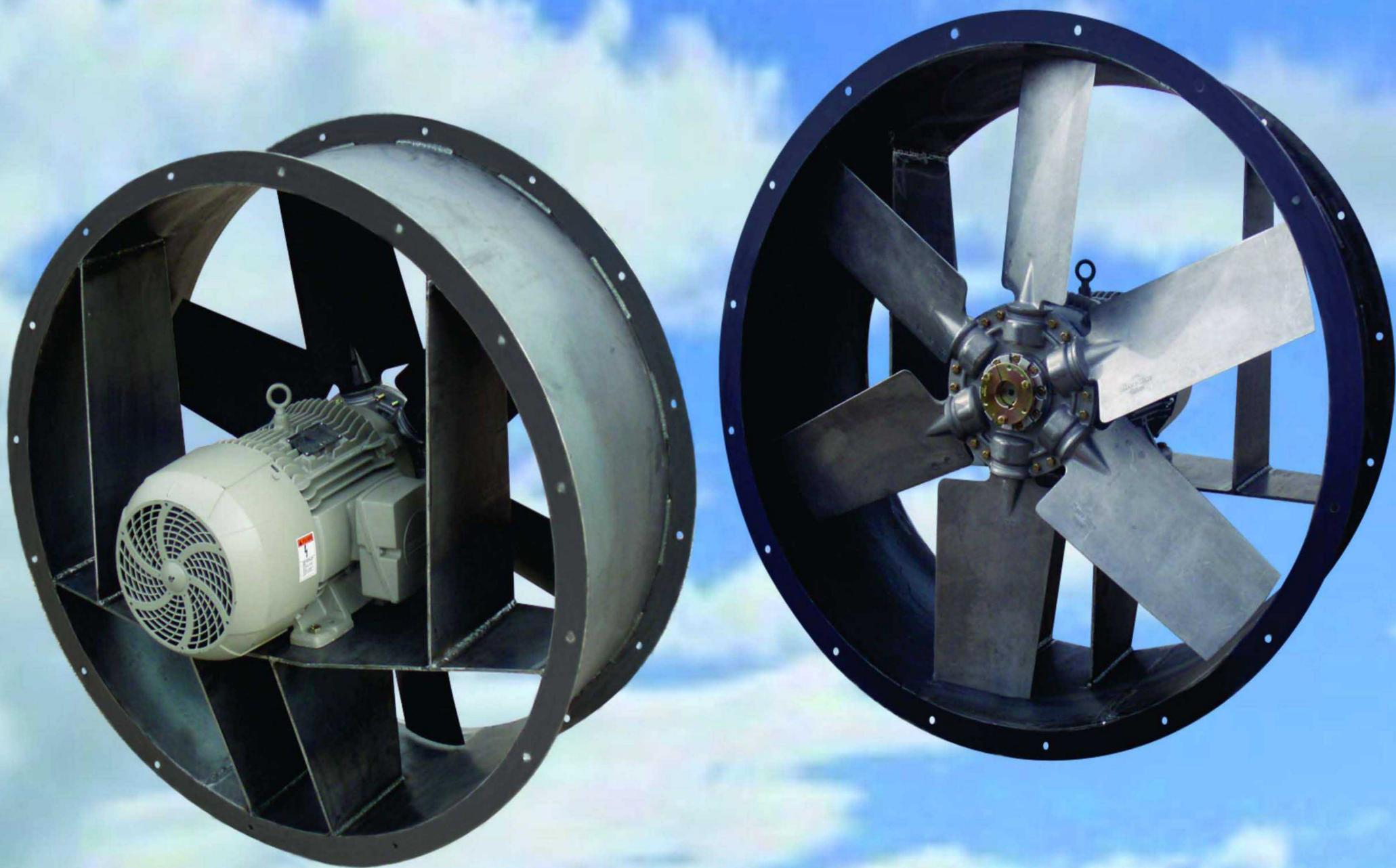


**MOMC**  
E L E C T R I C

# TWP/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:

**TWP / A - 4 - 48 - 6 / 23°**

1
2
3
4
5
6

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

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 **	
	CFM	M <sup>3</sup> /HR			220V	440V	SOUND PRESSURE LEVEL dB (A) *	LB	KG
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

