LGAI Technological Center, S.A. (APPLUS)
Campus UAB - Ronda de la Font del Carme s/n
08193 Bellaterra (Barcelona)
T +34 93 567 20 00
CIF: A-63207492
www.appluslaboratories.com

CERTIFICATE OF CONSTANCY OF PERFORMANCE

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

No. 0370-CPR-3436

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: **F300/2 hours - RADIAL JET FAN ARMO-JR 50 60 Hz**

Placed on the market under the name of:

BAHÇIVAN HAVALANDIRMA SISTEMLERI VE ELEKTRIK MOTORLARI SAN. VE TIC. A.S

ÖMERLI MAH. HADIMKÖY CD. No: 147
34555 ARNAVUTKÖY / İSTANBUL / TÜRKIYE

And produced in the manufacturing plant:

ÖMERLI MAH. HADIMKÖY CD. No: 147
34555 ARNAVUTKÖY / İSTANBUL / TÜRKIYE

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 21st June 2019 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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

Applus LGAI Technological Center, S.A.

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

ENAC
CERTIFICACIÓN
ISO 17065
Nº12 / C-PR054

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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Technical Annex Ed. 3
26/03/2021

0370-CPR-3436

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	• 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_{300} (60)
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.
- F300 fan. Tested during 120 minutes.
- Dual purpose ventilator.
- Vertical inlet and horizontal outlet air flow direction.
- Motor: "90L-08/04" by WEG: Converter feed.
- Motor: "W22" by WEG: Direct feed.

2.- Characteristics:

- Motor: "90L-08/04" by WEG:
  - Rated Voltage: 400V (±10%).
  - Motor size: 90L.
  - Frequency 60 Hz.
  - Power from 0.4/1.6 kW.
  - 4 poles.
- Motor: "W22" by WEG:
  - Rated Voltage: 440V (±10%).
  - Motor size: 90S.
  - Frequency 50 Hz.
  - Power from 0.3/1.2 kW.
  - 4/8 poles.

3.- Accessories:

- Motor: "90L-08/04" by WEG:
  - The impeller is coupled directly with the electric motor.
  - The externa motor box is plugged to the electric net by means of high temperature resistant cable model SILICABLE NVAS of OMERIN.
- Motor: "W22" by WEG:
  - Direct driven fixing between motor and fan.
  - The grease used in C3 bearings motor is "MOBIL POLYREX EM".
  - Terminal box with reference "M25-M32-M40-M50" ÖZ-ER Elektrik.
  - Terminal block with reference "MIM5 MOTOR KLEMENSI" by Megisan Elektrik.
  - The connection between the terminal box and the electrical net is made using high temperature cable with reference "Silicable® MV-VS" of Omerin.
  - One protection grille with reference "TEL KAFES-JR050" by BVN, placed at the inlet of the fan.

The complete technical data of the certified range **F300/2hours-RADIAL JET FAN ARMO-JR 50 60 Hz** are detailed in the technical file report nº 19/17774-215 M1 and 20/23860-2428.