

FIRE SAFETY CERTIFICATION

PRODUCT APPROVAL

No. **APF-1692**

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 range	"ARMO-JR 50" F400 Radial Jet
Company	BAHÇIVAN HAVALANDIRMA SİSTEMLERİ VE ELEKTRİK MOTORLARI SAN. VE TIC. A.Ş ÖMERLİ MAH. HADIMKÖY CD. No: 147 34555 ARNAVUTKÖY, İSTANBUL, TÜRKİYE
Manufactured	BAHÇIVAN HAVALANDIRMA SİSTEMLERİ VE ELEKTRİK MOTORLARI SAN. VE TIC. A.Ş ÖMERLİ MAH. HADIMKÖY CD. No: 147 34555 ARNAVUTKÖY, İSTANBUL, TÜRKİYE
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 and the classification report n° 19-20704-2384 & IC-19-20704-2384



Renovation of the initial certificate issued on 13th March 2020

Valid until 30th June 2025

Bellaterra, 26th July 2024

 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.

APF-1692

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	<ul style="list-style-type: none"> Thermally uninsulated Dual use Converter Feed Installation inside and outside of the smoke reservoir 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, +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

PRODUCT

1.- Application:

- Extractor tested inside the furnace.
- Extractor F400. Tested during 120 min.
- Vertical inlet and horizontal outlet of the direction of air flow.
- 7 Galvanized steel blades.
- Inlet air flow in vertical direction and the outlet air flow in horizontal direction.

3.- Accessories:

- The impeller is coupled directly with the electric motor.
- The motor is plugged to electric net by means of high temperature resistant cable model VSH 1200.
- Protection grid.
- Power terminal.
- Frequency converter

2.- Characteristics:

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