

CERTIFICATE OF CONSTANCY OF PERFORMANCE

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

No. **0370-CPR-3914**

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 RANGE: "ARMO-A", "ARMO-C", "ARMO-R", "ARMO-JP" & "ARMO-TJF" F400 Axial fans

Placed on the market under the name of:

BAHÇIVAN HAVALANDIRMA SISTEMLERİ VE ELEKTRİK MOTORLARI SAN. VE TIC. A.Ş

ÖMERLİ MAH. HADIMKÖY CD. No: 147
34555 ARNAVUTKÖY / İSTANBUL / TÜRKİYE

And produced in the manufacturing plant:

ÖMERLİ MAH. HADIMKÖY CD. No: 147
34555 ARNAVUTKÖY / İSTANBUL / TÜRKİYE

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 13th March 2020 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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 on 26th July 2024.

The monitoring assessment will be done before 30th June 2025

Bellaterra, 26th July 2024


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 the number of certificate.

You can check the validity of this certificate on our website: 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)

CERTIFIED PERFORMANCE

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 • Dual use • Direct/converter Feed • Installation inside and outside of the smoke reservoir
	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, +50] %
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:

- Extractor tested inside and outside the furnace.
- Extractor F400. Tested during 120 min.
- ARMO-A: Axial Duct Fans
- ARMO-R: Roof fans
- ARMO-C: Axial Cabinet Fans
- ARMO-JP: Axial Jet Fans
- ARMO-TJF: Tunnel Jet Fans.

2.- Characteristics:

- Motor: "W22" by WEG:
 - Rated Voltage: 400V ($\pm 10\%$).
 - Motor size from 80 to 250.
 - Frequency 50 Hz (also valid for 60 Hz D.O.L in models with 4p or higher number of poles).
 - Up to 45 kW.
 - 2, 4, 6, 2/4, 4/6, 4/8 poles
- Fan size from 315 to 1250.

3.- Accessories:

- Terminal box references "M32", "M25" ÖZ-ER Elektrik.
- Terminal block reference "MIM5 MOTOR KLEMENSI" by Megisan Elektrik.
- Dome reference "ARMOR40005".
- Protection grille reference "ARMOR40002".
- Mount flange reference "ARMOR40001".
- Silencers.
- Diffuser.
- Frequency converter.

The complete technical data of the certified range "**ARMO-A**", "**ARMO-C**", "**ARMO-R**", "**ARMO-JP**" and "**ARMO-TJF**" **F400 Axial fans** are detailed in the technical file and the range report nº 20/17774-507-2.