

CERTIFICATE OF CONSTANCY OF PERFORMANCE

LGAI Technological Center, S.A. (APPLUS)
Notified Body Nr. 0370

No. **0370-CPR-6216**

In compliance with Regulation (EU) Nr.305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

SMOKE AND HEAT CONTROL SYSTEMS. VENTILATORS (FANS).

PRODUCT: **THGT F400, CHGT F400, HGHT H/V F400, THGT-HATCH F400**

Placed on the market under the name of:

S&P SISTEMAS DE VENTILACIÓN, S.L.U.

C/ LLEVANT, 4
08150 PARETS DEL VALLÈS (BARCELONA)

And produced in the manufacturing plant:

22/32307508 (EUROPE), 22/32307509 (EUROPE) & 22/32307510 (EUROPE)

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 12101-3:2015

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 28th January 2022 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. It is confirmed and modified on 3rd February 2023.

The monitoring assessment will be done before 30th November 2023

Bellaterra, 3rd February 2023


LGAI Technological Center, S.A.

Xavier Ruiz Peña
Managing Director, Product Conformity B.U.



This document is not valid without its technical annex; whose number coincides with that of the certificate.

You can check the validity of this certificate into our website at: www.appluslaboratories.com/certified_products

The manufacturer, after the completion of the conformity assessment procedures and the declaration of performance, may affix the CE Marking under his responsibility



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Annex according to **EN 12101-3:2015**

SMOKE AND HEAT CONTROL SYSTEMS. PART 3: SPECIFICATION FOR POWERED SMOKE AND HEAT CONTROL VENTILATORS (FANS)

THGT F400 – Manufactured in: 22/32307508 & 22/32307510

CERTIFIED PERFORMANCES

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
Response delay - Opening under wind load within a given time; - Opening under snow load within a given time.	4.1.1	NA
		NA
Operational reliability - Application categories; - Motor rating.	4.2.2	<ul style="list-style-type: none"> • Thermally uninsulated • For use inside and outside smoke reservoir • Direct/converter feed • Dual purpose use • Horizontal and vertical direction of motor shaft
	4.2.3	NPD
Effectiveness of smoke/hot gas extraction: - Gas flow and pressure maintenance during smoke and heat extraction test.	4.3.2	+/-20% (P _S)
Resistance to fire	4.4	F ₄₀₀ (120)
Ability to open under environmental conditions - Opening under wind load within a given time; - Opening under snow load within a given time.	4.5	NA
		NA
Durability of operational reliability	4.6	NPD

PASS; NPD = No Performance Determined; NA = Not Applicable

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PRODUCT

1.- Application:

- Fan tested inside the furnace.
- Fan F400 (120).
- Dual use.
- Horizontal and vertical direction of motor shaft.

2.- Characteristics:

- Motor: WEG motors
- Motor voltage: 400 V
- Motor frequency: 50/60 Hz

3.- Accessories:

- ARO BRIDA TGT/THGT
- EMB-xxxT
- EMB-xxxS
- ACOPEL F400
- CLAR
- DEF.ASP.TGT/THGT
- DEF.DES.TGT/THGT
- PIE SOPORTE TGT/THGT
- SIL CZ
- SIL CZO
- AM-xxM / DSD
- PER-CN
- PER-CR
- INT-xx/6P-F400
- VSD CFW

The complete technical data of the certified range **THGT F400** are detailed in the technical file and the range report nº 19/18992-2428 and 20/21609-8 M1.

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CHGT F400 – Manufactured in: 22/32307508, 22/32307509 & 22/32307510

CERTIFIED PERFORMANCES

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
Response delay - Opening under wind load within a given time; - Opening under snow load within a given time.	4.1.1	NPD
		NA
Operational reliability - Application categories; - Motor rating.	4.2.2	<ul style="list-style-type: none"> • Thermally uninsulated • Installation inside and outside smoke reservoir • Horizontal and vertical direction of motor shaft • Direct feed or by converter • Dual purpose use
	4.2.3	NPD
Effectiveness of smoke/hot gas extraction: - Gas flow and pressure maintenance during smoke and heat extraction test.	4.3.2	+/-20% (P _s)
Resistance to fire	4.4	F ₄₀₀ (120)
Ability to open under environmental conditions - Opening under wind load within a given time; - Opening under snow load within a given time.	4.5	NPD
		NA
Durability of operational reliability	4.6	NPD

PASS; NPD = No Performance Determined; NA = Not Applicable

PRODUCT

1.- Application:

- Fan tested inside the furnace
- Fan F400 (120)
- Dual use
- Horizontal and vertical air flow

2.- Characteristics:

- Motor: W21/22
- Power up to 45 kW
- Size: from 80 to 225
- Rated frequency: 50 Hz
 - 2, 4, 6, 2/4, 4/6, 4/8, 6/12 poles
- Rated frequency: 60 Hz
 - 4, 6, 4/6, 4/8, 6/12 poles
- Rated Voltage motor: 400 V

3.- Accessories:

- CLAR
- AM-xxM / DSD
- PER-CN
- PER-CR
- CVD
- ACOP RECT F400
- INT-xx/6P-F400
- VSD CFW

The complete technical data of the certified range **CHGT F400** are detailed in the technical file and the range report n° 22/32306330 and 20/21609-8 M1.