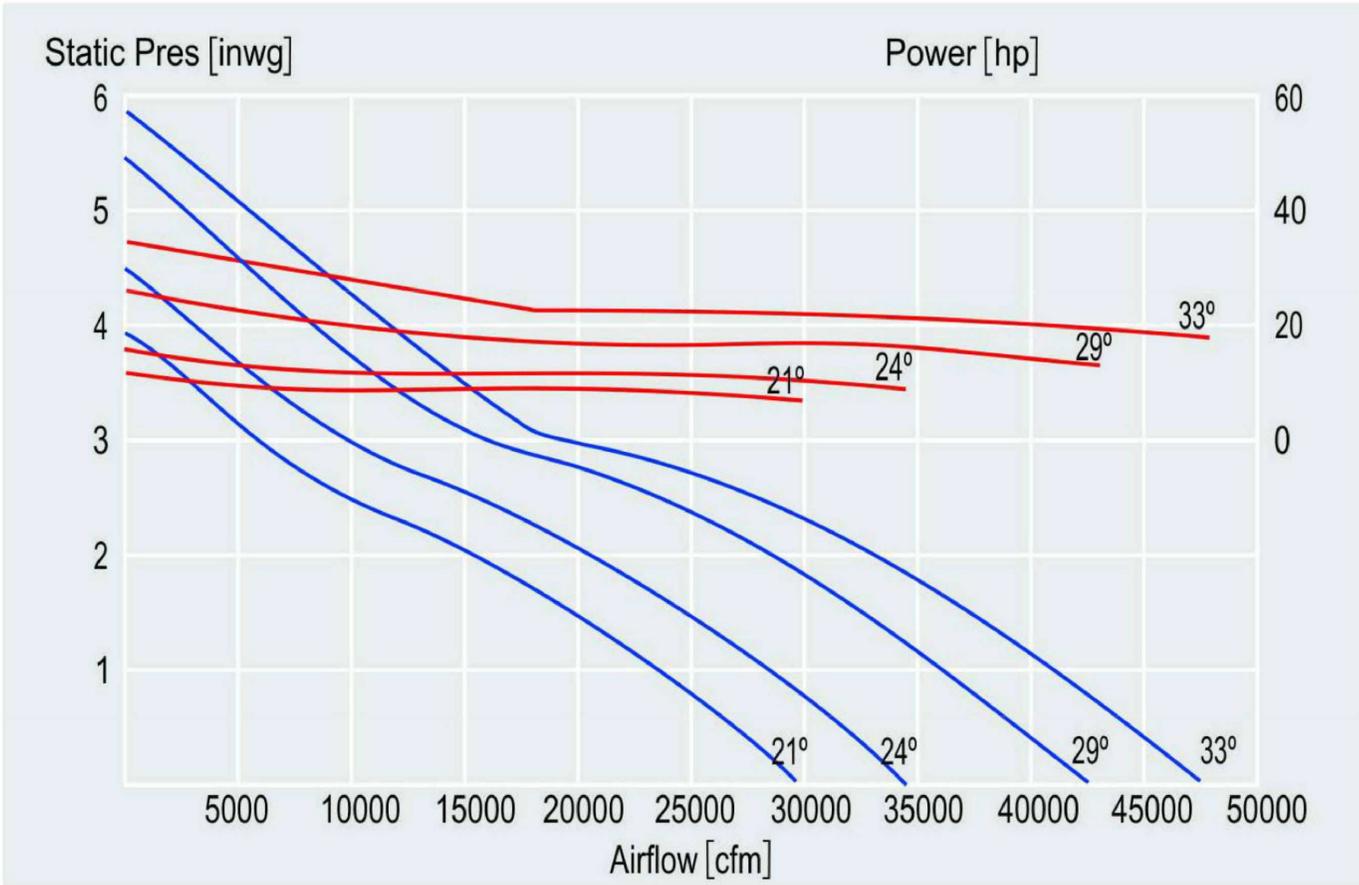
\* Nivel Sonoro calculado a 1.5 mt. (5 pies) de la fuente en un campo hemisférico libre según AMCA standar 301.

\* Sound Pressure measured in a free field with ½ 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.

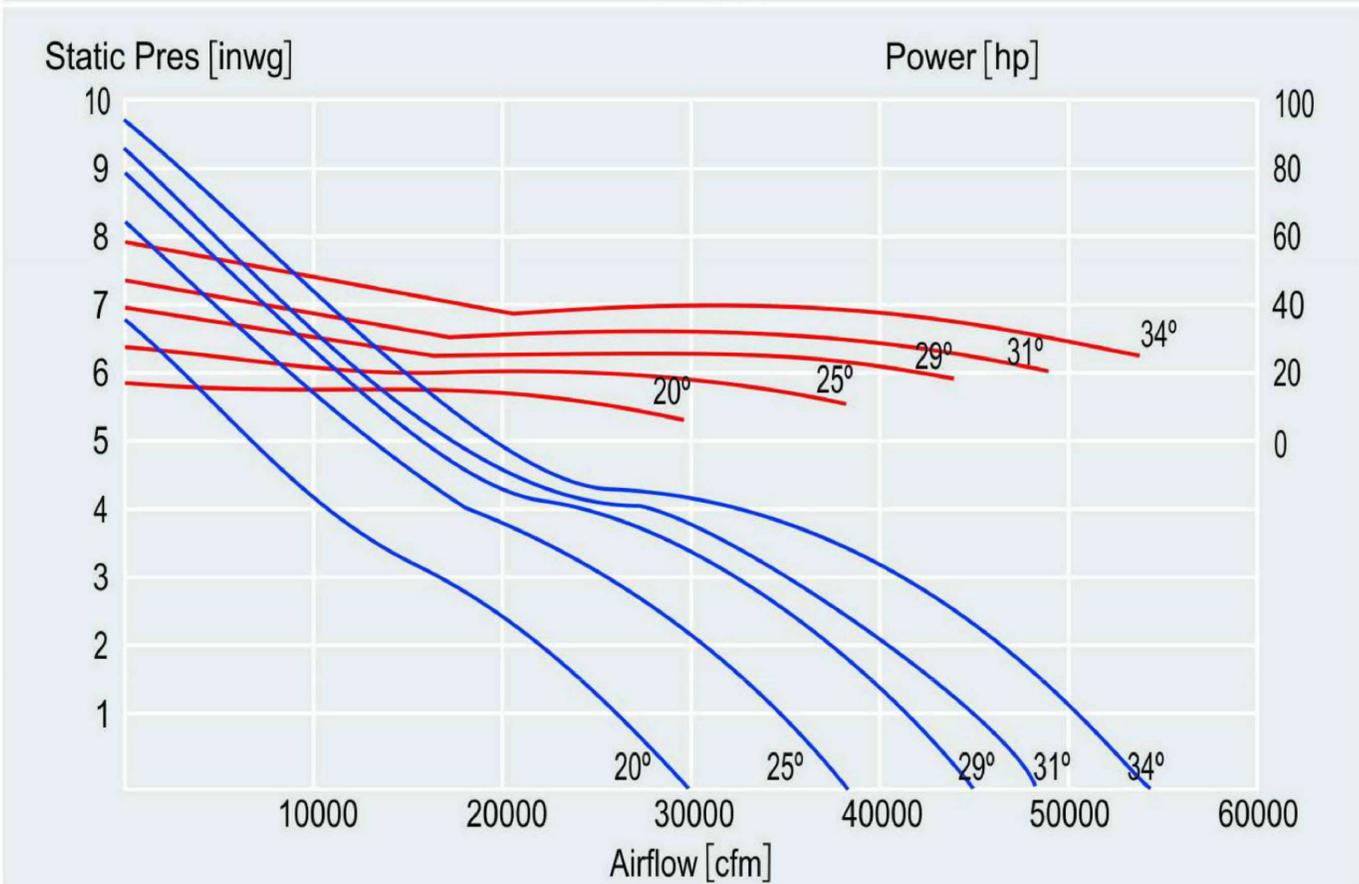
\*\* The weight shown in the above table is for fans with aluminium blades; for 3 & 6 plastics blades, reduce the fan weight by 13Lb (6 Kg) and 16 Lb (7.4 Kg) respectively.

