

Bellaterra 14th of September 2010

ATT: AFS BORU SANAYI

We, APPLUS-LGAi, herewith inform you that have tested one fan according to UNE EN 12101-3:2002. This fan has been tested successfully, obtaining F300 60 min classification (the fire test was carried out for two hours (file number 10/101543-1475)).

- File no. 10/101543-1475 smoke extract fan THGT/4-500-6/32 by Soler&Palau with flexible connector 45mm + 60 mm + 45 mm as an accessory manufactured by AFS BORU SANAYI, reference AFS PU CONNECTOR + 45 mm.

Applus only verified that after fire test the flexible connector don't suffer no visible alterations (remains without any cracks)

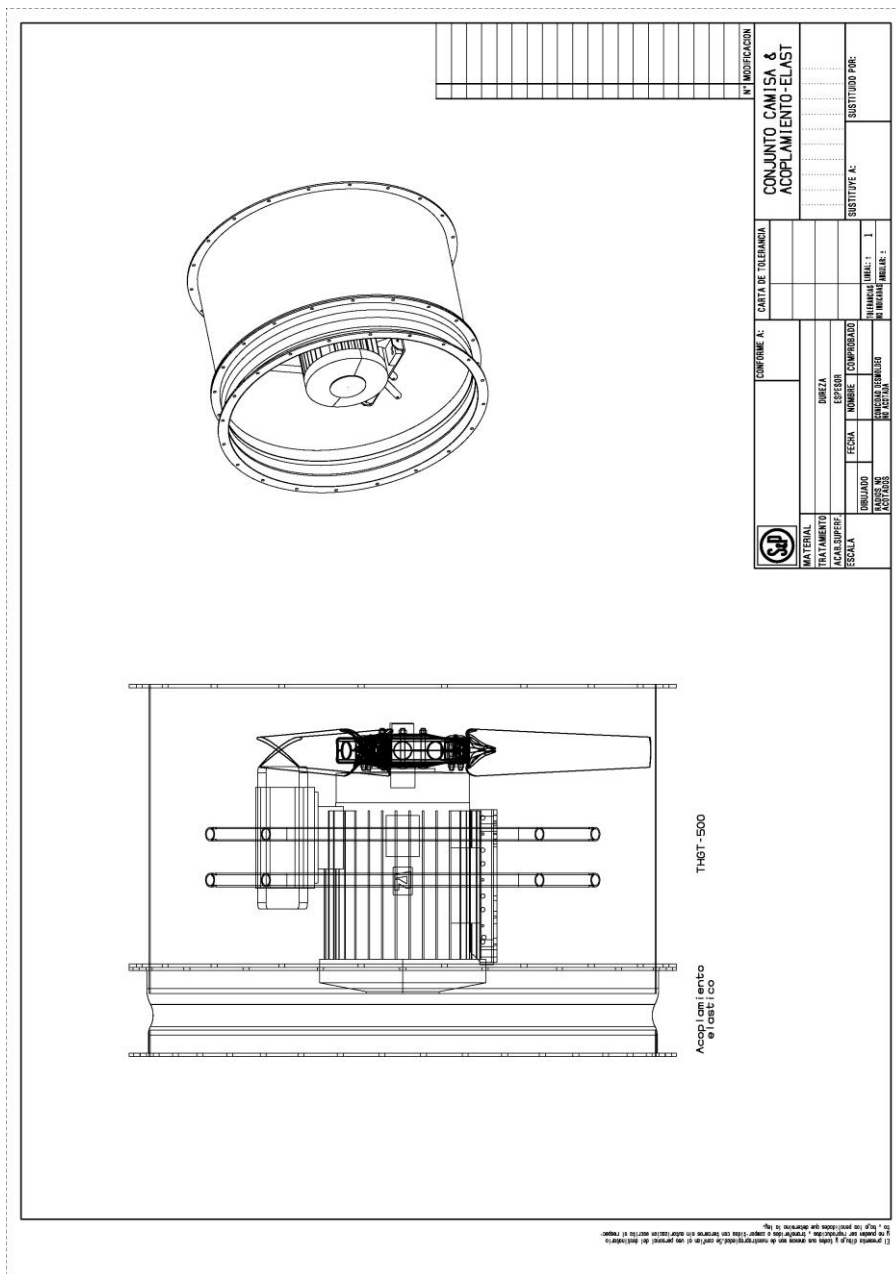
This document contains 6 pages, 5 of which are technical specifications provided by the sponsor.



Albert Ger
Responsible of Fire Resistance Laboratory.

