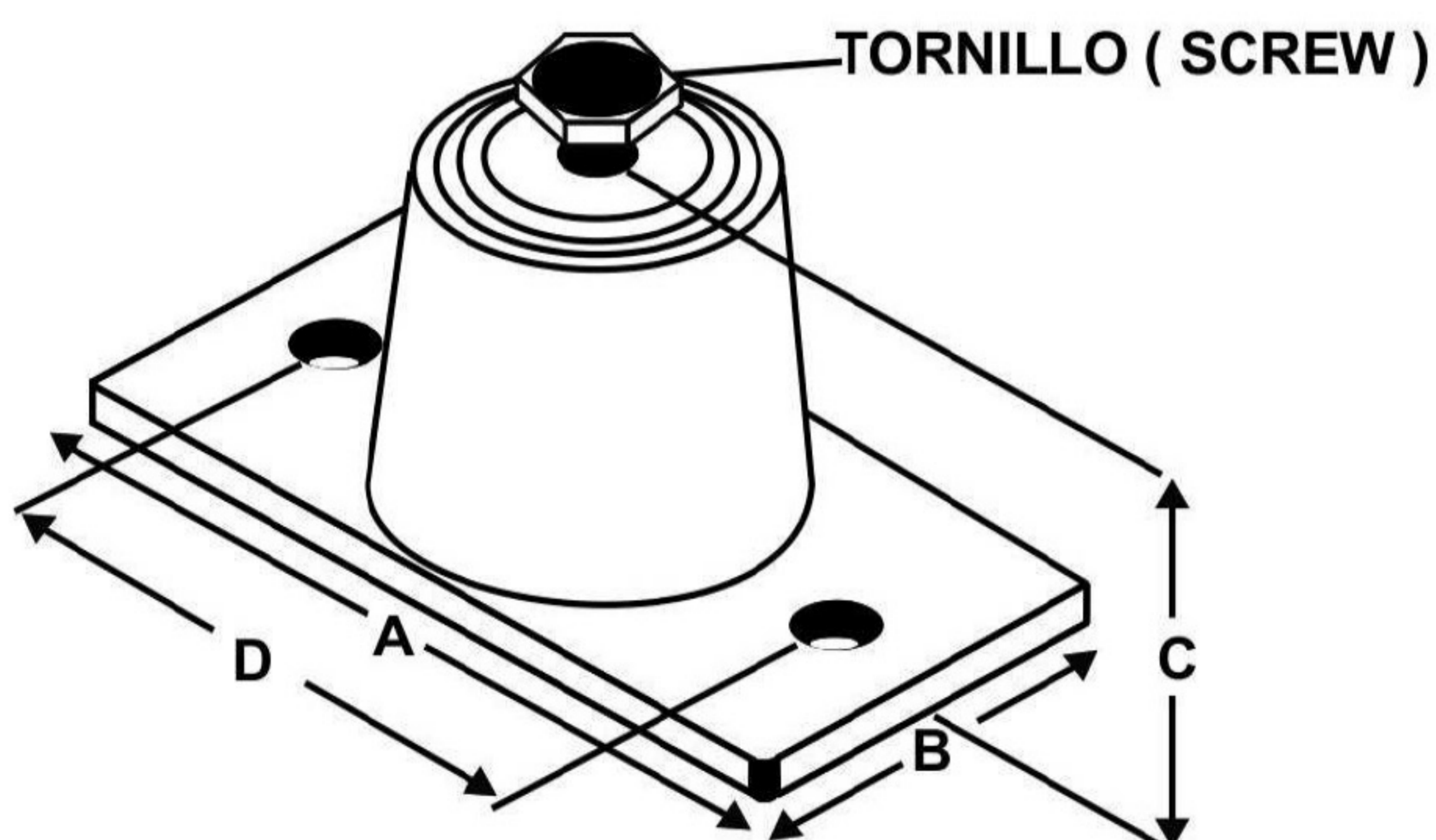
JUNTA ELASTICA ANTIVIBRATORIA (FLEXIBLE JOINT)