**TWP/A-42 4 POLOS 3 ALABES**



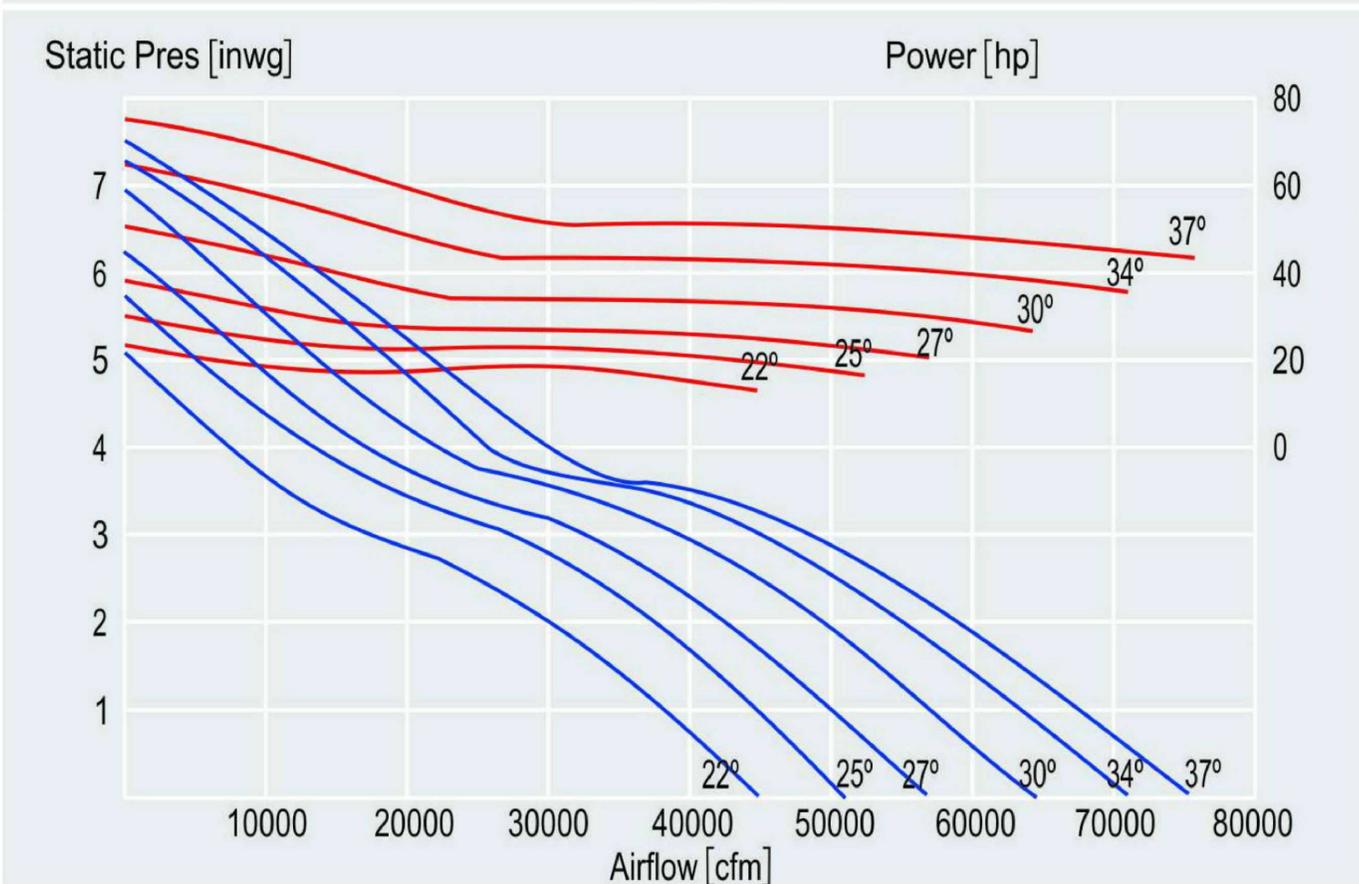
**TWP/A-42 4 POLES 3 BLADES**

**TWP/A-42 4 POLOS 6 ALABES**



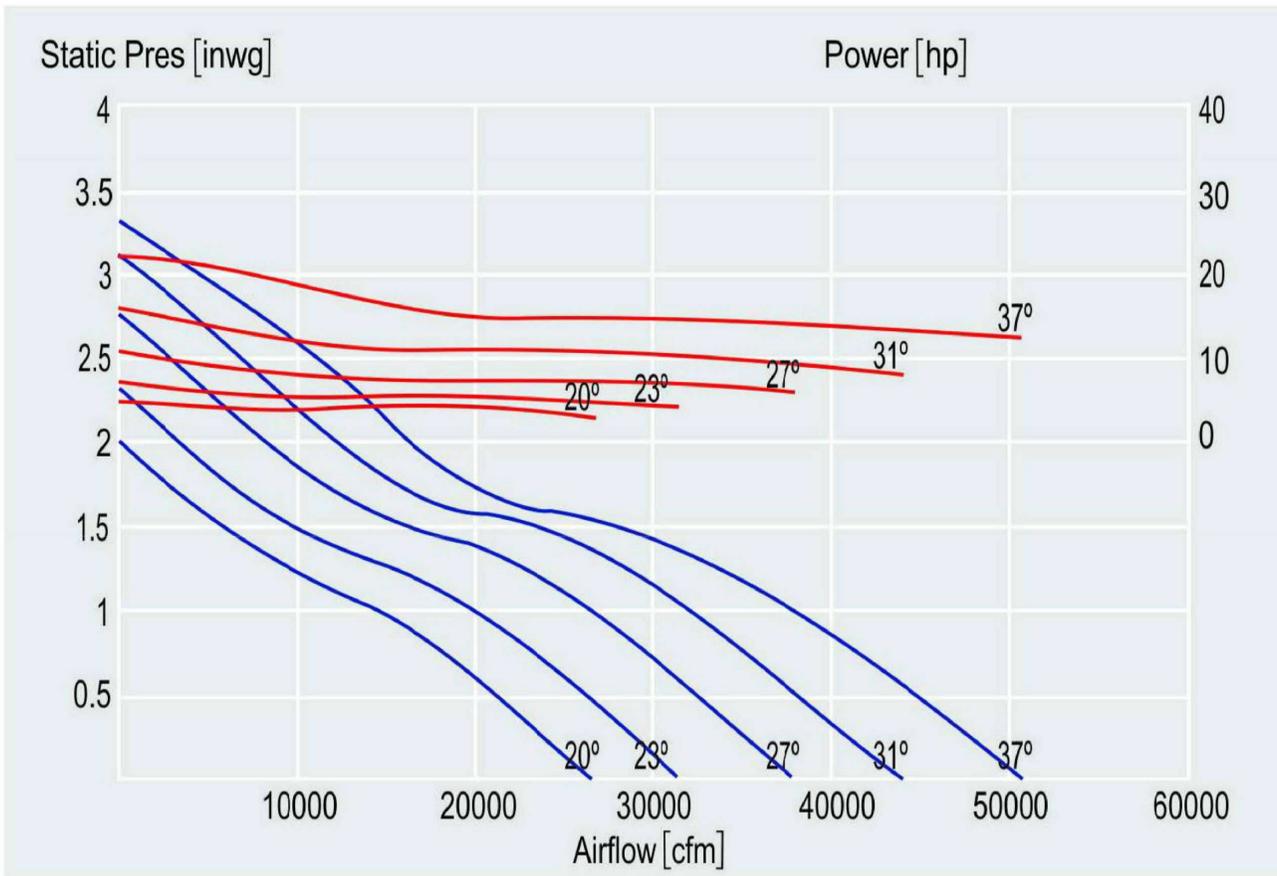
**TWP/A-42 4 POLES 6 BLADES**

**TWP/A-48 