

FIRE SAFETY CERTIFICATION

PRODUCT APPROVAL



No.

APF-1401

LGAI TECHNOLOGICAL CENTER S.A. (APPLUS), under the requirements of its SPC-102 certifies:

Product range	"ARMO-A", "ARMO-R", "ARMO-C, "ARMO-TJF" and "ARMO-JP" F300 Axial Fans
Company	BAHÇIVAN ELEKTRİK MOTOR SAN. VE TIC. LTD. ŞTI. ÖMERLİ MAH. HADIMKÖY CD. No: 147 34555 ARNAVUTKÖY / İSTANBUL / TÜRKİYE
Manufactured	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 range report n° 18/17774-1514



Renovation / Modification of the initial certificate issued on 7th September 2018

Valid until 30th June 2021

Bellaterra, 17th July 2020

<p><i>p.a.</i> Applus+ LGAI Technological Center, S.A. Xavier Ruiz Peña Product Conformity B. U., Managing Director</p>	
You can check the validity of this certificate into our website at: https://apps.applus.com/microsites/microsites/FECIP/login	

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

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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 Feed Installation inside and outside of the smoke reservoir
	4.2.3	H, 80
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 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	H, 80

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

PRODUCT

1.- Application:

- Fan tested inside the furnace.
- F300 fan. Tested during 120 minutes.
- Dual purpose ventilator.
- Horizontal/vertical direction of the motor shaft.

3.- Accessories:

- ARMO-JP fans were tested with galvanized covered steel plate silencers filled with stone wool "Earthwool 035 Knauf" of 20 kg/m³

2.- Characteristics:

- Motor: "W22" by WEG:
 - Rated Voltage: 380 V or 440V (±10%).
 - Motor size from 80 to 225S/M.
 - Frequency 50 or 60 Hz.
 - Power from 0.2 to 45 kW
 - 2, 4, 6 or 8 poles
- Fan size from 315 to 1250.