MODELO (MODEL)	PULGADAS (INCHES)	
	A	ØB
TWP/A-42	12	43
TWP/A-48	12	49



TACONES ANTIVIBRATORIOS (VIBRATION ISOLATORS)



MODELO (MODEL)	PULGADAS (INCHES)					RANGO DE CARGA (WEIGHT RANGE)	
	A	B	C	D	TORNILLO (SCREW)	LB	KG
NT-B	3 7/8	2 1/3	1 7/8	3	3/8 NC16	88-484	40-220
NT-D	5 1/2	3 3/8	3	4 1/8	1/2 NC13	198-1320	90-600

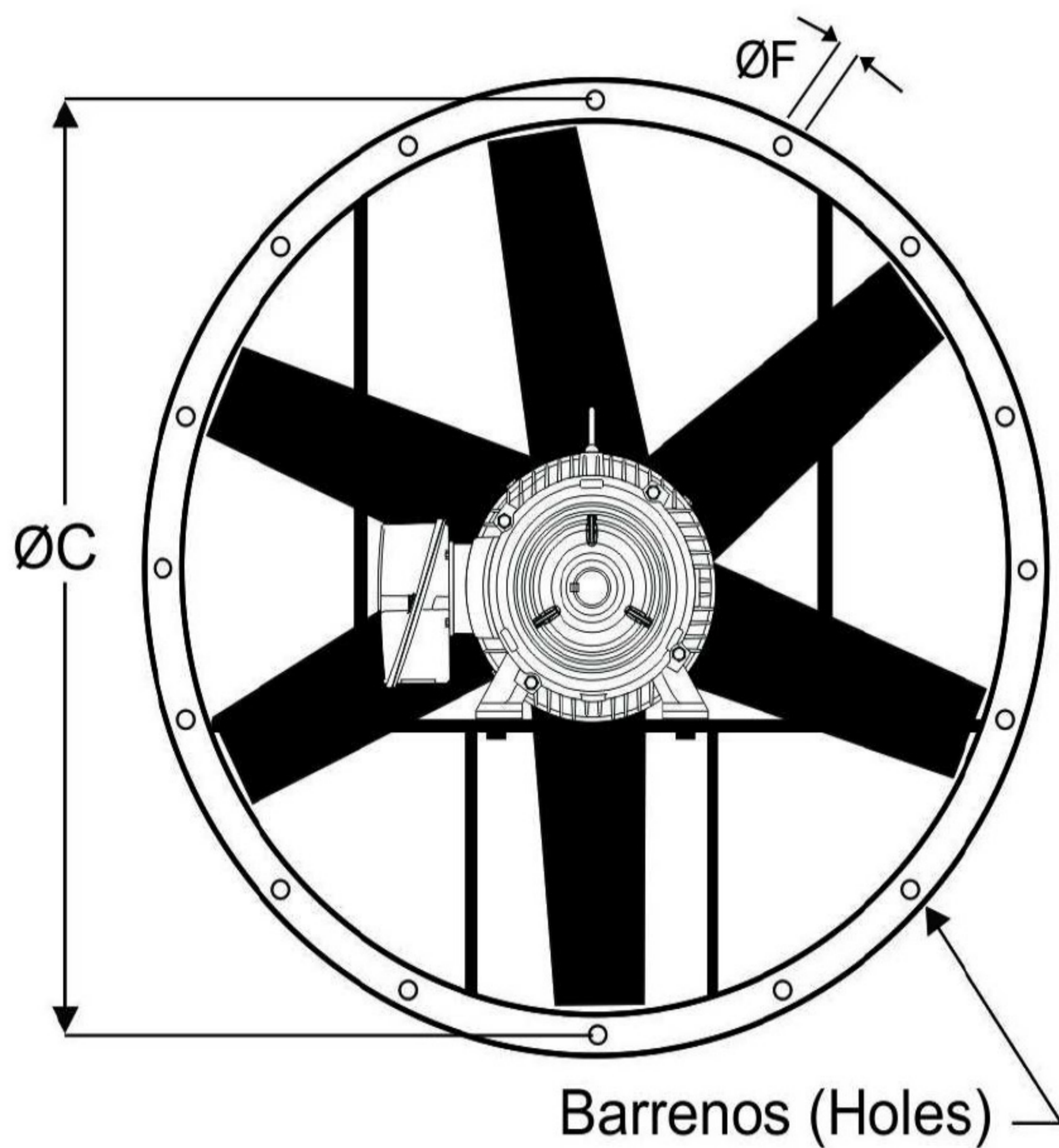


TWP/A

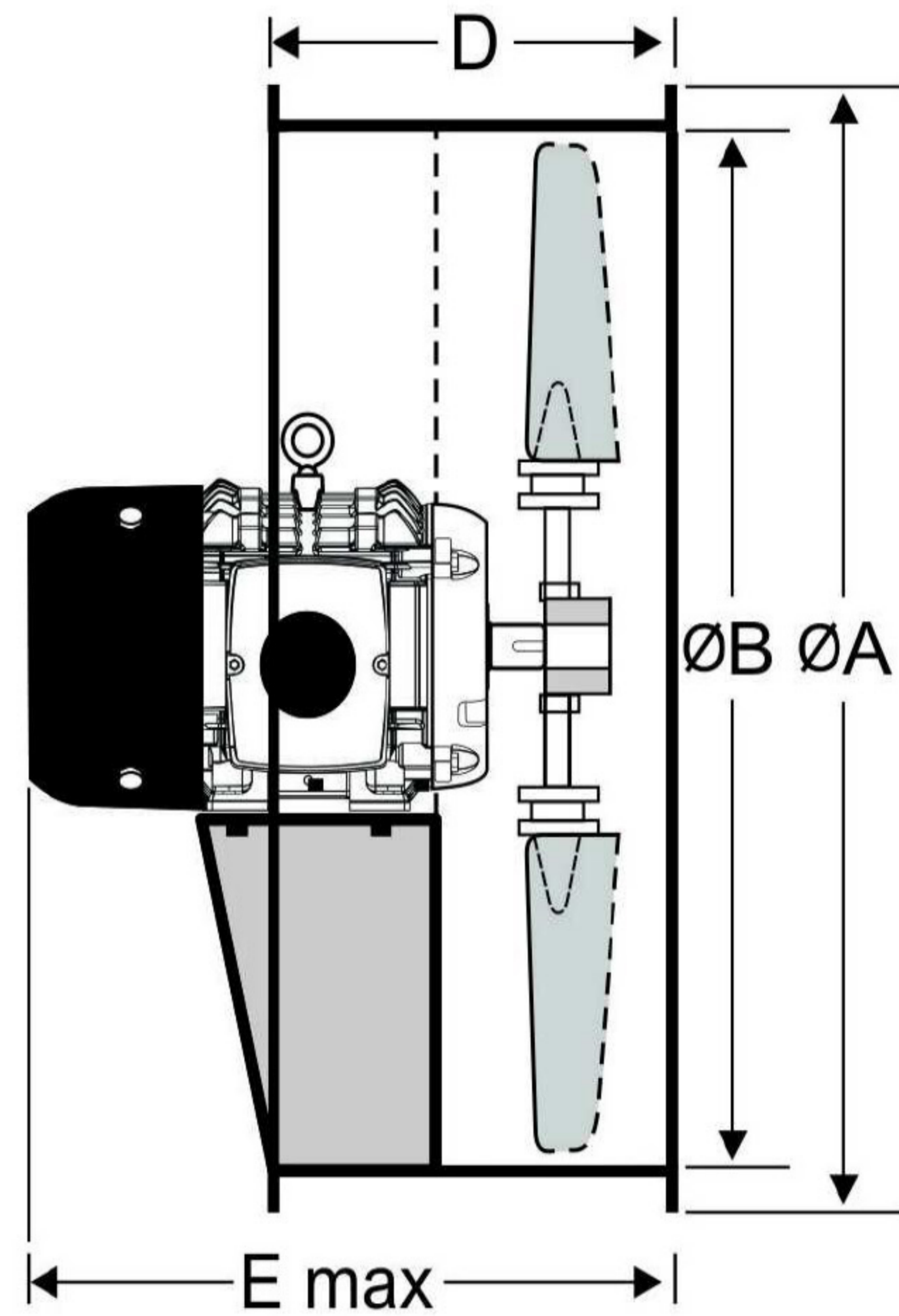
**AERO EXTRACTOR-INYECTOR TUBULAR DE ACOPLAMIENTO DIRECTO
HELICE DE ALTA EFICIENCIA EN ANGULO VARIABLE DE 42" Y 48" DE DIAMETRO**