4 POLOS 3 ALABES**



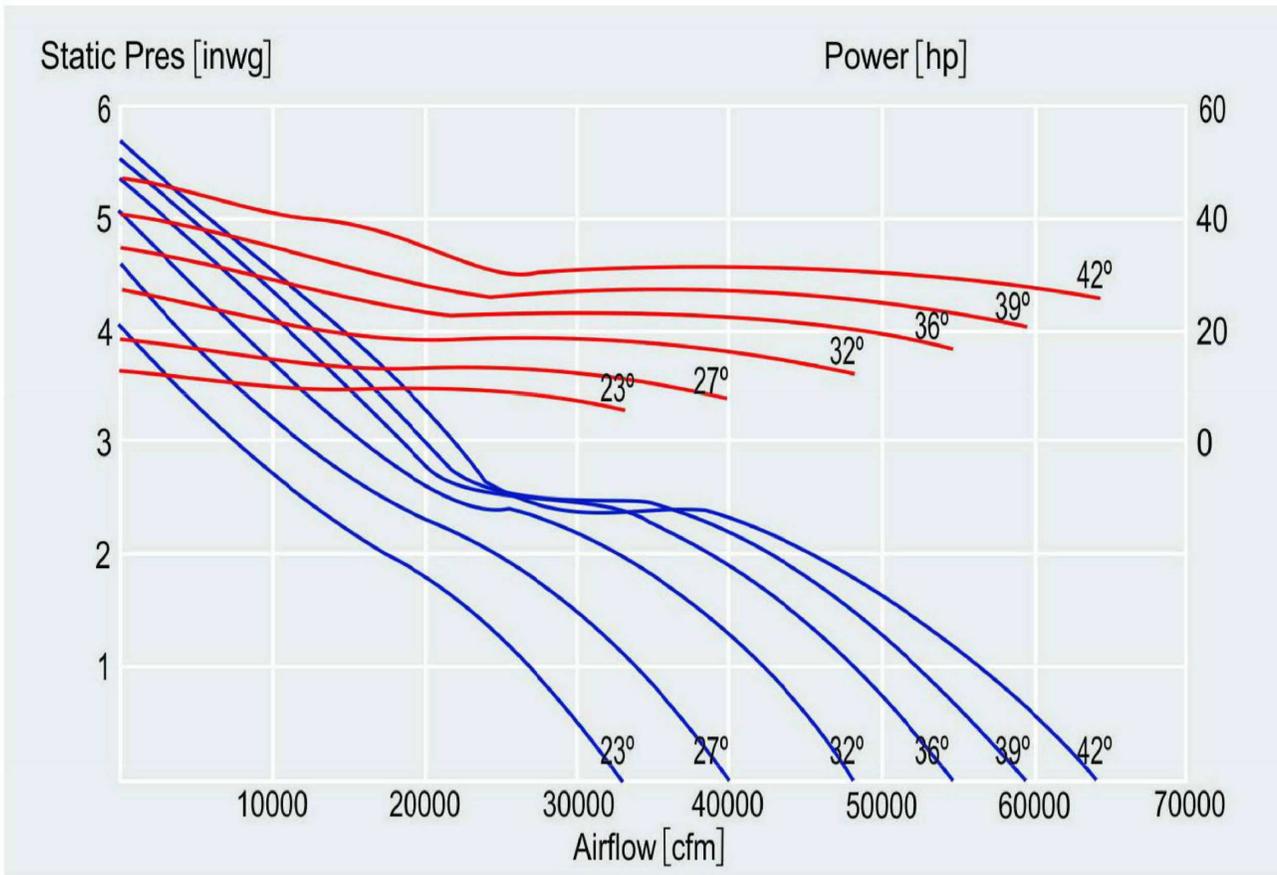
**TWP/A-48 4 POLES 3 BLADES**

TWP/A-48  
6 POLOS  
3 ALABES



TWP/A-48  
6 POLES  
3 BLADES

TWP/A-48  
6 POLOS  
6 ALABES



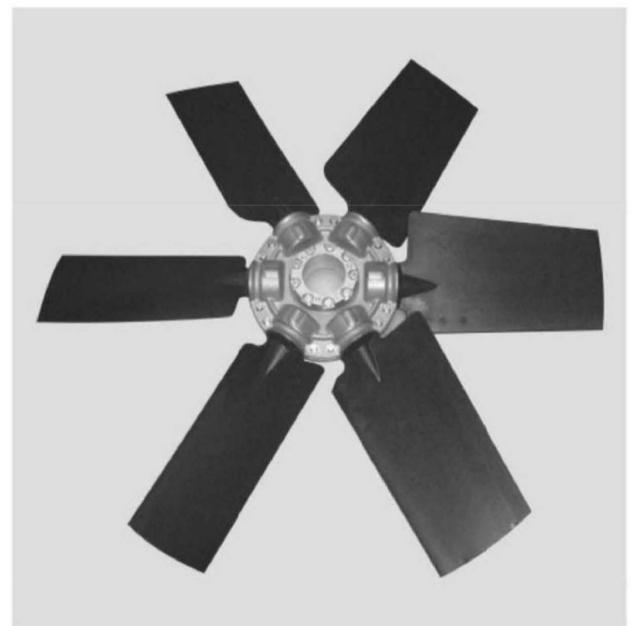
TWP/A-48  
6 POLES  
6 BLADES



**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 )**

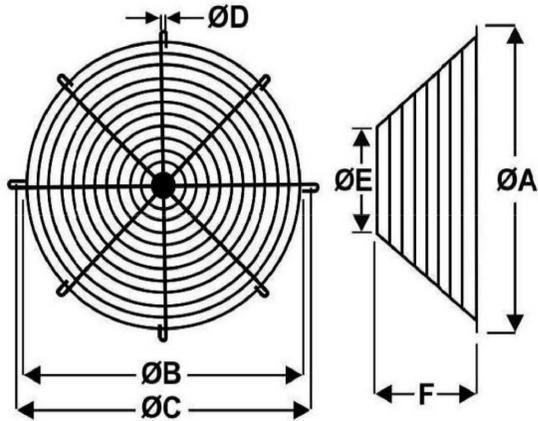
## ESPECIFICACIONES ACÚSTICAS ( SOUND PRESSURE SPECIFICATIONS )