• **ACOPLAMIENTO ELASTICO AFS.**

Se certifica como accesorio el acoplamiento elástico de AFS de fibra de vidrio recubierto de poliuretano 45/60/45 utilizando un THGT/4-500-6/32 0.75Kw de S&P. A continuación se muestra el montaje del ventilador+acoplamiento elástico para el ensayo:



El acoplamiento elástico se fija al aro brida mediante remaches.



Características técnicas según documentación adjunta:



■ Características técnicas - 2 polos - 2950 rpm (hélice de una pieza)

Es imprescindible comprobar que las características eléctricas (voltaje, intensidad, frecuencia, etc.) del motor que aparecen en la placa del mismo son compatibles con las de la instalación.

Modelo	Ø Boca (mm)	Potencia motor (kW)	Intensidad (A)		Caudal máximo (m³/h)	Peso (Kg)
			230 V	400 V		
THGT/2-400-6/17	400	0,75	2,72	1,57	4.315	48
THGT/2-400-6/22	400	0,75	2,72	1,57	5.166	48
THGT/2-400-6/27	400	1,1	4,02	2,32	6.530	48
THGT/2-400-6/32	400	1,5	5,21	3,01	7.453	53
THGT/2-450-6/22	450	1,5	5,21	3,01	8.930	60
THGT/2-450-6/27	450	2,2	7,76	4,48	10.650	60
THGT/2-450-6/32	450	3	10,43	6,02	12.226	63
THGT/2-500-6/17	500	1,5	5,21	3,01	9.650	63
THGT/2-500-6/22	500	2,2	7,76	4,48	12.255	76
THGT/2-500-6/27	500	4		7,50	14.628	88
THGT/2-560-6/17	560	4	-	7,50	15.755	101
THGT/2-560-6/22	560	5,5	-	10,30	18.795	120
THGT/2-560-6/27	560	7,5	-	13,60	22.046	124
THGT/2-630-6/17	630	7,5	-	13,60	22.435	133
THGT/2-630-6/22	630	9,2	-	17,00	26.774	141
THGT/2-630-6/27	630	11	-	20,00	31.393	175
THGT/2-630-6/32	630	15	-	27,00	35.348	181

THGT

Extractores helicoidales tubulares

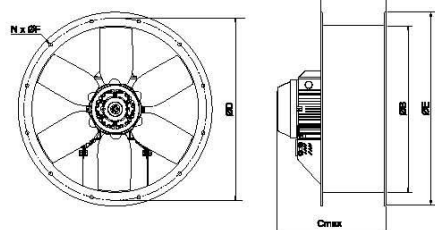
■ Características técnicas - 4 polos - 1450 rpm

Es imprescindible comprobar que las características eléctricas (voltaje, intensidad, frecuencia, etc.) del motor que aparecen en la placa del mismo son compatibles con las de la instalación.

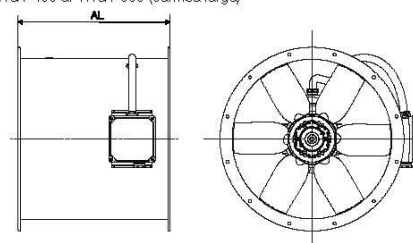
Modelo	Ø Boca (mm)	Potencia motor (kW)	Intensidad (A)		Caudal máximo (m³/h)	Peso (Kg)	
			230 V	400 V		camisa corta	camisa larga
THGT/4-400-6/-0,55	400	0,55	2,36	1,36	5.400	38	44
THGT/4-450-6/-0,55	450	0,55	2,36	1,36	7.400	39	45
THGT/4-500-6/-0,55	500	0,55	2,36	1,36	7.900	45	51
THGT/4-500-6/-0,75	500	0,75	3,20	1,85	9.800	46	52
THGT/4-500-6/-1,1	500	1,1	4,23	2,44	12.00	51	57
THGT/4-560-6/-0,55	560	0,55	2,36	1,36	9.800	54	71
THGT/4-560-6/-0,75	560	0,75	3,20	1,85	11.926	55	72
THGT/4-560-6/-1,1	560	1,1	4,52	2,61	13.787	60	77
THGT/4-560-6/-1,5	560	1,5	5,70	3,29	14.857	61	78
THGT/4-560-6/-2,2	560	2,2	8,23	4,75	16.900	67	84
THGT/4-630-6/-0,75	630	0,75	3,20	1,85	8940	59	74
THGT/4-630-6/-1,1	630	1,1	4,52	2,61	12.388	64	79
THGT/4-630-6/-1,5	630	1,5	5,70	3,29	16.323	65	80
THGT/4-630-6/-2,2	630	2,2	8,23	4,75	17.356	71	86
THGT/4-630-6/-3	630	3	11,21	6,47	21.520	74	89
THGT/4-710-5/-1,1	710	1,1	4,52	2,61	13.237	70	93
THGT/4-710-5/-1,5	710	1,5	5,70	3,29	18.067	71	94
THGT/4-710-7/-2,2	710	2,2	8,23	4,75	22.247	75	98
THGT/4-710-7/-3	710	3	11,21	6,47	25.273	78	101
THGT/4-710-7/-4	710	4	-	8,18	28.711	91	114
THGT/4-710-7/-5,5	710	5,5	-	11,00	32.713	104	127