**ATC INDUSTRIAL DIRECT DRIVE TUBE AXIAL FANS
HIGH EFFICIENCY VARIABLE PITCH BLADES IN 42" AND 48" DIAMETERS**

**VISTA POSTERIOR
(BACK VIEW)**



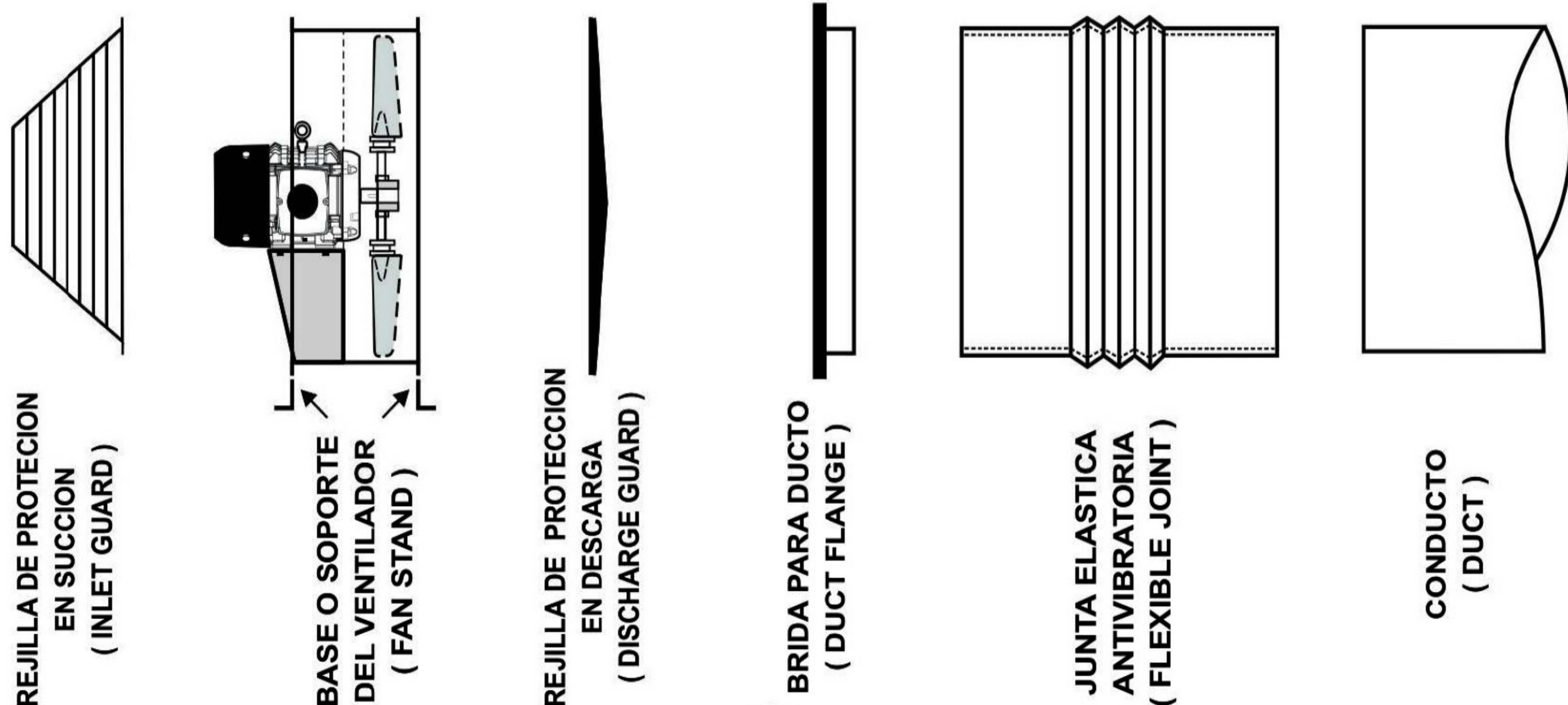