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

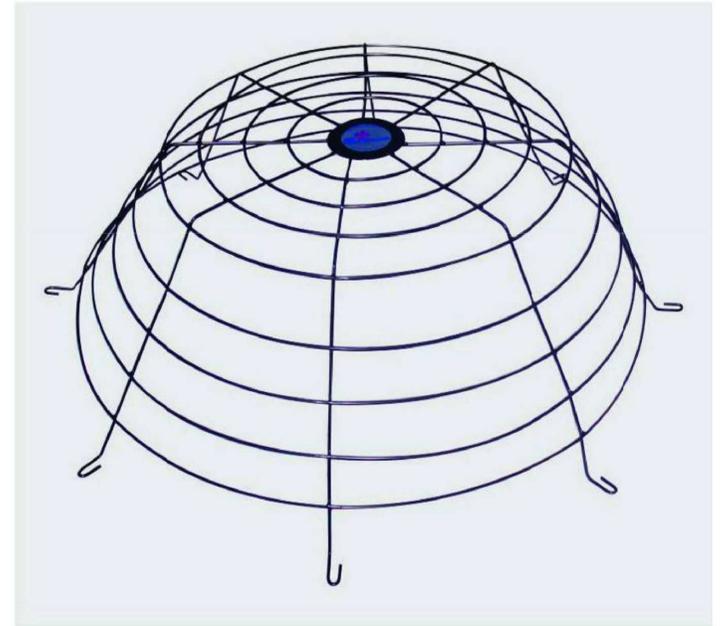
PRESIÓN SONORA ( SOUND PRESSURE ) dB (A)

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

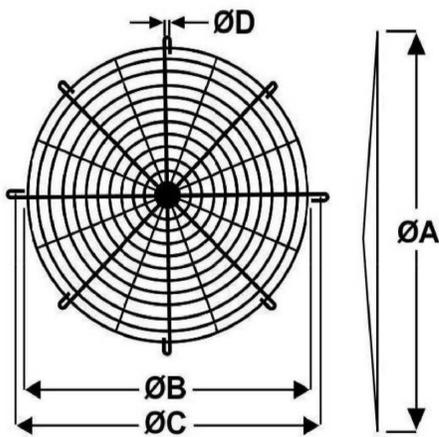
## REJILLA DE PROTECCION EN SUCCION ( INLET GUARD )



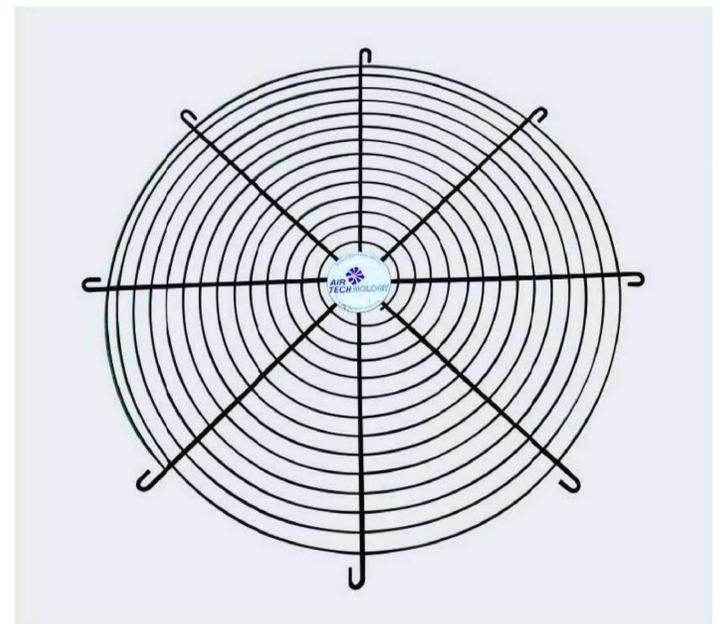
MODELO (MODEL)	PULGADAS (INCHES)						No. DE BARRENOS (HOLES)
	ØA	ØB	ØC	ØD	ØE	F	
TWP/A-42	47	43	45	1/2	25	13	8
TWP/A-48	53	49	51	1/2	31	15	8



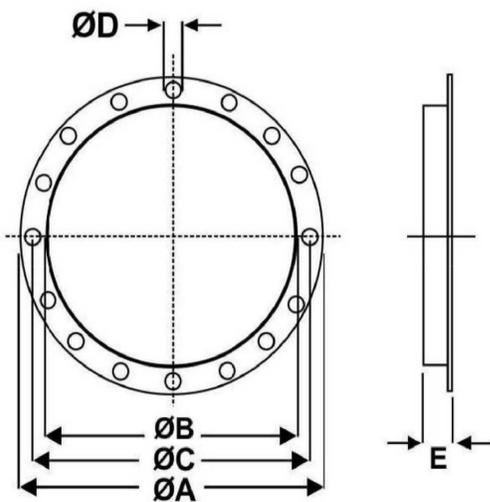
## REJILLA DE PROTECCION EN DESCARGA ( DISCHARGE GUARD )



