

# FIRE SAFETY CERTIFICATION

## PRODUCT APPROVAL



No.

**APF-1691**

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

<b>Product range</b>	"ARMO-A", "ARMO-C", "ARMO-R" and "ARMO-JP" F400 Axial fans
<b>Company</b>	<b>BAHÇIVAN ELEKTRİK MOTOR SAN. VE TIC. LTD. ŞTİ.</b> ÖMERLİ MAH. HADIMKÖY CD. No: 147 34555 ARNAVUTKÖY / İSTANBUL / TÜRKİYE
<b>Manufactured</b>	ÖMERLİ MAH. HADIMKÖY CD. No: 147 34555 ARNAVUTKÖY / İSTANBUL / TÜRKİYE
<b>Standard Reference</b>	EN 12101-3:2015 "Smoke and heat control systems. Part 3: specification for powered smoke and heat control ventilators (fans)".
<b>Product Details and Test Report</b>	Please check at the technical annex file and the range report n° 20/17774-507



**Renovation / Modification** of the initial certificate issued on 13<sup>th</sup> March 2020

**Valid until 30<sup>th</sup> June 2021**

Bellaterra, 17<sup>th</sup> July 2020

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

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

## APF-1691

### CERTIFIED PERFORMANCE

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
<b>Response delay</b> - Opening under wind load within a given time; - Opening under snow load within a given time.	4.1.1	NA
		NA
<b>Operational reliability</b> - Application categories; - Motor rating.	4.2.2	<ul style="list-style-type: none"> <li>Thermally uninsulated</li> <li>Dual use</li> <li>Direct/converter Feed</li> <li>Installation inside and outside of the smoke reservoir</li> </ul>
	4.2.3	NPD
<b>Effectiveness of smoke/hot gas extraction:</b> - Gas flow and pressure maintenance during smoke and heat extraction test.	4.3.2	+/-20% (P <sub>s</sub> )
<b>Resistance to fire</b>	4.4	F <sub>400</sub> (120)
<b>Ability to open under environmental conditions</b> - Opening under wind load within a given time; - Opening under snow load within a given time.	4.5	NA
		NA
<b>Durability of operational reliability</b>	4.6	NPD

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

### 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

#### 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.

#### 2.- Characteristics:

- Motor: "W22" by WEG:
  - Rated Voltage: 400V (±10%).
  - Motor size from 80 to 160L.
  - Frequency 50 Hz (also valid for 60 Hz D.O.L in models with 4p or higher number of poles).
  - Power from 0.2 to 15 kW.
  - 2, 4 or 6 poles.
- Fan size from 315 to 1250.