**VISTA LATERAL
(SIDE VIEW)**

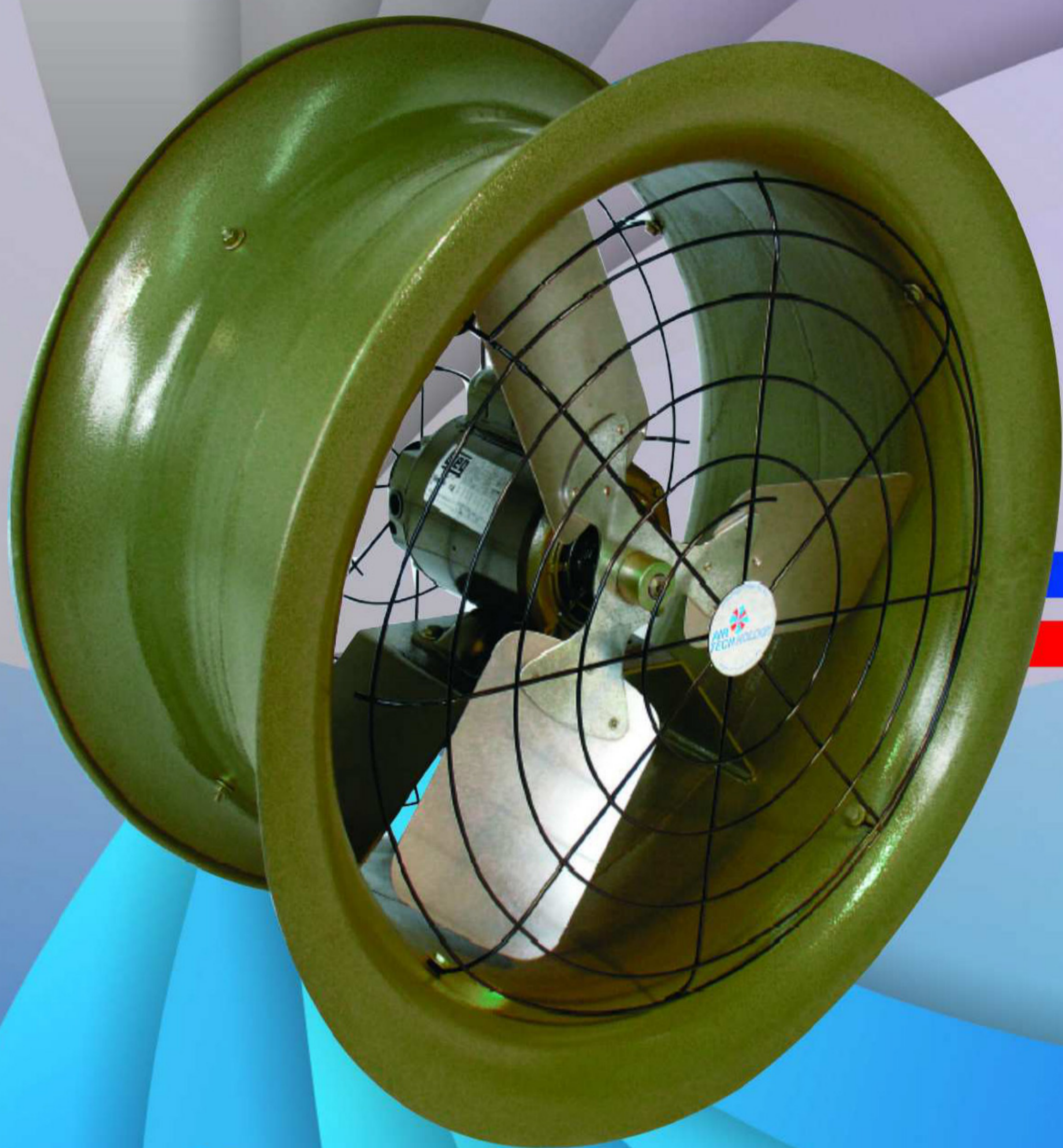


**DIMENSIONES GENERALES
(DIMENSIONS)**

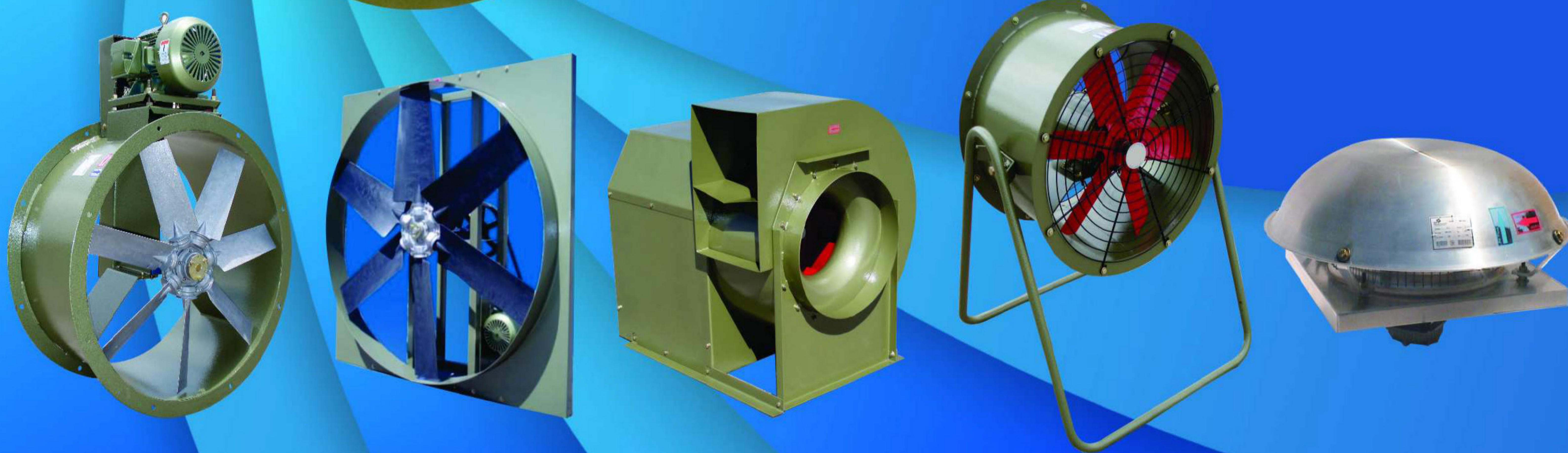
MODELO (MODEL)	PULGADAS (INCHES)						No. de Barrenos (Holes)
	Ø A	Ø B	Ø C	D	E MAX	Ø F	
TWP/A-42	47	43	45	18	31	1/2	16
TWP/A-48	53	49	51	20	35	1/2	16

GUIA PARA ENSAMBLE (ASSEMBLY GUIDE)





The Right Choice



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