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

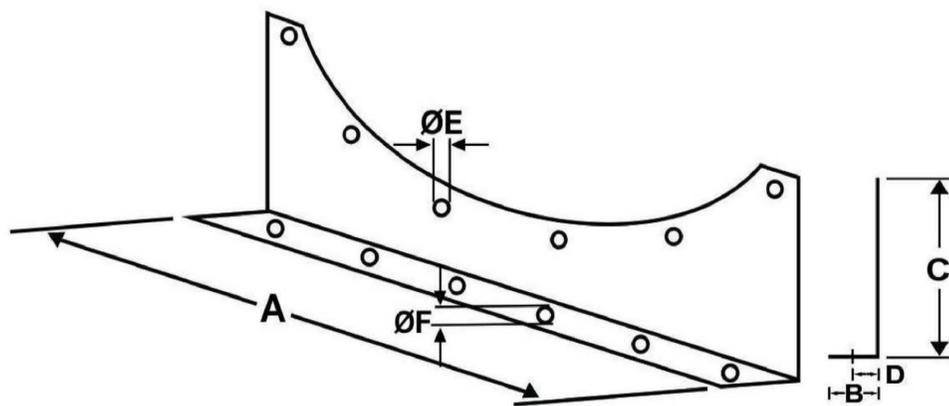


## BRIDA PARA DUCTO ( DUCT FLANGE )



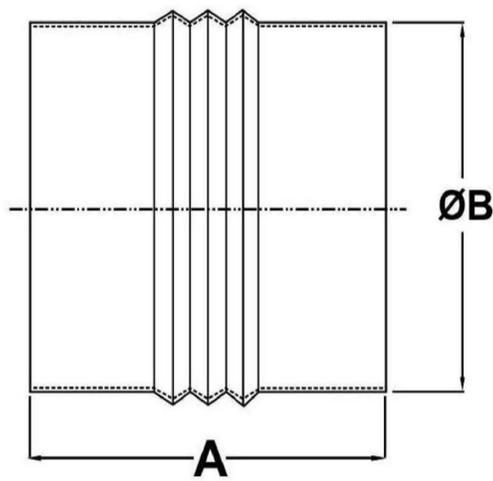
MODELO (MODEL)	PULGADAS (INCHES)					No. DE BARRENOS (HOLES)
	ØA	ØB	ØC	ØD	E	
TWP/A-42	47	43	45	1/2	2 3/4	16
TWP/A-48	53	49	51	1/2	2 3/4	16





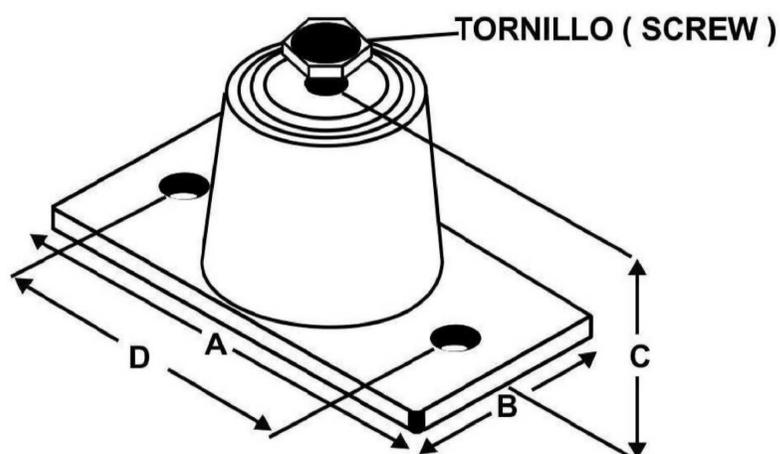
MODELO (MODEL)	PULGADAS (INCHES)						No. DE BARRENOS (HOLES)
	A	B	C	D	ØE	ØF	
TWP/A-42	39 3/4	2 3/4	12 1/2	1 3/8	1/2	1/2	12
TWP/A-48	44 1/2	2 3/4	14 1/2	1 3/8	1/2	1/2	12

BASE O SOPORTE DEL VENTILADOR  
( FAN STAND )