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HGHT H/V F400 – Manufactured in: 22/32307508 & 22/32307510

CERTIFIED PERFORMANCES

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
Response delay - Opening under wind load within a given time; - Opening under snow load within a given time.	4.1.1	< 30 s (H)
		SL 1000 (V)
Operational reliability - Application categories; - Motor rating.	4.2.2	<ul style="list-style-type: none"> Thermally uninsulated For use outside smoke reservoir Direct feed Dual purpose use
		4.2.3
Effectiveness of smoke/hot gas extraction: - Gas flow and pressure maintenance during smoke and heat extraction test.	4.3.2	+/-20% (P _s)
Resistance to fire	4.4	F ₄₀₀ (120)
Ability to open under environmental conditions - Opening under wind load within a given time; - Opening under snow load within a given time.	4.5	< 30 s (H)
		SL 1000 (V)
Durability of operational reliability	4.6	NPD

PASS; NPD = No Performance Determined; NA = Not Applicable

PRODUCT

1.- Application:

- Fan tested outside the furnace.
- Fan F400 (120).
- Dual use.
- Fans with vertical airflow inlet and horizontal and vertical airflow outlet.
- Kind of snow: SL 1000 (only model V)
- Wind charge: 200 Pa (only model H)
- Type H models are models with horizontal air discharge.
- Type V models are models with vertical air discharge.

2.- Characteristics:

- Motor: Smoke Extraction Motor-TEFC V2 by WEG (400 V/690 V)

3.- Accessories:

- ARO BRIDA TGT/THGT
- EMB-xxxT
- EMB-xxxS
- ACOPEL F400
- DEF.ASP.TGT/THGT
- SIL CZ
- SIL CZO
- INT-xx/6P-F400
- JBS JBS-V

The complete technical data of the certified range **HGHT V/H F400** are detailed in the technical file and the range report nº 10/100522-62 M1 and 20/21609-8 M1.

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THGT-HATCH F400 – Manufactured in: 22/32307508

CERTIFIED PERFORMANCES

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
Response delay - Opening under wind load within a given time; - Opening under snow load within a given time.	4.1.1	< 30 s
		SL 1000
Operational reliability - Application categories; - Motor rating.	4.2.2	<ul style="list-style-type: none"> Thermally uninsulated. Installation outside the smoke reservoir. Vertical direction of motor shaft. Direct feed. Dual purpose use.
	4.2.3	NPD
Effectiveness of smoke/hot gas extraction: - Gas flow and pressure maintenance during smoke and heat extraction test.	4.3.2	+/-20% (P _S)
Resistance to fire	4.4	F ₄₀₀ (120)
Ability to open under environmental conditions - Opening under wind load within a given time; - Opening under snow load within a given time.	4.5	< 30 s
		SL 1000
Durability of operational reliability	4.6	NPD

PASS; NPD = No Performance Determined; NA = Not Applicable

PRODUCT

1.- Application:

- Fan tested outside the furnace.
- Fan F400 (120).
- Vertical direction of motor shaft.

2.- Characteristics:

- Covered fan diameters: from 500 mm up to 1250 mm.
- Motor: "W22" from WEG, F400 motors.
 - From size 80 to 225S/M
 - Up to 45 kW
 - 2, 4, 6, 2/4, 4/6, 4/8, 6/12 poles
 - 50 Hz
 - 400 V +/- 10%

3.- Accessories:

- ARO BRIDA TGT/THGT
- EMB-xxxT
- EMB-xxxS
- ACOPEL F400
- CLAR
- DEF.ASP.TGT/THGT
- DEF.DES.TGT/THGT
- PIE SOPORTE TGT/THGT
- SIL CZ
- SIL CZO
- AM-xxM / DSD
- PER-CN
- PER-CR
- INT-xx/6P-F400
- VSD CFW

The complete technical data of the certified range **THGT-HATCH F400** are detailed in the technical file and the range report nº 20/18992-702 and 20/21609-8 M1.