■ **Dimensiones (mm)**

THGT-400 al THGT-800 (camisa corta)

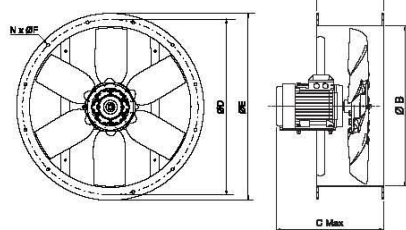


THGT-400 al THGT-800 (camisa larga)

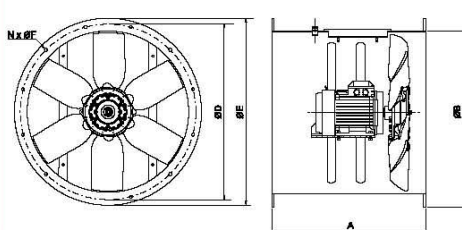


Diámetro	AC	AL	Ø B	C	D	Ø E	Ø F	N
	/4 - /6	/4 - /6						
THGT-400	250	470	400	415	450	487	12	8
THGT-450	250	470	450	430	500	537	12	8
THGT-500	250	470	500	440	560	595	12	12
THGT-560	280	470	560	440	620	664	12	12
THGT-630	280	470	630	440	690	735	12	12
THGT-710	380	600	710	512	770	815	12	16
THGT-800	380	600	800	622	860	905	12	16

THGT-900 al THGT-1250 (camisa corta)

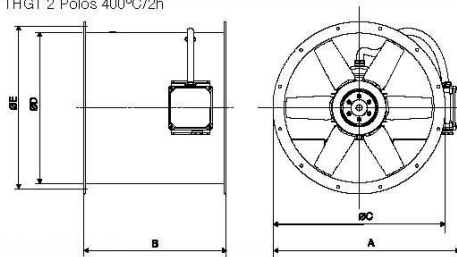


THGT-900 al THGT-1250 (camisa larga)



Modelo	A		Ø B	C Max.	D	Ø E	Ø F	N°
	Camisa corta	Camisa larga						
THGT-900	420	750	900	737	970	1005	15	16
THGT-1000	450	780	1000	767	1070	1105	15	16
THGT-1250	500	1150	1250	985	1320	1355	15	20

THGT 2 Polos 400°C/2h



Modelo	A	B	C	D	E	F	n
400	558	380	536	400	450	12	8
450	613	480	606	450	500	12	8
500	662	480	656	500	560	12	12
560	726	600	716	560	620	12	12
630	795	600	786	630	690	12	12
630 (16/4KW)	815	700	786	630	690	12	12

THGT

Extractores helicoidales tubulares



■ Curvas características - Motores de 4 polos

- Q = Caudal en m³/h y m³/s
- Pe = Presión estática en mm.c.d.a. y Pa.
- Aire seco normal a 20 °C y 760 mm Hg.
- Ensayos realizados de acuerdo a Norma ISO 5801 y AMCA 210-99.

LOS VALORES DE RUIDO DADOS EN LAS GRAFICAS CORRESPONDEN A POTENCIAS SONORAS (Lw dB(A)). PARA TRANSFORMAR A PRESION SONORA (Lp dB(A)). VER CUADRO PAGINA 49.

