

# FIRE SAFETY CERTIFICATION

## PRODUCT APPROVAL



No. **APF-1692**



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

Product range	"ARMO-JR 50"
Company	<b>BVN - BAHÇIVAN ELEKTRİK MOTOR SAN. VE TİC. LTD. ŞTİ.</b> Ömerli Mah. Hadimköy-Istanbul Cd. No: 147 34555 Arnavutköy / Istanbul / Türkiye
Manufactured	<b>BNV - BAHÇIVAN ELEKTRİK MOTOR SAN. VE TİC. LTD. ŞTİ.</b> Ömerli Mah. Hadimköy-Istanbul Cd. No: 147 34555 Arnavutköy / Istanbul / 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 and the test report and classification report n° 19-20704-2384 and IC-19-20704-2384



Valid until June 2020

Bellaterra, 13<sup>th</sup> March 2020

 LGAI Technological Center, S.A. <b>Xavier Ruiz Peña</b> Product Conformity B. U., Managing Director	
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.

## TECHNICAL ANNEX

## APF-1692

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>• Converter feed</li> <li>• Dual purpose use</li> <li>• To use inside/outside smoke reservoir</li> <li>• Vertical direction of motor shaft.</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 the furnace.
- Extractor F400 (120). Tested during 120 min.
- Vertical inlet and horizontal outlet of the direction of air flow.
- 7 Galvanized steel blades.

### 2.- Characteristics:

- Motor: 90S-08/04 by WEG
- Construction size: 90S
- Rated frequency: 50 Hz
- Rated Voltage motor: 400 V
- Polarity: 8/4

### 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