LGAI Technological Center, S.A. (APPLUS)
Campus UAB - Ronda de la Font del Carme s/n
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FIRE SAFETY CERTIFICATION

PRODUCT APPROVAL

No. **APF-1503**

LGAI TECHNOLOGICAL CENTER S.A. (APPLUS), according to the requirements of the SPC-102 Ed. 8, certifies the performances stated in the technical annex following the reference standard for:

Product model	F300/2 hours - RADIAL JET FAN ARMO-JR 50 60 Hz
Company	**BAHÇIVAN HAVALANDIRMA SISTEMLERI VE ELEKTRIK MOTORLARI SAN. VE TIC. A.S** ÖMERLI MAH. HADIMKÖY CD. No: 147 34555 ARNAVUTKÖY, İSTANBUL, TÜRKIYE
Manufactured	**BAHÇIVAN HAVALANDIRMA SISTEMLERI VE ELEKTRIK MOTORLARI SAN. VE TIC. A.S** ÖMERLI MAH. HADIMKÖY CD. No: 147 34555 ARNAVUTKÖY, İSTANBUL, TÜRKIYE
Standard Reference	EN 12101-3:2015 "Smoke and heat control systems. Part 3: Specification for powered smoke and heat control ventilators (fans)".
Product Details and Test Report	Please check at the technical annex file reports nº 19/17774-215 M1 and 20/23860-2428



Renovation of the initial certificate issued on 21th June 2019

Valid until 30th June 2025

Bellaterra, 26th July 2024

Applus LGAI Technological Center, S.A.
Xavier Ruiz Peña
Product Conformity B. U., Managing Director

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

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

ENAC CERTIFICACIÓN ISO 17065 Nº12 / C-PR054

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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 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	• 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.