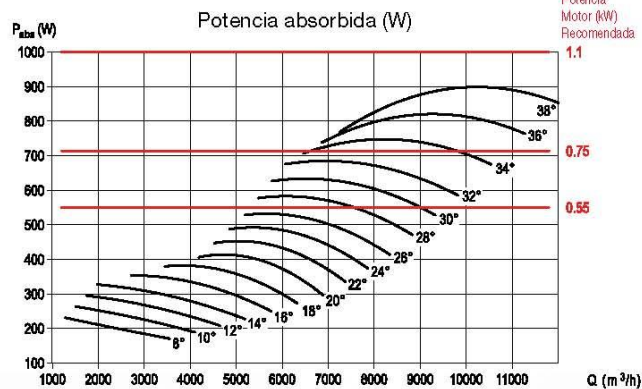
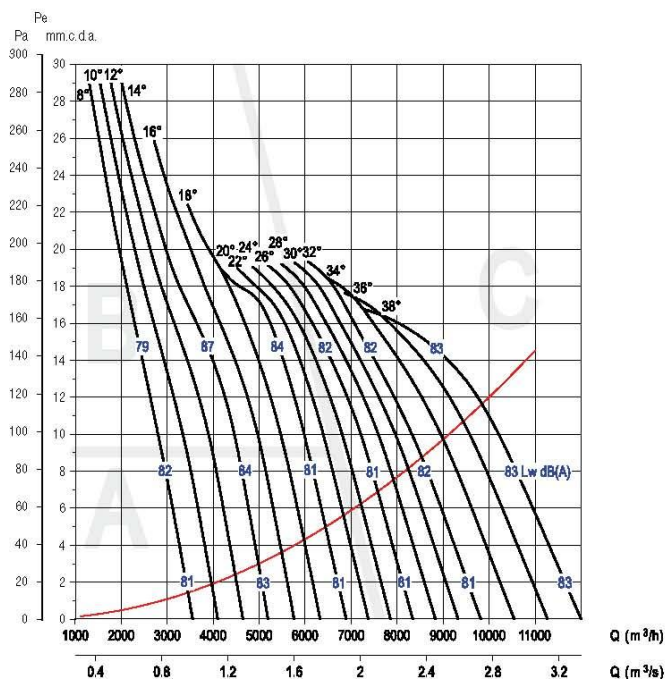
THGT / TGT

Número de polos: **4**
Diámetro nominal (mm): **500**
Número de palas: **6**

THGT/4-500-6/ _ °- kW
TGT/4-500-6/ _ °- kW

Hz	A	B	C
63	38	38	31
125	22	21	19
250	12	9	12
500	5	5	6
1000	4	5	5
2000	7	8	6
4000	13	14	11
8000	21	23	19

Tabla de factores de corrección para el cálculo de los espectros de nivel sonoro.



THGT

Extractores helicoidales tubulares



Soler & Palau
Sistemas de Ventilación S.L.U.



BORU SANAYİ A.Ş.
İvedik Organize Sanayi Bölgesi
1468. Cad. (Eski 24) No:153
Östim 06370 Ankara / Türkiye
Ticaret Sicil No: 270113
Vergi No: 3501013804000000
E-posta: info@borusanayi.com.tr
www.afs.com.tr

10TH June, 2010, Ankara
SEY/EXR

Subject: TECHNICAL SPECIFICATION OF "AFS PU CONNECTOR"

Dear Sir,

We hereby confirm the following technical specifications of
our product
"AFS PU CONNECTOR"....

Company Name: AFS BORU SANAYİ A.Ş.
İvedik Organize San. Bölgesi
1468. Cad. (Eski 24) No:153
Östim 06370 Ankara TURKEY

Marque Commerciale: Fiberglass fabric coated with polyurethane, 2 Sides color
grey, black. AFS PU Connector

Description Sommaire: Tissu en fibre de verre enduit sur les deux faces de PU ignifuge
Masse surfacique: 460 g/m² ± 1 gm²
Epaisseur: 0,4mm ± 0,03mm
Coloris presentes: Gris-Noir

The standart dimension:

METAL + FABRIC + METAL

→ 35 mm + 60 mm + 35 mm
45 mm + 60 mm + 45 mm
45 mm + 75 mm + 45 mm
45 mm + 150 mm + 45 mm
50 mm + 60 mm + 50 mm
70 mm + 100 mm + 70 mm

Yours faithfully,

Seyhan ÖZBEY
Export Manager


BORU SANAYİ A.Ş.
İvedik O.S.B. 1468. Cad. (Eski 24) No: 153
Tic. Sicil No: 270113 / Vergi No: 3501013804000000
Hizmet Verdiği Şirketler: DGS DGS 2808



Soler & Palau
Sistemas de Ventilación S.L.U.







Technical Properties

Construction	Galvanized steel plate + Reinforced PU + Galvanized steel plate
Base material	Fiberglass
Coating	Polyurethane
Color	Black & Grey
Standard Length	25 m
Temperature Range	-30 °C / +180 °C

Standard Dimensions

35 + 60 + 35	45 + 60 + 45	45 + 75 + 45
45 + 150 + 45	50 + 60 + 50	70 + 100 + 70

Other dimensions & lengths are also available upon request

AFS[®]

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Oil & Grease Resistant
Weather, Ozone, Age Resistant
Abrasion Resistant
Waterproof, Airtight