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

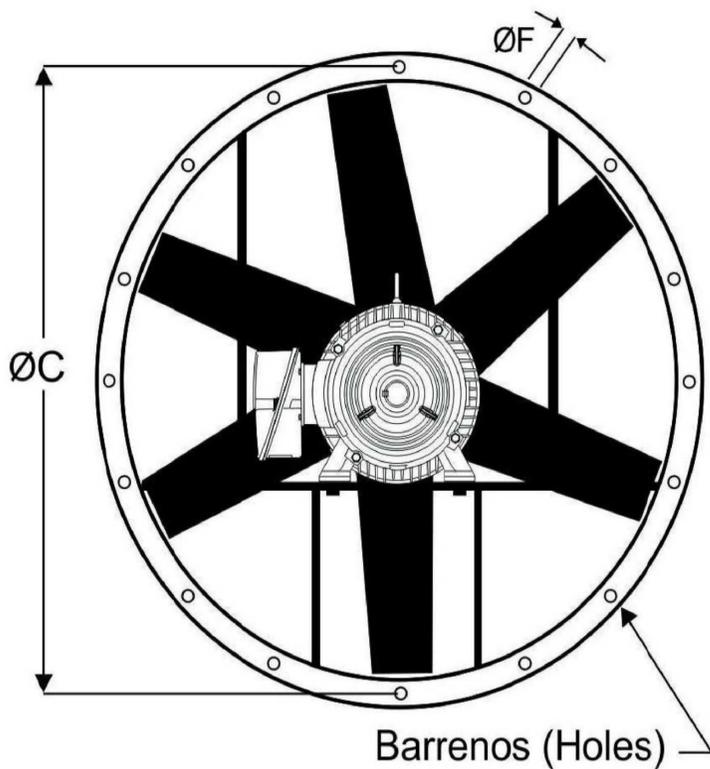


# TWP/A

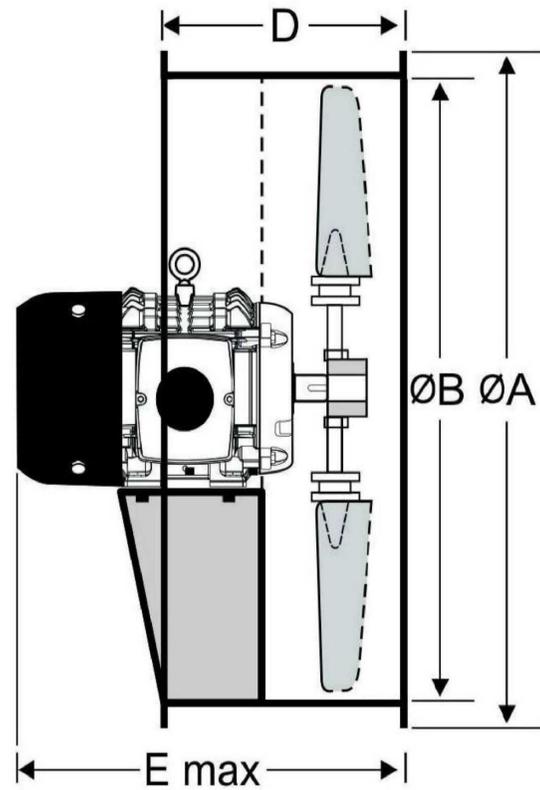
**AERO EXTRACTOR-INYECTOR TUBULAR DE ACOPLAMIENTO DIRECTO**  
**HELICE DE ALTA EFICIENCIA EN ANGULO VARIABLE DE 42" Y 48" DE DIAMETRO**

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

**VISTA POSTERIOR  
(BACK VIEW)**



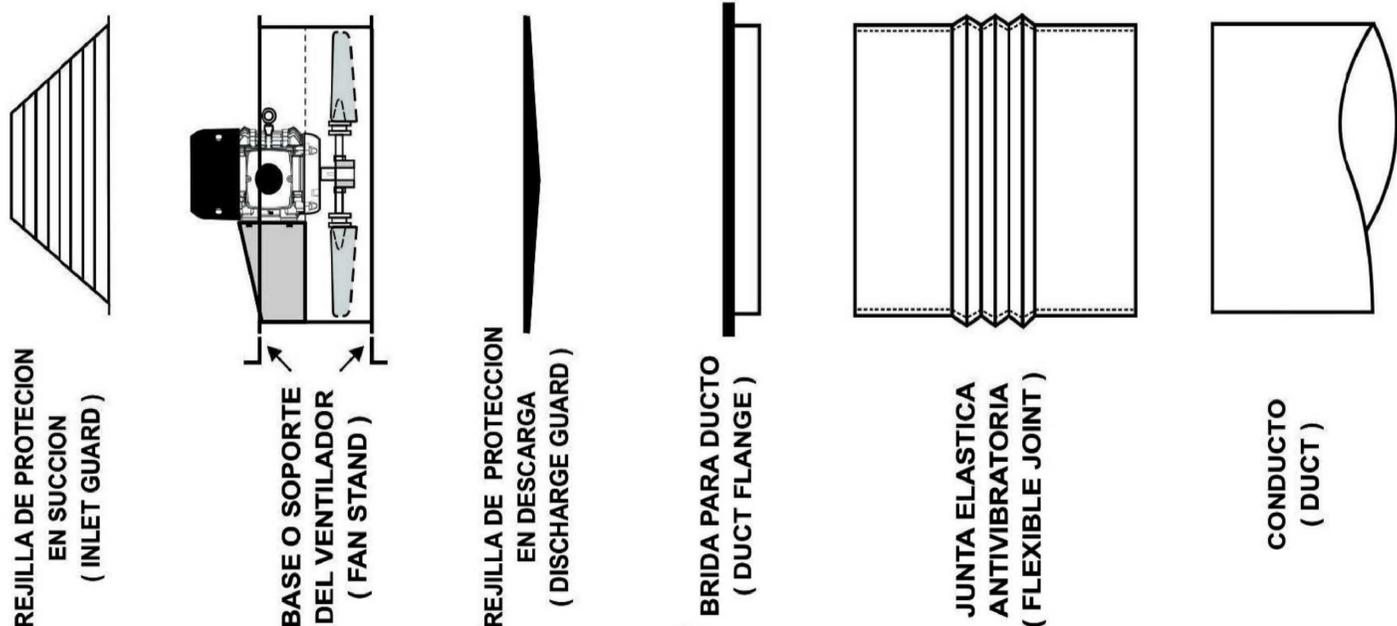
**VISTA LATERAL  
(SIDE VIEW)**



**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 )**



# MOMC

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The Right Choice



## OFICINAS

Santiago de Querétaro,  
Querétaro, México.

## CONTACTO

442 219 7860  
442 721 34 12  
442 106 35 73

[info@extractoresindustrialesdeaire.com](mailto:info@extractoresindustrialesdeaire.com)